Delivery of siRNA to the mouse brain by systemic inject

Nature Biotechnology

29, 341-345

DOI: 10.1038/nbt.1807

Citation Report

#	Article	IF	Citations
1	A Laminar Flow Electroporation System for Efficient DNA and siRNA Delivery. Analytical Chemistry, 2011, 83, 5881-5887.	3.2	48
2	Targeting RNA to treat neuromuscular disease. Nature Reviews Drug Discovery, 2011, 10, 621-637.	21.5	139
3	Mesenchymal stem cell exosome: a novel stem cell-based therapy for cardiovascular disease. Regenerative Medicine, 2011, 6, 481-492.	0.8	477
4	Synthetic poly(ester amine) and poly(amido amine) nanoparticles for efficient DNA and siRNA delivery to human endothelial cells. International Journal of Nanomedicine, 2011, 6, 3309.	3.3	21
5	Getting RNAi therapies to the brain. Nature Reviews Genetics, 2011, 12, 296-296.	7.7	4
6	Exosomal transmission of functional aquaporin 2 in kidney cortical collecting duct cells. Journal of Physiology, 2011, 589, 6119-6127.	1.3	123
7	SiRNA delivery with exosome nanoparticles. Nature Biotechnology, 2011, 29, 325-326.	9.4	299
8	Gesicles: Microvesicle â€œCookiesâ€•for Transient Information Transfer Between Cells. Molecular Therapy, 2011, 19, 1574-1576.	3.7	42
9	Intranasal Exosomes for Treatment of Neuroinflammation?: Prospects and Limitations. Molecular Therapy, 2011, 19, 1754-1756.	3.7	15
10	Epigenetic treatment of neurological disease. Epigenomics, 2011, 3, 431-450.	1.0	43
11	Brain Tumor Microvesicles: Insights into Intercellular Communication in the Nervous System. Cellular and Molecular Neurobiology, 2011, 31, 949-959.	1.7	93
12	The miRNA pathway in neurological and skeletal muscle disease: implications for pathogenesis and therapy. Journal of Molecular Medicine, 2011, 89, 1065-1077.	1.7	21
13	Membrane vesicles, current state-of-the-art: emerging role of extracellular vesicles. Cellular and Molecular Life Sciences, 2011, 68, 2667-2688.	2.4	1,719
14	Exosome nanotechnology: An emerging paradigm shift in drug delivery. BioEssays, 2011, 33, 737-741.	1.2	252
15	Exosomes and the bloodâ€“brain barrier: implications for neurological diseases. Therapeutic Delivery, 2011, 2, 1095-1099.	1.2	129
16	Microvesicles and Viral Infection. Journal of Virology, 2011, 85, 12844-12854.	1.5	349
17	Exosomes: Vehicles for the Transfer of Toxic Proteins Associated with Neurodegenerative Diseases?. Frontiers in Physiology, 2012, 3, 124.	1.3	339
18	Vesiclepedia: A Compendium for Extracellular Vesicles with Continuous Community Annotation. PLoS Biology, 2012, 10, e1001450.	2.6	1,064

#	Article	IF	Citations
19	Oncogenic extracellular vesicles in brain tumor progression. Frontiers in Physiology, 2012, 3, 294.	1.3	95
20	Mesenchymal stem cell secreted vesicles provide novel opportunities in (stem) cell-free therapy. Frontiers in Physiology, 2012, 3, 359.	1.3	437
21	Transfer of Vesicles From Schwann Cells to Axons: a Novel Mechanism of Communication in the Peripheral Nervous System. Frontiers in Physiology, 2012, 3, 205.	1.3	75
22	Alternative Methods for Characterization of Extracellular Vesicles. Frontiers in Physiology, 2012, 3, 354.	1.3	123
23	Extracellular small RNAs: what, where, why?. Biochemical Society Transactions, 2012, 40, 886-890.	1.6	77
24	Exosomal secretion of death bullets: a new way of apoptotic escape?. American Journal of Physiology - Endocrinology and Metabolism, 2012, 303, E1015-E1024.	1.8	12
25	Extracellular Membrane Vesicles and Immune Regulation in the Brain. Frontiers in Physiology, 2012, 3, 117.	1.3	45
26	Role of Exosomes/Microvesicles in the Nervous System and Use in Emerging Therapies. Frontiers in Physiology, 2012, 3, 228.	1.3	254
27	RNA therapy for polyglutamine neurodegenerative diseases. Expert Reviews in Molecular Medicine, 2012, 14, e3.	1.6	13
28	ENDOCYTOSIS PATHWAYS FOR NUCLEIC ACID THERAPEUTICS. Nano LIFE, 2012, 02, 1241005.	0.6	8
29	Cardiac Regeneration: Stem Cells and Beyond. Current Medicinal Chemistry, 2012, 19, 5993-6002.	1.2	5
30	Plasma exosomes can deliver exogenous short interfering RNA to monocytes and lymphocytes. Nucleic Acids Research, 2012, 40, e130-e130.	6.5	589
31	Natural Antisense Makes Sense for Gene-specific Activation in Brain. Molecular Therapy - Nucleic Acids, 2012, 1, e24.	2.3	3
32	Peptide-mediated Cell and In Vivo Delivery of Antisense Oligonucleotides and siRNA. Molecular Therapy - Nucleic Acids, 2012, 1, e27.	2.3	91
33	A novel neuroprotective therapy for Parkinsonâ€™s disease using a viral noncoding RNA that protects mitochondrial Complex I activity. Journal of Experimental Medicine, 2012, 209, 1-10.	4.2	105
34	siRNA-mediated suppression of Japanese encephalitis virus replication in cultured cells and mice. Journal of Antimicrobial Chemotherapy, 2012, 67, 444-451.	1.3	17
35	Sphingolipid-modulated Exosome Secretion Promotes Clearance of Amyloid-Î² by Microglia. Journal of Biological Chemistry, 2012, 287, 10977-10989.	1.6	473
36	Proteolytic Potential of the MSC Exosome Proteome: Implications for an Exosome-Mediated Delivery of Therapeutic Proteasome. International Journal of Proteomics, 2012, 2012, 1-14.	2.0	394

#	Article	IF	Citations
37	Emerging RNA-based Drugs: siRNAs, microRNAs and Derivates. Central Nervous System Agents in Medicinal Chemistry, 2012, 12, 217-232.	0.5	11
38	Nanotechnology Based Diagnostic and Therapeutic Strategies for Neuroscience with Special Emphasis on Ischemic Stroke. Current Medicinal Chemistry, 2012, 19, 744-756.	1.2	29
39	Current Advances in Vehicles for Brain Gene Delivery. Current Gene Therapy, 2012, 12, 423-436.	0.9	11
40	Exosomal miRNAs: Biological Properties and Therapeutic Potential. Frontiers in Genetics, 2012, 3, 56.	1.1	316
41	Characterization of mRNA and microRNA in human mast cellâ€derived exosomes and their transfer to other mast cells and blood CD34 progenitor cells. Journal of Extracellular Vesicles, 2012, 1, .	5.5	166
42	ExoCarta as a resource for exosomal research. Journal of Extracellular Vesicles, 2012, 1, .	5.5	314
43	- Nanomaterials for Cartilage Regeneration. , 2012, , 418-435.		0
44	Expression and role of the inhibitor of apoptosis protein livin in chemotherapy sensitivity of ovarian carcinoma. International Journal of Oncology, 2012, 41, 1021-1028.	1.4	10
45	Nanotechnology for DNA and RNA delivery. , 2012, , 302-325.		1
46	Exosome-mediated delivery of siRNA in vitro and in vivo. Nature Protocols, 2012, 7, 2112-2126.	5.5	484
47	Targeting intracellular and extracellular alpha-synuclein as a therapeutic strategy in Parkinson's disease and other synucleinopathies. Expert Opinion on Therapeutic Targets, 2012, 16, 421-432.	1.5	58
48	MicroRNAs and autoimmunity. Current Opinion in Immunology, 2012, 24, 686-691.	2.4	75
49	RNAi-based therapies for Huntingtonâ€™s disease: delivery challenges and opportunities. Therapeutic Delivery, 2012, 3, 1061-1076.	1.2	8
50	Single-Step Assembly of Cationic Lipidâ€“Polymer Hybrid Nanoparticles for Systemic Delivery of siRNA. ACS Nano, 2012, 6, 4955-4965.	7.3	134
51	A rapid, targeted, neuron-selective, in vivo knockdown following a single intracerebroventricular injection of a novel chemically modified siRNA in the adult rat brain. Journal of Biotechnology, 2012, 157, 326-333.	1.9	53
52	Analysis of urinary microRNAs in chronic kidney disease. Biochemical Society Transactions, 2012, 40, 875-879.	1.6	38
53	MicroRNAs in neuronal function and dysfunction. Trends in Neurosciences, 2012, 35, 325-334.	4.2	368
54	Lipid-anchored drugs for delivery into subcellular compartments. Trends in Pharmacological Sciences, 2012, 33, 215-222.	4.0	21

#	Article	IF	Citations
55	Exosomes and microvesicles: extracellular vesicles for genetic information transfer and gene therapy. Human Molecular Genetics, 2012, 21, R125-R134.	1.4	775
56	Exosome mimetics: a novel class of drug delivery systems. International Journal of Nanomedicine, 2012, 7, 1525.	3.3	322
57	Nanobiotechnology-based strategies for crossing the bloodâ€“brain barrier. Nanomedicine, 2012, 7, 1225-1233.	1.7	194
58	Exosomes: Current knowledge of their composition, biological functions, and diagnostic and therapeutic potentials. Biochimica Et Biophysica Acta - General Subjects, 2012, 1820, 940-948.	1.1	1,600
59	Can gap junctions deliver?. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 2076-2081.	1.4	59
60	Exosomes: Small vesicles participating in intercellular communication. International Journal of Biochemistry and Cell Biology, 2012, 44, 11-15.	1.2	434
61	Exosomes: New players in cellâ€“cell communication. International Journal of Biochemistry and Cell Biology, 2012, 44, 2060-2064.	1.2	399
62	Peptide-Based In Vivo Delivery Agents for Oligonucleotides and siRNA. Nucleic Acid Therapeutics, 2012, 22, 71-76.	2.0	9
63	Comparison of ultracentrifugation, density gradient separation, and immunoaffinity capture methods for isolating human colon cancer cell line LIM1863-derived exosomes. Methods, 2012, 56, 293-304.	1.9	943
64	miRNAs and neural stem cells: A team to treat Parkinson's disease?. RNA Biology, 2012, 9, 720-730.	1.5	15
65	Efficient systemic delivery of siRNA by using high-density lipoprotein-mimicking peptide lipid nanoparticles. Nanomedicine, 2012, 7, 1813-1825.	1.7	38
66	Exosomal RNA as biomarkers and the therapeutic potential of exosome vectors. Expert Opinion on Biological Therapy, 2012, 12, S189-S197.	1.4	108
67	Macro view of microRNA function in osteoarthritis. Nature Reviews Rheumatology, 2012, 8, 543-552.	3.5	199
68	The Role of DNA Methylation in Aging, Rejuvenation, and Age-Related Disease. Rejuvenation Research, 2012, 15, 483-494.	0.9	307
69	Brain-targeting gene delivery using a rabies virus glycoprotein peptide modulated hollow liposome: bio-behavioral study. Journal of Materials Chemistry, 2012, 22, 11808.	6.7	36
70	Nanomedicine boosts neurogenesis: new strategies for brain repair. Integrative Biology (United) Tj ETQq1 1 0.784314 rgBT /Overlock	0.6	26
71	Cell-Specific siRNA Delivery by Peptides and Antibodies. Methods in Enzymology, 2012, 502, 91-122.	0.4	15
72	Microvesicle-associated AAV Vector as a Novel Gene Delivery System. Molecular Therapy, 2012, 20, 960-971.	3.7	236

#	Article	IF	Citations
74	Selective extracellular vesicle-mediated export of an overlapping set of microRNAs from multiple cell types. BMC Genomics, 2012, 13, 357.	1.2	445
75	In vivo Site-Specific Transfection of Naked Plasmid DNA and siRNAs in Mice by Using a Tissue Suction Device. PLoS ONE, 2012, 7, e41319.	1.1	26
76	Docetaxel-Resistance in Prostate Cancer: Evaluating Associated Phenotypic Changes and Potential for Resistance Transfer via Exosomes. PLoS ONE, 2012, 7, e50999.	1.1	367
77	International Society for Extracellular Vesicles: first annual meeting, April 17â€“21, 2012: ISEV-2012. Journal of Extracellular Vesicles, 2012, 1, 19995.	5.5	22
78	Identification and proteomic profiling of exosomes in human cerebrospinal fluid. Journal of Translational Medicine, 2012, 10, 5.	1.8	390
79	A systematic approach to exosomeâ€based translational nanomedicine. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2012, 4, 458-467.	3.3	81
80	Horizontal transfer of RNAs: exosomes as mediators of intercellular communication. Wiley Interdisciplinary Reviews RNA, 2012, 3, 286-293.	3.2	149
81	Peptide Vectors for the Nonviral Delivery of Nucleic Acids. Accounts of Chemical Research, 2012, 45, 1048-1056.	7.6	178
82	Intercellular communication: diverse structures for exchange of genetic information. Nature Reviews Molecular Cell Biology, 2012, 13, 328-335.	16.1	551
83	Imaging of Cells and Nanoparticles: Implications for Drug Delivery to the Brain. Pharmaceutical Research, 2012, 29, 3213-3234.	1.7	18
84	miR-1289 and â€œZipcodeâ€•like Sequence Enrich mRNAs in Microvesicles. Molecular Therapy - Nucleic Acids, 2012, 1, e10.	2.3	235
85	Revisiting lab-on-a-chip technology for drug discovery. Nature Reviews Drug Discovery, 2012, 11, 620-632.	21.5	422
86	Designer DNA give RNAi more spine. Nature Nanotechnology, 2012, 7, 344-346.	15.6	10
87	Progress Toward In Vivo Use of siRNAs-II. Molecular Therapy, 2012, 20, 483-512.	3.7	210
88	Microvesicles in Health and Disease. Archivum Immunologiae Et Therapiae Experimentalis, 2012, 60, 107-121.	1.0	59
89	Classification, Functions, and Clinical Relevance of Extracellular Vesicles. Pharmacological Reviews, 2012, 64, 676-705.	7.1	1,429
90	Treating metastatic cancer with nanotechnology. Nature Reviews Cancer, 2012, 12, 39-50.	12.8	1,023
91	Targeting microRNAs in neurons: Tools and perspectives. Experimental Neurology, 2012, 235, 419-426.	2.0	22

#	Article	IF	Citations
92	Advances in microRNA experimental approaches to study physiological regulation of gene products implicated in CNS disorders. Experimental Neurology, 2012, 235, 402-418.	2.0	36
93	Is there a clinical future for polymeric nanoparticles as brain-targeting drug delivery agents?. Drug Discovery Today, 2012, 17, 367-378.	3.2	87
94	The multifaceted exosome: Biogenesis, role in normal and aberrant cellular function, and frontiers for pharmacological and biomarker opportunities. Biochemical Pharmacology, 2012, 83, 1484-1494.	2.0	424
95	Binary and ternary complexes based on polycaprolactone-graft-poly (N, N-dimethylaminoethyl) Tj ETQq1 1 0.784314 rgBT /Overlock 1	5.7	48
96	Nanoparticle tracking analysis monitors microvesicle and exosome secretion from immune cells. Immunology, 2012, 136, 192-197.	2.0	251
97	Microvesicles as Novel Biomarkers and Therapeutic Targets in Transplantation Medicine. American Journal of Transplantation, 2012, 12, 289-297.	2.6	58
98	MicroRNAs in neurodegenerative diseases and their therapeutic potential. , 2012, 133, 142-150.		186
99	Non-viral gene therapy for neurological diseases, with an emphasis on targeted gene delivery. Journal of Controlled Release, 2012, 157, 183-189.	4.8	65
100	Peptides in cancer nanomedicine: Drug carriers, targeting ligands and protease substrates. Journal of Controlled Release, 2012, 159, 2-13.	4.8	211
101	Microvesicles and exosomes: Opportunities for cell-derived membrane vesicles in drug delivery. Journal of Controlled Release, 2012, 161, 635-644.	4.8	347
102	Nonâ€viral retinal gene therapy: a review. Clinical and Experimental Ophthalmology, 2012, 40, 39-47.	1.3	35
103	Nonviral delivery systems for small interfering RNAs. Molecular Biology, 2012, 46, 349-361.	0.4	4
104	Horizontal transfer of microRNAs: molecular mechanisms and clinical applications. Protein and Cell, 2012, 3, 28-37.	4.8	223
105	Method for isolation and molecular characterization of extracellular microvesicles released from brain endothelial cells. Fluids and Barriers of the CNS, 2013, 10, 4.	2.4	170
106	Mesenchymal stem cell-derived secretome and microvesicles as a cell-free therapeutics for neurodegenerative disorders. Tissue Engineering and Regenerative Medicine, 2013, 10, 93-101.	1.6	89
107	In Vitro Investigations of the Efficacy of Cyclodextrin-siRNA Complexes Modified with Lipid-PEG-Octaarginine: Towards a Formulation Strategy for Non-viral Neuronal siRNA Delivery. Pharmaceutical Research, 2013, 30, 1086-1098.	1.7	36
108	FedExosomes: Engineering Therapeutic Biological Nanoparticles that Truly Deliver. Pharmaceuticals, 2013, 6, 659-680.	1.7	176
109	Small RNA drugs for prion disease: a new frontier. Expert Opinion on Drug Discovery, 2013, 8, 1265-1284.	2.5	7

#	Article	IF	Citations
110	Long Non-coding RNAs: Novel Targets for Nervous System Disease Diagnosis and Therapy. Neurotherapeutics, 2013, 10, 632-646.	2.1	108
111	Exosomes: vesicular carriers for intercellular communication in neurodegenerative disorders. Cell and Tissue Research, 2013, 352, 33-47.	1.5	253
112	Choroid plexus transcytosis and exosome shuttling deliver folate into brain parenchyma. Nature Communications, 2013, 4, 2123.	5.8	256
113	BACE1 as a Therapeutic Target in Alzheimerâ€™s Disease: Rationale and Current Status. Drugs and Aging, 2013, 30, 755-764.	1.3	46
114	Bioinspired Exosome-Mimetic Nanovesicles for Targeted Delivery of Chemotherapeutics to Malignant Tumors. ACS Nano, 2013, 7, 7698-7710.	7.3	768
115	Cancer stem cell contribution to glioblastoma invasiveness. Stem Cell Research and Therapy, 2013, 4, 18.	2.4	100
116	The development of APE-PCR for the cloning of genomic insertion sites of DNA elements. Biologia (Poland), 2013, 68, 766-772.	0.8	4
117	Monitoring the Rab27 associated exosome pathway using nanoparticle tracking analysis. Experimental Cell Research, 2013, 319, 1706-1713.	1.2	66
118	The glia doctrine: Addressing the role of glial cells in healthy brain ageing. Mechanisms of Ageing and Development, 2013, 134, 449-459.	2.2	28
119	Liposome-like nanostructures for drug delivery. Journal of Materials Chemistry B, 2013, 1, 6569.	2.9	173
120	Stem Cell Released Molecules and Exosomes in Tissue Engineering. Procedia Engineering, 2013, 59, 270-278.	1.2	13
121	Epigenetic drugs in Alzheimerâ€™s disease. Biomolecular Concepts, 2013, 4, 433-445.	1.0	30
122	Exosome release from infected dendritic cells: A clue for a fast spread of prions in the periphery?. Journal of Infection, 2013, 67, 359-368.	1.7	23
123	Human adipose tissue-derived mesenchymal stem cells secrete functional neprilysin-bound exosomes. Scientific Reports, 2013, 3, 1197.	1.6	424
124	Comparative proteomics evaluation of plasma exosome isolation techniques and assessment of the stability of exosomes in normal human blood plasma. Proteomics, 2013, 13, 3354-3364.	1.3	501
125	Tumorâ€“Stroma Interaction: Revealing Fibroblast-Secreted Exosomes as Potent Regulators of Wnt-Planar Cell Polarity Signaling in Cancer Metastasis. Cancer Research, 2013, 73, 6843-6847.	0.4	151
126	Sumoylated hnRNPA2B1 controls the sorting of miRNAs into exosomes through binding to specific motifs. Nature Communications, 2013, 4, 2980.	5.8	1,522
127	Microvesicle-delivery miR-150 promotes tumorigenesis by up-regulating VEGF, and the neutralization of miR-150 attenuate tumor development. Protein and Cell, 2013, 4, 932-941.	4.8	110

#	Article	IF	Citations
128	Nanomedicine metaphors: From war to care. Emergence of an oecological approach. Nano Today, 2013, 8, 560-565.	6.2	17
129	Urinary exosomes: A reservoir for biomarker discovery and potential mediators of intrarenal signalling. Proteomics, 2013, 13, 1572-1580.	1.3	150
130	RNA silencing of genes involved in Alzheimer's disease enhances mitochondrial function and synaptic activity. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2013, 1832, 2368-2378.	1.8	32
131	<scp>RNA</scp>iâ€mediated <scp>MMP</scp>â€9 silencing inhibits mouse melanoma cell invasion and migration in vitro and in vivo. Cell Biology International, 2013, 37, 849-854.	1.4	20
132	Synthesis and delivery of short, noncoding RNA by B lymphocytes. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20182-20187.	3.3	24
133	Synthetic nucleic acids delivered by exosomes: a potential therapeutic for generelated metabolic brain diseases. Metabolic Brain Disease, 2013, 28, 551-562.	1.4	25
134	Systemic Administration of Exosomes Released from Mesenchymal Stromal Cells Promote Functional Recovery and Neurovascular Plasticity After Stroke in Rats. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 1711-1715.	2.4	782
135	Therapeutic Application of MicroRNAs in Cancer. Advances in Delivery Science and Technology, 2013, , 299-314.	0.4	2
136	Exosomes for targeted siRNA delivery across biological barriers. Advanced Drug Delivery Reviews, 2013, 65, 391-397.	6.6	430
137	Exosomes function in cellâ€“cell communication during brain circuit development. Current Opinion in Neurobiology, 2013, 23, 997-1004.	2.0	84
138	Applying horizontal gene transfer phenomena to enhance non-viral gene therapy. Journal of Controlled Release, 2013, 172, 246-257.	4.8	6
139	Electroporation-induced siRNA precipitation obscures the efficiency of siRNA loading into extracellular vesicles. Journal of Controlled Release, 2013, 172, 229-238.	4.8	457
140	Uncovering the secretes of mesenchymal stem cells. Biochimie, 2013, 95, 2212-2221.	1.3	154
141	Quantification of nanosized extracellular membrane vesicles with scanning ion occlusion sensing. Nanomedicine, 2013, 8, 1443-1458.	1.7	102
142	Exosomes: the future of biomarkers in medicine. Biomarkers in Medicine, 2013, 7, 769-778.	0.6	342
143	Gateway to understanding microparticles: standardized isolation and identification of plasma membrane-derived vesicles. Nanomedicine, 2013, 8, 1657-1668.	1.7	44
144	Aging enhances release of exosomal cytokine mRNAs by AÎ² _{1â€42} â€stimulated macrophages. FASEB Journal, 2013, 27, 5141-5150.	0.2	60
145	Non-Viral Nanosystems for Gene and Small Interfering RNA Delivery to the Central Nervous System: Formulating the Solution. Journal of Pharmaceutical Sciences, 2013, 102, 3469-3484.	1.6	46

#	Article	IF	Citations
146	Biomaterial approaches to gene therapies for neurodegenerative disorders of the CNS. Biomaterials Science, 2013, 1, 556.	2.6	19
147	Vehicles for Small Interfering RNA transfection: Exosomes versus Synthetic Nanocarriers. DNA and RNA Nanotechnology, 2013, 1, .	0.7	7
148	The Role of Exosomal Shuttle RNA (esRNA) in Cell-to-Cell Communication. , 2013, , 33-45.		2
149	The Cell Biology of Exosomes: Historical and Perspectives. , 2013, , 1-32.		2
150	Peptide functionalized nanoparticles for nonviral gene delivery. Soft Matter, 2013, 9, 985-1004.	1.2	69
151	Exosomes as nano-theranostic delivery platforms for gene therapy. Advanced Drug Delivery Reviews, 2013, 65, 357-367.	6.6	196
152	Lost in translation. New unexplored avenues for neuropsychopharmacology: epigenetics and microRNAs. Expert Opinion on Investigational Drugs, 2013, 22, 217-233.	1.9	32
153	Short interfering RNA and the central nervous system: development of nonviral delivery systems. Expert Opinion on Drug Delivery, 2013, 10, 289-292.	2.4	6
154	Exosomes are endogenous nanoparticles that can deliver biological information between cells. Advanced Drug Delivery Reviews, 2013, 65, 342-347.	6.6	210
155	The effect of overexpression of Dlx2 on the migration, proliferation and osteogenic differentiation of cranial neural crest stem cells. Biomaterials, 2013, 34, 1898-1910.	5.7	21
156	Secretion of microvesicular miRNAs in cellular and organismal aging. Experimental Gerontology, 2013, 48, 626-633.	1.2	75
157	microRNAs and the regulation of neuronal plasticity under stress conditions. Neuroscience, 2013, 241, 188-205.	1.1	58
159	Non-coding RNAs in Alzheimer's Disease. Molecular Neurobiology, 2013, 47, 382-393.	1.9	156
160	Nucleic acids in exosomes: Disease markers and intercellular communication molecules. Biochemistry (Moscow), 2013, 78, 1-7.	0.7	75
161	A Fabricated siRNA Nanoparticle for Ultralong Gene Silencing In Vivo. Advanced Functional Materials, 2013, 23, 3488-3493.	7.8	21
162	Virus-modified exosomes for targeted RNA delivery; A new approach in nanomedicine. Advanced Drug Delivery Reviews, 2013, 65, 348-356.	6.6	114
163	Myocardial Gene Transfer: Routes and Devices for Regulation of Transgene Expression by Modulation of Cellular Permeability. Human Gene Therapy, 2013, 24, 375-392.	1.4	13
164	Exosomes and the kidney: Blaming the messenger. Nephrology, 2013, 18, 1-10.	0.7	68

#	Article	IF	Citations
165	Synergy of Homocysteine, MicroRNA, and Epigenetics: A Novel Therapeutic Approach for Stroke. Molecular Neurobiology, 2013, 48, 157-168.	1.9	59
166	Advances with RNA interference in Alzheimer’s disease research. Drug Design, Development and Therapy, 2013, 7, 117.	2.0	20
167	Exosomes as Intercellular Signaling Organelles Involved in Health and Disease: Basic Science and Clinical Applications. International Journal of Molecular Sciences, 2013, 14, 5338-5366.	1.8	328
168	Mesenchymal stem cell exosome ameliorates reperfusion injury through proteomic complementation. Regenerative Medicine, 2013, 8, 197-209.	0.8	111
169	Exosomes for drug delivery â€" a novel application for the mesenchymal stem cell. Biotechnology Advances, 2013, 31, 543-551.	6.0	431
170	Microvesiculation and Disease. Biochemical Society Transactions, 2013, 41, 237-240.	1.6	10
171	Exosomes: Looking back three decades and into the future. Journal of Cell Biology, 2013, 200, 367-371.	2.3	379
172	RNA Interference Pathways and Therapeutic Exploitation. Advances in Delivery Science and Technology, 2013, , 1-29.	0.4	0
173	The therapeutic potential of mesenchymal stem cellâ€derived extracellular vesicles. Proteomics, 2013, 13, 1637-1653.	1.3	332
174	Multifaceted applications of nanomaterials in cell engineering and therapy. Biotechnology Advances, 2013, 31, 638-653.	6.0	22
175	Biogenesis of extracellular vesicles (EV): exosomes, microvesicles, retrovirus-like vesicles, and apoptotic bodies. Journal of Neuro-Oncology, 2013, 113, 1-11.	1.4	1,054
176	Exosomes as nucleic acid nanocarriers. Advanced Drug Delivery Reviews, 2013, 65, 331-335.	6.6	206
177	The role of exosomes and microRNAs in senescence and aging. Advanced Drug Delivery Reviews, 2013, 65, 368-375.	6.6	122
178	How cationic lipids transfer nucleic acids into cells and across cellular membranes: Recent advances. Journal of Controlled Release, 2013, 166, 46-56.	4.8	168
179	Extracellular vesicles: biology and emerging therapeutic opportunities. Nature Reviews Drug Discovery, 2013, 12, 347-357.	21.5	2,563
180	Extracellular vesicles as prospective carriers of oncogenic protein signatures in adult and paediatric brain tumours. Proteomics, 2013, 13, 1595-1607.	1.3	26
181	The emerging roles of microRNAs in CNS injuries. Nature Reviews Neurology, 2013, 9, 328-339.	4.9	239
182	Visualization and in vivo tracking of the exosomes of murine melanoma B16-BL6 cells in mice after intravenous injection. Journal of Biotechnology, 2013, 165, 77-84.	1.9	568

#	Article	IF	Citations
183	Exosomal tumor-suppressive microRNAs as novel cancer therapy. Advanced Drug Delivery Reviews, 2013, 65, 376-382.	6.6	72
184	Parkinsonâ€™s disease: an update on pathogenesis and treatment. Journal of Neurology, 2013, 260, 1433-1440.	1.8	29
186	The Design, Selection, and Evaluation of Highly Specific and Functional siRNA Incorporating Unlocked Nucleobase Analogs. Methods in Molecular Biology, 2013, 942, 111-134.	0.4	0
187	The cardiovascular exosome: Current perspectives and potential. Proteomics, 2013, 13, 1654-1659.	1.3	43
188	Methods of Analysis of Dendritic Cell-Derived Exosome-Shuttle MicroRNA and Its Horizontal Propagation Between Dendritic Cells. Methods in Molecular Biology, 2013, 1024, 19-40.	0.4	26
189	Epigenetic mechanisms in Alzheimer's disease: Implications for pathogenesis and therapy. Ageing Research Reviews, 2013, 12, 1024-1041.	5.0	110
190	Magnetic and Photoresponsive Theranosomes: Translating Cell-Released Vesicles into Smart Nanovectors for Cancer Therapy. ACS Nano, 2013, 7, 4954-4966.	7.3	105
191	Trojan horse at cellular level for tumor gene therapies. Gene, 2013, 525, 208-216.	1.0	40
192	Supramolecular Selfâ€Assembled Nanoparticles Mediate Oral Delivery of Therapeutic TNFâ€Î± siRNA against Systemic Inflammation. Angewandte Chemie - International Edition, 2013, 52, 5757-5761.	7.2	84
193	Delivery of therapeutic agents by nanoparticles made of grapefruit-derived lipids. Nature Communications, 2013, 4, 1867.	5.8	271
194	Genetic mouse models to study bloodâ€“brain barrier development and function. Fluids and Barriers of the CNS, 2013, 10, 3.	2.4	28
195	Alternative splicing of intrinsically disordered regions and rewiring of protein interactions. Current Opinion in Structural Biology, 2013, 23, 443-450.	2.6	166
196	Exosomes in cancer development, metastasis, and drug resistance: a comprehensive review. Cancer and Metastasis Reviews, 2013, 32, 623-642.	2.7	948
197	Diseases originate and terminate by genes: unraveling nonviral gene delivery. Drug Delivery and Translational Research, 2013, 3, 593-610.	3.0	17
198	The stem cell secretome and its role in brain repair. Biochimie, 2013, 95, 2271-2285.	1.3	294
199	Current Progress for the Use of miRNAs in Glioblastoma Treatment. Molecular Neurobiology, 2013, 48, 757-768.	1.9	38
200	Mesenchymal stem cell: An efficient mass producer of exosomes for drug delivery. Advanced Drug Delivery Reviews, 2013, 65, 336-341.	6.6	660
201	Nuclease-Resistant DNA via High-Density Packing in Polymeric Micellar Nanoparticle Coronas. ACS Nano, 2013, 7, 1379-1387.	7.3	88

#	Article	IF	Citations
202	Inspired by nature: fundamentals in nanotechnology design to overcome biological barriers. Therapeutic Delivery, 2013, 4, 27-43.	1.2	19
203	Ciliated micropillars for the microfluidic-based isolation of nanoscale lipid vesicles. Lab on A Chip, 2013, 13, 2879.	3.1	299
204	G-protein-coupled receptor regulation ofde novopurine biosynthesis: a novel druggable mechanism. Biotechnology and Genetic Engineering Reviews, 2013, 29, 31-48.	2.4	15
205	Surface-Modified HK:siRNA Nanoplexes with Enhanced Pharmacokinetics and Tumor Growth Inhibition. Biomacromolecules, 2013, 14, 752-760.	2.6	28
206	Exosomes are natural carriers of exogenous siRNA to human cells in vitro. Cell Communication and Signaling, 2013, 11, 88.	2.7	397
207	Molecular mechanisms of ETS transcription factor-mediated tumorigenesis. Critical Reviews in Biochemistry and Molecular Biology, 2013, 48, 522-543.	2.3	113
208	Systemically Injected Exosomes Targeted to EGFR Deliver Antitumor MicroRNA to Breast Cancer Cells. Molecular Therapy, 2013, 21, 185-191.	3.7	1,314
209	Is Amyloid Binding Alcohol Dehydrogenase a Drug Target for Treating Alzheimer's Disease?. Current Alzheimer Research, 2013, 10, 21-29.	0.7	3
210	Extracellular microRNAs are dynamic non-vesicular biomarkers of muscle turnover. Nucleic Acids Research, 2013, 41, 9500-9513.	6.5	83
211	The involvement of microRNAs in neurodegenerative diseases. Frontiers in Cellular Neuroscience, 2013, 7, 265.	1.8	209
212	Neurotransmitter-Triggered Transfer of Exosomes Mediates Oligodendrocyteâ€“Neuron Communication. PLoS Biology, 2013, 11, e1001604.	2.6	663
213	MicroRNAs in the pathophysiology and treatment of status epilepticus. Frontiers in Molecular Neuroscience, 2013, 6, 37.	1.4	55
214	Circulating miRNA Biomarkers for Alzheimer's Disease. PLoS ONE, 2013, 8, e69807.	1.1	295
215	Emerging Concepts of Tumor Exosomeâ€“Mediated Cell-Cell Communication. , 2013, , .		7
216	Exosomes: the ideal nanovectors for biodelivery. Biological Chemistry, 2013, 394, 1-15.	1.2	79
217	Update on current and potential nanoparticle cancer therapies. Current Opinion in Oncology, 2013, 25, 646-651.	1.1	41
218	Exosomes Derived from HIV-1-infected Cells Contain Trans-activation Response Element RNA. Journal of Biological Chemistry, 2013, 288, 20014-20033.	1.6	239
219	Genetically Engineered Microvesicles Carrying Suicide mRNA/Protein Inhibit Schwannoma Tumor Growth. Molecular Therapy, 2013, 21, 101-108.	3.7	282

#	Article	IF	Citations
220	Clinical implications of microRNAs in human glioblastoma. Frontiers in Oncology, 2013, 3, 19.	1.3	48
221	Non-Coding RNAs as Potential Neuroprotectants against Ischemic Brain Injury. Brain Sciences, 2013, 3, 360-395.	1.1	37
222	Glioma microvesicles carry selectively packaged coding and non-coding RNAs which alter gene expression in recipient cells. RNA Biology, 2013, 10, 1333-1344.	1.5	210
223	MICAVariant Promotes Allosensitization after Kidney Transplantation. Journal of the American Society of Nephrology: JASN, 2013, 24, 954-966.	3.0	32
224	How can nanotechnology help membrane vesicle-based cancer immunotherapy development?. Human Vaccines and Immunotherapeutics, 2013, 9, 222-225.	1.4	22
225	Which drug or drug delivery system can change clinical practice for brain tumor therapy?. Neuro-Oncology, 2013, 15, 656-669.	0.6	35
226	Therapeutic uses of exosomes. Exosomes and Microvesicles, 2013, , 1.	1.9	12
228	Neuro-oncologic Applications of Exosomes, Microvesicles, and Other Nano-Sized Extracellular Particles. Neurosurgery, 2013, 72, 501-510.	0.6	35
229	Cardiovascular extracellular microRNAs: emerging diagnostic markers and mechanisms of cell-to-cell RNA communication. Frontiers in Genetics, 2013, 4, 214.	1.1	48
230	Therapeutic targeting of non-coding RNAs. Essays in Biochemistry, 2013, 54, 127-145.	2.1	51
231	How pure are your vesicles?. Journal of Extracellular Vesicles, 2013, 2, .	5.5	547
232	Exosomes: mediators of communication in eukaryotes. Biological Research, 2013, 46, 5-11.	1.5	86
233	BACE1: Expression, Regulation, and Therapeutic Potential of the Major Alzheimerâ€™s Disease Beta-Secretase. Current Enzyme Inhibition, 2013, 9, 3-14.	0.3	2
234	Perspectives on the Potential Therapeutic Uses of Vesicles. Exosomes and Microvesicles, 2013, 1, 1.	1.9	20
235	Cell-Penetrating Peptide-Mediated Therapeutic Molecule Delivery into the Central Nervous System. Current Neuropharmacology, 2013, 11, 197-208.	1.4	136
236	Specific Transfection of Inflamed Brain by Macrophages: A New Therapeutic Strategy for Neurodegenerative Diseases. PLoS ONE, 2013, 8, e61852.	1.1	124
237	Urinary Exosomal MicroRNAs in Incipient Diabetic Nephropathy. PLoS ONE, 2013, 8, e73798.	1.1	269
238	Characterization of Human Thymic Exosomes. PLoS ONE, 2013, 8, e67554.	1.1	71

#	Article	IF	Citations
239	Extracellular Vesicles â€“ Biomarkers and Effectors of the Cellular Interactome in Cancer. Frontiers in Pharmacology, 2013, 4, 21.	1.6	161
240	Extracellular microvesicles from astrocytes contain functional glutamate transporters: regulation by protein kinase C and cell activation. Frontiers in Cellular Neuroscience, 2013, 7, 251.	1.8	65
241	RISC in PD: the impact of microRNAs in Parkinson's disease cellular and molecular pathogenesis. Frontiers in Molecular Neuroscience, 2013, 6, 40.	1.4	68
242	Signaling Pathways in Exosomes Biogenesis, Secretion and Fate. Genes, 2013, 4, 152-170.	1.0	285
243	siRNA Treatment: â€œA Sword-in-the-Stoneâ€•for Acute Brain Injuries. Genes, 2013, 4, 435-456.	1.0	21
244	Cell-penetrating peptides from cell cultures to in vivo applications. Frontiers in Bioscience - Elite, 2013, E5, 509-516.	0.9	21
245	Intranasal, siRNA Delivery to the Brain by TAT/MGF Tagged PEGylated Chitosan Nanoparticles. Journal of Pharmaceutics, 2013, 2013, 1-10.	4.6	20
246	Extracellular vesicles: structure, function, and potential clinical uses in renal diseases. Brazilian Journal of Medical and Biological Research, 2013, 46, 824-830.	0.7	206
247	Vascular Endothelial Growth Factors Enhance the Permeability of the Mouse Blood-brain Barrier. PLoS ONE, 2014, 9, e86407.	1.1	77
248	Proteomic Analysis of Saliva in HIV-Positive Heroin Addicts Reveals Proteins Correlated with Cognition. PLoS ONE, 2014, 9, e89366.	1.1	23
249	In vitro evaluation of endothelial exosomes as carriers for small interfering ribonucleic acid delivery. International Journal of Nanomedicine, 2014, 9, 4223.	3.3	67
250	MicroRNAs transported by exosomes in body fluids as mediators of intercellular communication in cancer. OncoTargets and Therapy, 2014, 7, 1327.	1.0	125
251	Exosomes/miRNAs as mediating cell-based therapy of stroke. Frontiers in Cellular Neuroscience, 2014, 8, 377.	1.8	250
252	Gliomas and the vascular fragility of the blood brain barrier. Frontiers in Cellular Neuroscience, 2014, 8, 418.	1.8	226
253	Characteristics of Exosomes and Development of Exosome-based Diagnosis and Therapy. Oleoscience, 2014, 14, 291-298.	0.0	0
254	Nanopharmacology in translational hematology and oncology. International Journal of Nanomedicine, 2014, 9, 3465.	3.3	40
255	Characterization and Functional Modification of Extracellular Vesicles. Drug Delivery System, 2014, 29, 108-115.	0.0	2
256	In vivo fate of exogenously-administered exosomes. Drug Delivery System, 2014, 29, 116-124.	0.0	0

#	Article	IF	Citations
257	Peptide-mediated delivery: an overview of pathways for efficient internalization. Therapeutic Delivery, 2014, 5, 1203-1222.	1.2	17
258	Peripheral nervous system toxicity biomarkers. , 2014, , 169-198.		1
259	The Placenta as a Barrier to Viral Infections. Annual Review of Virology, 2014, 1, 133-146.	3.0	96
260	Exosomes Biogenesis and Potentials in Disease Diagnosis and Drug Delivery. Nano LIFE, 2014, 04, 1441017.	0.6	6
261	Exosome identification for personalized diagnosis and therapy. Biomedical Engineering Letters, 2014, 4, 258-268.	2.1	5
262	Tumor surveillance by circulating microRNAs: a hypothesis. Cellular and Molecular Life Sciences, 2014, 71, 4081-4087.	2.4	29
263	Design of nanocarriers for efficient cellular uptake and endosomal release of small molecule and nucleic acid drugs: learning from virus. Frontiers of Chemical Science and Engineering, 2014, 8, 387-404.	2.3	17
264	RNAi Therapies: Drugging the Undruggable. Science Translational Medicine, 2014, 6, 240ps7.	5.8	215
265	Oligonucleotide-based strategies to combat polyglutamine diseases. Nucleic Acids Research, 2014, 42, 6787-6810.	6.5	48
266	Antisense-mediated Exon Skipping Decreases Tau Protein Expression: A Potential Therapy For Tauopathies. Molecular Therapy - Nucleic Acids, 2014, 3, e180.	2.3	54
267	miRNA-based therapies: strategies and delivery platforms for oligonucleotide and non-oligonucleotide agents. Future Medicinal Chemistry, 2014, 6, 1967-1984.	1.1	229
268	Pathogen-inspired drug delivery to the central nervous system. Tissue Barriers, 2014, 2, e944449.	1.6	18
269	Myotube-derived exosomal miRNAs downregulate Sirtuin1 in myoblasts during muscle cell differentiation. Cell Cycle, 2014, 13, 78-89.	1.3	164
270	Noncoding RNAs regulate NF-ÃŽÂºB signaling to modulate blood vessel inflammation. Frontiers in Genetics, 2014, 5, 422.	1.1	70
271	Extracellular Vesicles as Shuttles of Tumor Biomarkers and Anti-Tumor Drugs. Frontiers in Oncology, 2014, 4, 267.	1.3	85
272	BACE1 Inhibitors: Attractive Therapeutics for Alzheimerâ€™s Disease. , 2014, , 518-546.		0
273	Extracellular Vesicle-Mediated Transfer of Genetic Information between the Hematopoietic System and the Brain in Response to Inflammation. PLoS Biology, 2014, 12, e1001874.	2.6	312
274	Use of Genetically Modified Mesenchymal Stem Cells to Treat Neurodegenerative Diseases. International Journal of Molecular Sciences, 2014, 15, 1719-1745.	1.8	72

#	Article	IF	Citations
275	Extracellular vesicle protein levels are related to brain atrophy and cerebral white matter lesions in patients with manifest vascular disease: the SMART-MR study. BMJ Open, 2014, 4, e003824.	0.8	22
276	Targeted delivery of si<scp>RNA</scp> against hepatitis <scp>B</scp> virus by pre<scp>S1</scp> peptide molecular ligand. Hepatology Research, 2014, 44, 897-906.	1.8	11
277	Down-regulating Î±-synuclein for treating synucleopathies. Movement Disorders, 2014, 29, 1463-1465.	2.2	4
278	Systemic exosomal siRNA delivery reduced alpha-synuclein aggregates in brains of transgenic mice. Movement Disorders, 2014, 29, 1476-1485.	2.2	384
279	Evaluation of desialylation effect on zeta potential of extracellular vesicles secreted from human prostate cancer cells by on-chip microcapillary electrophoresis. Japanese Journal of Applied Physics, 2014, 53, 06JL01.	0.8	61
280	Extracellular Vesicles in Heart Disease: Excitement for the Future ?. Exosomes and Microvesicles, 2014, 2, 1.	1.9	38
281	New considerations in the preparation of nucleic acid-loaded extracellular vesicles. Therapeutic Delivery, 2014, 5, 105-107.	1.2	23
282	Exosomes provide a protective and enriched source of miRNA for biomarker profiling compared to intracellular and cellâ€free blood. Journal of Extracellular Vesicles, 2014, 3, .	5.5	642
283	Tumor-targeted in vivo gene silencing via systemic delivery of cRGD-conjugated siRNA. Nucleic Acids Research, 2014, 42, 11805-11817.	6.5	67
284	Exosome in Tumour Microenvironment: Overview of the Crosstalk between Normal and Cancer Cells. BioMed Research International, 2014, 2014, 1-10.	0.9	184
285	siRNA Delivery via Electropulsation: A Review of the Basic Processes. Methods in Molecular Biology, 2014, 1121, 81-98.	0.4	4
286	Extracellular Vesicles as Therapeutic Tools in Cardiovascular Diseases. Frontiers in Immunology, 2014, 5, 370.	2.2	104
287	Tolerance in Organ Transplantation: From Conventional Immunosuppression to Extracellular Vesicles. Frontiers in Immunology, 2014, 5, 416.	2.2	34
288	Exosomes: messengers and mediators of tumor–stromal interactions. Biopolymers and Cell, 2014, 30, 426-435.	0.1	1
289	Functions and Therapeutic Roles of Exosomes in Cancer. Frontiers in Oncology, 2014, 4, 127.	1.3	210
290	Effects of Mesenchymal Stromal Cell-Derived Extracellular Vesicles on Tumor Growth. Frontiers in Immunology, 2014, 5, 382.	2.2	55
291	Critical analysis of the use of β-site amyloid precursor protein-cleaving enzyme 1 inhibitors in the treatment of Alzheimer's disease. Degenerative Neurological and Neuromuscular Disease, 2014, 4, 1.	0.7	7
292	Human semen contains exosomes with potent anti-HIV-1 activity. Retrovirology, 2014, 11, 102.	0.9	121

#	Article	IF	Citations
293	Lessons from a BACE1 inhibitor trial: Offâ€site but not off base. Alzheimer's and Dementia, 2014, 10, S411-9.	0.4	69
294	Exosome-formed synthetic microRNA-143 is transferred to osteosarcoma cells and inhibits their migration. Biochemical and Biophysical Research Communications, 2014, 445, 381-387.	1.0	213
295	Adiponectin is partially associated with exosomes in mouse serum. Biochemical and Biophysical Research Communications, 2014, 448, 261-266.	1.0	76
296	Exosomes: A New Weapon to Treat the Central Nervous System. Molecular Neurobiology, 2014, 49, 113-119.	1.9	50
297	Exosomes: Mediators of Neurodegeneration, Neuroprotection and Therapeutics. Molecular Neurobiology, 2014, 49, 590-600.	1.9	281
298	MicroRNAs delivered by extracellular vesicles: an emerging resistance mechanism for breast cancer. Tumor Biology, 2014, 35, 2883-2892.	0.8	49
299	Nanoparticleâ€Enabled, Imageâ€Guided Treatment Planning of Target Specific RNAi Therapeutics in an Orthotopic Prostate Cancer Model. Small, 2014, 10, 3072-3082.	5.2	54
300	Emerging role of extracellular vesicles in inflammatory diseases. Nature Reviews Rheumatology, 2014, 10, 356-364.	3.5	563
301	Youth and environmental enrichment generate serum exosomes containing miRâ€219 that promote CNS myelination. Glia, 2014, 62, 284-299.	2.5	190
302	Exosomes and Cardiac Repair After Myocardial Infarction. Circulation Research, 2014, 114, 333-344.	2.0	427
303	Outsmart tumor exosomes to steal the cancer initiating cell its niche. Seminars in Cancer Biology, 2014, 28, 39-50.	4.3	55
304	Exosomes and their role in CNS viral infections. Journal of NeuroVirology, 2014, 20, 199-208.	1.0	79
305	A paradigm shift for extracellular vesicles as small RNA carriers: from cellular waste elimination to therapeutic applications. Drug Delivery and Translational Research, 2014, 4, 31-37.	3.0	39
306	The potential of exosomes in diagnosis and treatment of inborn errors of metabolism. Journal of Inherited Metabolic Disease, 2014, 37, 497-504.	1.7	2
307	Extracellular vesicles from blood plasma: determination of their morphology, size, phenotype and concentration. Journal of Thrombosis and Haemostasis, 2014, 12, 614-627.	1.9	577
308	Regulation of immune responses by extracellular vesicles. Nature Reviews Immunology, 2014, 14, 195-208.	10.6	1,749
309	Microvesicle-mediated delivery of transforming growth factor Î²1ÂsiRNA for the suppression of tumor growth in mice. Biomaterials, 2014, 35, 4390-4400.	5.7	97
310	Drug Delivery System. Methods in Molecular Biology, 2014, , .	0.4	13

#	Article	IF	Citations
311	Emerging concepts on the role of exosomes in lipid metabolic diseases. Biochimie, 2014, 96, 67-74.	1.3	62
312	Oligonucleotide-based therapy for neurodegenerative diseases. Brain Research, 2014, 1584, 116-128.	1.1	34
313	MiRNA in melanoma-derived exosomes. Cancer Letters, 2014, 347, 29-37.	3.2	94
314	From Gut to Brain: Bioencapsulated Therapeutic Protein Reduces Amyloid Load Upon Oral Delivery. Molecular Therapy, 2014, 22, 485-486.	3.7	13
315	Functional significance of macrophage-derived exosomes in inflammation and pain. Pain, 2014, 155, 1527-1539.	2.0	253
316	Novel therapeutic strategies for cardioprotection. , 2014, 144, 60-70.		64
317	Novel approaches to lupus drug discovery using stem cell therapy. Role of mesenchymal-stem-cell-secreted factors. Expert Opinion on Drug Discovery, 2014, 9, 555-566.	2.5	22
318	The role of extracellular vesicles in the progression of neurodegenerative disease and cancer. Trends in Molecular Medicine, 2014, 20, 368-374.	3.5	91
319	Exosome and microvesicle mediated phene transfer in mammalian cells. Seminars in Cancer Biology, 2014, 28, 31-38.	4.3	41
320	Antioxidant gene therapy against neuronal cell death. , 2014, 142, 206-230.		120
321	Exosomes as new vesicular lipid transporters involved in cellâ€“cell communication and various pathophysiologies. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2014, 1841, 108-120.	1.2	649
322	Exosomes. Circulation Research, 2014, 114, 325-332.	2.0	164
323	The roles of extracellular vesicles in cancer biology: Toward the development of novel cancer biomarkers. Proteomics, 2014, 14, 412-425.	1.3	134
324	Extracellular membrane vesicles as a mechanism of cell-to-cell communication: advantages and disadvantages. American Journal of Physiology - Cell Physiology, 2014, 306, C621-C633.	2.1	386
325	A doxorubicin delivery platform using engineered natural membrane vesicle exosomes for targeted tumor therapy. Biomaterials, 2014, 35, 2383-2390.	5.7	1,352
326	Physiological and pathological relevance of secretory microRNAs and a perspective on their clinical application. Biological Chemistry, 2014, 395, 365-373.	1.2	11
327	Biological nanoparticles and their influence on organisms. Current Opinion in Biotechnology, 2014, 28, 69-74.	3.3	86
328	Bioengineered Bacterial Outer Membrane Vesicles as Cell-Specific Drug-Delivery Vehicles for Cancer Therapy. ACS Nano, 2014, 8, 1525-1537.	7.3	373

#	Article	IF	Citations
329	Noninvasive In Vivo Monitoring of Extracellular Vesicles. Methods in Molecular Biology, 2014, 1098, 249-258.	0.4	39
330	Microvesicles as mediators of tissue regeneration. Translational Research, 2014, 163, 286-295.	2.2	73
331	Gene Therapy for the Nervous System: Challenges and New Strategies. Neurotherapeutics, 2014, 11, 817-839.	2.1	70
332	Unlocking the Door to New Therapies in Cardiovascular Disease: MicroRNAs Hold the Key. Current Cardiology Reports, 2014, 16, 539.	1.3	12
333	Targets for future clinical trials in Huntington's disease: What's in the pipeline?. Movement Disorders, 2014, 29, 1434-1445.	2.2	116
334	Huntingtinâ€lowering strategies in Huntington's disease: Antisense oligonucleotides, small RNAs, and gene editing. Movement Disorders, 2014, 29, 1455-1461.	2.2	67
335	Deregulated microRNA expression in biospecimens from patients diagnosed with schizophrenia and bipolar disorder as a disease biomarker. Translational Neuroscience, 2014, 5, .	0.7	1
336	A Myristoylated Cell-Penetrating Peptide Bearing a Transferrin Receptor-Targeting Sequence for Neuro-Targeted siRNA Delivery. Molecular Pharmaceutics, 2014, 11, 486-495.	2.3	66
337	RVG-Peptide-Linked Trimethylated Chitosan for Delivery of siRNA to the Brain. Biomacromolecules, 2014, 15, 1010-1018.	2.6	106
338	Discovery of siRNA Lipid Nanoparticles to Transfect Suspension Leukemia Cells and Provide In Vivo Delivery Capability. Molecular Therapy, 2014, 22, 359-370.	3.7	53
339	Untying a nanoscale knotted polymer structure to linear chains for efficient gene delivery in vitro and to the brain. Nanoscale, 2014, 6, 7526-7533.	2.8	28
340	Quantitative and stoichiometric analysis of the microRNA content of exosomes. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14888-14893.	3.3	880
341	MicroRNAs as modulators and biomarkers of inflammatory and neuropathic pain conditions. Neurobiology of Disease, 2014, 71, 159-168.	2.1	139
342	Spherical Nucleic Acids as a Divergent Platform for Synthesizing RNAâ€“Nanoparticle Conjugates through Enzymatic Ligation. ACS Nano, 2014, 8, 8837-8843.	7.3	27
344	The role of epigenetic-related codes in neurocomputation: dynamic hardware in the brain. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130519.	1.8	11
345	Dynamic Biodistribution of Extracellular Vesicles in Vivo Using a Multimodal Imaging Reporter. ACS Nano, 2014, 8, 483-494.	7.3	663
346	Production and characterization of a fusion peptide derived from the rabies virus glycoprotein (RVG29). Protein Expression and Purification, 2014, 104, 7-13.	0.6	10
347	Multifunctional, self-assembling anionic peptide-lipid nanocomplexes for targeted siRNA delivery. Biomaterials, 2014, 35, 8406-8415.	5.7	64

#	Article	IF	Citations
348	Exosomes participate in the alteration of muscle homeostasis during lipid-induced insulin resistance in mice. Diabetologia, 2014, 57, 2155-2164.	2.9	146
349	Overcoming the challenges in administering biopharmaceuticals: formulation and delivery strategies. Nature Reviews Drug Discovery, 2014, 13, 655-672.	21.5	1,261
350	Examination of the specificity of tumor cell derived exosomes with tumor cells in vitro. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 2954-2965.	1.4	143
351	Extracellular vesicles as drug delivery systems: Lessons from the liposome field. Journal of Controlled Release, 2014, 195, 72-85.	4.8	372
352	Large-scale generation of cell-derived nanovesicles. Nanoscale, 2014, 6, 12056-12064.	2.8	168
353	Decreased Amyloid-Î² Pathologies by Intracerebral Loading of Glycosphingolipid-enriched Exosomes in Alzheimer Model Mice. Journal of Biological Chemistry, 2014, 289, 24488-24498.	1.6	260
354	Bioengineered bacterial outer membrane vesicles: what is their potential in cancer therapy?. Nanomedicine, 2014, 9, 933-935.	1.7	24
355	LncRNA: A link between RNA and cancer. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2014, 1839, 1097-1109.	0.9	889
356	Surface Functionalization of Exosomes Using Click Chemistry. Bioconjugate Chemistry, 2014, 25, 1777-1784.	1.8	313
357	Biogenesis, Secretion, and Intercellular Interactions of Exosomes and Other Extracellular Vesicles. Annual Review of Cell and Developmental Biology, 2014, 30, 255-289.	4.0	4,576
358	The origin, function, and diagnostic potential of extracellular <scp>microRNAs</scp> in human body fluids. Wiley Interdisciplinary Reviews RNA, 2014, 5, 285-300.	3.2	68
359	Plasma exosomal Î±-synuclein is likely CNS-derived and increased in Parkinsonâ€™s disease. Acta Neuropathologica, 2014, 128, 639-650.	3.9	504
360	Exosome-mediated delivery of functionally active miRNA-155 inhibitor to macrophages. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 1517-1527.	1.7	242
361	Biology and proteomics of extracellular vesicles: harnessing their clinical potential. Expert Review of Proteomics, 2014, 11, 251-253.	1.3	21
362	Breakthrough discoveries in drug delivery technologies: The next 30 years. Journal of Controlled Release, 2014, 190, 9-14.	4.8	82
363	Which Drug or Drug Delivery Method Can Change Clinical Practice for Brain Tumor Therapy?. AAPS Advances in the Pharmaceutical Sciences Series, 2014, , 657-682.	0.2	0
364	A comprehensive overview of exosomes as drug delivery vehicles â€” Endogenous nanocarriers for targeted cancer therapy. Biochimica Et Biophysica Acta: Reviews on Cancer, 2014, 1846, 75-87.	3.3	430
365	Urinary Exosomes Join the Fight against Infection. Journal of the American Society of Nephrology: JASN, 2014, 25, 1889-1891.	3.0	3

#	Article	IF	Citations
366	MicroRNAs Expression and Function in Cerebral Ischemia Reperfusion Injury. Journal of Molecular Neuroscience, 2014, 53, 242-250.	1.1	105
367	MicroRNA Expression Signatures Determine Prognosis and Survival in Glioblastoma Multiformeâ€”a Systematic Overview. Molecular Neurobiology, 2014, 50, 896-913.	1.9	53
368	Exosomes as mediators of neuroinflammation. Journal of Neuroinflammation, 2014, 11, 68.	3.1	257
369	Epigenetic drug discovery for Alzheimerâ€™s disease. Expert Opinion on Drug Discovery, 2014, 9, 1059-1086.	2.5	61
370	Exosome Encased Spherical Nucleic Acid Gold Nanoparticle Conjugates as Potent MicroRNA Regulation Agents. Small, 2014, 10, 186-192.	5.2	86
371	Protein corona change the drug release profile of nanocarriers: The â€œoverlookedâ€•factor at the nanobio interface. Colloids and Surfaces B: Biointerfaces, 2014, 123, 143-149.	2.5	144
372	Extracellular vesicles as modulators of cell-to-cell communication in the healthy and diseased brain. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130516.	1.8	180
373	Lipid-based nanoparticles in the systemic delivery of siRNA. Nanomedicine, 2014, 9, 105-120.	1.7	111
374	Intercellular communication by exosomes in placenta: A possible role in cell fusion?. Placenta, 2014, 35, 297-302.	0.7	108
375	An apolipoprotein E modified liposomal nanoparticle: Ligand dependent efficiency as a siRNA delivery carrier for mouse-derived brain endothelial cells. International Journal of Pharmaceutics, 2014, 465, 77-82.	2.6	42
376	Core-Shell type lipid/rPAA-Chol polymer hybrid nanoparticles for inÂvivo siRNA delivery. Biomaterials, 2014, 35, 2066-2078.	5.7	94
377	Maximizing exosome colloidal stability following electroporation. Analytical Biochemistry, 2014, 448, 41-49.	1.1	231
378	Brain-specific knockdown of miR-29 results in neuronal cell death and ataxia in mice. Rna, 2014, 20, 1287-1297.	1.6	115
379	Slowing of neurodegeneration in Parkinson's disease and Huntington's disease: future therapeutic perspectives. Lancet, The, 2014, 384, 545-555.	6.3	336
380	Coâ€opting biology to deliver drugs. Biotechnology and Bioengineering, 2014, 111, 1699-1716.	1.7	60
381	Microfluidic fabrication of cell-derived nanovesicles as endogenous RNA carriers. Lab on A Chip, 2014, 14, 1261-1269.	3.1	116
382	Could bioengineered exosome-mimetic nanovesicles be an efficient strategy for the delivery of chemotherapeutics?. Nanomedicine, 2014, 9, 177-180.	1.7	39
383	Exosomes as Immunotheranostic Nanoparticles. Clinical Therapeutics, 2014, 36, 820-829.	1.1	84

#	Article	IF	Citations
384	Emerging roles of microRNAs in chronic pain. Neurochemistry International, 2014, 77, 58-67.	1.9	53
385	Extracellular vesicles: Specialized bone messengers. Archives of Biochemistry and Biophysics, 2014, 561, 38-45.	1.4	22
386	In Silico Design and Enzymatic Synthesis of Functional RNA Nanoparticles. Accounts of Chemical Research, 2014, 47, 1731-1741.	7.6	80
387	Harnessing the exosome-induced immune response for cancer immunotherapy. Seminars in Cancer Biology, 2014, 28, 58-67.	4.3	91
388	Naturally enveloped AAV vectors for shielding neutralizing antibodies and robust gene delivery inÂvivo. Biomaterials, 2014, 35, 7598-7609.	5.7	112
389	Extracellular RNA mediates and marks cancer progression. Seminars in Cancer Biology, 2014, 28, 14-23.	4.3	67
390	Novel siRNA delivery strategy: a new â€œstrandâ€•in CNS translational medicine?. Cellular and Molecular Life Sciences, 2014, 71, 1-20.	2.4	24
391	Smuggling Drugs into the Brain: An Overview of Ligands Targeting Transcytosis for Drug Delivery across the Bloodâ€“Brain Barrier. Pharmaceutics, 2014, 6, 557-583.	2.0	157
392	The Development of Stem Cell-Derived Exosomes as a Cell-Free Regenerative Medicine. Journal of Circulating Biomarkers, 2014, 3, 2.	0.8	56
393	The influence of rotor type and centrifugation time on the yield and purity of extracellular vesicles. Journal of Extracellular Vesicles, 2014, 3, .	5.5	343
394	Routes and mechanisms of extracellular vesicle uptake. Journal of Extracellular Vesicles, 2014, 3, .	5.5	1,874
395	Systemic Delivery of Small RNA Using Lipid Nanoparticles. Biological and Pharmaceutical Bulletin, 2014, 37, 201-205.	0.6	14
397	miRNA Profiles in Plasma from Patients with Sleep Disorders Reveal Dysregulation of miRNAs in Narcolepsy and Other Central Hypersomnias. Sleep, 2014, 37, 1525-1533.	0.6	29
398	Anticancer Use of Nanoparticles as Nucleic Acid Carriers. Journal of Biomedical Nanotechnology, 2014, 10, 1751-1783.	0.5	20
399	Identification of distinct circulating exosomes in Parkinson's disease. Annals of Clinical and Translational Neurology, 2015, 2, 353-361.	1.7	111
400	Role of exosomes and microvesicles in hypoxiaâ€associated tumour development and cardiovascular disease. Journal of Internal Medicine, 2015, 278, 251-263.	2.7	44
401	Isolation of exosomes by differential centrifugation: Theoretical analysis of a commonly used protocol. Scientific Reports, 2015, 5, 17319.	1.6	430
402	Magnetic Resonance Imaging Application in the Area of Mild and Acute Traumatic Brain Injury: Implication for Diagnostic Markers?. , 2015, , 358-369.		4

#	Article	IF	Citations
403	Extracellular vesicle in vivo biodistribution is determined by cell source, route of administration and targeting. Journal of Extracellular Vesicles, 2015, 4, 26316.	5.5	1,077
404	Biological properties of extracellular vesicles and their physiological functions. Journal of Extracellular Vesicles, 2015, 4, 27066.	5.5	3,973
405	Macrophageâ€dependent clearance of systemically administered B16BL6â€derived exosomes from the blood circulation in mice. Journal of Extracellular Vesicles, 2015, 4, 26238.	5.5	410
406	New friends for Ago2 in neuronal plasticity. EMBO Journal, 2015, 34, 2213-2214.	3.5	2
407	Applying extracellular vesicles based therapeutics in clinical trials â€“ an ISEV position paper. Journal of Extracellular Vesicles, 2015, 4, 30087.	5.5	1,020
408	Noninvasive imaging of radiolabeled exosome-mimetic nanovesicle using 99mTc-HMPAO. Scientific Reports, 2015, 5, 15636.	1.6	186
409	miRNAs: Key Players in Neurodegenerative Disorders and Epilepsy. Journal of Alzheimer's Disease, 2015, 48, 563-580.	1.2	107
410	Targeted exosome-mediated delivery of opioid receptor Mu siRNA for the treatment of morphine relapse. Scientific Reports, 2015, 5, 17543.	1.6	220
412	Potential functional applications of extracellular vesicles: a report by the NIH Common Fund Extracellular RNA Communication Consortium. Journal of Extracellular Vesicles, 2015, 4, 27575.	5.5	28
413	MicroRNA Circulating in the Early Aftermath of Motor Vehicle Collision Predict Persistent Pain Development and Suggest a Role for microRNA in Sex-Specific Pain Differences. Molecular Pain, 2015, 11, s12990-015-0069.	1.0	30
414	A novel mutation of <scp>PDE</scp>8<scp>B</scp> Gene in a <scp>J</scp>apanese family with autosomalâ€dominant striatal degeneration. Movement Disorders, 2015, 30, 1964-1967.	2.2	11
415	Study of plasmaâ€derived miRNAs mimic differences in Huntington's disease brain. Movement Disorders, 2015, 30, 1961-1964.	2.2	36
416	Human Induced Pluripotent Stem Cell-Derived Microvesicles Transmit RNAs and Proteins to Recipient Mature Heart Cells Modulating Cell Fate and Behavior. Stem Cells, 2015, 33, 2748-2761.	1.4	85
417	SiRNA Nanotherapeutics _The Panacea of Diseases?. Current Gene Therapy, 2015, 15, 201-214.	0.9	4
418	Size Effects of Nanocomplex on Tumor Associated Macrophages Targeted Delivery for Glioma. Journal of Nanomedicine & Nanotechnology, 2015, 06, .	1.1	4
419	miRNA Multiplayers in glioma. From bench to bedside. Acta Biochimica Polonica, 2015, 62, 353-365.	0.3	52
420	A method for concentrating lipid peptide DNA and siRNA nanocomplexes that retains their structure and transfection efficiency. International Journal of Nanomedicine, 2015, 10, 2673.	3.3	13
421	Therapeutic potential of CAR-T cell-derived exosomes: a cell-free modality for targeted cancer therapy. Oncotarget, 2015, 6, 44179-44190.	0.8	106

#	Article	IF	Citations
422	Extracellular Vesicles as Novel Delivery Tools for Cancer Treatment. Current Cancer Drug Targets, 2015, 16, 34-42.	0.8	6
423	Exosome-Based Translational Nanomedicine: The Therapeutic Potential for Drug Delivery. , 2015, , 161-176.		5
424	Extracellular Vesicles as Natural Nanosized Delivery Systems for Small-Molecule Drugs and Genetic Material: Steps towards the Future Nanomedicines. Journal of Pharmacy and Pharmaceutical Sciences, 2015, 18, 396.	0.9	43
425	Exosomes and Their Role in the Life Cycle and Pathogenesis of RNA Viruses. Viruses, 2015, 7, 3204-3225.	1.5	200
426	Engineered/Hypoxia-Preconditioned MSC-Derived Exosome: Its Potential Therapeutic Applications. , 2015, , 139-159.		0
427	Extracellular Vesicles from Ovarian Carcinoma Cells Display Specific Glycosignatures. Biomolecules, 2015, 5, 1741-1761.	1.8	64
428	Regulation of Macrophage, Dendritic Cell, and Microglial Phenotype and Function by the SOCS Proteins. Frontiers in Immunology, 2015, 6, 549.	2.2	57
429	Extracellular vesicles from infected cells: potential for direct pathogenesis. Frontiers in Microbiology, 2015, 6, 1132.	1.5	120
430	Neuroinflammation and Depression: Microglia Activation, Extracellular Microvesicles and microRNA Dysregulation. Frontiers in Cellular Neuroscience, 2015, 9, 476.	1.8	430
431	MicroRNAs in Renal Cell Carcinoma. MicroRNA (Shariqah, United Arab Emirates), 2015, 4, 26-35.	0.6	32
432	Exosomes: A Role for Naturally Occurring Nanovesicles in Cancer Growth, Diagnosis and Treatment. Current Gene Therapy, 2015, 15, 182-192.	0.9	81
433	Antibody-Based Assays for Phenotyping of Extracellular Vesicles. BioMed Research International, 2015, 2015, 1-15.	0.9	23
434	Extracellular Vesicles as Biomarkers of Systemic Lupus Erythematosus. Disease Markers, 2015, 2015, 1-7.	0.6	39
435	Emerging Roles of Exosomes in Normal and Pathological Conditions: New Insights for Diagnosis and Therapeutic Applications. Frontiers in Immunology, 2015, 6, 203.	2.2	481
436	Exosomes: Potent regulators of tumor malignancy and potential bio-tools in clinical application. Critical Reviews in Oncology/Hematology, 2015, 95, 346-358.	2.0	46
437	Combined treatment with a pH-sensitive fusogenic peptide and cationic lipids achieves enhanced cytosolic delivery of exosomes. Scientific Reports, 2015, 5, 10112.	1.6	210
438	Exosomal Non-Coding RNAs: Diagnostic, Prognostic and Therapeutic Applications in Cancer. Non-coding RNA, 2015, 1, 53-68.	1.3	76
439	Extracellular vesicles shuffling intercellular messages: for good or for bad. Current Opinion in Cell Biology, 2015, 35, 69-77.	2.6	397

#	Article	IF	Citations
440	Exosomes as drug delivery vehicles for Parkinson's disease therapy. Journal of Controlled Release, 2015, 207, 18-30.	4.8	1,363
441	Micromanaging of tumor metastasis by extracellular vesicles. Seminars in Cell and Developmental Biology, 2015, 40, 52-59.	2.3	15
442	Exosomes from dental pulp stem cells rescue human dopaminergic neurons from 6-hydroxy-dopamineâ€“induced apoptosis. Cytotherapy, 2015, 17, 932-939.	0.3	196
443	Quantitative Analysis of Tissue Distribution of the B16BL6-Derived Exosomes Using a Streptavidin-Lactadherin Fusion Protein and Iodine-125-Labeled Biotin Derivative After Intravenous Injection in Mice. Journal of Pharmaceutical Sciences, 2015, 104, 705-713.	1.6	217
445	Extracellular microRNAs in Membrane Vesicles and Non-vesicular Carriers. Exs, 2015, 106, 31-53.	1.4	7
446	Circulating microRNAs in Disease Diagnostics and their Potential Biological Relevance. Exs, 2015, , .	1.4	9
447	Roll over Weismann: extracellular vesicles in the transgenerational transmission of environmental effects. Epigenomics, 2015, 7, 1165-1171.	1.0	65
448	Hydrophobically Modified siRNAs Silence Huntingtin mRNA in Primary Neurons and Mouse Brain. Molecular Therapy - Nucleic Acids, 2015, 4, e266.	2.3	115
450	Synthetic biology devices for in vitro and in vivo diagnostics. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14429-14435.	3.3	281
451	microRNA and Pain. Advances in Experimental Medicine and Biology, 2015, 888, 17-39.	0.8	38
452	microRNAs and Neurodegenerative Diseases. Advances in Experimental Medicine and Biology, 2015, 888, 85-105.	0.8	84
453	Tumor Acidity-Sensitive Polymeric Vector for Active Targeted siRNA Delivery. Journal of the American Chemical Society, 2015, 137, 15217-15224.	6.6	312
454	Are Circulating microRNAs Involved in Tumor Surveillance?. Exs, 2015, 106, 269-280.	1.4	2
455	Form and Function of Exosome-Associated Long Non-coding RNAs in Cancer. Current Topics in Microbiology and Immunology, 2015, 394, 41-56.	0.7	46
456	High-efficiency Generation of Multiple Short Noncoding RNA in B-cells and B-cell-derived Extracellular Vesicles. Molecular Therapy - Nucleic Acids, 2015, 4, e271.	2.3	2
457	Acellular approaches for regenerative medicine: on the verge of clinical trials with extracellular membrane vesicles?. Stem Cell Research and Therapy, 2015, 6, 227.	2.4	50
458	The biology of circulating micro<scp>RNA</scp>s in cardiovascular disease. European Journal of Clinical Investigation, 2015, 45, 860-874.	1.7	69
459	Exosomes and their Therapeutic Applications. , 2015, , 477-501.		4

#	Article	IF	Citations
460	The fusion of two worlds: Non-coding RNAs and extracellular vesicles - diagnostic and therapeutic implications (Review). International Journal of Oncology, 2015, 46, 17-27.	1.4	192
461	Polyion complex micelles composed of pegylated polyasparthydrazide derivatives for siRNA delivery to the brain. Journal of Colloid and Interface Science, 2015, 447, 8-15.	5.0	39
462	Prospects for polymer therapeutics in Parkinson's disease and other neurodegenerative disorders. Progress in Polymer Science, 2015, 44, 79-112.	11.8	24
463	On-chip surface acoustic wave lysis and ion-exchange nanomembrane detection of exosomal RNA for pancreatic cancer study and diagnosis. Lab on A Chip, 2015, 15, 1656-1666.	3.1	154
464	Interactions between cancer cells and normal cells via miRNAs in extracellular vesicles. Cellular and Molecular Life Sciences, 2015, 72, 1849-1861.	2.4	42
465	Going beyond the liver: Progress and challenges of targeted delivery of siRNA therapeutics. Journal of Controlled Release, 2015, 203, 1-15.	4.8	240
466	Exosome Delivered Anticancer Drugs Across the Blood-Brain Barrier for Brain Cancer Therapy in Danio Rerio. Pharmaceutical Research, 2015, 32, 2003-2014.	1.7	762
467	EVpedia: a community web portal for extracellular vesicles research. Bioinformatics, 2015, 31, 933-939.	1.8	317
468	Colorimetric Nanoplasmonic Assay To Determine Purity and Titrate Extracellular Vesicles. Analytical Chemistry, 2015, 87, 4168-4176.	3.2	92
469	Stabilization of Exosome-targeting Peptides via Engineered Glycosylation. Journal of Biological Chemistry, 2015, 290, 8166-8172.	1.6	251
470	Delivery and Tracking of Quantum Dot Peptide Bioconjugates in an Intact Developing Avian Brain. ACS Chemical Neuroscience, 2015, 6, 494-504.	1.7	67
471	Transport of microRNAs via exosomes. Nature Reviews Cardiology, 2015, 12, 198-198.	6.1	27
472	Combining magnetic nanoparticles with cell derived microvesicles for drug loading and targeting. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 645-655.	1.7	118
473	Novel drug-delivery approaches to the blood-brain barrier. Neuroscience Bulletin, 2015, 31, 257-264.	1.5	9
474	MicroRNA in neurodegenerative drug discovery: the way forward?. Expert Opinion on Drug Discovery, 2015, 10, 9-16.	2.5	15
475	Exosomal Hsp70 mediates immunosuppressive activity of the myeloid-derived suppressor cells via phosphorylation of Stat3. Medical Oncology, 2015, 32, 453.	1.2	87
476	Analysis of exosome purification methods using a model liposome system and tunable-resistive pulse sensing. Scientific Reports, 2015, 5, 7639.	1.6	226
477	Effect of exosomes derived from multipluripotent mesenchymal stromal cells on functional recovery and neurovascular plasticity in rats after traumatic brain injury. Journal of Neurosurgery, 2015, 122, 856-867.	0.9	554

#	Article	IF	Citations
478	Extracellular vesicles â€“ Their role in the packaging and spread of misfolded proteins associated with neurodegenerative diseases. Seminars in Cell and Developmental Biology, 2015, 40, 89-96.	2.3	178
479	Nanotherapeutic strategies for the treatment of Alzheimer's disease. Therapeutic Delivery, 2015, 6, 177-195.	1.2	12
480	EVpedia: A community web resource for prokaryotic and eukaryotic extracellular vesicles research. Seminars in Cell and Developmental Biology, 2015, 40, 4-7.	2.3	99
481	MicroRNA Technology and Small-Molecule Delivery. , 2015, , 969-987.		0
482	Active loading into extracellular vesicles significantly improves the cellular uptake and photodynamic effect of porphyrins. Journal of Controlled Release, 2015, 205, 35-44.	4.8	511
483	The epigenetics of aging and neurodegeneration. Progress in Neurobiology, 2015, 131, 21-64.	2.8	334
484	Fibroblasts Rendered Antifibrotic, Antiapoptotic, and Angiogenic by Priming With Cardiosphere-Derived Extracellular Membrane Vesicles. Journal of the American College of Cardiology, 2015, 66, 599-611.	1.2	124
485	Biodistribution and function of extracellular miRNA-155 in mice. Scientific Reports, 2015, 5, 10721.	1.6	115
486	Epigenetics and Personalized Pain Management. , 2015, , 389-427.		0
487	Using exosomes, naturally-equipped nanocarriers, for drug delivery. Journal of Controlled Release, 2015, 219, 396-405.	4.8	760
488	Observations of Tunable Resistive Pulse Sensing for Exosome Analysis: Improving System Sensitivity and Stability. Langmuir, 2015, 31, 6577-6587.	1.6	96
489	Active macropinocytosis induction by stimulation of epidermal growth factor receptor and oncogenic Ras expression potentiates cellular uptake efficacy of exosomes. Scientific Reports, 2015, 5, 10300.	1.6	214
490	The Epigenetics of Medulloblastoma. , 2015, , 317-337.		0
491	Emerging potential of exosomes and noncoding microRNAs for the treatment of neurological injury/diseases. Expert Opinion on Emerging Drugs, 2015, 20, 523-526.	1.0	59
492	Exosome mediated communication within the tumor microenvironment. Journal of Controlled Release, 2015, 219, 278-294.	4.8	576
493	Extracellular vesicles as new pharmacological targets to treat atherosclerosis. European Journal of Pharmacology, 2015, 763, 90-103.	1.7	62
494	Oligonucleotide Therapies: The Past and the Present. Human Gene Therapy, 2015, 26, 475-485.	1.4	220
495	Generation of nanovesicles with sliced cellular membrane fragments for exogenous material delivery. Biomaterials, 2015, 59, 12-20.	5.7	98

#	Article	IF	Citations
496	Exosomes in cancer: small particle, big player. Journal of Hematology and Oncology, 2015, 8, 83.	6.9	611
497	Extracellular vesicle-mediated delivery of molecular compounds into gametes and embryos: learning from nature. Human Reproduction Update, 2015, 21, 627-639.	5.2	48
498	Intraventricular Delivery of siRNA Nanoparticles to the Central Nervous System. Molecular Therapy - Nucleic Acids, 2015, 4, e242.	2.3	43
499	RNAi therapeutics for brain cancer: current advancements in RNAi delivery strategies. Molecular BioSystems, 2015, 11, 2635-2657.	2.9	7
500	Exosomes and exosomal miRNAs in cardiovascular protection and repair. Vascular Pharmacology, 2015, 71, 24-30.	1.0	211
501	Integrated systems for exosome investigation. Methods, 2015, 87, 31-45.	1.9	168
502	Microparticles in cancer: A review of recent developments and the potential for clinical application. Seminars in Cell and Developmental Biology, 2015, 40, 35-40.	2.3	65
503	Exosomes in human semen restrict HIV-1 transmission by vaginal cells and block intravaginal replication of LP-BM5 murine AIDS virus complex. Virology, 2015, 482, 189-201.	1.1	98
504	Transfer of microRNAs by extracellular membrane microvesicles: a nascent crosstalk model in tumor pathogenesis, especially tumor cell-microenvironment interactions. Journal of Hematology and Oncology, 2015, 8, 14.	6.9	29
505	Extracellular vesicles and atherosclerotic disease. Cellular and Molecular Life Sciences, 2015, 72, 2697-2708.	2.4	69
506	Cell or Cell Membrane-Based Drug Delivery Systems. Theranostics, 2015, 5, 863-881.	4.6	363
507	The mesmiRizing complexity of microRNAs for striated muscle tissue engineering. Advanced Drug Delivery Reviews, 2015, 88, 37-52.	6.6	22
508	Toxins and derivatives in molecular pharmaceutics: Drug delivery and targeted therapy. Advanced Drug Delivery Reviews, 2015, 90, 101-118.	6.6	45
509	Visualization and tracking of tumour extracellular vesicle delivery and RNA translation using multiplexed reporters. Nature Communications, 2015, 6, 7029.	5.8	449
510	Antisense oligonucleotides in therapy for neurodegenerative disorders. Advanced Drug Delivery Reviews, 2015, 87, 90-103.	6.6	243
511	Exosome isolation: a microfluidic road-map. Lab on A Chip, 2015, 15, 2388-2394.	3.1	302
512	Cell-derived vesicles for drug therapy and diagnostics: Opportunities and challenges. Nano Today, 2015, 10, 397-409.	6.2	124
513	Nanomedicine for the treatment of Alzheimer's disease. Nanomedicine, 2015, 10, 1203-1218.	1.7	72

#	Article	IF	Citations
514	From naturally-occurring neurotoxic agents to CNS shuttles for drug delivery. European Journal of Pharmaceutical Sciences, 2015, 74, 63-76.	1.9	18
515	Grapefruit-Derived Nanovectors Use an Activated Leukocyte Trafficking Pathway to Deliver Therapeutic Agents to Inflammatory Tumor Sites. Cancer Research, 2015, 75, 2520-2529.	0.4	216
516	Surface-Engineered Dendrimers in Gene Delivery. Chemical Reviews, 2015, 115, 5274-5300.	23.0	369
517	Transcription factor decoy: a pre-transcriptional approach for gene downregulation purpose in cancer. Tumor Biology, 2015, 36, 4871-4881.	0.8	25
518	Liposome-Based Engineering of Cells To Package Hydrophobic Compounds in Membrane Vesicles for Tumor Penetration. Nano Letters, 2015, 15, 2938-2944.	4.5	144
519	Cell Membrane Fluidâ€“Mosaic Structure and Cancer Metastasis. Cancer Research, 2015, 75, 1169-1176.	0.4	62
520	Letter by Li and Hong Regarding Article, â€œCross Talk of Combined Gene and Cell Therapy in Ischemic Heart Disease: Role of Exosomal MicroRNA Transferâ€• Circulation, 2015, 131, e384.	1.6	0
521	Mesenchymal Stem Cell-derived Extracellular Vesicles: Toward Cell-free Therapeutic Applications. Molecular Therapy, 2015, 23, 812-823.	3.7	877
522	Exosomes as nanocarriers for immunotherapy of cancer and inflammatory diseases. Clinical Immunology, 2015, 160, 46-58.	1.4	148
523	Potential of yeast secretory vesicles in biodelivery systems. Drug Discovery Today, 2015, 20, 659-666.	3.2	7
525	Microvesicle- and exosome-mediated drug delivery enhances the cytotoxicity of Paclitaxel in autologous prostate cancer cells. Journal of Controlled Release, 2015, 220, 727-737.	4.8	465
526	Exogenous DNA Loading into Extracellular Vesicles via Electroporation is Size-Dependent and Enables Limited Gene Delivery. Molecular Pharmaceutics, 2015, 12, 3650-3657.	2.3	282
527	Facile fabrication of cross-linked vesicle via â€œsurface clickingâ€•of calixarene-based supra-amphiphiles. Chemical Communications, 2015, 51, 16557-16560.	2.2	23
528	Penetrating the Bloodâ€“Brain Barrier: Promise of Novel Nanoplatforms and Delivery Vehicles. ACS Nano, 2015, 9, 9470-9474.	7.3	76
530	A critical evaluation of drug delivery from ligand modified nanoparticles: Confounding small molecule distribution and efficacy in the central nervous system. Journal of Controlled Release, 2015, 220, 89-97.	4.8	60
531	Towards the realization of clinical extracellular vesicle diagnostics: challenges and opportunities. Expert Review of Molecular Diagnostics, 2015, 15, 1555-1566.	1.5	12
532	A novel platform for cancer therapy using extracellular vesicles. Advanced Drug Delivery Reviews, 2015, 95, 50-55.	6.6	86
533	Rational, computer-enabled peptide drug design: principles, methods, applications and future directions. Future Medicinal Chemistry, 2015, 7, 2173-2193.	1.1	35

#	Article	IF	Citations
534	On-Chip Immunoelectrophoresis of Extracellular Vesicles Released from Human Breast Cancer Cells. PLoS ONE, 2015, 10, e0123603.	1.1	71
535	Exosomeâ€transported micro<scp>RNA</scp>s of helminth origin: new tools for allergic and autoimmune diseases therapy?. Parasite Immunology, 2015, 37, 208-214.	0.7	41
536	Promoting brain remodeling to aid in stroke recovery. Trends in Molecular Medicine, 2015, 21, 543-548.	3.5	61
537	Nanomedicine delivery: does protein corona route to the target or off road?. Nanomedicine, 2015, 10, 3231-3247.	1.7	86
538	Exosomal doxorubicin reduces the cardiac toxicity of doxorubicin. Nanomedicine, 2015, 10, 2963-2971.	1.7	120
539	Knocking down disease: a progress report on siRNA therapeutics. Nature Reviews Genetics, 2015, 16, 543-552.	7.7	669
540	Classes of Cell-Penetrating Peptides. Methods in Molecular Biology, 2015, 1324, 3-28.	0.4	53
541	Polyethylenimine mediated magnetic nanoparticles for combined intracellular imaging, siRNA delivery and anti-tumor therapy. RSC Advances, 2015, 5, 101569-101581.	1.7	19
542	microRNA-33 Regulates ApoE Lipidation and Amyloid-Î² Metabolism in the Brain. Journal of Neuroscience, 2015, 35, 14717-14726.	1.7	104
543	Biodistribution and delivery efficiency of unmodified tumor-derived exosomes. Journal of Controlled Release, 2015, 199, 145-155.	4.8	525
544	Delivery systems for siRNA drug development in cancer therapy. Asian Journal of Pharmaceutical Sciences, 2015, 10, 1-12.	4.3	170
545	Regulation of cancer metastasis by cell-free miRNAs. Biochimica Et Biophysica Acta: Reviews on Cancer, 2015, 1855, 24-42.	3.3	87
546	MicroRNAs: new players in IBD. Gut, 2015, 64, 504-513.	6.1	223
547	Effective internalization of U251-MG-secreted exosomes into cancer cells and characterization of their lipid components. Biochemical and Biophysical Research Communications, 2015, 456, 768-773.	1.0	55
548	Extracellular vesicles and their synthetic analogues in aging and age-associated brain diseases. Biogerontology, 2015, 16, 147-185.	2.0	57
549	Cellular Therapy for Stroke and CNS Injuries. , 2015, , .		0
550	Therapeutic Applications of Extracellular Vesicles: Clinical Promise and Open Questions. Annual Review of Pharmacology and Toxicology, 2015, 55, 439-464.	4.2	415
551	Magnetic resonance imaging of melanoma exosomes in lymph nodes. Magnetic Resonance in Medicine, 2015, 74, 266-271.	1.9	157

#	Article	IF	Citations
552	Emerging Roles for Extracellular Vesicles in Tissue Engineering and Regenerative Medicine. Tissue Engineering - Part B: Reviews, 2015, 21, 45-54.	2.5	188
553	Targeting Receptor-Mediated Transport for Delivery of Biologics Across the Blood-Brain Barrier. Annual Review of Pharmacology and Toxicology, 2015, 55, 613-631.	4.2	291
554	Exosomes in diagnostic and therapeutic applications: biomarker, vaccine and RNA interference delivery vehicle. Expert Opinion on Biological Therapy, 2015, 15, 103-117.	1.4	108
555	Enhanced BBB permeability of osmotically active poly(mannitol-co-PEI) modified with rabies virus glycoprotein via selective stimulation of caveolar endocytosis for RNAi therapeutics in Alzheimer's disease. Biomaterials, 2015, 38, 61-71.	5.7	106
556	Exosomes: Vehicles of Intercellular Signaling, Biomarkers, and Vectors of Cell Therapy. Annual Review of Physiology, 2015, 77, 13-27.	5.6	579
557	In vivo Kinetic Biodistribution of Nano-Sized Outer Membrane Vesicles Derived from Bacteria. Small, 2015, 11, 456-461.	5.2	118
558	Exosomes as divine messengers: are they the Hermes of modern molecular oncology?. Cell Death and Differentiation, 2015, 22, 34-45.	5.0	254
559	Diagnostic and therapeutic potentials of exosomes in CNS diseases. Brain Research, 2015, 1617, 63-71.	1.1	120
560	Microvesicles as Mediators of Tissue Regeneration. , 2016, , 215-224.		1
561	Exosomes in stroke pathogenesis and therapy. Journal of Clinical Investigation, 2016, 126, 1190-1197.	3.9	185
562	Exosomes. , 2016, , 179-209.		8
563	Microparticles: A Pivotal Nexus in Vascular Homeostasis and Disease. Current Clinical Pharmacology, 2016, 11, 28-42.	0.2	6
564	Extracellular Vesicles: A Mechanism to Reverse Metastatic Behaviour as a New Approach to Cancer Therapy. , 0, , .		0
565	The miRNA and Extracellular Vesicles in Alcoholic Liver Disease. , 2016, , 275-286.		6
566	Scientometric overview regarding the surface chemistry of nanobiomaterials. , 2016, , 463-486.		6
567	Immunobiology of Tumors and Advances in Immunotherapy. Journal of Clinical & Cellular Immunology, 2016, 07, .	1.5	0
568	Non-viral Vector Mediated RNA Interference Technology for Central Nervous System Injury. DNA and RNA Nanotechnology, 2016, 3, 14-22.	0.7	3
569	Hyaluronic acid-conjugated liposome nanoparticles for targeted delivery to CD44 overexpressing glioblastoma cells. Oncotarget, 2016, 7, 34158-34171.	0.8	92

#	Article	IF	Citations
570	Exosomes isolation and characterization in serum is feasible in non-small cell lung cancer patients: critical analysis of evidence and potential role in clinical practice. Oncotarget, 2016, 7, 28748-28760.	0.8	95
571	Towards Therapeutic Delivery of Extracellular Vesicles: Strategies forIn VivoTracking and Biodistribution Analysis. Stem Cells International, 2016, 2016, 1-12.	1.2	109
572	Potential Therapies by Stem Cell-Derived Exosomes in CNS Diseases: Focusing on the Neurogenic Niche. Stem Cells International, 2016, 2016, 1-16.	1.2	79
573	Mesenchymal Stem Cell-Derived Microvesicles Support Ex Vivo Expansion of Cord Blood-Derived CD34⁺Cells. Stem Cells International, 2016, 2016, 1-13.	1.2	40
574	Extracellular vesicle isolation and characterization: toward clinical application. Journal of Clinical Investigation, 2016, 126, 1152-1162.	3.9	667
575	Scientometric Overview inÂNanobiodrugs. , 2016, , 405-428.		4
576	Exosomes as Novel Regulators of Adult Neurogenic Niches. Frontiers in Cellular Neuroscience, 2015, 9, 501.	1.8	108
577	Extracellular Vesicles in Physiology, Pathology, and Therapy of the Immune and Central Nervous System, with Focus on Extracellular Vesicles Derived from Mesenchymal Stem Cells as Therapeutic Tools. Frontiers in Cellular Neuroscience, 2016, 10, 109.	1.8	152
578	Extracellular Vesicles and a Novel Form of Communication in the Brain. Frontiers in Neuroscience, 2016, 10, 127.	1.4	144
579	Non-Viral Nucleic Acid Delivery Strategies to the Central Nervous System. Frontiers in Molecular Neuroscience, 2016, 9, 108.	1.4	25
580	Getting miRNA Therapeutics into the Target Cells for Neurodegenerative Diseases: A Mini-Review. Frontiers in Molecular Neuroscience, 2016, 9, 129.	1.4	68
581	Focus on Extracellular Vesicles: Development of Extracellular Vesicle-Based Therapeutic Systems. International Journal of Molecular Sciences, 2016, 17, 172.	1.8	113
582	Focus on Extracellular Vesicles: Exosomes and Their Role in Protein Trafficking and Biomarker Potential in Alzheimerâ€™s and Parkinsonâ€™s Disease. International Journal of Molecular Sciences, 2016, 17, 173.	1.8	196
583	Exosome: A Novel Approach to Stimulate Bone Regeneration through Regulation of Osteogenesis and Angiogenesis. International Journal of Molecular Sciences, 2016, 17, 712.	1.8	143
584	MicroRNAs: Key Regulators in the Central Nervous System and Their Implication in Neurological Diseases. International Journal of Molecular Sciences, 2016, 17, 842.	1.8	141
585	Identification and Characterization of 293T Cell-Derived Exosomes by Profiling the Protein, mRNA and MicroRNA Components. PLoS ONE, 2016, 11, e0163043.	1.1	77
586	Extracellular Vesicles Facilitate the Intercellular Communications in the Pathogenesis of Lung Injury. Cell & Developmental Biology, 2016, 5, .	0.3	6
587	MSCs-Derived Exosomes: Cell-Secreted Nanovesicles with Regenerative Potential. Frontiers in Pharmacology, 2016, 7, 231.	1.6	202

#	Article	IF	Citations
588	Focus on Extracellular Vesicles: Physiological Role and Signalling Properties of Extracellular Membrane Vesicles. International Journal of Molecular Sciences, 2016, 17, 171.	1.8	231
589	Exosomes as nanocarriers for siRNA delivery: paradigms and challenges. Archives of Medical Science, 2016, 6, 1324-1326.	0.4	41
590	Efficient production and enhanced tumor delivery of engineered extracellular vesicles. Biomaterials, 2016, 105, 195-205.	5.7	286
591	Modulation of tissue tropism and biological activity of exosomes and other extracellular vesicles: New nanotools for cancer treatment. Pharmacological Research, 2016, 111, 487-500.	3.1	149
592	Multifunctional Transmembrane Protein Ligands for Cell-Specific Targeting of Plasma Membrane-Derived Vesicles. Small, 2016, 12, 3837-3848.	5.2	38
593	Post isolation modification of exosomes for nanomedicine applications. Nanomedicine, 2016, 11, 1745-1756.	1.7	148
594	Tumorâ€derived exosomes elicit tumor suppression in murine hepatocellular carcinoma models and humans in vitro. Hepatology, 2016, 64, 456-472.	3.6	202
595	Development and regulation of exosomeâ€based therapy products. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2016, 8, 744-757.	3.3	61
596	Challenges in carrierâ€mediated intracellular delivery: moving beyond endosomal barriers. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2016, 8, 465-478.	3.3	105
597	Renal extracellular vesicles: from physiology to clinical application. Journal of Physiology, 2016, 594, 5735-5748.	1.3	43
598	The Liquid Biopsies: A New Important Step in Cancer Research. , 2016, , 85-115.		0
599	Bioengineered Extracellular Membranous Nanovesicles for Efficient Smallâ€Interfering RNA Delivery: Versatile Platforms for Stem Cell Engineering and In Vivo Delivery. Advanced Functional Materials, 2016, 26, 5804-5817.	7.8	24
600	Into rather unexplored terrainâ€"transcellular transport across the bloodâ€"brain barrier. Glia, 2016, 64, 1097-1123.	2.5	118
603	Dendrimerâ€Stabilized Gold Nanostars as a Multifunctional Theranostic Nanoplatform for CT Imaging, Photothermal Therapy, and Gene Silencing of Tumors. Advanced Healthcare Materials, 2016, 5, 3203-3213.	3.9	79
604	Display of GPIâ€anchored antiâ€EGFR nanobodies on extracellular vesicles promotes tumour cell targeting. Journal of Extracellular Vesicles, 2016, 5, 31053.	5.5	284
605	A standardized method to determine the concentration of extracellular vesicles using tunable resistive pulse sensing. Journal of Extracellular Vesicles, 2016, 5, 31242.	5.5	142
606	Extracellular Vesicles in Cancer: Cell-to-Cell Mediators of Metastasis. Cancer Cell, 2016, 30, 836-848.	7.7	1,401
607	Nanosomes carrying doxorubicin exhibit potent anticancer activity against human lung cancer cells. Scientific Reports, 2016, 6, 38541.	1.6	137

#	Article	IF	Citations
608	A platform for actively loading cargo RNA to elucidate limiting steps in EVâ€mediated delivery. Journal of Extracellular Vesicles, 2016, 5, 31027.	5.5	157
609	Study of Exosomes Shed New Light on Physiology of Amyloidogenesis. Cellular and Molecular Neurobiology, 2016, 36, 327-342.	1.7	13
610	Cell-derived microvesicles mediate the delivery of miR-29a/c to suppress angiogenesis in gastric carcinoma. Cancer Letters, 2016, 375, 331-339.	3.2	98
611	Exosomes as Tools to Suppress Primary Brain Tumor. Cellular and Molecular Neurobiology, 2016, 36, 343-352.	1.7	65
612	MicroRNAs in brain cholesterol metabolism and their implications for Alzheimer's disease. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 2139-2147.	1.2	18
613	Toward a world of theranostic medication: Programming biological sentinel systems for therapeutic intervention. Advanced Drug Delivery Reviews, 2016, 105, 66-76.	6.6	30
614	Mesenchymal Stem Cells Deliver Exogenous MicroRNA-let7c via Exosomes to Attenuate Renal Fibrosis. Molecular Therapy, 2016, 24, 1290-1301.	3.7	286
615	Bloodâ€“brain barrier shuttle peptides: an emerging paradigm for brain delivery. Chemical Society Reviews, 2016, 45, 4690-4707.	18.7	318
616	MicroRNA-Based Biomarkers in Pain. Advances in Pharmacology, 2016, 75, 35-62.	1.2	18
617	Blood Exosomes Endowed with Magnetic and Targeting Properties for Cancer Therapy. ACS Nano, 2016, 10, 3323-3333.	7.3	362
618	Recent nanomedicine articles of outstanding interest: functional nanomaterials for Brain Research through Advancing Innovative Neurotechnologies initiative. Nanomedicine, 2016, 11, 5-7.	1.7	1
619	In vitroimmunotoxicity assessment of culture-derived extracellular vesicles in human monocytes. Journal of Immunotoxicology, 2016, 13, 652-665.	0.9	13
620	The delivery of therapeutic oligonucleotides. Nucleic Acids Research, 2016, 44, 6518-6548.	6.5	656
621	Illuminating the physiology of extracellular vesicles. Stem Cell Research and Therapy, 2016, 7, 55.	2.4	81
622	Role of microRNAs in gastrointestinal smooth muscle fibrosis and dysfunction: novel molecular perspectives on the pathophysiology and therapeutic targeting. American Journal of Physiology - Renal Physiology, 2016, 310, G449-G459.	1.6	11
623	Comparing exosome-like vesicles with liposomes for the functional cellular delivery of small RNAs. Journal of Controlled Release, 2016, 232, 51-61.	4.8	112
624	Nature Biotechnology's academic spinouts of 2015. Nature Biotechnology, 2016, 34, 484-492.	9.4	5
625	Ferritin-mediated siRNA delivery and gene silencing in human tumor and primary cells. Biomaterials, 2016, 98, 143-151.	5.7	65

#	Article	IF	Citations
626	Exosomes surf on filopodia to enter cells at endocytic hot spots, traffic within endosomes, and are targeted to the ER. Journal of Cell Biology, 2016, 213, 173-184.	2.3	326
627	Exosomes in Alzheimer's disease. Neurochemistry International, 2016, 97, 193-199.	1.9	121
628	Extracellular vesicles in neurodegenerative disease â€" pathogenesis to biomarkers. Nature Reviews Neurology, 2016, 12, 346-357.	4.9	299
629	Comparison of two endogenous delivery agents in cancer therapy: Exosomes and ferritin. Pharmacological Research, 2016, 110, 1-9.	3.1	28
630	Delivery of RNA-based molecules to human hematopoietic stem and progenitor cells for modulation of gene expression. Experimental Hematology, 2016, 44, 991-1001.	0.2	4
631	Exosomes: From Functions in Host-Pathogen Interactions and Immunity to Diagnostic and Therapeutic Opportunities. Reviews of Physiology, Biochemistry and Pharmacology, 2016, 172, 39-75.	0.9	19
632	Human tissue engineering allows the identification of active miRNA regulators of glioblastoma aggressiveness. Biomaterials, 2016, 107, 74-87.	5.7	24
633	Extracellular Vesicles in Cancer. Advances in Biomembranes and Lipid Self-Assembly, 2016, 23, 187-204.	0.3	1
634	Good things come in small packages: Overcoming challenges to harness extracellular vesicles for therapeutic delivery. Journal of Controlled Release, 2016, 241, 174-185.	4.8	129
635	Realâ€Time Labelâ€Free Monitoring of Nanoparticle Cell Uptake. Small, 2016, 12, 6289-6300.	5.2	26
636	From pathogenesis to clinical application: insights into exosomes as transfer vectors in cancer. Journal of Experimental and Clinical Cancer Research, 2016, 35, 156.	3.5	33
637	Exosome-based tumor antigensâ€"adjuvant co-delivery utilizing genetically engineered tumor cell-derived exosomes with immunostimulatory CpG DNA. Biomaterials, 2016, 111, 55-65.	5.7	256
638	Glial Cells in Health and Disease of the CNS. Advances in Experimental Medicine and Biology, 2016, , .	0.8	9
639	Schwann Cell and Axon: An Interlaced Unitâ€"From Action Potential to Phenotype Expression. Advances in Experimental Medicine and Biology, 2016, 949, 183-201.	0.8	8
640	Therapeutic and diagnostic applications of extracellular vesicles. Journal of Controlled Release, 2016, 244, 167-183.	4.8	145
641	Exosome-mediated Delivery of Hydrophobically Modified siRNA for Huntingtin mRNA Silencing. Molecular Therapy, 2016, 24, 1836-1847.	3.7	351
642	Recent Trends in Nanotechnology Toward CNS Diseases. International Review of Neurobiology, 2016, 130, 1-40.	0.9	15
643	Circulating extracellular vesicles: Their role in tissue repair and regeneration. Transfusion and Apheresis Science, 2016, 55, 53-61.	0.5	27

#	Article	IF	Citations
644	Mesenchymal stem cell and derived exosome as small RNA carrier and Immunomodulator to improve islet transplantation. Journal of Controlled Release, 2016, 238, 166-175.	4.8	140
645	Elucidation of Exosome Migration Across the Bloodâ€“Brain Barrier Model In Vitro. Cellular and Molecular Bioengineering, 2016, 9, 509-529.	1.0	368
646	Exosomes from Cardiomyocyte Progenitor Cells and Mesenchymal Stem Cells Stimulate Angiogenesis Via EMMPRIN. Advanced Healthcare Materials, 2016, 5, 2555-2565.	3.9	158
647	Sulfatides in extracellular vesicles isolated from plasma of multiple sclerosis patients. Journal of Neuroscience Research, 2016, 94, 1579-1587.	1.3	45
648	MicroRNA: Small RNA mediators of the brains genomic response to environmental stress. Progress in Neurobiology, 2016, 143, 61-81.	2.8	102
649	Exosomes increase the therapeutic index of doxorubicin in breast and ovarian cancer mouse models. Nanomedicine, 2016, 11, 2431-2441.	1.7	213
650	Mesenchymal Stem Cell-Derived Exosomes Promote Fracture Healing in a Mouse Model. Stem Cells Translational Medicine, 2016, 5, 1620-1630.	1.6	325
651	Are prions transported by plasma exosomes?. Transfusion and Apheresis Science, 2016, 55, 70-83.	0.5	31
652	Hexose enhances oligonucleotide delivery and exon skipping in dystrophin-deficient mdx mice. Nature Communications, 2016, 7, 10981.	5.8	42
653	Emerging roles of extracellular vesicles in neurodegenerative disorders: focus on HIV-associated neurological complications. Cell Death and Disease, 2016, 7, e2481-e2481.	2.7	50
654	Oncogene Knockdown via Active Loading of Small RNAs into Extracellular Vesicles by Sonication. Cellular and Molecular Bioengineering, 2016, 9, 315-324.	1.0	235
655	Gene therapy for the CNS using AAVs: The impact of systemic delivery by AAV9. Journal of Controlled Release, 2016, 241, 94-109.	4.8	148
656	Portâ€toâ€port delivery: Mobilization of toxic sphingolipids via extracellular vesicles. Journal of Neuroscience Research, 2016, 94, 1333-1340.	1.3	24
657	A historical and evolutionary perspective on the biological significance of circulating DNA and extracellular vesicles. Cellular and Molecular Life Sciences, 2016, 73, 4355-4381.	2.4	36
658	New strategies for improving stem cell therapy in ischemic heart disease. Heart Failure Reviews, 2016, 21, 737-752.	1.7	34
659	MicroRNAs and psychiatric disorders: From aetiology to treatment. , 2016, 167, 13-27.		45
660	Circulating microRNAs in cancer: Hope or hype?. Cancer Letters, 2016, 381, 113-121.	3.2	65
661	Selfâ€Sealing Porous Siliconâ€Calcium Silicate Coreâ€“Shell Nanoparticles for Targeted siRNA Delivery to the Injured Brain. Advanced Materials, 2016, 28, 7962-7969.	11.1	123

#	Article	IF	Citations
662	Extracellular Vesicles. , 2016, , 302-310.		1
663	Serum miRNA Signatures Are Indicative of Skeletal Fractures in Postmenopausal Women With and Without Type 2 Diabetes and Influence Osteogenic and Adipogenic Differentiation of Adipose Tissueâ€"Derived Mesenchymal Stem Cells In Vitro. Journal of Bone and Mineral Research, 2016, 31, 2173-2192.	3.1	115
664	Neuron-Targeted Nanoparticle for siRNA Delivery to Traumatic Brain Injuries. ACS Nano, 2016, 10, 7926-7933.	7.3	110
665	Bone marrow stromal/stem cell-derived extracellular vesicles regulate osteoblast activity and differentiation in vitro and promote bone regeneration in vivo. Scientific Reports, 2016, 6, 21961.	1.6	322
666	In Vivo therapeutic potential of mesenchymal stem cell-derived extracellular vesicles with optical imaging reporter in tumor mice model. Scientific Reports, 2016, 6, 30418.	1.6	61
667	Self-assembled nanoparticles comprising aptideâ€"SN38 conjugates for use in targeted cancer therapy. Nanotechnology, 2016, 27, 48LT01.	1.3	18
668	Exosome engineering for efficient intracellular delivery of soluble proteins using optically reversible proteinâ€"protein interaction module. Nature Communications, 2016, 7, 12277.	5.8	420
669	Engineering hybrid exosomes by membrane fusion with liposomes. Scientific Reports, 2016, 6, 21933.	1.6	447
670	Microvesicles in Autoimmune Diseases. Advances in Clinical Chemistry, 2016, 77, 125-175.	1.8	46
671	Extracellular vesicles in diagnosis and therapy of kidney diseases. American Journal of Physiology - Renal Physiology, 2016, 311, F844-F851.	1.3	140
672	Exosomes in tumor microenvironment: novel transporters and biomarkers. Journal of Translational Medicine, 2016, 14, 297.	1.8	151
673	Bacterial membrane vesicles (MVs): novel tools as nature- and nano-carriers for immunogenic antigen, enzyme support, and drug delivery. Applied Microbiology and Biotechnology, 2016, 100, 9837-9843.	1.7	20
674	Exosome Secretion â€" More Than Simple Waste Disposal? Implications for Physiology, Diagnostics and Therapeutics. Journal of Circulating Biomarkers, 2016, 5, 7.	0.8	20
675	The Exosome â€•A Naturally Secreted Nanoparticle and its Application to Wound Healing. Advanced Materials, 2016, 28, 5542-5552.	11.1	213
676	Advances in the development of biomarkers for epilepsy. Lancet Neurology, The, 2016, 15, 843-856.	4.9	283
677	Molecular Targets and Strategies in Cancer Prevention. , 2016, , .		0
678	Lentiviral Vectors and Exosomes as Gene and Protein Delivery Tools. Methods in Molecular Biology, 2016, , .	0.4	1
679	RNAi delivery by exosome-mimetic nanovesicles â€" Implications for targeting c-Myc in cancer. Biomaterials, 2016, 102, 231-238.	5.7	188

#	Article	IF	Citations
680	Biogenesis and Functions of Exosomes and Extracellular Vesicles. Methods in Molecular Biology, 2016, 1448, 201-216.	0.4	102
681	Exosome-Mediated Targeted Delivery of miRNAs. Methods in Molecular Biology, 2016, 1448, 261-270.	0.4	39
682	Recent advances of exosomes in immune modulation and autoimmune diseases. Autoimmunity, 2016, 49, 357-365.	1.2	125
683	Technological advances in precision medicine and drug development. Expert Review of Precision Medicine and Drug Development, 2016, 1, 331-343.	0.4	9
684	Recent insights in nanotechnology-based drugs and formulations designed for effective anti-cancer therapy. Journal of Nanobiotechnology, 2016, 14, 39.	4.2	123
685	Heat shock proteins and chronic fatigue in primary SjÃ¶grenâ€™s syndrome. Innate Immunity, 2016, 22, 162-167.	1.1	41
686	Turing Revisited: Decoding the microRNA Messages in Brain Extracellular Vesicles for Early Detection of Neurodevelopmental Disorders. Current Environmental Health Reports, 2016, 3, 188-201.	3.2	25
687	Exosomeâ€mediated small <scp>RNA</scp> delivery for gene therapy. Wiley Interdisciplinary Reviews RNA, 2016, 7, 758-771.	3.2	84
688	Exosomes: novel implications in diagnosis and treatment of gastrointestinal cancer. Langenbeck's Archives of Surgery, 2016, 401, 1097-1110.	0.8	26
689	The roles and implications of exosomes in sarcoma. Cancer and Metastasis Reviews, 2016, 35, 377-390.	2.7	33
690	Exosomes as a Nanodelivery System: a Key to the Future of Neuromedicine?. Molecular Neurobiology, 2016, 53, 818-834.	1.9	189
691	Inducible RNAi system and its application in novel therapeutics. Critical Reviews in Biotechnology, 2016, 36, 630-638.	5.1	15
692	Exosomeâ€mediated inflammasome signaling after central nervous system injury. Journal of Neurochemistry, 2016, 136, 39-48.	2.1	183
693	Therapeutics targeting the inflammasome after central nervous system injury. Translational Research, 2016, 167, 35-45.	2.2	85
694	More Than Tiny Sacks. Circulation Research, 2016, 118, 330-343.	2.0	159
695	Physiological and pathological roles of exosomes in the nervous system. Biomolecular Concepts, 2016, 7, 53-68.	1.0	50
696	Extrinsic and Intrinsic Mechanisms by Which Mesenchymal Stem Cells Suppress the Immune System. Ocular Surface, 2016, 14, 121-134.	2.2	64
697	Ultrasmall Magnetically Engineered Ag₂Se Quantum Dots for Instant Efficient Labeling and Whole-Body High-Resolution Multimodal Real-Time Tracking of Cell-Derived Microvesicles. Journal of the American Chemical Society, 2016, 138, 1893-1903.	6.6	143

#	Article	IF	Citations
698	Native characterization of nucleic acid motif thermodynamics via non-covalent catalysis. Nature Communications, 2016, 7, 10319.	5.8	22
699	Extracellular vesicles in breast cancer drug resistance and their clinical application. Tumor Biology, 2016, 37, 2849-2861.	0.8	19
700	Exosomes from HIV-1-infected Cells Stimulate Production of Pro-inflammatory Cytokines through Trans-activating Response (TAR) RNA. Journal of Biological Chemistry, 2016, 291, 1251-1266.	1.6	165
701	Targeting specific cells in the brain with nanomedicines for CNS therapies. Journal of Controlled Release, 2016, 240, 212-226.	4.8	71
702	Microglia-derived HIV Nef+ exosome impairment of the bloodâ€“brain barrier is treatable by nanomedicine-based delivery of Nef peptides. Journal of NeuroVirology, 2016, 22, 129-139.	1.0	84
703	Extracellular Vesicles and MicroRNAs: Their Role in Tumorigenicity and Therapy for Brain Tumors. Cellular and Molecular Neurobiology, 2016, 36, 361-376.	1.7	36
704	Ferritin nanocages: A biological platform for drug delivery, imaging and theranostics in cancer. Pharmacological Research, 2016, 107, 57-65.	3.1	199
705	Stem cellâ€“based therapies for the newborn lung and brain: Possibilities and challenges. Seminars in Perinatology, 2016, 40, 138-151.	1.1	64
706	Extracellular Vesicles in Brain Tumor Progression. Cellular and Molecular Neurobiology, 2016, 36, 383-407.	1.7	71
707	Schwann Cell Exosomes Mediate Neuronâ€“Glia Communication and Enhance Axonal Regeneration. Cellular and Molecular Neurobiology, 2016, 36, 429-436.	1.7	82
708	The role of human endogenous retroviruses in brain development and function. Apmis, 2016, 124, 105-115.	0.9	23
709	Delivery of Therapeutic Proteins via Extracellular Vesicles: Review and Potential Treatments for Parkinsonâ€™s Disease, Glioma, and Schwannoma. Cellular and Molecular Neurobiology, 2016, 36, 417-427.	1.7	87
710	Plant derived edible nanoparticles as a new therapeutic approach against diseases. Tissue Barriers, 2016, 4, e1134415.	1.6	206
711	Extracellular vesicles round off communication in the nervous system. Nature Reviews Neuroscience, 2016, 17, 160-172.	4.9	529
712	Exosomes as a potential novel therapeutic tools against neurodegenerative diseases. Pharmacological Research, 2016, 113, 816-822.	3.1	77
713	Development of exosome surface display technology in living human cells. Biochemical and Biophysical Research Communications, 2016, 472, 53-59.	1.0	137
714	Exosome-associated AAV vector as a robust and convenient neuroscience tool. Gene Therapy, 2016, 23, 380-392.	2.3	103
715	PEGylation of 6-amino-6-deoxy-curdlan for efficient in vivo siRNA delivery. Carbohydrate Polymers, 2016, 141, 92-98.	5.1	21

#	Article	IF	Citations
716	Indocyanine green-incorporated exosomes for improved in vivo imaging of sentinel lymph node. Applied Biological Chemistry, 2016, 59, 71-76.	0.7	10
717	Tiny Shuttles for Information Transfer: Exosomes in Cardiac Health and Disease. Journal of Cardiovascular Translational Research, 2016, 9, 169-175.	1.1	39
718	From structures to functions: insights into exosomes as promising drug delivery vehicles. Biomaterials Science, 2016, 4, 910-921.	2.6	105
719	Extracellular vesicles for drug delivery. Advanced Drug Delivery Reviews, 2016, 106, 148-156.	6.6	866
720	Evaluation of electroporation-induced adverse effects on adipose-derived stem cell exosomes. Cytotechnology, 2016, 68, 2125-2138.	0.7	131
721	Exosomes as therapeutics: The implications of molecular composition and exosomal heterogeneity. Journal of Controlled Release, 2016, 228, 179-190.	4.8	279
722	A designed recombinant fusion protein for targeted delivery of siRNA to the mouse brain. Journal of Controlled Release, 2016, 228, 120-131.	4.8	29
723	Exosomes as therapeutic drug carriers and delivery vehicles across biological membranes: current perspectives and future challenges. Acta Pharmaceutica Sinica B, 2016, 6, 287-296.	5.7	949
724	20 years of Nature Biotechnology biomedical research. Nature Biotechnology, 2016, 34, 262-266.	9.4	13
725	Safety profile of the intravenous administration of brain-targeted stable nucleic acid lipid particles. Data in Brief, 2016, 6, 700-705.	0.5	11
726	Cellular Engineering with Membrane Fusogenic Liposomes to Produce Functionalized Extracellular Vesicles. ACS Applied Materials & Interfaces, 2016, 8, 6790-6795.	4.0	99
727	Designing hyperbranched polymers for gene delivery. Molecular Systems Design and Engineering, 2016, 1, 25-39.	1.7	21
728	Exosomes in Cancer Disease. Methods in Molecular Biology, 2016, 1381, 111-149.	0.4	45
729	The potential diagnostic power of extracellular vesicle analysis for multiple myeloma. Expert Review of Molecular Diagnostics, 2016, 16, 277-284.	1.5	10
730	Exosomes derived from dendritic cells improve cardiac function via activation of CD4+ T lymphocytes after myocardial infarction. Journal of Molecular and Cellular Cardiology, 2016, 91, 123-133.	0.9	114
731	PEGylated and targeted extracellular vesicles display enhanced cell specificity and circulation time. Journal of Controlled Release, 2016, 224, 77-85.	4.8	402
732	Emerging Frontiers in Drug Delivery. Journal of the American Chemical Society, 2016, 138, 704-717.	6.6	776
733	Extracellular vesicles of the blood-brain barrier. Tissue Barriers, 2016, 4, e1131804.	1.6	77

#	Article	IF	Citations
734	Bioengineered yeast-derived vacuoles with enhanced tissue-penetrating ability for targeted cancer therapy. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 710-715.	3.3	35
735	Urinary Exosomes: The Potential for Biomarker Utility, Intercellular Signaling and Therapeutics in Urological Malignancy. Journal of Urology, 2016, 195, 1331-1339.	0.2	89
736	Intravenous administration of brain-targeted stable nucleic acid lipid particles alleviates Machado-Joseph disease neurological phenotype. Biomaterials, 2016, 82, 124-137.	5.7	86
737	Development of Nonviral Vectors Targeting the Brain as a Therapeutic Approach For Parkinson's Disease and Other Brain Disorders. Molecular Therapy, 2016, 24, 746-758.	3.7	38
738	Extracellular vesicles: Pharmacological modulators of the peripheral and central signals governing obesity. , 2016, 157, 65-83.		24
739	Development of exosome-encapsulated paclitaxel to overcome MDR in cancer cells. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 655-664.	1.7	991
740	Targeting vascular and leukocyte communication in angiogenesis, inflammation and fibrosis. Nature Reviews Drug Discovery, 2016, 15, 125-142.	21.5	115
741	Exosome-inspired targeting of cancer cells with enhanced affinity. Journal of Materials Chemistry B, 2016, 4, 768-778.	2.9	13
742	Systematic review of factors influencing extracellular vesicle yield from cell cultures. Cytotechnology, 2016, 68, 579-592.	0.7	89
744	siRNA Nanoparticles for Ultra-Long Gene Silencing In Vivo. Methods in Molecular Biology, 2016, 1372, 113-120.	0.4	7
745	Effect of exosome isolation methods on physicochemical properties of exosomes and clearance of exosomes from the blood circulation. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 98, 1-8.	2.0	147
746	Characterization of exosomes derived from ovarian cancer cells and normal ovarian epithelial cells by nanoparticle tracking analysis. Tumor Biology, 2016, 37, 4213-4221.	0.8	74
747	Designer exosomes as next-generation cancer immunotherapy. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 163-169.	1.7	91
748	Targeted therapeutic delivery using engineered exosomes and its applications in cardiovascular diseases. Gene, 2016, 575, 377-384.	1.0	127
749	Delivery of Small Interfering RNAs to Cells via Exosomes. Methods in Molecular Biology, 2016, 1364, 105-125.	0.4	30
750	Membrane microparticles: shedding new light into cancer cell communication. Journal of Cancer Research and Clinical Oncology, 2016, 142, 1395-1406.	1.2	18
751	Protein O-mannosylation is crucial for human mesencyhmal stem cells fate. Cellular and Molecular Life Sciences, 2016, 73, 445-458.	2.4	9
752	G gene-deficient single-round rabies viruses for neuronal circuit analysis. Virus Research, 2016, 216, 41-54.	1.1	36

#	Article	IF	Citations
753	Fluorescence triggering: A general strategy for enumerating and phenotyping extracellular vesicles by flow cytometry. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2016, 89, 184-195.	1.1	137
754	Antibody therapies in CNS diseases. Neuropharmacology, 2017, 120, 38-55.	2.0	96
755	Nano carriers for drug transport across the bloodâ€“brain barrier. Journal of Drug Targeting, 2017, 25, 17-28.	2.1	187
756	An overview of circulating cell-free microRNAs as putative biomarkers in Alzheimer's and Parkinson's Diseases. International Journal of Neuroscience, 2017, 127, 547-558.	0.8	42
757	Biodegradable Nanoparticles for Delivery of Therapeutics in CNS Infection. Journal of NeuroImmune Pharmacology, 2017, 12, 31-50.	2.1	33
758	Recombinant surface engineering to enhance and expand the potential of biologically produced nanoparticles: A review. Process Biochemistry, 2017, 59, 4-17.	1.8	3
759	Dexmedetomidine increases acetylation level of histone through ERK1/2 pathway in dopamine neuron. Human and Experimental Toxicology, 2017, 36, 474-482.	1.1	10
760	Crossing the Bloodâ€“Brain Barrier: Recent Advances in Drug Delivery to the Brain. CNS Drugs, 2017, 31, 109-133.	2.7	304
761	Exosomes Generated From iPSC-Derivatives. Circulation Research, 2017, 120, 407-417.	2.0	140
762	Exosomes: Nanoparticulate tools for RNA interference and drug delivery. Journal of Cellular Physiology, 2017, 232, 1660-1668.	2.0	82
763	Application to Gene Therapy and Vaccination. , 2017, , 885-906.		0
764	Re-Engineering Extracellular Vesicles as Smart Nanoscale Therapeutics. ACS Nano, 2017, 11, 69-83.	7.3	432
765	Exosome-SIRPÎ±, a CD47 blockade increases cancer cell phagocytosis. Biomaterials, 2017, 121, 121-129.	5.7	263
766	Extracellular vesicles for nucleic acid delivery: progress and prospects for safe RNA-based gene therapy. Gene Therapy, 2017, 24, 157-166.	2.3	106
767	Distinct prostate cancer-related mRNA cargo in extracellular vesicle subsets from prostate cell lines. BMC Cancer, 2017, 17, 92.	1.1	45
768	Sex-dependent alteration of cardiac cytochrome P450 gene expression by doxorubicin in C57Bl/6 mice. Biology of Sex Differences, 2017, 8, 1.	1.8	35
769	Promoting tissue regeneration by modulating the immune system. Acta Biomaterialia, 2017, 53, 13-28.	4.1	537
770	<scp>RNA</scp> in extracellular vesicles. Wiley Interdisciplinary Reviews RNA, 2017, 8, e1413.	3.2	363

#	Article	IF	Citations
771	Extracellular vesicles and blood diseases. International Journal of Hematology, 2017, 105, 392-405.	0.7	42
772	Review: Extracellular Vesicles in Joint Inflammation. Arthritis and Rheumatology, 2017, 69, 1350-1362.	2.9	19
773	Dementia-like pathology in type-2 diabetes: A novel microRNA mechanism. Molecular and Cellular Neurosciences, 2017, 80, 58-65.	1.0	29
774	Non-invasive approaches for drug delivery to the brain based on the receptor mediated transport. Materials Science and Engineering C, 2017, 76, 1316-1327.	3.8	43
775	Exosomes as novel bio-carriers for gene and drug delivery. International Journal of Pharmaceutics, 2017, 521, 167-175.	2.6	252
776	TRAIL delivery by MSCâ€derived extracellular vesicles is an effective anticancer therapy. Journal of Extracellular Vesicles, 2017, 6, 1265291.	5.5	134
777	Using endogenous ligands for direct superparamagnetic nanoparticle cluster-based body fluid exosome separation. RSC Advances, 2017, 7, 2926-2933.	1.7	4
778	Obstacles and opportunities in the functional analysis of extracellular vesicle RNA â€“ an ISEV position paper. Journal of Extracellular Vesicles, 2017, 6, 1286095.	5.5	561
779	Pharmacokinetics of Exosomesâ€”An Important Factor for Elucidating the Biological Roles of Exosomes and for the Development of Exosome-Based Therapeutics. Journal of Pharmaceutical Sciences, 2017, 106, 2265-2269.	1.6	157
780	MicroRNA-17â€“92 Cluster in Exosomes Enhance Neuroplasticity and Functional Recovery After Stroke in Rats. Stroke, 2017, 48, 747-753.	1.0	424
781	The emerging role of exosome and microvesicle- (EMV-) based cancer therapeutics and immunotherapy. International Journal of Cancer, 2017, 141, 428-436.	2.3	67
782	Cell membrane-derived nanomaterials for biomedical applications. Biomaterials, 2017, 128, 69-83.	5.7	343
783	Virusâ€Mimetic Fusogenic Exosomes for Direct Delivery of Integral Membrane Proteins to Target Cell Membranes. Advanced Materials, 2017, 29, 1605604.	11.1	95
784	Targeted si-RNA with liposomes and exosomes (extracellular vesicles): How to unlock the potential. International Journal of Pharmaceutics, 2017, 525, 293-312.	2.6	35
785	The role of exosomes in CNS inflammation and their involvement in multiple sclerosis. Journal of Neuroimmunology, 2017, 306, 1-10.	1.1	97
786	Enrichment of selective miRNAs in exosomes and delivery of exosomal miRNAs in vitro and in vivo. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2017, 312, L110-L121.	1.3	219
787	Acridine Orange/exosomes increase the delivery and the effectiveness of Acridine Orange in human melanoma cells: A new prototype for theranostics of tumors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 648-657.	2.5	97
788	Secondary Release of Exosomes from Astrocytes Contributes to the Increase in Neural Plasticity and Improvement of Functional Recovery after Stroke in Rats Treated with Exosomes Harvested from MicroRNA 133b-Overexpressing Multipotent Mesenchymal Stromal Cells. Cell Transplantation, 2017, 26, 243-257.	1.2	210

#	Article	IF	Citations
789	Exosomes: Therapy delivery tools and biomarkers of diseases. , 2017, 174, 63-78.		761
790	Engineering exosomes as refined biological nanoplatforms for drug delivery. Acta Pharmacologica Sinica, 2017, 38, 754-763.	2.8	767
791	Responsive Nanocarriers as an Emerging Platform for Cascaded Delivery of Nucleic Acids to Cancer. Advanced Drug Delivery Reviews, 2017, 115, 98-114.	6.6	107
792	Functional Delivery of Lipid-Conjugated siRNA by Extracellular Vesicles. Molecular Therapy, 2017, 25, 1580-1587.	3.7	145
793	Lewy body dementia. , 2017, , 175-198.		2
794	Engineered Exosomes as Vehicles for Biologically Active Proteins. Molecular Therapy, 2017, 25, 1269-1278.	3.7	244
795	Urinary extracellular vesicles. A promising shortcut to novel biomarker discoveries. Cell and Tissue Research, 2017, 369, 217-227.	1.5	35
796	Affinity biosensors using recombinant native membrane proteins displayed on exosomes: application to botulinum neurotoxin B receptor. Scientific Reports, 2017, 7, 1032.	1.6	21
797	Cell-Derived Microparticles/Exosomes in Neuroinflammation. , 2017, , 139-159.		1
798	Ticket to Ride: Targeting Proteins to Exosomes for Brain Delivery. Molecular Therapy, 2017, 25, 1264-1266.	3.7	11
799	Therapeutic targeting strategies using endogenous cells and proteins. Journal of Controlled Release, 2017, 258, 81-94.	4.8	31
800	Curcumin Encapsulated in Milk Exosomes Resists Human Digestion and Possesses Enhanced Intestinal Permeability in Vitro. Applied Biochemistry and Biotechnology, 2017, 183, 993-1007.	1.4	148
801	Lipid vesicles in pulsed electric fields: Fundamental principles of the membrane response and its biomedical applications. Advances in Colloid and Interface Science, 2017, 249, 248-271.	7.0	64
802	Roles of exosomes in the normal and diseased eye. Progress in Retinal and Eye Research, 2017, 59, 158-177.	7.3	126
803	Imaging and Therapeutic Potential of Extracellular Vesicles. , 2017, , 43-68.		8
804	Sphingolipid-Enriched Extracellular Vesicles and Alzheimerâ€™s Disease: A Decade of Research. Journal of Alzheimer's Disease, 2017, 60, 757-768.	1.2	55
805	Extracellular vesicles at the crossâ€line between basic science and clinical needs. Microcirculation, 2017, 24, e12333.	1.0	4
806	Cooperative tumour cell membrane targeted phototherapy. Nature Communications, 2017, 8, 15880.	5.8	42

#	Article	IF	Citations
807	Targeting the Central Nervous System (CNS): A Review of Rabies Virus-Targeting Strategies. Molecular Pharmaceutics, 2017, 14, 2177-2196.	2.3	51
808	siRNA delivery using polyelectrolyte-gold nanoassemblies in neuronal cells for BACE1 gene silencing. Materials Science and Engineering C, 2017, 80, 18-28.	3.8	15
809	Exosome Mediated Delivery of miR-124 Promotes Neurogenesis after Ischemia. Molecular Therapy - Nucleic Acids, 2017, 7, 278-287.	2.3	416
810	Exosomes in Cardiovascular Medicine. Cardiology and Therapy, 2017, 6, 225-237.	1.1	21
811	Exosomes as Reconfigurable Therapeutic Systems. Trends in Molecular Medicine, 2017, 23, 636-650.	3.5	175
812	MicroRNA and chronic pain: From mechanisms to therapeutic potential. , 2017, 180, 1-15.		94
813	Exosomes facilitate therapeutic targeting of oncogenic KRAS in pancreatic cancer. Nature, 2017, 546, 498-503.	13.7	1,731
814	A Systematic Evaluation of Factors Affecting Extracellular Vesicle Uptake by Breast Cancer Cells. Tissue Engineering - Part A, 2017, 23, 1274-1282.	1.6	24
817	Exosomes: New Biomarkers for Targeted Cancer Therapy. , 2017, , 129-157.		7
819	Molecular Recognition-Based DNA Nanoassemblies on the Surfaces of Nanosized Exosomes. Journal of the American Chemical Society, 2017, 139, 5289-5292.	6.6	175
820	Glycoconjugates from extracellular vesicles: Structures, functions and emerging potential as cancer biomarkers. Biochimica Et Biophysica Acta: Reviews on Cancer, 2017, 1868, 157-166.	3.3	49
821	Quercetin nanoparticles display antitumor activity via proliferation inhibition and apoptosis induction in liver cancer cells. International Journal of Oncology, 2017, 50, 1299-1311.	1.4	118
822	Extracellular vesicles â€“ A promising avenue for the detection and treatment of infectious diseases?. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 118, 56-61.	2.0	46
824	Exosomes: The Next Small Thing. Cancer Drug Discovery and Development, 2017, , 139-155.	0.2	0
825	Emerging applications of exosomes in cancer therapeutics and diagnostics. Bioengineering and Translational Medicine, 2017, 2, 70-80.	3.9	60
826	Polyomavirus microRNAs circulating in biological fluids during viral persistence. Reviews in Medical Virology, 2017, 27, e1927.	3.9	24
827	Stem cells and necrotizing enterocolitis: A direct comparison of the efficacy of multiple types of stem cells. Journal of Pediatric Surgery, 2017, 52, 999-1005.	0.8	45
828	Achieving the Promise of Therapeutic Extracellular Vesicles: The Devil is in Details of Therapeutic Loading. Pharmaceutical Research, 2017, 34, 1053-1066.	1.7	94

#	Article	IF	Citations
829	Size-Selective Harvesting of Extracellular Vesicles for Strategic Analyses Towards Tumor Diagnoses. Applied Biochemistry and Biotechnology, 2017, 182, 609-623.	1.4	15
830	Extracellular vesicle mimetics: Novel alternatives to extracellular vesicle-based theranostics, drug delivery, and vaccines. Seminars in Cell and Developmental Biology, 2017, 67, 74-82.	2.3	63
831	Magnetic and Folate Functionalization Enables Rapid Isolation and Enhanced Tumor-Targeting of Cell-Derived Microvesicles. ACS Nano, 2017, 11, 277-290.	7.3	130
832	Exosomes and Neuroregulation. , 2017, , 313-328.		0
833	Exosomes in Parkinsonâ€™s Disease. Neuroscience Bulletin, 2017, 33, 331-338.	1.5	97
834	A brief review of exosomes and their roles in cancer. Meta Gene, 2017, 11, 70-74.	0.3	18
835	Exosomes and Microvesicles. Methods in Molecular Biology, 2017, , .	0.4	10
836	Maternal exosomes in diabetes contribute to the cardiac development deficiency. Biochemical and Biophysical Research Communications, 2017, 483, 602-608.	1.0	51
837	Exosomes from iPSCs Delivering siRNA Attenuate Intracellular Adhesion Molecule-1 Expression and Neutrophils Adhesion in Pulmonary Microvascular Endothelial Cells. Inflammation, 2017, 40, 486-496.	1.7	56
838	Preparation and Isolation of siRNA-Loaded Extracellular Vesicles. Methods in Molecular Biology, 2017, 1545, 197-204.	0.4	6
839	Imaging and Quantification of Extracellular Vesicles by Transmission Electron Microscopy. Methods in Molecular Biology, 2017, 1545, 43-54.	0.4	49
840	Diagnostic and Therapeutic Potential of Exosomes in Cancer: The Beginning of a New Tale?. Journal of Cellular Physiology, 2017, 232, 3251-3260.	2.0	107
841	Endothelial miRNAs as Cellular Messengers in Cardiometabolic Diseases. Trends in Endocrinology and Metabolism, 2017, 28, 237-246.	3.1	32
842	Exosomal microRNA signatures in multiple sclerosis reflect disease status. Scientific Reports, 2017, 7, 14293.	1.6	196
843	Survival Motor Neuron Protein is Released from Cells in Exosomes: A Potential Biomarker for Spinal Muscular Atrophy. Scientific Reports, 2017, 7, 13859.	1.6	13
844	Enhanced Class I Tumor Antigen Presentation via Cytosolic Delivery of Exosomal Cargos by Tumor-Cell-Derived Exosomes Displaying a pH-Sensitive Fusogenic Peptide. Molecular Pharmaceutics, 2017, 14, 4079-4086.	2.3	61
845	Molecular Regulation of Cellular Senescence by MicroRNAs: Implications in Cancer and Age-Related Diseases. International Review of Cell and Molecular Biology, 2017, 334, 27-98.	1.6	16
846	Therapeutic application of extracellular vesicles in kidney disease: promises and challenges. Journal of Cellular and Molecular Medicine, 2018, 22, 728-737.	1.6	62

#	Article	IF	Citations
847	Can memory exist outside of brain and be transferred? Historical review, issues & ways forward. Medical Hypotheses, 2017, 109, 106-110.	0.8	1
848	Recent advances in exosome-based nanovehicles as RNA interference therapeutic carriers. Nanomedicine, 2017, 12, 2653-2675.	1.7	58
849	Cardiac Progenitor-Cell Derived Exosomes as Cell-Free Therapeutic for Cardiac Repair. Advances in Experimental Medicine and Biology, 2017, 998, 207-219.	0.8	20
850	Extracellular vesicles as an efficient nanoplatform for the delivery of therapeutics. Human Vaccines and Immunotherapeutics, 2017, 13, 2678-2687.	1.4	24
851	Extended Concerted Rotation Technique Enhances the Sampling Efficiency of the Computational Peptide-Design Algorithm. Journal of Chemical Theory and Computation, 2017, 13, 5709-5720.	2.3	12
852	Extracellular vesicles as emerging targets in cancer: Recent development from bench to bedside. Biochimica Et Biophysica Acta: Reviews on Cancer, 2017, 1868, 538-563.	3.3	109
853	Ethanol Induces Enhanced Vascularization Bioactivity of Endothelial Cell-Derived Extracellular Vesicles via Regulation of MicroRNAs and Long Non-Coding RNAs. Scientific Reports, 2017, 7, 13794.	1.6	52
854	Mesenchymal stem cell-derived extracellular vesicles: a glimmer of hope in treating Alzheimerâ€™s disease. International Immunology, 2017, 29, 11-19.	1.8	67
855	Stem cell-derived exosomes: a novel vector for tissue repair and diabetic therapy. Journal of Molecular Endocrinology, 2017, 59, R155-R165.	1.1	36
856	Noncoding RNAs in neurodegeneration. Nature Reviews Neuroscience, 2017, 18, 627-640.	4.9	121
857	Cancer-derived exosomes as a delivery platform of CRISPR/Cas9 confer cancer cell tropism-dependent targeting. Journal of Controlled Release, 2017, 266, 8-16.	4.8	319
858	Cellular uptake of extracellular vesicles is mediated by clathrin-independent endocytosis and macropinocytosis. Journal of Controlled Release, 2017, 266, 100-108.	4.8	320
859	Therapies targeting DNA and RNA in Huntington's disease. Lancet Neurology, The, 2017, 16, 837-847.	4.9	233
860	The use of RGD-engineered exosomes for enhanced targeting ability and synergistic therapy toward angiogenesis. Nanoscale, 2017, 9, 15598-15605.	2.8	108
861	Exosomes Derived from Embryonic Stem Cells as Potential Treatment for Cardiovascular Diseases. Advances in Experimental Medicine and Biology, 2017, 998, 187-206.	0.8	13
862	Exosomes: Outlook for Future Cell-Free Cardiovascular Disease Therapy. Advances in Experimental Medicine and Biology, 2017, 998, 285-307.	0.8	14
863	Treating the placenta to prevent adverse effects of gestational hypoxia on fetal brain development. Scientific Reports, 2017, 7, 9079.	1.6	76
864	Exosomes as new players in metabolic organ crossâ€talk. Diabetes, Obesity and Metabolism, 2017, 19, 137-146.	2.2	169

#	Article	IF	Citations
865	Therapeutic Role and Drug Delivery Potential of Neuroinflammation as a Target in Neurodegenerative Disorders. ACS Chemical Neuroscience, 2017, 8, 1645-1655.	1.7	16
866	Fructose-1,6-bisphosphate and aldolase mediate glucose sensing by AMPK. Nature, 2017, 548, 112-116.	13.7	469
867	Low active loading of cargo into engineered extracellular vesicles results in inefficient miRNA mimic delivery. Journal of Extracellular Vesicles, 2017, 6, 1333882.	5.5	65
868	Mesenchymal stem/stromal cell extracellular vesicles: From active principle to next generation drug delivery system. Journal of Controlled Release, 2017, 262, 104-117.	4.8	121
869	Natural extracellular nanovesicles and photodynamic molecules: is there a future for drug delivery?. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 908-916.	2.5	44
870	Extracellular vesicles in renal disease. Nature Reviews Nephrology, 2017, 13, 545-562.	4.1	238
871	Recent advances on extracellular vesicles in therapeutic delivery: Challenges, solutions, and opportunities. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 119, 381-395.	2.0	45
873	Dual Tumor-Targeting Nanocarrier System for siRNA Delivery Based on pRNA and Modified Chitosan. Molecular Therapy - Nucleic Acids, 2017, 8, 169-183.	2.3	26
874	Chemically Edited Exosomes with Dual Ligand Purified by Microfluidic Device for Active Targeted Drug Delivery to Tumor Cells. ACS Applied Materials & Interfaces, 2017, 9, 27441-27452.	4.0	167
875	Functional integration of complex miRNA networks in central and peripheral lesion and axonal regeneration. Progress in Neurobiology, 2017, 158, 69-93.	2.8	40
876	Phase-Separated Liposomes Enhance the Efficiency of Macromolecular Delivery to the Cellular Cytoplasm. Cellular and Molecular Bioengineering, 2017, 10, 387-403.	1.0	29
877	Receptor Targeted Polymeric Nanostructures Capable of Navigating across the Blood-Brain Barrier for Effective Delivery of Neural Therapeutics. ACS Chemical Neuroscience, 2017, 8, 2105-2117.	1.7	14
879	Biological roles and potential applications of immune cellâ€derived extracellular vesicles. Journal of Extracellular Vesicles, 2017, 6, 1400370.	5.5	127
880	Effects of exosome on the activation of CD4+ T cells in rhesus macaques: a potential application for HIV latency reactivation. Scientific Reports, 2017, 7, 15611.	1.6	31
881	Extracellular Vesicles in Neurodegenerative Diseases: A Double-Edged Sword. Tissue Engineering and Regenerative Medicine, 2017, 14, 667-678.	1.6	34
882	The Role of MicroRNA in Traumatic Brain Injury. Neuroscience, 2017, 367, 189-199.	1.1	70
883	Exosomes: promising sacks for treating ischemic heart disease?. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 313, H508-H523.	1.5	27
884	Immunometabolism of human autoimmune diseases: from metabolites to extracellular vesicles. FEBS Letters, 2017, 591, 3119-3134.	1.3	13

#	Article	IF	Citations
885	Anionic liposomes for small interfering ribonucleic acid (siRNA) delivery to primary neuronal cells: Evaluation of alpha-synuclein knockdown efficacy. Nano Research, 2017, 10, 3496-3508.	5.8	27
886	Macrophage exosomes as natural nanocarriers for protein delivery to inflamed brain. Biomaterials, 2017, 142, 1-12.	5.7	411
887	Extracellular vesicles: Novel promising delivery systems for therapy of brain diseases. Journal of Controlled Release, 2017, 262, 247-258.	4.8	298
888	Comprehensive toxicity and immunogenicity studies reveal minimal effects in mice following sustained dosing of extracellular vesicles derived from HEK293T cells. Journal of Extracellular Vesicles, 2017, 6, 1324730.	5.5	357
889	Exosomes: New players in cancer. Oncology Reports, 2017, 38, 665-675.	1.2	122
891	Extracellular vesicles mediate intercellular communication: Transfer of functionally active microRNAs by microvesicles into phagocytes. European Journal of Immunology, 2017, 47, 1535-1549.	1.6	35
892	Targeting dendritic cells for the treatment of autoimmune disorders. Colloids and Surfaces B: Biointerfaces, 2017, 158, 237-248.	2.5	20
893	The emergent role of exosomes in glioma. Journal of Clinical Neuroscience, 2017, 35, 13-23.	0.8	115
894	Two distinct extracellular RNA signatures released by a single cell type identified by microarray and next-generation sequencing. RNA Biology, 2017, 14, 58-72.	1.5	111
895	Next generation drug delivery: circulatory cells-mediated nanotherapeutic approaches. Expert Opinion on Drug Delivery, 2017, 14, 285-289.	2.4	54
896	Extracellular Vesicles: Novel Mediators of Cell Communication In Metabolic Disease. Trends in Endocrinology and Metabolism, 2017, 28, 3-18.	3.1	268
897	Exosomes: mobile platforms for targeted and synergistic signaling across cell boundaries. Cellular and Molecular Life Sciences, 2017, 74, 1567-1576.	2.4	55
898	Nanobiotechnology: Cell membrane-based delivery systems. Nano Today, 2017, 13, 7-9.	6.2	92
899	Spitting out the demons: Extracellular vesicles in glioblastoma. Cell Adhesion and Migration, 2017, 11, 164-172.	1.1	32
900	Non-viral nucleic acid delivery methods. Expert Opinion on Biological Therapy, 2017, 17, 105-118.	1.4	59
901	Exosomes in immunoregulation of chronic lung diseases. Allergy: European Journal of Allergy and Clinical Immunology, 2017, 72, 534-544.	2.7	67
902	Bioresponsive materials. Nature Reviews Materials, 2017, 2, .	23.3	1,117
903	Stem Cell Extracellular Vesicles: Extended Messages of Regeneration. Annual Review of Pharmacology and Toxicology, 2017, 57, 125-154.	4.2	223

#	Article	IF	Citations
904	Next-generation sequencing-based small RNA profiling of cerebrospinal fluid exosomes. Neuroscience Letters, 2017, 636, 48-57.	1.0	93
905	Receptor clustering and activation by multivalent interaction through recognition peptides presented on exosomes. Chemical Communications, 2017, 53, 317-320.	2.2	41
906	Systemic administration of cell-free exosomes generated by human bone marrow derived mesenchymal stem cells cultured under 2D and 3D conditions improves functional recovery in rats after traumatic brain injury. Neurochemistry International, 2017, 111, 69-81.	1.9	290
907	Extracellular vesicles swarm the cancer microenvironment: from tumorâ€“stroma communication to drug intervention. Oncogene, 2017, 36, 877-884.	2.6	117
908	Role of Phosphatidylserine-Derived Negative Surface Charges in the Recognition and Uptake of Intravenously Injected B16BL6-Derived Exosomes by Macrophages. Journal of Pharmaceutical Sciences, 2017, 106, 168-175.	1.6	145
909	The role of extracellular vesicles in neurodegenerative diseases. Biochemical and Biophysical Research Communications, 2017, 483, 1178-1186.	1.0	147
910	Peptides as a therapeutic avenue for nanocarrier-aided targeting of glioma. Expert Opinion on Drug Delivery, 2017, 14, 811-824.	2.4	27
911	Cell type-specific and common characteristics of exosomes derived from mouse cell lines: Yield, physicochemical properties, and pharmacokinetics. European Journal of Pharmaceutical Sciences, 2017, 96, 316-322.	1.9	196
912	Construction of Conveniently Screening pLKO.1-TRC Vector Tagged with TurboGFP. Applied Biochemistry and Biotechnology, 2017, 181, 699-709.	1.4	7
913	The Yin and Yang of nucleic acid-based therapy in the brain. Progress in Neurobiology, 2017, 155, 194-211.	2.8	22
914	Delivery of Small Interfering RNA to Inhibit Vascular Endothelial Growth Factor in Zebrafish Using Natural Brain Endothelia Cell-Secreted Exosome Nanovesicles for the Treatment of Brain Cancer. AAPS Journal, 2017, 19, 475-486.	2.2	154
915	Extracellular Vesicles: Immunomodulatory messengers in the context of tissue repair/regeneration. European Journal of Pharmaceutical Sciences, 2017, 98, 86-95.	1.9	87
916	Can dendrimer based nanoparticles fight neurodegenerative diseases? Current situation versus other established approaches. Progress in Polymer Science, 2017, 64, 23-51.	11.8	54
917	miRNA-Mediated Regulation of Adult Hippocampal Neurogenesis; Implications for Epilepsy. Brain Plasticity, 2017, 3, 43-59.	1.9	33
918	Endothelial- and Immune Cell-Derived Extracellular Vesicles in the Regulation ofÂCardiovascular Health and Disease. JACC Basic To Translational Science, 2017, 2, 790-807.	1.9	104
919	Decoding the role of extracellular vesicles in liver diseases. Liver Research, 2017, 1, 147-155.	0.5	21
920	SELEX-Based Screening of Exosome-Tropic RNA. Biological and Pharmaceutical Bulletin, 2017, 40, 2140-2145.	0.6	9
921	A Critical Assessment of Exosomes in the Pathogenesis and Stratification of Parkinsonâ€™s Disease. Journal of Parkinson's Disease, 2017, 7, 569-576.	1.5	60

#	Article	IF	Citations
922	RNAi mechanisms in Huntingtonâ€™s disease therapy: siRNA versus shRNA. Translational Neurodegeneration, 2017, 6, 30.	3.6	47
923	Animal Models in Exosomes Research: What the Future Holds. , 0, , .		4
924	Crossâ€Talk Between Hypoxia and the Tumour via Exosomes. , 2017, , .		0
926	Replenishing exosomes from older bone marrow stromal cells with miR-340 inhibits myeloma-related angiogenesis. Blood Advances, 2017, 1, 812-823.	2.5	75
927	DNA sequences within glioma-derived extracellular vesicles can cross the intact blood-brain barrier and be detected in peripheral blood of patients. Oncotarget, 2017, 8, 1416-1428.	0.8	193
928	Exosome-Based Cancer Therapy: Implication for Targeting Cancer Stem Cells. Frontiers in Pharmacology, 2016, 7, 533.	1.6	160
929	Interleukin 3- receptor targeted exosomes inhibit in vitro and in vivo Chronic Myelogenous Leukemia cell growth. Theranostics, 2017, 7, 1333-1345.	4.6	266
930	Progress in Exosome Isolation Techniques. Theranostics, 2017, 7, 789-804.	4.6	1,279
931	Ginsenoside Rg3 Prevents Oxidative Stress-Induced Astrocytic Senescence and Ameliorates Senescence Paracrine Effects on Glioblastoma. Molecules, 2017, 22, 1516.	1.7	33
932	microRNAs in Parkinsonâ€™s Disease: From Pathogenesis to Novel Diagnostic and Therapeutic Approaches. International Journal of Molecular Sciences, 2017, 18, 2698.	1.8	170
933	Regulation of T Cell Activation and Differentiation by Extracellular Vesicles and Their Pathogenic Role in Systemic Lupus Erythematosus and Multiple Sclerosis. Molecules, 2017, 22, 225.	1.7	19
934	Development of Cell-Specific Aptamers: Recent Advances and Insight into the Selection Procedures. Molecules, 2017, 22, 2070.	1.7	35
935	Vesiculated Long Non-Coding RNAs: Offshore Packages Deciphering Trans-Regulation between Cells, Cancer Progression and Resistance to Therapies. Non-coding RNA, 2017, 3, 10.	1.3	115
936	Polymeric Nanoparticles in Targeting and Delivery of Drugs. , 2017, , 223-255.		12
937	Exosomes, an Unmasked Culprit in Neurodegenerative Diseases. Frontiers in Neuroscience, 2017, 11, 26.	1.4	110
938	Pulmonary Extracellular Vesicles as Mediators of Local and Systemic Inflammation. Frontiers in Cell and Developmental Biology, 2017, 5, 39.	1.8	61
939	Plant MicroRNAsâ€”Novel Players in Natural Medicine?. International Journal of Molecular Sciences, 2017, 18, 9.	1.8	76
940	Exosomes: From Garbage Bins to Promising Therapeutic Targets. International Journal of Molecular Sciences, 2017, 18, 538.	1.8	371

#	Article	IF	Citations
941	Extracellular Vesicles as Therapeutic Agents in Systemic Lupus Erythematosus. International Journal of Molecular Sciences, 2017, 18, 717.	1.8	49
942	Extracellular Vesicles as Protagonists of Diabetic Cardiovascular Pathology. Frontiers in Cardiovascular Medicine, 2017, 4, 71.	1.1	39
943	Platelet-Derived Microvesicles in Cardiovascular Diseases. Frontiers in Cardiovascular Medicine, 2017, 4, 74.	1.1	120
944	Cross Talk between Adipose Tissue and Placenta in Obese and Gestational Diabetes Mellitus Pregnancies via Exosomes. Frontiers in Endocrinology, 2017, 8, 239.	1.5	78
945	New Insight into Inter-kingdom Communication: Horizontal Transfer of Mobile Small RNAs. Frontiers in Microbiology, 2017, 8, 768.	1.5	45
946	Plasma Exosomes Spread and Cluster Around Î²-Amyloid Plaques in an Animal Model of Alzheimerâ€™s Disease. Frontiers in Aging Neuroscience, 2017, 9, 12.	1.7	57
947	NeurimmiRs and Postoperative Delirium in Elderly Patients Undergoing Total Hip/Knee Replacement: A Pilot Study. Frontiers in Aging Neuroscience, 2017, 9, 200.	1.7	8
948	Perspective Insights of Exosomes in Neurodegenerative Diseases: A Critical Appraisal. Frontiers in Aging Neuroscience, 2017, 9, 317.	1.7	79
949	miRNA in Circulating Microvesicles as Biomarkers for Age-Related Cognitive Decline. Frontiers in Aging Neuroscience, 2017, 9, 323.	1.7	64
950	MSCs-Derived Exosomes and Neuroinflammation, Neurogenesis and Therapy of Traumatic Brain Injury. Frontiers in Cellular Neuroscience, 2017, 11, 55.	1.8	168
951	Exosomes: Origins and Therapeutic Potential for Neurodegenerative Disease. Frontiers in Neuroscience, 2017, 11, 82.	1.4	125
952	Exosomes and the Prion Protein: More than One Truth. Frontiers in Neuroscience, 2017, 11, 194.	1.4	60
953	Exosomes as Carriers of Alzheimer's Amyloid-ÃŸ. Frontiers in Neuroscience, 2017, 11, 229.	1.4	78
954	Plasma Extracellular Vesicles Enriched for Neuronal Origin: A Potential Window into Brain Pathologic Processes. Frontiers in Neuroscience, 2017, 11, 278.	1.4	299
955	Extracellular Vesicles in Brain Tumors and Neurodegenerative Diseases. Frontiers in Molecular Neuroscience, 2017, 10, 276.	1.4	87
956	Preclinical Modeling and Therapeutic Avenues for Cancer Metastasis to the Central Nervous System. Frontiers in Oncology, 2017, 7, 220.	1.3	3
958	Tumor-Related Exosomes Contribute to Tumor-Promoting Microenvironment: An Immunological Perspective. Journal of Immunology Research, 2017, 2017, 1-10.	0.9	82
959	Potential Role of Exosomes in Mending a Broken Heart: Nanoshuttles Propelling Future Clinical Therapeutics Forward. Stem Cells International, 2017, 2017, 1-14.	1.2	42

#	Article	IF	Citations
960	Focus on Mesenchymal Stem Cell-Derived Exosomes: Opportunities and Challenges in Cell-Free Therapy. Stem Cells International, 2017, 2017, 1-10.	1.2	126
961	Delivery of Biomolecules via Extracellular Vesicles. Advances in Genetics, 2017, 98, 155-175.	0.8	20
962	The Contribution ofÎ±-Synuclein Spreading to Parkinsonâ€™s Disease Synaptopathy. Neural Plasticity, 2017, 2017, 1-15.	1.0	70
963	Potential Roles of Exosomal MicroRNAs as Diagnostic Biomarkers and Therapeutic Application in Alzheimerâ€™s Disease. Neural Plasticity, 2017, 2017, 1-12.	1.0	89
964	Alzheimer. , 2017, , 227-239.		1
965	Pseudotyping exosomes for enhanced protein delivery in mammalian cells. International Journal of Nanomedicine, 2017, Volume 12, 3153-3170.	3.3	92
966	Human menstrual blood-derived mesenchymal stem cells as a cellular vehicle for malignant glioma gene therapy. Oncotarget, 2017, 8, 58309-58321.	0.8	22
967	Targeting the long noncoding RNA MALAT1 blocks the pro-angiogenic effects of osteosarcoma and suppresses tumour growth. International Journal of Biological Sciences, 2017, 13, 1398-1408.	2.6	43
968	Nucleolin-targeted Extracellular Vesicles as a Versatile Platform for Biologics Delivery to Breast Cancer. Theranostics, 2017, 7, 1360-1372.	4.6	141
969	Nano-Delivery in Pediatric Tumors: Looking Back, Moving Forward. Anti-Cancer Agents in Medicinal Chemistry, 2017, 17, 1328-1343.	0.9	5
970	A comprehensive overview of exosomes in ovarian cancer: emerging biomarkers and therapeutic strategies. Journal of Ovarian Research, 2017, 10, 73.	1.3	63
971	The small vesicular culprits: the investigation of extracellular vesicles as new targets for cancer treatment. Clinical and Translational Medicine, 2017, 6, 45.	1.7	29
972	Enhanced exosome secretion in Down syndrome brain - a protective mechanism to alleviate neuronal endosomal abnormalities. Acta Neuropathologica Communications, 2017, 5, 65.	2.4	85
973	Loading of Extracellular Vesicles with Chemically Stabilized Hydrophobic siRNAs for the Treatment of Disease in the Central Nervous System. Bio-protocol, 2017, 7, .	0.2	9
974	Challenges and Advances in Gene Therapy Approaches for Neurodegenerative Disorders. Current Gene Therapy, 2017, 17, 187-193.	0.9	9
975	Microvesicles Released from Human Red Blood Cells: Properties and Potential Applications. , 2017, , .		2
976	Extracellular microRNAs as messengers in the central and peripheral nervous system. Neuronal Signaling, 2017, 1, NS20170112.	1.7	12
977	Exosomes and Metabolic Diseases. Journal of Metabolic Syndrome, 2017, 06, .	0.1	0

#	Article	IF	Citations
978	Extracellular Vesicles From Mesenchymal Stem Cells and Their Potential in Tumor Therapy. , 2017, , 521-549.		0
979	Extracellular vesicles and cardiovascular disease therapy. Stem Cell Investigation, 2017, 4, 102-102.	1.3	19
980	Engineering of extracellular vesicles as drug delivery vehicles. Stem Cell Investigation, 2017, 4, 74-74.	1.3	54
981	Recent Advances of Membrane-Cloaked Nanoplatforms for Biomedical Applications. Bioconjugate Chemistry, 2018, 29, 838-851.	1.8	49
982	ARMMs as a versatile platform for intracellular delivery of macromolecules. Nature Communications, 2018, 9, 960.	5.8	140
983	Engineering Extracellular Vesicles with the Tools of Enzyme Prodrug Therapy. Advanced Materials, 2018, 30, e1706616.	11.1	77
984	Anti-HER2 scFv-Directed Extracellular Vesicle-Mediated mRNA-Based Gene Delivery Inhibits Growth of HER2-Positive Human Breast Tumor Xenografts by Prodrug Activation. Molecular Cancer Therapeutics, 2018, 17, 1133-1142.	1.9	107
985	Extracellular vesicles as a platform for membraneâ€associated therapeutic protein delivery. Journal of Extracellular Vesicles, 2018, 7, 1440131.	5.5	168
986	Biocompatibility of highly purified bovine milkâ€derived extracellular vesicles. Journal of Extracellular Vesicles, 2018, 7, 1440132.	5.5	168
987	Scalable, cGMPâ€compatible purification of extracellular vesicles carrying bioactive human heterodimeric ILâ€15/lactadherin complexes. Journal of Extracellular Vesicles, 2018, 7, 1442088.	5.5	106
988	Exosomes Transfer p53 between Cells and Can Suppress Growth and Proliferation of p53-Negative Cells. Cell and Tissue Biology, 2018, 12, 20-26.	0.2	12
989	Targeting Inflammatory Vasculature by Extracellular Vesicles. AAPS Journal, 2018, 20, 37.	2.2	19
990	Placental exosomes profile in maternal and fetal circulation in intrauterine growth restriction - Liquid biopsies to monitoring fetal growth. Placenta, 2018, 64, 34-43.	0.7	95
991	Establishment of the HeLa Cell Line with Stable Expression of CD63 Exosome Marker Fused with Fluorescent Protein TagRFP and HTBH Tag. Cell and Tissue Biology, 2018, 12, 146-152.	0.2	3
992	Delivery systems for theranostics in neurodegenerative diseases. Nano Research, 2018, 11, 5535-5555.	5.8	29
993	Extracellular vesicles: pathogenetic, diagnostic and therapeutic value in traumatic brain injury. Expert Review of Proteomics, 2018, 15, 451-461.	1.3	34
994	Systemic delivery of BACE1 siRNA through neuron-targeted nanocomplexes for treatment of Alzheimer's disease. Journal of Controlled Release, 2018, 279, 220-233.	4.8	86
995	Noncoding RNAs in ischemic stroke: time to translate. Annals of the New York Academy of Sciences, 2018, 1421, 19-36.	1.8	41

#	Article	IF	Citations
996	Exosome: Function and Role in Cancer Metastasis and Drug Resistance. Technology in Cancer Research and Treatment, 2018, 17, 153303381876345.	0.8	99
997	Molecular interactions at the surface of extracellular vesicles. Seminars in Immunopathology, 2018, 40, 453-464.	2.8	230
998	Exosomes in Acquired Neurological Disorders: New Insights into Pathophysiology and Treatment. Molecular Neurobiology, 2018, 55, 9280-9293.	1.9	86
999	Exosome Therapy for Stroke. Stroke, 2018, 49, 1083-1090.	1.0	116
1000	Extracellular vesicles in mesenchymal stromal cells: A novel therapeutic strategy for stroke (Review). Experimental and Therapeutic Medicine, 2018, 15, 4067-4079.	0.8	37
1001	Nanomedicine Approaches Against Parasitic Worm Infections. Advanced Healthcare Materials, 2018, 7, e1701494.	3.9	12
1002	Designer exosomes produced by implanted cells intracerebrally deliver therapeutic cargo for Parkinsonâ€™s disease treatment. Nature Communications, 2018, 9, 1305.	5.8	451
1003	Targeting Alzheimer's disease with gene and cell therapies. Journal of Internal Medicine, 2018, 284, 2-36.	2.7	42
1004	Extracellular vesicles and their immunomodulatory functions in pregnancy. Seminars in Immunopathology, 2018, 40, 425-437.	2.8	82
1005	Exosomes separated based on the â€œSTOPâ€•criteria for tumor-targeted drug delivery. Journal of Materials Chemistry B, 2018, 6, 2758-2768.	2.9	13
1006	Liposome-chaperoned cell-free synthesis for the design of proteoliposomes: Implications for therapeutic delivery. Acta Biomaterialia, 2018, 76, 1-20.	4.1	24
1007	Cardiac-specific delivery by cardiac tissue-targeting peptide-expressing exosomes. Biochemical and Biophysical Research Communications, 2018, 499, 803-808.	1.0	101
1008	siRNA delivery for treatment of degenerative diseases, new hopes and challenges. Journal of Drug Delivery Science and Technology, 2018, 45, 428-441.	1.4	21
1009	Therapeutics incorporating blood constituents. Acta Biomaterialia, 2018, 73, 64-80.	4.1	6
1010	Role of Exosomes Derived from miR-133b Modified MSCs in an Experimental Rat Model of Intracerebral Hemorrhage. Journal of Molecular Neuroscience, 2018, 64, 421-430.	1.1	82
1011	Subpopulations of extracellular vesicles and their therapeutic potential. Molecular Aspects of Medicine, 2018, 60, 1-14.	2.7	139
1012	Extracellular vesicle therapeutics for liver disease. Journal of Controlled Release, 2018, 273, 86-98.	4.8	88
1013	Exosomes and regenerative medicine: state of the art and perspectives. Translational Research, 2018, 196, 1-16.	2.2	107

#	Article	IF	Citations
1014	Extracellular Vesicles in Human Reproduction in Health and Disease. Endocrine Reviews, 2018, 39, 292-332.	8.9	146
1015	Dual Roles of Graphene Oxide To Attenuate Inflammation and Elicit Timely Polarization of Macrophage Phenotypes for Cardiac Repair. ACS Nano, 2018, 12, 1959-1977.	7.3	184
1016	MicroRNA-Based Drugs for Brain Tumors. Trends in Cancer, 2018, 4, 222-238.	3.8	54
1017	Goldâ€"carbon dots for the intracellular imaging of cancer-derived exosomes. Nanotechnology, 2018, 29, 175701.	1.3	42
1018	The extracellular vesiclesâ€derived from mesenchymal stromal cells: A new therapeutic option in regenerative medicine. Journal of Cellular Biochemistry, 2018, 119, 8048-8073.	1.2	87
1020	Exosomeâ€"Liposome Hybrid Nanoparticles Deliver CRISPR/Cas9 System in MSCs. Advanced Science, 2018, 5, 1700611.	5.6	373
1022	Milk-derived Extracellular Vesicles for Therapeutic Delivery of Small Interfering RNAs. Methods in Molecular Biology, 2018, 1740, 187-197.	0.4	21
1023	Loading of Extracellular Vesicles with Hydrophobically Modified siRNAs. Methods in Molecular Biology, 2018, 1740, 199-214.	0.4	13
1024	Enrichment of Extracellular Vesicle Subpopulations Via Affinity Chromatography. Methods in Molecular Biology, 2018, 1740, 109-124.	0.4	12
1025	Role of Extracellular Vesicle Surface Proteins in the Pharmacokinetics of Extracellular Vesicles. Molecular Pharmaceutics, 2018, 15, 1073-1080.	2.3	80
1027	Shedding light on the cell biology of extracellular vesicles. Nature Reviews Molecular Cell Biology, 2018, 19, 213-228.	16.1	5,024
1028	Recombinant phosphatidylserine-binding nanobodies for targeting of extracellular vesicles to tumor cells: a plug-and-play approach. Nanoscale, 2018, 10, 2413-2426.	2.8	110
1029	Therapeutic biomaterials based on extracellular vesicles: classification of bioâ€engineering and mimetic preparation routes. Journal of Extracellular Vesicles, 2018, 7, 1422676.	5.5	128
1030	Nanotechnology-Based Strategies for siRNA Brain Delivery for Disease Therapy. Trends in Biotechnology, 2018, 36, 562-575.	4.9	139
1031	Exosomal cargo-loading and synthetic exosome-mimics as potential therapeutic tools. Acta Pharmacologica Sinica, 2018, 39, 542-551.	2.8	269
1032	Gene Therapies for Polyglutamine Diseases. Advances in Experimental Medicine and Biology, 2018, 1049, 395-438.	0.8	16
1033	Facile metabolic glycan labeling strategy for exosome tracking. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 1091-1100.	1.1	62
1034	In vitro models and systems for evaluating the dynamics of drug delivery to the healthy and diseased brain. Journal of Controlled Release, 2018, 273, 108-130.	4.8	43

#	Article	IF	Citations
1035	A DNA nanorobot functions as a cancer therapeutic in response to a molecular trigger in vivo. Nature Biotechnology, 2018, 36, 258-264.	9.4	1,066
1036	Potential Role of Extracellular Vesicles in the Pathophysiology of Drug Addiction. Molecular Neurobiology, 2018, 55, 6906-6913.	1.9	20
1037	Employing mesenchymal stem cells to support tumor-targeted delivery of extracellular vesicle (EV)-encapsulated microRNA-379. Oncogene, 2018, 37, 2137-2149.	2.6	150
1038	Genetically Engineered Liposomeâ€like Nanovesicles as Active Targeted Transport Platform. Advanced Materials, 2018, 30, 1705350.	11.1	149
1039	Recent Advances in Nanoparticle-Based Cancer Drug and Gene Delivery. Advances in Cancer Research, 2018, 137, 115-170.	1.9	183
1040	Recent advances in extracellular vesicles enriched with non-coding RNAs related to cancers. Genes and Diseases, 2018, 5, 36-42.	1.5	20
1041	Modularized Extracellular Vesicles: The Dawn of Prospective Personalized and Precision Medicine. Advanced Science, 2018, 5, 1700449.	5.6	67
1042	Protein Profiling and Sizing of Extracellular Vesicles from Colorectal Cancer Patients via Flow Cytometry. ACS Nano, 2018, 12, 671-680.	7.3	333
1043	The Phenotypic Effects of Exosomes Secreted from Distinct Cellular Sources: a Comparative Study Based on miRNA Composition. AAPS Journal, 2018, 20, 67.	2.2	28
1044	Detection of the receptor for advanced glycation endproducts in neuronally-derived exosomes in plasma. Biochemical and Biophysical Research Communications, 2018, 500, 892-896.	1.0	22
1045	Rapid isolation and enrichment of extracellular vesicle preparations using anion exchange chromatography. Scientific Reports, 2018, 8, 5730.	1.6	111
1046	New insights into the regulatory role of microRNA in tumor angiogenesis and clinical implications. Molecular Cancer, 2018, 17, 22.	7.9	123
1047	Exosomal miRNAs in hepatocellular carcinoma development and clinical responses. Journal of Hematology and Oncology, 2018, 11, 54.	6.9	62
1048	Functionalized extracellular vesicles as advanced therapeutic nanodelivery systems. European Journal of Pharmaceutical Sciences, 2018, 121, 34-46.	1.9	36
1049	Bowl-in-bowl complex formation with mixed sized calixarenes: adaptivity towards guest binding. Chemical Communications, 2018, 54, 7131-7134.	2.2	7
1050	Hydrophobicity of Lipid-Conjugated siRNAs Predicts Productive Loading to Small Extracellular Vesicles. Molecular Therapy, 2018, 26, 1520-1528.	3.7	31
1051	Cancer Exosomes for Early Pancreatic Cancer Diagnosis and Role in Metastasis. , 2018, , 1361-1377.		0
1052	Nanomaterials in Neuralâ€Stemâ€Cellâ€Mediated Regenerative Medicine: Imaging and Treatment of Neurological Diseases. Advanced Materials, 2018, 30, e1705694.	11.1	77

#	Article	IF	Citations
1053	Tumor exosomes: a double-edged sword in cancer therapy. Acta Pharmacologica Sinica, 2018, 39, 534-541.	2.8	82
1054	Glycosylation of extracellular vesicles: current knowledge, tools and clinical perspectives. Journal of Extracellular Vesicles, 2018, 7, 1442985.	5.5	173
1055	A brain targeting functionalized liposomes of the dopamine derivative N -3,4-bis(pivaloyloxy)-dopamine for treatment of Parkinson's disease. Journal of Controlled Release, 2018, 277, 173-182.	4.8	83
1056	A Universal Approach to Render Nanomedicine with Biological Identity Derived from Cell Membranes. Biomacromolecules, 2018, 19, 2043-2052.	2.6	22
1057	Methotrexate-Loaded Extracellular Vesicles Functionalized with Therapeutic and Targeted Peptides for the Treatment of Glioblastoma Multiforme. ACS Applied Materials & Interfaces, 2018, 10, 12341-12350.	4.0	143
1058	Therapeutic Potential of Engineered Extracellular Vesicles. AAPS Journal, 2018, 20, 50.	2.2	144
1059	3D printing: prospects and challenges. , 2018, , 299-379.		8
1060	Designer Exosomes for Active Targeted Chemoâ€Photothermal Synergistic Tumor Therapy. Advanced Functional Materials, 2018, 28, 1707360.	7.8	120
1061	Dysregulation of mi<scp>RNA</scp> and its potential therapeutic application in schizophrenia. CNS Neuroscience and Therapeutics, 2018, 24, 586-597.	1.9	54
1062	Nanotherapy for Duchenne muscular dystrophy. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2018, 10, e1472.	3.3	22
1063	Exosomes and their Application in Biomedical Field: Difficulties and Advantages. Molecular Neurobiology, 2018, 55, 3372-3393.	1.9	91
1064	Epigenetics in Alzheimerâ€™s Disease: Perspective of DNA Methylation. Molecular Neurobiology, 2018, 55, 1026-1044.	1.9	96
1065	Circulating exosomes in obstructive sleep apnea as phenotypic biomarkers and mechanistic messengers of end-organ morbidity. Respiratory Physiology and Neurobiology, 2018, 256, 143-156.	0.7	42
1066	A novel cellâ€cell communication mechanism in the nervous system: exosomes. Journal of Neuroscience Research, 2018, 96, 45-52.	1.3	71
1067	Attenuation of the hypoxia-induced miR-34a protects cardiomyocytes through maintenance of glucose metabolism. Biochemical and Biophysical Research Communications, 2018, 498, 375-381.	1.0	8
1068	Nucleic acid loading and fluorescent labeling of isolated extracellular vesicles requires adequate purification. International Journal of Pharmaceutics, 2018, 548, 783-792.	2.6	15
1069	Post-translational add-ons mark the path in exosomal protein sorting. Cellular and Molecular Life Sciences, 2018, 75, 1-19.	2.4	97
1070	Purification and Identification of Membrane Proteins from Urinary Extracellular Vesicles using Triton X-114 Phase Partitioning. Journal of Proteome Research, 2018, 17, 86-96.	1.8	15

#	Article	IF	Citations
1071	Major depression and its treatment. Current Opinion in Psychiatry, 2018, 31, 7-16.	3.1	90
1072	Engineering macrophage-derived exosomes for targeted paclitaxel delivery to pulmonary metastases: in vitro and in vivo evaluations. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 195-204.	1.7	469
1073	Exosomes derived from hypoxiaâ€preconditioned mesenchymal stromal cells ameliorate cognitive decline by rescuing synaptic dysfunction and regulating inflammatory responses in APP/PS1 mice. FASEB Journal, 2018, 32, 654-668.	0.2	254
1074	Surface functionalized exosomes as targeted drug delivery vehicles for cerebral ischemia therapy. Biomaterials, 2018, 150, 137-149.	5.7	739
1075	Microvesicle-mediated delivery of miR-1343: impact on markers of fibrosis. Cell and Tissue Research, 2018, 371, 325-338.	1.5	14
1076	Letâ€™s make microglia great again in neurodegenerative disorders. Journal of Neural Transmission, 2018, 125, 751-770.	1.4	19
1077	Impact of microRNAs on ischemic stroke: From pre- to post-disease. Progress in Neurobiology, 2018, 163-164, 59-78.	2.8	127
1078	The potential for targeted rewriting of epigenetic marks in COPD as a new therapeutic approach. , 2018, 182, 1-14.		36
1079	Extracellular vesicles in leukemia. Leukemia Research, 2018, 64, 52-60.	0.4	38
1080	Extracellular Vesicle Biology in Alzheimerâ€™s Disease and Related Tauopathy. Journal of NeuroImmune Pharmacology, 2018, 13, 292-308.	2.1	91
1081	Aptamer-Conjugated Extracellular Nanovesicles for Targeted Drug Delivery. Cancer Research, 2018, 78, 798-808.	0.4	181
1082	Exosomes and their role in the intercellular trafficking of normal and disease associated prion proteins. Molecular Aspects of Medicine, 2018, 60, 62-68.	2.7	45
1083	Nanoparticle orientation to control RNAÂloading and ligand display on extracellular vesicles for cancer regression. Nature Nanotechnology, 2018, 13, 82-89.	15.6	352
1084	Integration of biomimicry and nanotechnology for significantly improved detection of circulating tumor cells (CTCs). Advanced Drug Delivery Reviews, 2018, 125, 36-47.	6.6	23
1085	Exosome biogenesis, bioactivities and functions as new delivery systems of natural compounds. Biotechnology Advances, 2018, 36, 328-334.	6.0	239
1086	Nanoparticle/siRNA-based therapy strategies in glioma: which nanoparticles, which siRNAs?. Nanomedicine, 2018, 13, 89-103.	1.7	28
1087	Therapy development in Huntington disease: From current strategies to emerging opportunities. American Journal of Medical Genetics, Part A, 2018, 176, 842-861.	0.7	75
1088	Exosomes: new molecular targets of diseases. Acta Pharmacologica Sinica, 2018, 39, 501-513.	2.8	292

#	Article	IF	Citations
1089	Role for extracellular vesicles in the tumour microenvironment. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20160488.	1.8	43
1090	On the use of liposome controls in studies investigating the clinical potential of extracellular vesicle-based drug delivery systems â€“ A commentary. Journal of Controlled Release, 2018, 269, 10-14.	4.8	66
1091	Exosome and MiRNA in Stroke. Springer Series in Translational Stroke Research, 2018, , 325-361.	0.1	1
1092	Extracellular vesicles, exosomes and shedding vesicles in regenerative medicine â€“ a new paradigm for tissue repair. Biomaterials Science, 2018, 6, 60-78.	2.6	207
1093	Curcumin primed exosomes reverses LPSâ€induced proâ€inflammatory gene expression in buffalo granulosa cells. Journal of Cellular Biochemistry, 2018, 119, 1488-1500.	1.2	40
1094	Exosome-based small RNA delivery: Progress and prospects. Asian Journal of Pharmaceutical Sciences, 2018, 13, 1-11.	4.3	71
1095	Exosomes in cancer: Use them or target them?. Seminars in Cell and Developmental Biology, 2018, 78, 13-21.	2.3	109
1096	Nanotechnology in Personalized Medicine: A Promising Tool for Alzheimerâ€™s Disease Treatment. Current Medicinal Chemistry, 2018, 25, 4602-4615.	1.2	17
1097	Preeclamptic placentae release factors that damage neurons: implications for foetal programming of disease. Neuronal Signaling, 2018, 2, NS20180139.	1.7	14
1098	Generation and testing of clinical-grade exosomes for pancreatic cancer. JCI Insight, 2018, 3, .	2.3	520
1099	Advances, challenges, and opportunities in extracellular RNA biology: insights from the NIH exRNA Strategic Workshop. JCI Insight, 2018, 3, .	2.3	41
1100	Will Nanotechnology Bring New Hope for Stem Cell Therapy?. Cells Tissues Organs, 2018, 206, 229-241.	1.3	14
1101	Updated Progress of Nanocarrier-Based Intranasal Drug Delivery Systems for Treatment of Brain Diseases. Critical Reviews in Therapeutic Drug Carrier Systems, 2018, 35, 433-467.	1.2	66
1102	Nanoparticle-Mediated RNA Interference for Cancer Therapy. , 2018, , 521-539.		0
1103	Engineering human megakaryocytic microparticles for targeted delivery of nucleic acids to hematopoietic stem and progenitor cells. Science Advances, 2018, 4, eaau6762.	4.7	33
1104	Exosomes and Exosome-Inspired Vesicles for Targeted Drug Delivery. Pharmaceutics, 2018, 10, 218.	2.0	390
1105	Visualization of the Delivery and Release of Small RNAs Using Genetic Code Expansion and Unnatural RNA-Binding Proteins. Bioconjugate Chemistry, 2018, 29, 3982-3986.	1.8	7
1106	Reprogramming Exosomes as Nanoscale Controllers of Cellular Immunity. Journal of the American Chemical Society, 2018, 140, 16413-16417.	6.6	195

#	Article	IF	Citations
1107	Exosomes as drug carriers for clinical application. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, 564-570.	1.9	20
1108	Non-coding RNAs as Potential Targets for Treatment and Early Diagnosis of Age-Associated Neurodegenerative Diseases. , 2018, , 19-33.		1
1109	Extracellular Vesicle-Mediated Immune Regulation of Tissue Remodeling and Angiogenesis After Myocardial Infarction. Frontiers in Immunology, 2018, 9, 2799.	2.2	30
1110	A Review on Electroporation-Based Intracellular Delivery. Molecules, 2018, 23, 3044.	1.7	170
1111	Neural stem cell derived extracellular vesicles: Attributes and prospects for treating neurodegenerative disorders. EBioMedicine, 2018, 38, 273-282.	2.7	115
1112	An update on Alpers-Huttenlocher syndrome: pathophysiology of disease and rational treatment designs. Expert Opinion on Orphan Drugs, 2018, 6, 741-751.	0.5	0
1113	The Clinical Translation of Organic Nanomaterials for Cancer Therapy: A Focus on Polymeric Nanoparticles, Micelles, Liposomes and Exosomes. Current Medicinal Chemistry, 2018, 25, 4224-4268.	1.2	127
1114	Roles and Regulation of Extracellular Vesicles in Cardiovascular Mineral Metabolism. Frontiers in Cardiovascular Medicine, 2018, 5, 187.	1.1	78
1115	Therapeutic Potential of Extracellular Vesicles for Demyelinating Diseases; Challenges and Opportunities. Frontiers in Molecular Neuroscience, 2018, 11, 434.	1.4	33
1116	Preparation of Exosomes for siRNA Delivery to Cancer Cells. Journal of Visualized Experiments, 2018, , .	0.2	69
1117	Oncogenic H-Ras Expression Induces Fatty Acid Profile Changes in Human Fibroblasts and Extracellular Vesicles. International Journal of Molecular Sciences, 2018, 19, 3515.	1.8	18
1118	Delivery of an Artificial Transcription Regulator dCas9-VPR by Extracellular Vesicles for Therapeutic Gene Activation. ACS Synthetic Biology, 2018, 7, 2715-2725.	1.9	43
1119	Exosome-mediated delivery of functionally active miRNA-142-3p inhibitor reduces tumorigenicity of breast cancer in vitro and in vivo. International Journal of Nanomedicine, 2018, Volume 13, 7727-7747.	3.3	181
1120	A Role of Tumor-Released Exosomes in Paracrine Dissemination and Metastasis. International Journal of Molecular Sciences, 2018, 19, 3968.	1.8	53
1122	MicroRNA expression profile of urinary exosomes in Type IV lupus nephritis complicated by cellular crescent. Journal of Biological Research, 2018, 25, 16.	2.2	24
1123	Recent progress of drug nanoformulations targeting to brain. Journal of Controlled Release, 2018, 291, 37-64.	4.8	134
1124	Engineered Exosomes With Ischemic Myocardiumâ€Targeting Peptide for Targeted Therapy in Myocardial Infarction. Journal of the American Heart Association, 2018, 7, e008737.	1.6	226
1125	siRNA Delivery with Stem Cell Membrane-Coated Magnetic Nanoparticles for Imaging-Guided Photothermal Therapy and Gene Therapy. ACS Biomaterials Science and Engineering, 2018, 4, 3895-3905.	2.6	79

#	Article	IF	Citations
1126	MicroRNA-132, Delivered by Mesenchymal Stem Cell-Derived Exosomes, Promote Angiogenesis in Myocardial Infarction. Stem Cells International, 2018, 2018, 1-11.	1.2	188
1127	Liposome co-incubation with cancer cells secreted exosomes (extracellular vesicles) with different proteins expressions and different uptake pathways. Scientific Reports, 2018, 8, 14493.	1.6	31
1128	Extracellular Vesicles: Potential Participants in Circadian Rhythm Synchronization. International Journal of Biological Sciences, 2018, 14, 1610-1620.	2.6	32
1129	Exosomes: natural nanoparticles as bio shuttles for RNAi delivery. Journal of Controlled Release, 2018, 289, 158-170.	4.8	57
1130	Arrowtail RNA for Ligand Display on Ginger Exosome-like Nanovesicles to Systemic Deliver siRNA for Cancer Suppression. Scientific Reports, 2018, 8, 14644.	1.6	111
1131	Targeted cancer therapy using engineered exosome as a natural drug delivery vehicle. OncoTargets and Therapy, 2018, Volume 11, 5753-5762.	1.0	137
1132	Extracellular vesicles: intelligent delivery strategies for therapeutic applications. Journal of Controlled Release, 2018, 289, 56-69.	4.8	85
1133	Intracellular RNA-tracking methods. Open Biology, 2018, 8, 180104.	1.5	28
1134	Microenvironmental pH and Exosome Levels Interplay in Human Cancer Cell Lines of Different Histotypes. Cancers, 2018, 10, 370.	1.7	141
1135	Emerging Technologies for Delivery of Biotherapeutics and Gene Therapy Across the Bloodâ€“Brain Barrier. BioDrugs, 2018, 32, 547-559.	2.2	64
1136	New Optical Imaging Reporter-labeled Anaplastic Thyroid Cancer-Derived Extracellular Vesicles as a Platform for In Vivo Tumor Targeting in a Mouse Model. Scientific Reports, 2018, 8, 13509.	1.6	17
1137	Astrocyte EV-Induced lincRNA-Cox2 Regulates Microglial Phagocytosis: Implications for Morphine-Mediated Neurodegeneration. Molecular Therapy - Nucleic Acids, 2018, 13, 450-463.	2.3	83
1138	The Expanding Role of Vesicles Containing Aquaporins. Cells, 2018, 7, 179.	1.8	11
1139	Endocytosis Pathways of Endothelial Cell Derived Exosomes. Molecular Pharmaceutics, 2018, 15, 5585-5590.	2.3	30
1140	Exosome Drug Delivery through the Bloodâ€“Brain Barrier: Experimental Approaches and Potential Applications. Neurochemical Journal, 2018, 12, 195-204.	0.2	26
1141	Extracellular Vesicles in Joint Disease and Therapy. Frontiers in Immunology, 2018, 9, 2575.	2.2	34
1142	Large-Scale Preparation of Extracellular Vesicles Enriched with Specific microRNA. Tissue Engineering - Part C: Methods, 2018, 24, 637-644.	1.1	22
1143	Preservation of exosomes at room temperature using lyophilization. International Journal of Pharmaceutics, 2018, 553, 1-7.	2.6	144

#	Article	IF	Citations
1144	Role of exosomal small RNA in prostate cancer metastasis. Cancer Management and Research, 2018, Volume 10, 4029-4038.	0.9	11
1145	Systemic Administration and Targeted Delivery of Immunogenic Oncolytic Adenovirus Encapsulated in Extracellular Vesicles for Cancer Therapies. Viruses, 2018, 10, 558.	1.5	73
1146	Bypassing Endocytosis: Direct Cytosolic Delivery of Proteins. Journal of the American Chemical Society, 2018, 140, 15986-15996.	6.6	158
1147	Incorporation of the Endoplasmic Reticulum Stress-Induced Spliced Form of XBP1 mRNA in the Exosomes. Frontiers in Physiology, 2018, 9, 1357.	1.3	24
1148	Pharmacoepigenomic Interventions as Novel Potential Treatments for Alzheimerâ€™s and Parkinsonâ€™s Diseases. International Journal of Molecular Sciences, 2018, 19, 3199.	1.8	45
1149	Towards rationally designed biomanufacturing of therapeutic extracellular vesicles: impact of the bioproduction microenvironment. Biotechnology Advances, 2018, 36, 2051-2059.	6.0	88
1150	Vesicular systems employing natural substances as promising drug candidates for MMP inhibition in glioblastoma: A nanotechnological approach. International Journal of Pharmaceutics, 2018, 551, 339-361.	2.6	19
1151	The roles of tumor-derived exosomes in non-small cell lung cancer and their clinical implications. Journal of Experimental and Clinical Cancer Research, 2018, 37, 226.	3.5	107
1152	Circulating Extracellular Vesicles in Human Disease. New England Journal of Medicine, 2018, 379, 958-966.	13.9	515
1153	pH-responsive hyaluronate-anchored extracellular vesicles to promote tumor-targeted drug delivery. Carbohydrate Polymers, 2018, 202, 323-333.	5.1	102
1154	Development of a novel anti-HER2 scFv by ribosome display and in silico evaluation of its 3D structure and interaction with HER2, alone and after fusion to LAMP2B. Molecular Biology Reports, 2018, 45, 2247-2256.	1.0	11
1155	Blood exosomes regulate the tissue distribution of grapefruit-derived nanovector via CD36 and IGFR1 pathways. Theranostics, 2018, 8, 4912-4924.	4.6	53
1156	Exosomes: Cellular capsules for drug delivery in Parkinsonâ€™s disease. , 2018, , 91-151.		3
1157	Exosome Research and Co-culture Study. Biological and Pharmaceutical Bulletin, 2018, 41, 1311-1321.	0.6	22
1158	MicroRNAs to differentiate Parkinsonian disorders: Advances in biomarkers and therapeutics. Journal of the Neurological Sciences, 2018, 394, 26-37.	0.3	21
1159	Targeting extracellular vesicles to injured tissue using membrane cloaking and surface display. Journal of Nanobiotechnology, 2018, 16, 61.	4.2	161
1160	Extracellular vesicles in oral squamous carcinoma carry oncogenic miRNA profile and reprogram monocytes via NF-ÎºB pathway. Oncotarget, 2018, 9, 34838-34854.	0.8	50
1161	Exosomes in Myocardial Repair: Advances and Challenges in the Development of Next-Generation Therapeutics. Molecular Therapy, 2018, 26, 1635-1643.	3.7	91

#	Article	IF	Citations
1162	Development and MPI tracking of novel hypoxia-targeted theranostic exosomes. Biomaterials, 2018, 177, 139-148.	5.7	155
1163	Dendritic cells and routing cargo into exosomes. Immunology and Cell Biology, 2018, 96, 683-693.	1.0	55
1164	Exosomes, Stem Cells and MicroRNA. Advances in Experimental Medicine and Biology, 2018, , .	0.8	1
1165	Exosomes as a Drug Delivery System in Cancer Therapy: Potential and Challenges. Molecular Pharmaceutics, 2018, 15, 3625-3633.	2.3	153
1166	Introduction to the Thematic Review Series on Extracellular Vesicles: a focus on the role of lipids. Journal of Lipid Research, 2018, 59, 1313-1315.	2.0	11
1167	Extracellular vesicles: lipids as key components of their biogenesis and functions. Journal of Lipid Research, 2018, 59, 1316-1324.	2.0	208
1168	Extracellular vesicles in cancer â€" implications for future improvements in cancer care. Nature Reviews Clinical Oncology, 2018, 15, 617-638.	12.5	1,020
1169	Clinical significance of bloodâ€'based miRNAs as biomarkers of nonâ€'small cell lung cancer (Review). Oncology Letters, 2018, 15, 8915-8925.	0.8	17
1170	Endogenous Radionanomedicine: Extracellular Vesicles. Biological and Medical Physics Series, 2018, , 127-140.	0.3	1
1171	Tracking Exosomes in Vitro and in Vivo To Elucidate Their Physiological Functions: Implications for Diagnostic and Therapeutic Nanocarriers. ACS Applied Nano Materials, 2018, 1, 2438-2448.	2.4	34
1172	Endogenous Radionanomedicine: Radiolabeling. Biological and Medical Physics Series, 2018, , 141-152.	0.3	0
1173	Reconfigurable Nucleic Acid Materials for Cancer Therapy. Nanomedicine and Nanotoxicology, 2018, , 365-385.	0.1	0
1174	Biodistribution of Cancer-Derived Exosomes. , 2018, , 175-186.		2
1175	Cellular mechanisms responsible for cell-to-cell spreading of prions. Cellular and Molecular Life Sciences, 2018, 75, 2557-2574.	2.4	24
1176	Exosomes: A Paradigm in Drug Development against Cancer and Infectious Diseases. Journal of Nanomaterials, 2018, 2018, 1-17.	1.5	12
1177	Exosome isolation from distinct biofluids using precipitation and column-based approaches. PLoS ONE, 2018, 13, e0198820.	1.1	239
1178	Modification of Extracellular Vesicles by Fusion with Liposomes for the Design of Personalized Biogenic Drug Delivery Systems. ACS Nano, 2018, 12, 6830-6842.	7.3	276
1179	Exosomes as Theranostics for Lung Cancer. Advances in Cancer Research, 2018, 139, 1-33.	1.9	52

#	Article	IF	Citations
1180	Strategic design of extracellular vesicle drug delivery systems. Advanced Drug Delivery Reviews, 2018, 130, 12-16.	6.6	171
1181	Exosome enrichment by ultracentrifugation and size exclusion chromatography. Frontiers in Bioscience - Landmark, 2018, 23, 865-874.	3.0	101
1182	Cerebrospinal Fluid and Blood-Based Biomarkers in Alzheimerâ€™s Disease and Type 2 Diabetes Spectrum Disorders. , 2018, , 67-86.		1
1183	Extracellular vesicles as a recipe for design smart drug delivery systems for cancer therapy. , 2018, , 411-445.		1
1184	A33 antibody-functionalized exosomes for targeted delivery of doxorubicin against colorectal cancer. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 1973-1985.	1.7	166
1185	Extracellular vesicles and ctDNA in lung cancer: biomarker sources and therapeutic applications. Cancer Chemotherapy and Pharmacology, 2018, 82, 171-183.	1.1	17
1186	Therapeutic Effect of Extracellular Vesicles Derived From Adult/Perinatal Human Mesenchymal Stem Cells. , 2018, , 201-215.		2
1188	Nanotechnology in Brain Tumor Targeting. , 2018, , 111-145.		3
1189	Evidence for plant-derived xenomiRs based on a large-scale analysis of public small RNA sequencing data from human samples. PLoS ONE, 2018, 13, e0187519.	1.1	31
1190	Regeneration of Anti-Hypoxic Myocardial Cells by Transduction of Mesenchymal Stem Cell-Derived Exosomes Containing Tat-Metallothionein Fusion Proteins. Macromolecular Research, 2018, 26, 709-716.	1.0	1
1191	Extracellular Vesicle Directed Exogenous Ion Channel Transport for Precise Manipulation of Biological Events. Bioconjugate Chemistry, 2018, 29, 2715-2722.	1.8	7
1192	NRP-1 targeted and cargo-loaded exosomes facilitate simultaneous imaging and therapy of glioma inÂvitro and inÂvivo. Biomaterials, 2018, 178, 302-316.	5.7	456
1193	Engineering PD-1-Presenting Platelets for Cancer Immunotherapy. Nano Letters, 2018, 18, 5716-5725.	4.5	172
1194	Endothelial microRNAs regulating the NFâ€ÎºB pathway and cell adhesion molecules during inflammation. FASEB Journal, 2018, 32, 4070-4084.	0.2	150
1195	Self-Assembly Molecular Chaperone to Concurrently Inhibit the Production and Aggregation of Amyloid Î² Peptide Associated with Alzheimerâ€™s Disease. ACS Macro Letters, 2018, 7, 983-989.	2.3	17
1196	The Advances and Challenges in Utilizing Exosomes for Delivering Cancer Therapeutics. Frontiers in Pharmacology, 2018, 9, 735.	1.6	38
1197	Therapeutic effects of adipose-tissue-derived mesenchymal stromal cells and their extracellular vesicles in experimental silicosis. Respiratory Research, 2018, 19, 104.	1.4	44
1198	An Update on in Vivo Imaging of Extracellular Vesicles as Drug Delivery Vehicles. Frontiers in Pharmacology, 2018, 9, 169.	1.6	110

#	Article	IF	Citations
1199	Calcium phosphate particles stimulate exosome secretion from phagocytes for the enhancement of drug delivery. Colloids and Surfaces B: Biointerfaces, 2018, 171, 391-397.	2.5	38
1200	Cancer nanomedicine: mechanisms, obstacles and strategies. Nanomedicine, 2018, 13, 1639-1656.	1.7	38
1201	Production of Extracellular Vesicles Loaded with Therapeutic Cargo. Methods in Molecular Biology, 2018, 1831, 37-47.	0.4	37
1202	A Preliminary Proteomic Investigation of Circulating Exosomes and Discovery of Biomarkers Associated with the Progression of Osteosarcoma in a Clinical Model of Spontaneous Disease. Translational Oncology, 2018, 11, 1137-1146.	1.7	41
1203	Fed-EXosome: extracellular vesicles and cellâ€“cell communication in metabolic regulation. Essays in Biochemistry, 2018, 62, 165-175.	2.1	37
1204	Exosomes: mediators of bone diseases, protection, and therapeutics potential. Oncoscience, 2018, 5, 181-195.	0.9	90
1205	Extracellular Vesicles Secreted by Human Urine-Derived Stem Cells Promote Ischemia Repair in a Mouse Model of Hind-Limb Ischemia. Cellular Physiology and Biochemistry, 2018, 47, 1181-1192.	1.1	50
1206	Targeted Drug Delivery. Methods in Molecular Biology, 2018, , .	0.4	1
1207	Choroid Plexus: Source of Cerebrospinal Fluid and Regulator of Brain Development and Function. , 2018, , 1-36.		0
1208	Engineered exosome-mediated delivery of functionally active miR-26a and its enhanced suppression effect in HepG2 cells. International Journal of Nanomedicine, 2018, Volume 13, 585-599.	3.3	197
1209	Role of Extracellular Vesicles in Viral and Bacterial Infections: Pathogenesis, Diagnostics, and Therapeutics. Theranostics, 2018, 8, 2709-2721.	4.6	139
1210	Exosomes derived from TRAIL-engineered mesenchymal stem cells with effective anti-tumor activity in a mouse melanoma model. International Journal of Pharmaceutics, 2018, 549, 218-229.	2.6	53
1211	The Role of Extracellular Vesicles in Cancer: Cargo, Function, and Therapeutic Implications. Cells, 2018, 7, 93.	1.8	77
1212	Exosome Theranostics: Biology and Translational Medicine. Theranostics, 2018, 8, 237-255.	4.6	739
1213	Lectin-mediated in situ rolling circle amplification on exosomes for probing cancer-related glycan pattern. Analytica Chimica Acta, 2018, 1039, 108-115.	2.6	25
1214	Message in a Microbottle: Modulation of Vascular Inflammation and Atherosclerosis by Extracellular Vesicles. Frontiers in Cardiovascular Medicine, 2018, 5, 2.	1.1	23
1215	â€œExosomicsâ€â€”A Review of Biophysics, Biology and Biochemistry of Exosomes With a Focus on Human Breast Milk. Frontiers in Genetics, 2018, 9, 92.	1.1	143
1216	Recent Advances: Decoding Alzheimerâ€™s Disease With Stem Cells. Frontiers in Aging Neuroscience, 2018, 10, 77.	1.7	26

#	Article	IF	Citations
1217	Extracellular Vesicles Containing IL-4 Modulate Neuroinflammation in a Mouse Model of Multiple Sclerosis. Molecular Therapy, 2018, 26, 2107-2118.	3.7	93
1218	Early gestational mesenchymal stem cell secretome attenuates experimental bronchopulmonary dysplasia in part via exosome-associated factor TSG-6. Stem Cell Research and Therapy, 2018, 9, 173.	2.4	133
1219	Salivary exosomes as potential biomarkers in cancer. Oral Oncology, 2018, 84, 31-40.	0.8	68
1220	High affinity single-chain variable fragments are specific and versatile targeting motifs for extracellular vesicles. Nanoscale, 2018, 10, 14230-14244.	2.8	73
1221	Potential neuroprotective role of astroglial exosomes against smoking-induced oxidative stress and HIV-1 replication in the central nervous system. Expert Opinion on Therapeutic Targets, 2018, 22, 703-714.	1.5	19
1222	Covalent Strategies for Targeting Messenger and Non-Coding RNAs: An Updated Review on siRNA, miRNA and antimiR Conjugates. Genes, 2018, 9, 74.	1.0	54
1223	Extracellular Vesicles as a Platform for Glioma Therapeutic Development. Progress in Neurological Surgery, 2018, 32, 172-179.	1.3	2
1224	A new landscape of hostâ€“protozoa interactions involving the extracellular vesicles world. Parasitology, 2018, 145, 1521-1530.	0.7	18
1225	Advances in stem cell therapy for amyotrophic lateral sclerosis. Expert Opinion on Biological Therapy, 2018, 18, 865-881.	1.4	30
1226	Role of exosome-associated microRNA in diagnostic and therapeutic applications to metabolic disorders. Journal of Zhejiang University: Science B, 2018, 19, 183-198.	1.3	41
1227	Extracellular vesicles â€“ biogenesis, composition, function, uptake and therapeutic applications. Biologia (Poland), 2018, 73, 437-448.	0.8	16
1228	EV, Microvesicles/MicroRNAs and Stem Cells in Cancer. Advances in Experimental Medicine and Biology, 2018, 1056, 123-135.	0.8	5
1229	Microfluidic engineering of exosomes: editing cellular messages for precision therapeutics. Lab on A Chip, 2018, 18, 1690-1703.	3.1	84
1230	Extracellular vesicles: Toward a clinical application in urological cancer treatment. International Journal of Urology, 2018, 25, 533-543.	0.5	32
1231	Cell-derived Exosomes as Promising Carriers for Drug Delivery and Targeted Therapy. Current Cancer Drug Targets, 2018, 18, 347-354.	0.8	41
1232	Stem cell and gene-based approaches for cardiac repair. , 2018, , 31-96.		1
1233	Exosomes: Basic Biology and Technological Advancements Suggesting Their Potential as Ischemic Heart Disease Therapeutics. Frontiers in Physiology, 2018, 9, 1159.	1.3	41
1234	Plasma microRNA markers of upper limb recovery following human stroke. Scientific Reports, 2018, 8, 12558.	1.6	17

#	Article	IF	Citations
1235	The potential theragnostic (diagnostic+therapeutic) application of exosomes in diverse biomedical fields. Korean Journal of Physiology and Pharmacology, 2018, 22, 113.	0.6	35
1236	Potential of Extracellular Vesicles in Neurodegenerative Diseases: Diagnostic and Therapeutic Indications. Journal of Molecular Neuroscience, 2018, 66, 172-179.	1.1	37
1237	Dopamine-loaded blood exosomes targeted to brain for better treatment of Parkinson's disease. Journal of Controlled Release, 2018, 287, 156-166.	4.8	329
1238	Damage-less Handling of Exosomes Using an Ion-depletion Zone in a Microchannel. Analytical Sciences, 2018, 34, 875-880.	0.8	23
1239	Novel alternatives to extracellular vesicle-based immunotherapy â€“ exosome mimetics derived from natural killer cells. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, 166-179.	1.9	74
1240	Application of nanodiagnostics and nanotherapy to CNS diseases. Nanomedicine, 2018, 13, 2341-2371.	1.7	37
1241	Cancer Cell-Derived, Drug-Loaded Nanovesicles Induced by Sulfhydryl-Blocking for Effective and Safe Cancer Therapy. ACS Nano, 2018, 12, 9568-9577.	7.3	71
1242	Nano in nano: Biosynthesized gold and iron nanoclusters cargo neoplastic exosomes for cancer status biomarking. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 2619-2631.	1.7	36
1243	Examining the Paracrine Effects of Exosomes in Cardiovascular Disease and Repair. Journal of the American Heart Association, 2018, 7, .	1.6	64
1244	Nanocapsule-mediated cytosolic siRNA delivery for anti-inflammatory treatment. Journal of Controlled Release, 2018, 283, 235-240.	4.8	28
1245	Therapeutic approaches for cardiac regeneration and repair. Nature Reviews Cardiology, 2018, 15, 585-600.	6.1	268
1246	Tumor-derived exosomes, microRNAs, and cancer immune suppression. Seminars in Immunopathology, 2018, 40, 505-515.	2.8	69
1247	Anchor peptide captures, targets, and loads exosomes of diverse origins for diagnostics and therapy. Science Translational Medicine, 2018, 10, .	5.8	248
1248	Efficient RNA drug delivery using red blood cell extracellular vesicles. Nature Communications, 2018, 9, 2359.	5.8	402
1249	Brain targeting with lipidic nanocarriers. , 2018, , 255-324.		2
1250	Exosome RNAs as Biomarkers and Targets for Cancer Therapy. , 2018, , 129-159.		3
1251	Engineered exosomes: A new promise for the management of musculoskeletal diseases. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 1893-1901.	1.1	35
1252	miRNA-based strategy for modulation of influenza A virus infection. Epigenomics, 2018, 10, 829-844.	1.0	52

#	Article	IF	Citations
1253	Translational Potential of Tumor Exosomes in Diagnosis and Therapy. , 2018, , 343-353.		0
1254	Myocardial cell-to-cell communication via microRNAs. Non-coding RNA Research, 2018, 3, 144-153.	2.4	19
1255	Noncoding RNA-Targeted Therapeutics in Autoimmune Diseases: From Bench to Bedside. , 2018, , 359-386.		2
1256	Modified Exosomes Reduce Apoptosis and Ameliorate Neural Deficits Induced by Traumatic Brain Injury. ASAIO Journal, 2019, 65, 285-292.	0.9	21
1257	Engineered Exosomes for Targeted Transfer of siRNA to HER2 Positive Breast Cancer Cells. Applied Biochemistry and Biotechnology, 2019, 187, 352-364.	1.4	140
1258	Exosomal lncRNAs and cancer: connecting the missing links. Bioinformatics, 2019, 35, 352-360.	1.8	51
1259	Extracellular Vesicles: Natureâ€™s Own Nanoparticles. , 2019, , 27-48.		5
1260	Exosome Determinants of Physiological Aging and Age-Related Neurodegenerative Diseases. Frontiers in Aging Neuroscience, 2019, 11, 232.	1.7	112
1261	Exosomes derived from miRâ€375â€overexpressing human adipose mesenchymal stem cells promote bone regeneration. Cell Proliferation, 2019, 52, e12669.	2.4	213
1262	Engineering of Surface Proteins in Extracellular Vesicles for Tissue-Specific Targeting. , 2019, , .		4
1263	Extracellular Vesicles: Opportunities and Challenges for the Treatment of Renal Fibrosis. Advances in Experimental Medicine and Biology, 2019, 1165, 693-709.	0.8	12
1265	Exosomes released from neural progenitor cells and induced neural progenitor cells regulate neurogenesis through miR-21a. Cell Communication and Signaling, 2019, 17, 96.	2.7	68
1266	The Challenges and Possibilities of Extracellular Vesicles as Therapeutic Vehicles. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 144, 50-56.	2.0	44
1267	Concordance between the assessment of Aî²42, Tâ€tau, and Pâ€T181â€tau in peripheral blood neuronalâ€derived exosomes and cerebrospinal fluid. Alzheimer's and Dementia, 2019, 15, 1071-1080.	0.4	230
1268	The multiple roles of exosomes in Parkinson's disease: an overview. Immunopharmacology and Immunotoxicology, 2019, 41, 469-476.	1.1	43
1269	Clinical implications of extracellular vesicles in neurodegenerative diseases. Expert Review of Molecular Diagnostics, 2019, 19, 813-824.	1.5	14
1270	Membrane-encapsulated camouflaged nanomedicines in drug delivery. Nanomedicine, 2019, 14, 2067-2082.	1.7	28
1271	Dental Pulp Stem Cells: An Attractive Alternative for Cell Therapy in Ischemic Stroke. Frontiers in Neurology, 2019, 10, 824.	1.1	65

#	Article	IF	Citations
1272	Inflammatory Mechanisms and Cascades Contributing to Neurocognitive Impairment in HIV/AIDS. Current Topics in Behavioral Neurosciences, 2019, 50, 77-103.	0.8	8
1273	An Update on Novel Therapeutic Warfronts of Extracellular Vesicles (EVs) in Cancer Treatment: Where We Are Standing Right Now and Where to Go in the Future. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-21.	1.9	17
1274	Brief update on endocytosis of nanomedicines. Advanced Drug Delivery Reviews, 2019, 144, 90-111.	6.6	251
1275	Exosomal DNA Aptamer Targeting Î±-Synuclein Aggregates Reduced Neuropathological Deficits in a Mouse Parkinsonâ€™s Disease Model. Molecular Therapy - Nucleic Acids, 2019, 17, 726-740.	2.3	77
1276	Rapid On-Demand Extracellular Vesicle Augmentation with Versatile Oligonucleotide Tethers. ACS Nano, 2019, 13, 10555-10565.	7.3	78
1277	Exosomal miRNA: an alternative mediator of cell-to-cell communication. ExRNA, 2019, 1, .	1.0	12
1278	Exosomes Engineered to Express a Cardiomyocyte Binding Peptide Demonstrate Improved Cardiac Retention in Vivo. Scientific Reports, 2019, 9, 10041.	1.6	150
1279	Overview of Extracellular Vesicles, Their Origin, Composition, Purpose, and Methods for Exosome Isolation and Analysis. Cells, 2019, 8, 727.	1.8	1,706
1280	Latest advances in extracellular vesicles: from bench to bedside. Science and Technology of Advanced Materials, 2019, 20, 746-757.	2.8	74
1281	Exosome-mimetic nanoplatforms for targeted cancer drug delivery. Journal of Nanobiotechnology, 2019, 17, 85.	4.2	117
1282	Extracellular vesicles and their diagnostic potential in amyotrophic lateral sclerosis. Clinica Chimica Acta, 2019, 497, 27-34.	0.5	12
1283	New insight into isolation, identification techniques and medical applications of exosomes. Journal of Controlled Release, 2019, 308, 119-129.	4.8	130
1284	Extracellular Vesicles in Cardiovascular Diseases: Alternative Biomarker Sources, Therapeutic Agents, and Drug Delivery Carriers. International Journal of Molecular Sciences, 2019, 20, 3272.	1.8	81
1285	Tumor-derived extracellular vesicles: reliable tools for Cancer diagnosis and clinical applications. Cell Communication and Signaling, 2019, 17, 73.	2.7	138
1286	Efficient nanocarriers of siRNA therapeutics for cancer treatment. Translational Research, 2019, 214, 62-91.	2.2	121
1287	Calcium chloride enhances the delivery of exosomes. PLoS ONE, 2019, 14, e0220036.	1.1	7
1288	Use of delivery technologies to mediate RNA degradation. , 2019, , 87-97.		0
1289	Focused ultrasound-augmented targeting delivery of nanosonosensitizers from homogenous exosomes for enhanced sonodynamic cancer therapy. Theranostics, 2019, 9, 5261-5281.	4.6	106

#	Article	IF	Citations
1290	Long Non-coding RNA FENDRR Acts as a miR-423-5p Sponge to Suppress the Treg-Mediated Immune Escape of Hepatocellular Carcinoma Cells. Molecular Therapy - Nucleic Acids, 2019, 17, 516-529.	2.3	109
1291	Surface-Functionalized Nanoparticles as Efficient Tools in Targeted Therapy of Pregnancy Complications. International Journal of Molecular Sciences, 2019, 20, 3642.	1.8	36
1292	Employing Macrophage-Derived Microvesicle for Kidney-Targeted Delivery of Dexamethasone: An Efficient Therapeutic Strategy against Renal Inflammation and Fibrosis. Theranostics, 2019, 9, 4740-4755.	4.6	112
1293	Contribution of Extracellular Vesicles in Rebuilding Injured Muscles. Frontiers in Physiology, 2019, 10, 828.	1.3	45
1294	Advances in exosome isolation methods and their applications in proteomic analysis of biological samples. Analytical and Bioanalytical Chemistry, 2019, 411, 5351-5361.	1.9	44
1295	Exosome-mediated therapeutic delivery: A new horizon for human neurodegenerative disordersâ€™ treatment (with a focus on siRNA delivery improvement). Process Biochemistry, 2019, 85, 164-174.	1.8	10
1296	An atlas of nano-enabled neural interfaces. Nature Nanotechnology, 2019, 14, 645-657.	15.6	129
1297	Cell derived extracellular vesicles: from isolation to functionalization and biomedical applications. Biomaterials Science, 2019, 7, 3552-3565.	2.6	15
1298	Cell-free synthesis of connexin 43-integrated exosome-mimetic nanoparticles for siRNA delivery. Acta Biomaterialia, 2019, 96, 517-536.	4.1	44
1299	Focus on exosomesâ€"From pathogenic mechanisms to the potential clinical application value in lymphoma. Journal of Cellular Biochemistry, 2019, 120, 19220-19228.	1.2	8
1300	Tumour-Derived Extracellular Vesicles (EVs): A Dangerous â€œMessage in A Bottleâ€•for Bone. International Journal of Molecular Sciences, 2019, 20, 4805.	1.8	34
1301	Exosomes for cell-targeted bioorthogonal catalysis. Nature Catalysis, 2019, 2, 837-838.	16.1	5
1302	Extracellular Vesicles in Cancer Immune Microenvironment and Cancer Immunotherapy. Advanced Science, 2019, 6, 1901779.	5.6	179
1303	Mesenchymal stromal cell secretome as a therapeutic strategy for traumatic brain injury. BioFactors, 2019, 45, 880-891.	2.6	29
1304	Application of Heat Pump Energy-Saving Flue-Cured Tobacco Technology. IOP Conference Series: Earth and Environmental Science, 2019, 252, 032042.	0.2	0
1305	A Differential Evolution Algorithm Based on Multi-Population for Economic Dispatch Problems With Valve-Point Effects. IEEE Access, 2019, 7, 95585-95609.	2.6	28
1306	Design and applications of stretchable and self-healable conductors for soft electronics. Nano Convergence, 2019, 6, 25.	6.3	83
1307	microRNAs as therapeutic targets in intestinal diseases. ExRNA, 2019, 1, .	1.0	18

#	Article	IF	Citations
1308	Extracellular Vesicles as Natural, Safe and Efficient Drug Delivery Systems. Pharmaceutics, 2019, 11, 557.	2.0	81
1309	Biological membranes in EV biogenesis, stability, uptake, and cargo transfer: an ISEV position paper arising from the ISEV membranes and EVs workshop. Journal of Extracellular Vesicles, 2019, 8, 1684862.	5.5	177
1310	Extracellular Vesicles in Modifying the Effects of Ionizing Radiation. International Journal of Molecular Sciences, 2019, 20, 5527.	1.8	33
1311	miR-124 and Parkinsonâ€™s disease: A biomarker with therapeutic potential. Pharmacological Research, 2019, 150, 104515.	3.1	80
1312	Extracellular vesicles expressing a single-chain variable fragment of an HIV-1 specific antibody selectively target Env⁺ tissues. Theranostics, 2019, 9, 5657-5671.	4.6	38
1313	Blood TfR+ exosomes separated by a pH-responsive method deliver chemotherapeutics for tumor therapy. Theranostics, 2019, 9, 7680-7696.	4.6	67
1314	The Strategies of Nanomaterials for Traversing Blood-Brain Barrier. , 2019, , 29-57.		5
1315	Plant-Derived Exosomal Nanoparticles Inhibit Pathogenicity of Porphyromonas gingivalis. IScience, 2019, 21, 308-327.	1.9	98
1316	Small extracellular vesicle loading systems in cancer therapy: Current status and the way forward. Cytotherapy, 2019, 21, 1122-1136.	0.3	35
1317	Biomimetic Carriers Based on Giant Membrane Vesicles for Targeted Drug Delivery and Photodynamic/Photothermal Synergistic Therapy. ACS Applied Materials & Interfaces, 2019, 11, 43811-43819.	4.0	26
1319	Cytochalasin-B-Inducible Nanovesicle Mimics of Natural Extracellular Vesicles That Are Capable of Nucleic Acid Transfer. Micromachines, 2019, 10, 750.	1.4	20
1320	Considerations and Implications in the Purification of Extracellular Vesicles â€“ A Cautionary Tale. Frontiers in Neuroscience, 2019, 13, 1067.	1.4	39
1321	Endosomal escape enhancing compounds facilitate functional delivery of extracellular vesicle cargo. Nanomedicine, 2019, 14, 2799-2814.	1.7	47
1322	Electroporation of outer membrane vesicles derived from Pseudomonas aeruginosa with gold nanoparticles. SN Applied Sciences, 2019, 1, 1.	1.5	27
1323	Aptamer-Based Erythrocyte-Derived Mimic Vesicles Loaded with siRNA and Doxorubicin for the Targeted Treatment of Multidrug-Resistant Tumors. ACS Applied Materials & Interfaces, 2019, 11, 45455-45466.	4.0	41
1324	Literature review of baseline information on nonâ€coding RNA (ncRNA) to support the risk assessment of ncRNAâ€based genetically modified plants for food and feed. EFSA Supporting Publications, 2019, 16, 1688E.	0.3	31
1325	Rapid determination of the electroporation threshold for bacteria inactivation using a lab-on-a-chip platform. Environment International, 2019, 132, 105040.	4.8	36
1326	Age-related schwannomatosis with potential exosome-mediated contribution to prostate hyperplasia: a case report and mini-review. Therapeutic Advances in Urology, 2019, 11, 175628721987557.	0.9	3

#	Article	IF	Citations
1327	Possible Production of Genome-Edited Animals Using Gene-Engineered Sperm. , 0, , .		3
1328	Intranasal Delivery of Mesenchymal Stem Cell Derived Exosomes Loaded with Phosphatase and Tensin Homolog siRNA Repairs Complete Spinal Cord Injury. ACS Nano, 2019, 13, 10015-10028.	7.3	246
1329	Adipose Mesenchymal Extracellular Vesicles as Alpha-1-Antitrypsin Physiological Delivery Systems for Lung Regeneration. Cells, 2019, 8, 965.	1.8	48
1330	Human CAP cells represent a novel source for functional, miRNA-loaded exosome production. PLoS ONE, 2019, 14, e0221679.	1.1	18
1331	Folate-displaying exosome mediated cytosolic delivery of siRNA avoiding endosome trapping. Journal of Controlled Release, 2019, 311-312, 43-49.	4.8	86
1332	Real-Time Monitoring of Exosome Enveloped-AAV Spreading by Endomicroscopy Approach: A New Tool for Gene Delivery in the Brain. Molecular Therapy - Methods and Clinical Development, 2019, 14, 237-251.	1.8	35
1333	Extracellular Vesicles in Mycobacterial Infections: Their Potential as Molecule Transfer Vectors. Frontiers in Immunology, 2019, 10, 1929.	2.2	24
1334	Neurodegeneration and Neuro-Regenerationâ€"Alzheimerâ€™s Disease and Stem Cell Therapy. International Journal of Molecular Sciences, 2019, 20, 4272.	1.8	78
1335	Muscle-Derived Extracellular Vesicles Influence Motor Neuron Regeneration Accuracy. Neuroscience, 2019, 419, 46-59.	1.1	21
1336	Functional exosome-mediated co-delivery of doxorubicin and hydrophobically modified microRNA 159 for triple-negative breast cancer therapy. Journal of Nanobiotechnology, 2019, 17, 93.	4.2	207
1337	Exosome-delivered syndecan-1 rescues acute lung injury via a FAK/p190RhoGAP/RhoA/ROCK/NF-Î¹B signaling axis and glycocalyx enhancement. Experimental Cell Research, 2019, 384, 111596.	1.2	42
1338	Microvesicle-Mediated Delivery of Minicircle DNA Results in Effective Gene-Directed Enzyme Prodrug Cancer Therapy. Molecular Cancer Therapeutics, 2019, 18, 2331-2342.	1.9	54
1339	Cancer-derived exosomes loaded with ultrathin palladium nanosheets for targeted bioorthogonal catalysis. Nature Catalysis, 2019, 2, 864-872.	16.1	218
1340	MicroRNAs in Ocular Infection. Microorganisms, 2019, 7, 359.	1.6	10
1341	Stem cell derived exosomes: microRNA therapy for age-related musculoskeletal disorders. Biomaterials, 2019, 224, 119492.	5.7	45
1342	Functional extracellular vesicles engineered with lipid-grafted hyaluronic acid effectively reverse cancer drug resistance. Biomaterials, 2019, 223, 119475.	5.7	90
1343	Immunotherapy Based on Dendritic Cell-Targeted/-Derived Extracellular Vesiclesâ€"A Novel Strategy for Enhancement of the Anti-tumor Immune Response. Frontiers in Pharmacology, 2019, 10, 1152.	1.6	76
1344	Systemic Exosomal Delivery of shRNA Minicircles Prevents Parkinsonian Pathology. Molecular Therapy, 2019, 27, 2111-2122.	3.7	120

#	Article	IF	Citations
1345	CAR exosomes derived from effector CAR-T cells have potent antitumour effects and low toxicity. Nature Communications, 2019, 10, 4355.	5.8	270
1346	Systematic characterization of extracellular vesicle sorting domains and quantification at the single molecule â€“ single vesicle level by fluorescence correlation spectroscopy and single particle imaging. Journal of Extracellular Vesicles, 2019, 8, 1663043.	5.5	96
1347	Modulation of the Apoptosis Gene Bcl-x Function Through Alternative Splicing. Frontiers in Genetics, 2019, 10, 804.	1.1	83
1348	Exosomes as nanocarriers for the delivery of bioactive compounds from black bean extract with antiproliferative activity in cancer cell lines. Materials Today: Proceedings, 2019, 13, 362-369.	0.9	9
1349	Wrangling RNA: Antisense oligonucleotides for neurological disorders. Science Translational Medicine, 2019, 11, .	5.8	11
1350	Exosomal miRNAs in central nervous system diseases: biomarkers, pathological mediators, protective factors and therapeutic agents. Progress in Neurobiology, 2019, 183, 101694.	2.8	127
1351	Linkage between endosomal escape of LNP-mRNA and loading into EVs for transport to other cells. Nature Communications, 2019, 10, 4333.	5.8	211
1352	Artificial chimeric exosomes for anti-phagocytosis and targeted cancer therapy. Chemical Science, 2019, 10, 1555-1561.	3.7	85
1353	Exploiting Exosomes in Cancer Liquid Biopsies and Drug Delivery. Advanced Healthcare Materials, 2019, 8, e1801268.	3.9	94
1354	Exosomes in Parkinsonâ€™s Disease: Current Perspectives and Future Challenges. ACS Chemical Neuroscience, 2019, 10, 964-972.	1.7	35
1355	Modification of the glycosylation of extracellular vesicles alters their biodistribution in mice. Nanoscale, 2019, 11, 1531-1537.	2.8	134
1356	New windows into the brain: Central nervous system-derived extracellular vesicles in blood. Progress in Neurobiology, 2019, 175, 96-106.	2.8	121
1357	Systematic Evolution of Ligands by Exosome Enrichment: A Proofâ€ofâ€Concept Study for Exosomeâ€Based Targeting Peptide Screening. Advanced Biology, 2019, 3, e1800275.	3.0	6
1358	MicroRNA-146a protects against cognitive decline induced by surgical trauma by suppressing hippocampal neuroinflammation in mice. Brain, Behavior, and Immunity, 2019, 78, 188-201.	2.0	116
1359	Progress in the application of exosomes as therapeutic vectors in tumor-targeted therapy. Cytotherapy, 2019, 21, 509-524.	0.3	24
1360	Extracellular Vesicles as Vehicles for the Delivery of Food Bioactives. Journal of Agricultural and Food Chemistry, 2019, 67, 2113-2119.	2.4	24
1361	Exosomes â€” beyond stem cells for restorative therapy in stroke and neurological injury. Nature Reviews Neurology, 2019, 15, 193-203.	4.9	353
1362	Autologous cancer cell-derived extracellular vesicles as drug-delivery systems: a systematic review of preclinical and clinical findings and translational implications. Nanomedicine, 2019, 14, 493-509.	1.7	16

#	Article	IF	Citations
1363	Photoactivatable Prodrug of Doxazolidine Targeting Exosomes. Journal of Medicinal Chemistry, 2019, 62, 1959-1970.	2.9	12
1364	Exosomes and the Future of Immunotherapy in Pancreatic Cancer. International Journal of Molecular Sciences, 2019, 20, 567.	1.8	64
1365	Biology, Pathophysiological Role, and Clinical Implications of Exosomes: A Critical Appraisal. Cells, 2019, 8, 99.	1.8	71
1366	Intranasal Administration of Extracellular Vesicles Derived from Human Teeth Stem Cells Improves Motor Symptoms and Normalizes Tyrosine Hydroxylase Expression in the Substantia Nigra and Striatum of the 6-Hydroxydopamine-Treated Rats. Stem Cells Translational Medicine, 2019, 8, 490-499.	1.6	100
1367	Extracellular Vesicles Secreted by Astroglial Cells Transport Apolipoprotein D to Neurons and Mediate Neuronal Survival Upon Oxidative Stress. Frontiers in Cellular Neuroscience, 2018, 12, 526.	1.8	120
1368	Extracellular Vesicle-Mediated Cellâ€“Cell Communication in the Nervous System: Focus on Neurological Diseases. International Journal of Molecular Sciences, 2019, 20, 434.	1.8	112
1369	Photothermal cancer immunotherapy by erythrocyte membrane-coated black phosphorus formulation. Journal of Controlled Release, 2019, 296, 150-161.	4.8	303
1370	Decoy exosomes as a novel biologic reagent to antagonize inflammation . International Journal of Nanomedicine, 2019, Volume 14, 3413-3425.	3.3	40
1371	RVG-modified exosomes derived from mesenchymal stem cells rescue memory deficits by regulating inflammatory responses in a mouse model of Alzheimerâ€™s disease. Immunity and Ageing, 2019, 16, 10.	1.8	165
1372	Positron emission tomography reporter gene strategy for use in the central nervous system. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11402-11407.	3.3	31
1373	Microfluidic Technology for Clinical Applications of Exosomes. Micromachines, 2019, 10, 392.	1.4	68
1374	Total internal reflection-based single-vesicle in situ quantitative and stoichiometric analysis of tumor-derived exosomal microRNAs for diagnosis and treatment monitoring. Theranostics, 2019, 9, 4494-4507.	4.6	77
1375	Emerging roles of extracellular vesicles in neurodegenerative disorders. Neurobiology of Disease, 2019, 130, 104512.	2.1	78
1376	Potential therapeutic applications of exosomes in different autoimmune diseases. Clinical Immunology, 2019, 205, 116-124.	1.4	47
1377	Switchable nanoparticle for programmed gene-chem delivery with enhanced neuronal recovery and CT imaging for neurodegenerative disease treatment. Materials Horizons, 2019, 6, 1923-1929.	6.4	21
1378	Tumor-derived extracellular vesicles in breast cancer: From bench to bedside. Cancer Letters, 2019, 460, 54-64.	3.2	48
1379	MicroRNAs change the games in central nervous system pharmacology. Biochemical Pharmacology, 2019, 168, 162-172.	2.0	18
1380	Exosomes: Diagnostic Biomarkers and Therapeutic Delivery Vehicles for Cancer. Molecular Pharmaceutics, 2019, 16, 3333-3349.	2.3	101

#	Article	IF	Citations
1381	Surface modification of gold nanoparticles with neuron-targeted exosome for enhanced bloodâ€“brain barrier penetration. Scientific Reports, 2019, 9, 8278.	1.6	183
1382	Systematic review of targeted extracellular vesicles for drug delivery â€“ Considerations on methodological and biological heterogeneity. Journal of Controlled Release, 2019, 306, 108-120.	4.8	95
1383	Red Blood Cells-Derived Vesicles for Delivery of Lipophilic Drug Camptothecin. ACS Applied Materials & Interfaces, 2019, 11, 22141-22151.	4.0	61
1384	MicroRNA based theranostics for brain cancer: basic principles. Journal of Experimental and Clinical Cancer Research, 2019, 38, 231.	3.5	81
1385	ccf-mtDNA as a Potential Link Between the Brain and Immune System in Neuro-Immunological Disorders. Frontiers in Immunology, 2019, 10, 1064.	2.2	83
1386	Implications of exosomes as diagnostic and therapeutic strategies in cancer. Journal of Cellular Physiology, 2019, 234, 21694-21706.	2.0	15
1387	M2 microglia-derived exosomes protect the mouse brain from ischemia-reperfusion injury via exosomal miR-124. Theranostics, 2019, 9, 2910-2923.	4.6	301
1388	Drug Delivery with Extracellular Vesicles: From Imagination to Innovation. Accounts of Chemical Research, 2019, 52, 1761-1770.	7.6	203
1389	Enhancing cytotoxicity of daunorubicin on drug-resistant leukaemia cells with microparticle-mediated drug delivery system. Journal of Microencapsulation, 2019, 36, 291-304.	1.2	4
1390	Extracellular Vesicles in Glioma: From Diagnosis to Therapy. BioEssays, 2019, 41, e1800245.	1.2	54
1391	The Therapeutic Potential of Mesenchymal Stem Cellâ€“Derived Exosomes in Treatment of Neurodegenerative Diseases. Molecular Neurobiology, 2019, 56, 8157-8167.	1.9	89
1392	Serum Deprivation of Mesenchymal Stem Cells Improves Exosome Activity and Alters Lipid and Protein Composition. IScience, 2019, 16, 230-241.	1.9	61
1393	Cell Biology and Translational Medicine, Volume 5. Advances in Experimental Medicine and Biology, 2019, , .	0.8	4
1394	Roles of extracellular microRNAs in central nervous system. ExRNA, 2019, 1, .	1.0	1
1395	Lipids in Exosome Biology. Handbook of Experimental Pharmacology, 2019, 259, 309-336.	0.9	20
1396	Nanocarrier-Based Gene Therapy Imaging Strategies. , 2019, , 409-420.		0
1397	Biogenesis and function of extracellular miRNAs. ExRNA, 2019, 1, .	1.0	76
1398	Cancer Immunotherapy Based on Natural Killer Cells: Current Progress and New Opportunities. Frontiers in Immunology, 2019, 10, 1205.	2.2	292

#	Article	IF	Citations
1399	Epigenetics in cancer therapy and nanomedicine. Clinical Epigenetics, 2019, 11, 81.	1.8	147
1400	Advances in therapeutic applications of extracellular vesicles. Science Translational Medicine, 2019, 11, .	5.8	595
1401	Exosomes: cell-created drug delivery systems. Molecular and Cellular Biochemistry, 2019, 459, 1-6.	1.4	114
1402	Basics and applications of tumor-derived extracellular vesicles. Journal of Biomedical Science, 2019, 26, 35.	2.6	47
1403	Nanotechnology Meets Oncology: Nanomaterials in Brain Cancer Research, Diagnosis and Therapy. Materials, 2019, 12, 1588.	1.3	95
1404	Therapeutic Potential of Extracellular Vesicles for the Treatment of Nerve Disorders. Frontiers in Neuroscience, 2019, 13, 163.	1.4	71
1405	Treatment of human neuroblastoma cell line SHâ€SY5Y with HSP27 siRNA taggedâ€exosomes decreased differentiation rate into mature neurons. Journal of Cellular Physiology, 2019, 234, 21005-21013.	2.0	22
1406	Exosomes as Therapeutic Vehicles for Cancer. Tissue Engineering and Regenerative Medicine, 2019, 16, 213-223.	1.6	51
1407	Neuronanotechnology for brain regeneration. Advanced Drug Delivery Reviews, 2019, 148, 3-18.	6.6	20
1408	Microfluidic Approaches Toward the Isolation and Detection of Exosome Nanovesicles. IEEE Access, 2019, 7, 45080-45098.	2.6	25
1409	Extracellular Vesicles as Biological Shuttles for Targeted Therapies. International Journal of Molecular Sciences, 2019, 20, 1848.	1.8	60
1410	Extracellular Vesicles: Opportunities and Challenges for the Treatment of Renal Diseases. Frontiers in Physiology, 2019, 10, 226.	1.3	56
1411	Extracellular Vesicles: Delivery Vehicles of Myokines. Frontiers in Physiology, 2019, 10, 522.	1.3	74
1412	Exosome-Mediated Metastasis: Communication from a Distance. Developmental Cell, 2019, 49, 347-360.	3.1	802
1413	Mesenchymal Stem Cell-Derived Extracellular Vesicles as Therapeutics and as a Drug Delivery Platform. Stem Cells Translational Medicine, 2019, 8, 880-886.	1.6	133
1414	Chimeric peptide engineered exosomes for dual-stage light guided plasma membrane and nucleus targeted photodynamic therapy. Biomaterials, 2019, 211, 14-24.	5.7	118
1415	Sequential Intercellular Delivery Nanosystem for Enhancing ROS-Induced Antitumor Therapy. Nano Letters, 2019, 19, 3505-3518.	4.5	44
1416	RNAi therapeutic and its innovative biotechnological evolution. Biotechnology Advances, 2019, 37, 801-825.	6.0	196

#	Article	IF	Citations
1417	Exosomes in cancer development, metastasis, and immunity. Biochimica Et Biophysica Acta: Reviews on Cancer, 2019, 1871, 455-468.	3.3	532
1418	Combinational Treatment of Bioscaffolds and Extracellular Vesicles in Spinal Cord Injury. Frontiers in Molecular Neuroscience, 2019, 12, 81.	1.4	22
1419	Membrane Radiolabelling of Exosomes for Comparative Biodistribution Analysis in Immunocompetent and Immunodeficient Mice - A Novel and Universal Approach. Theranostics, 2019, 9, 1666-1682.	4.6	94
1420	Organotropic drug delivery: Synthetic nanoparticles and extracellular vesicles. Biomedical Microdevices, 2019, 21, 46.	1.4	64
1421	Review of the Isolation, Characterization, Biological Function, and Multifarious Therapeutic Approaches of Exosomes. Cells, 2019, 8, 307.	1.8	706
1422	Oral Drug Delivery Technologiesâ€"A Decade of Developments. Journal of Pharmacology and Experimental Therapeutics, 2019, 370, 529-543.	1.3	37
1423	Mesenchymal stem cell exosomes: a two-edged sword in cancer therapy . International Journal of Nanomedicine, 2019, Volume 14, 2847-2859.	3.3	184
1424	The Immune Activity of PT-Peptide Derived from Anti-Lipopolysaccharide Factor of the Swimming Crab Portunus trituberculatus Is Enhanced when Encapsulated in Milk-Derived Extracellular Vesicles. Marine Drugs, 2019, 17, 248.	2.2	8
1425	Intercellular Vesicular Transfer by Exosomes, Microparticles and Oncosomes - Implications for Cancer Biology and Treatments. Frontiers in Oncology, 2019, 9, 125.	1.3	90
1426	Ultrasound Facilitates Naturally Equipped Exosomes Derived from Macrophages and Blood Serum for Orthotopic Glioma Treatment. ACS Applied Materials & Interfaces, 2019, 11, 14576-14587.	4.0	64
1427	Exosomes: The Indispensable Messenger in Tumor Pathogenesis and the Rising Star in Antitumor Applications. Advanced Biology, 2019, 3, e1900008.	3.0	8
1428	Exosomes in Allergic Airway Diseases. Current Allergy and Asthma Reports, 2019, 19, 26.	2.4	28
1429	Surface Engineering of Extracellular Vesicles through Chemical and Biological Strategies. Chemistry of Materials, 2019, 31, 2191-2201.	3.2	41
1430	Roles of Exosomes Derived From Immune Cells in Cardiovascular Diseases. Frontiers in Immunology, 2019, 10, 648.	2.2	97
1431	Prophylactic treatment with MSC-derived exosomes attenuates traumatic acute lung injury in rats. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2019, 316, L1107-L1117.	1.3	68
1433	Extracellular Vesicles as Novel Nanocarriers for Therapeutic Delivery. , 2019, , 391-407.		3
1434	Extracellular microRNAs exhibit sequence-dependent stability and cellular release kinetics. RNA Biology, 2019, 16, 696-706.	1.5	51
1435	Immune Cell-Derived Extracellular Vesicles â€“ Functions and Therapeutic Applications. Trends in Molecular Medicine, 2019, 25, 382-394.	3.5	188

#	Article	IF	Citations
1436	Bioengineered bacterial vesicles as biological nano-heaters for optoacoustic imaging. Nature Communications, 2019, 10, 1114.	5.8	128
1437	The current state and future directions of RNAi-based therapeutics. Nature Reviews Drug Discovery, 2019, 18, 421-446.	21.5	896
1438	An overview of the multifaceted roles of miRNAs in gastric cancer: Spotlight on novel biomarkers and therapeutic targets. Biochemical Pharmacology, 2019, 163, 425-439.	2.0	14
1439	Extracellular vesicles: exosomes, microparticles, their parts, and their targets to enable their biomanufacturing and clinical applications. Current Opinion in Biotechnology, 2019, 60, 89-98.	3.3	123
1440	Exosomes: biogenesis, biologic function and clinical potential. Cell and Bioscience, 2019, 9, 19.	2.1	1,197
1441	Challenges and opportunities in exosome researchâ€"Perspectives from biology, engineering, and cancer therapy. APL Bioengineering, 2019, 3, 011503.	3.3	327
1442	Protein-based vehicles for biomimetic RNAi delivery. Journal of Biological Engineering, 2019, 13, 19.	2.0	9
1443	The emerging clinical potential of circulating extracellular vesicles for non-invasive glioma diagnosis and disease monitoring. Brain Tumor Pathology, 2019, 36, 29-39.	1.1	26
1444	Manganese promotes the aggregation and prion-like cell-to-cell exosomal transmission of Î±-synuclein. Science Signaling, 2019, 12, .	1.6	129
1445	Harnessing Exosomes for the Development of Brain Drug Delivery Systems. Bioconjugate Chemistry, 2019, 30, 994-1005.	1.8	68
1446	Microglia-Derived Microvesicles Affect Microglia Phenotype in Glioma. Frontiers in Cellular Neuroscience, 2019, 13, 41.	1.8	52
1447	Contemporary Formulations for Drug Delivery of Anticancer Bioactive Compounds. Recent Patents on Anti-Cancer Drug Discovery, 2019, 14, 19-31.	0.8	14
1448	Exploiting the message from cancer: the diagnostic value of extracellular vesicles for clinical applications. Experimental and Molecular Medicine, 2019, 51, 1-9.	3.2	87
1449	Perinatal Stem Cells. , 2019, , .		2
1450	Extracellular Vesicles as Diagnostics and Therapeutics for Structural Epilepsies. International Journal of Molecular Sciences, 2019, 20, 1259.	1.8	19
1451	Extracellular vesicle-based therapeutics: natural versus engineered targeting and trafficking. Experimental and Molecular Medicine, 2019, 51, 1-12.	3.2	426
1452	DNA Aptamers Targeting BACE1 Reduce Amyloid Levels and Rescue Neuronal Deficiency in Cultured Cells. Molecular Therapy - Nucleic Acids, 2019, 16, 302-312.	2.3	9
1453	Genetically Engineered Cell Membrane Nanovesicles for Oncolytic Adenovirus Delivery: A Versatile Platform for Cancer Virotherapy. Nano Letters, 2019, 19, 2993-3001.	4.5	115

#	Article	IF	Citations
1454	A cell ELISA based method for exosome detection in diagnostic and therapeutic applications. Biotechnology Letters, 2019, 41, 523-531.	1.1	40
1455	The role of exosome in autoimmune connective tissue disease. Annals of Medicine, 2019, 51, 101-108.	1.5	25
1456	Exosome nanocarriers. , 2019, , 189-218.		2
1457	Cholangiocyteâ€Derived Exosomal Long Noncoding RNA H19 Promotes Hepatic Stellate Cell Activation and Cholestatic Liver Fibrosis. Hepatology, 2019, 70, 1317-1335.	3.6	150
1458	Plant-Derived Edible Nanoparticles and miRNAs: Emerging Frontier for Therapeutics and Targeted Drug-Delivery. ACS Sustainable Chemistry and Engineering, 2019, 7, 8055-8069.	3.2	95
1459	The emerging role of exosomes in mental disorders. Translational Psychiatry, 2019, 9, 122.	2.4	273
1460	Exosomal delivery of doxorubicin enables rapid cell entry and enhanced in vitro potency. PLoS ONE, 2019, 14, e0214545.	1.1	121
1461	Direct differentiation of bone marrow mononucleated cells into insulin producing cells using pancreatic Î²-cell-derived components. Scientific Reports, 2019, 9, 5343.	1.6	4
1462	Perspective in Nuclear Theranostics Using Exosome for the Brain. Nuclear Medicine and Molecular Imaging, 2019, 53, 108-114.	0.6	5
1463	Exosomes: composition, biogenesis, and mechanisms in cancer metastasis and drug resistance. Molecular Cancer, 2019, 18, 75.	7.9	853
1464	Naturally Occurring Exosome Vesicles as Potential Delivery Vehicle for Bioactive Compounds. Frontiers in Sustainable Food Systems, 2019, 3, .	1.8	162
1465	Explicating Exosomes: Reclassifying the Rising Stars of Intercellular Communication. Cell, 2019, 177, 225-227.	13.5	123
1466	Proteomic and Postâ€Translational Modification Profiling of Exosomeâ€Mimetic Nanovesicles Compared to Exosomes. Proteomics, 2019, 19, e1800161.	1.3	49
1467	Design strategies and application progress of therapeutic exosomes. Theranostics, 2019, 9, 1015-1028.	4.6	295
1468	Exosome Biochemistry and Advanced Nanotechnology for Nextâ€Generation Theranostic Platforms. Advanced Materials, 2019, 31, e1802896.	11.1	234
1469	A Novel Virtue in Stem Cell Research: Exosomes and Their Role in Differentiation. Advances in Experimental Medicine and Biology, 2019, 1144, 133-146.	0.8	4
1470	Milk exosomes - Natural nanoparticles for siRNA delivery. Cancer Letters, 2019, 449, 186-195.	3.2	219
1471	The role of exosomal shuttle RNA (esRNA) in lymphoma. Critical Reviews in Oncology/Hematology, 2019, 137, 27-34.	2.0	13

#	Article	IF	Citations
1472	Efficient exosome delivery in refractory tissues assisted by ultrasound-targeted microbubble destruction. Drug Delivery, 2019, 26, 45-50.	2.5	58
1473	Cell membrane capsule: a novel natural tool for antitumour drug delivery. Expert Opinion on Drug Delivery, 2019, 16, 251-269.	2.4	11
1474	The beneficial effects of physical exercise in the brain and related pathophysiological mechanisms in neurodegenerative diseases. Laboratory Investigation, 2019, 99, 943-957.	1.7	79
1475	Precise targeting of POLR2A as a therapeutic strategy for human triple negative breast cancer. Nature Nanotechnology, 2019, 14, 388-397.	15.6	107
1476	Peripheral Nervous System Toxicity Biomarkers. , 2019, , 187-207.		0
1477	Exosome-mediated targeted delivery of miR-210 for angiogenic therapy after cerebral ischemia in mice. Journal of Nanobiotechnology, 2019, 17, 29.	4.2	186
1478	Golden Exosomes Selectively Target Brain Pathologies in Neurodegenerative and Neurodevelopmental Disorders. Nano Letters, 2019, 19, 3422-3431.	4.5	252
1479	Correlative light and electron microscopy is a powerful tool to study interactions of extracellular vesicles with recipient cells. Experimental Cell Research, 2019, 376, 149-158.	1.2	11
1480	Tumor-specific delivery of KRAS siRNA with iRGD-exosomes efficiently inhibits tumor growth. ExRNA, 2019, 1, .	1.0	34
1481	Targeted delivery of lysosomal enzymes to the endocytic compartment in human cells using engineered extracellular vesicles. Scientific Reports, 2019, 9, 17274.	1.6	36
1482	Extracellular vesicle-based drug delivery systems for cancer treatment. Theranostics, 2019, 9, 8001-8017.	4.6	252
1483	Self-Assembled saRNA Delivery System Based on Rolling Circle Transcription for Aptamer-Targeting Cancer Therapy. ACS Applied Bio Materials, 2019, 2, 4737-4746.	2.3	4
1484	Extracellular Vesicles and Neurodegenerative Diseases. Journal of Neuroscience, 2019, 39, 9269-9273.	1.7	234
1485	Differentially expressed miRNAs in circulating exosomes between atrial fibrillation and sinus rhythm. Journal of Thoracic Disease, 2019, 11, 4337-4348.	0.6	32
1486	Extracellular vesicles in chronic obstructive pulmonary disease (COPD). Journal of Thoracic Disease, 2019, 11, S2141-S2154.	0.6	36
1487	Efficient encapsulation of theranostic nanoparticles in cell-derived exosomes: leveraging the exosomal biogenesis pathway to obtain hollow gold nanoparticle-hybrids. Nanoscale, 2019, 11, 18825-18836.	2.8	103
1488	The Biology and Therapeutic Applications of Red Blood Cell Extracellular Vesicles. , 0, , .		9
1489	Therapeutic Prospects of mRNA-Based Gene Therapy for Glioblastoma. Frontiers in Oncology, 2019, 9, 1208.	1.3	43

#	Article	IF	Citations
1490	Transplacental Gene Delivery (TPGD) as a Noninvasive Tool for Fetal Gene Manipulation in Mice. International Journal of Molecular Sciences, 2019, 20, 5926.	1.8	11
1491	NeuroEVs: Characterizing Extracellular Vesicles Generated in the Neural Domain. Journal of Neuroscience, 2019, 39, 9262-9268.	1.7	35
1492	A Nanodrug Consisting Of Doxorubicin And Exosome Derived From Mesenchymal Stem Cells For Osteosarcoma Treatment In Vitro . International Journal of Nanomedicine, 2019, Volume 14, 8603-8610.	3.3	197
1493	Long Non-coding RNA DANCR as an Emerging Therapeutic Target in Human Cancers. Frontiers in Oncology, 2019, 9, 1225.	1.3	64
1494	Exosomal Transport and Progression of Neurodegeneration in Amyotrophic Lateral Sclerosis. Neurochemical Journal, 2019, 13, 229-239.	0.2	2
1495	Attenuation of neuroinflammation reverses Adriamycin-induced cognitive impairments. Acta Neuropathologica Communications, 2019, 7, 186.	2.4	38
1496	Mesenchymal Stem Cell-Derived Exosomes and Other Extracellular Vesicles as New Remedies in the Therapy of Inflammatory Diseases. Cells, 2019, 8, 1605.	1.8	433
1497	Addressing the Manufacturing Challenges of Cell-Based Therapies. Advances in Biochemical Engineering/Biotechnology, 2019, 171, 225-278.	0.6	14
1498	Engineered Extracellular Vesicles as a Reliable Tool in Cancer Nanomedicine. Cancers, 2019, 11, 1979.	1.7	67
1499	The Intracellular Delivery Of Anti-HPV16 E7 scFvs Through Engineered Extracellular Vesicles Inhibits The Proliferation Of HPV-Infected Cells . International Journal of Nanomedicine, 2019, Volume 14, 8755-8768.	3.3	18
1500	Effects of Lyophilization of Arginine-rich Cell-penetrating Peptide-modified Extracellular Vesicles on Intracellular Delivery. Anticancer Research, 2019, 39, 6701-6709.	0.5	17
1501	The Interplay between the Endocannabinoid System, Epilepsy and Cannabinoids. International Journal of Molecular Sciences, 2019, 20, 6079.	1.8	43
1502	Advances on Non-Genetic Cell Membrane Engineering for Biomedical Applications. Polymers, 2019, 11, 2017.	2.0	10
1503	Traumatic Brain Injuries: Pathophysiology and Potential Therapeutic Targets. Frontiers in Cellular Neuroscience, 2019, 13, 528.	1.8	383
1504	Noninvasive Assessment of Exosome Pharmacokinetics In Vivo: A Review. Pharmaceutics, 2019, 11, 649.	2.0	30
1505	Extracellular Vesicles for Research on Psychiatric Disorders. Schizophrenia Bulletin, 2019, 45, 7-16.	2.3	12
1506	Exosomes and microRNAs: New potential therapeutic candidates in Alzheimer disease therapy. Journal of Cellular Physiology, 2019, 234, 2296-2305.	2.0	74
1507	Dental Pulp Stem Cell-Derived Conditioned Medium: An Attractive Alternative for Regenerative Therapy. Tissue Engineering - Part B: Reviews, 2019, 25, 78-88.	2.5	73

#	Article	IF	Citations
1508	Role of miRNAs in immune responses and immunotherapy in cancer. Genes Chromosomes and Cancer, 2019, 58, 244-253.	1.5	105
1509	Extracellular Vesicles as Conduits of Non-Coding RNA Emission and Intercellular Transfer in Brain Tumors. Non-coding RNA, 2019, 5, 1.	1.3	48
1510	Synthetic Biology: Engineering Mammalian Cells To Control Cellâ€toâ€Cell Communication at Will. ChemBioChem, 2019, 20, 994-1002.	1.3	17
1511	Stem cell therapy in Alzheimerâ€™s disease: possible benefits and limiting drawbacks. Molecular Biology Reports, 2019, 46, 1425-1446.	1.0	51
1512	Methods of Delivering Molecules Through the Blood-Brain Barrier for Brain Diagnostics and Therapeutics. Neuromethods, 2019, , 9-43.	0.2	2
1513	Extracellular vesicles for personalized medicine: The input of physically triggered production, loading and theranostic properties. Advanced Drug Delivery Reviews, 2019, 138, 247-258.	6.6	82
1514	Exosomes: The next generation of endogenous nanomaterials for advanced drug delivery and therapy. Acta Biomaterialia, 2019, 86, 1-14.	4.1	275
1515	Nanocarriers as a powerful vehicle to overcome blood-brain barrier in treating neurodegenerative diseases: Focus on recent advances. Asian Journal of Pharmaceutical Sciences, 2019, 14, 480-496.	4.3	117
1516	The Potential of Exosomes From Cow Milk for Oral Delivery. Journal of Pharmaceutical Sciences, 2019, 108, 1496-1505.	1.6	110
1517	Treating Disease at the RNA Level with Oligonucleotides. New England Journal of Medicine, 2019, 380, 57-70.	13.9	223
1518	Stem Cell Extracellular Vesicles in Skin Repair. Bioengineering, 2019, 6, 4.	1.6	66
1519	Influenza vaccine: Where are we and where do we go?. Reviews in Medical Virology, 2019, 29, e2014.	3.9	67
1520	Re: Circulating Extracellular Vesicles in Human Disease. European Urology, 2019, 75, 342-343.	0.9	4
1521	Circulating miRâ€26a and miRâ€21 as biomarkers for glioblastoma multiform. Biotechnology and Applied Biochemistry, 2019, 66, 261-265.	1.4	32
1522	Role of tumor-derived exosomes in cancer metastasis. Biochimica Et Biophysica Acta: Reviews on Cancer, 2019, 1871, 12-19.	3.3	82
1523	Characterization and Therapeutic Uses of Exosomes: A New Potential Tool in Orthopedics. Stem Cells and Development, 2019, 28, 141-150.	1.1	11
1524	Receptor-mediated transportation through BBB. , 2019, , 105-128.		3
1525	Minimally Invasive and Regenerative Therapeutics. Advanced Materials, 2019, 31, e1804041.	11.1	112

#	Article	IF	Citations
1526	Selection of Membrane RNA Aptamers to Amyloid Beta Peptide: Implications for Exosome-Based Antioxidant Strategies. International Journal of Molecular Sciences, 2019, 20, 299.	1.8	15
1527	Extracellular vesicles can act as a potent immunomodulators of human microglial cells. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 309-318.	1.3	13
1528	Aptamer-Functionalized Exosomes: Elucidating the Cellular Uptake Mechanism and the Potential for Cancer-Targeted Chemotherapy. Analytical Chemistry, 2019, 91, 2425-2430.	3.2	130
1529	MiR-124 Enriched Exosomes Promoted the M2 Polarization of Microglia and Enhanced Hippocampus Neurogenesis After Traumatic Brain Injury by Inhibiting TLR4 Pathway. Neurochemical Research, 2019, 44, 811-828.	1.6	142
1530	Neural-Derived Extracellular Vesicles in Clinical Trials. JAMA Neurology, 2019, 76, 402.	4.5	13
1531	Tumorâ€derived exosomes: Potential biomarkers and therapeutic target in the treatment of colorectal cancer. Journal of Cellular Physiology, 2019, 234, 12422-12432.	2.0	40
1532	Exosomes Derived from Human Primed Mesenchymal Stem Cells Induce Mitosis and Potentiate Growth Factor Secretion. Stem Cells and Development, 2019, 28, 398-409.	1.1	51
1533	Modification of Cardiac Progenitor Cell-Derived Exosomes by miR-322 Provides Protection against Myocardial Infarction through Nox2-Dependent Angiogenesis. Antioxidants, 2019, 8, 18.	2.2	61
1534	On the Choice of the Extracellular Vesicles for Therapeutic Purposes. International Journal of Molecular Sciences, 2019, 20, 236.	1.8	81
1535	Blood-Brain Barrier: From Physiology to Disease and Back. Physiological Reviews, 2019, 99, 21-78.	13.1	1,232
1536	The therapeutic and diagnostic role of exosomes in cardiovascular diseases. Trends in Cardiovascular Medicine, 2019, 29, 313-323.	2.3	112
1537	microRNA modified tumorâ€derived exosomes as novel tools for maturation of dendritic cells. Journal of Cellular Physiology, 2019, 234, 9417-9427.	2.0	62
1538	Small interfering RNAâ€“mediated gene suppression as a therapeutic intervention in hepatocellular carcinoma. Journal of Cellular Physiology, 2019, 234, 3263-3276.	2.0	31
1539	Lab-on-a-chip technology and microfluidics. , 2019, , 3-36.		11
1540	Exosomes: Isolation, Analysis, and Applications in Cancer Detection and Therapy. ChemBioChem, 2019, 20, 451-461.	1.3	92
1541	Nanotechnology in Targeted Drug Delivery and Therapeutics. , 2019, , 357-409.		17
1542	Gesicle-Mediated Delivery of CRISPR/Cas9 Ribonucleoprotein Complex for Inactivating the HIV Provirus. Molecular Therapy, 2019, 27, 151-163.	3.7	94
1543	Nanotherapeutic strategies for the treatment of neurodegenerative diseases. , 2019, , 321-356.		14

#	Article	IF	Citations
1544	Exosomes: fighting cancer with cancer. Therapeutic Delivery, 2019, 10, 37-61.	1.2	22
1545	Exosome as a Novel Shuttle for Delivery of Therapeutics across Biological Barriers. Molecular Pharmaceutics, 2019, 16, 24-40.	2.3	163
1546	In Vitro and in Vivo RNA Inhibition by CD9-HuR Functionalized Exosomes Encapsulated with miRNA or CRISPR/dCas9. Nano Letters, 2019, 19, 19-28.	4.5	194
1547	Targeting central nervous system pathologies with nanomedicines. Journal of Drug Targeting, 2019, 27, 542-554.	2.1	16
1548	miRNA-based therapeutic potential of stem cell-derived extracellular vesicles: a safe cell-free treatment to ameliorate radiation-induced brain injury. International Journal of Radiation Biology, 2019, 95, 427-435.	1.0	32
1549	Extracellular Vesicles: Mechanisms in Human Health and Disease. Antioxidants and Redox Signaling, 2019, 30, 813-856.	2.5	92
1550	Mesenchymal Stem Cell-Derived Exosomes Provide Neuroprotection and Improve Long-Term Neurologic Outcomes in a Swine Model of Traumatic Brain Injury and Hemorrhagic Shock. Journal of Neurotrauma, 2019, 36, 54-60.	1.7	116
1551	Exosomal biomarkers in oral diseases. Oral Diseases, 2019, 25, 10-15.	1.5	14
1552	Mesenchymal Stem Cell (MSC)â€Derived Extracellular Vesicles: Potential Therapeutics as MSC Trophic Mediators in Regenerative Medicine. Anatomical Record, 2020, 303, 1735-1742.	0.8	23
1553	Branched and Dendritic Polymer Architectures: Functional Nanomaterials for Therapeutic Delivery. Advanced Functional Materials, 2020, 30, 1901001.	7.8	109
1554	Reprogramming extracellular vesicles with engineered proteins. Methods, 2020, 177, 95-102.	1.9	16
1555	Emerging therapeutic roles of exosomes in HIV-1 infection. , 2020, , 147-178.		6
1556	Engineered extracellular vesicles and their mimetics for clinical translation. Methods, 2020, 177, 80-94.	1.9	26
1557	Exosomes and cancer: From oncogenic roles to therapeutic applications. IUBMB Life, 2020, 72, 724-748.	1.5	47
1558	Targeted Exosomes for Drug Delivery: Biomanufacturing, Surface Tagging, and Validation. Biotechnology Journal, 2020, 15, e1900163.	1.8	52
1559	Exosomes, microvesicles, and their friends in solid tumors. , 2020, , 39-80.		3
1560	The function and therapeutic use of exosomes in bacterial infections. , 2020, , 123-146.		1
1561	Potential role of exosomes in reproductive medicine and pregnancy. , 2020, , 357-381.		0

#	Article	IF	Citations
1562	Adipocyteâ€derived extracellular vesicles modulate appetite and weight through mTOR signalling in the hypothalamus. Acta Physiologica, 2020, 228, e13339.	1.8	45
1563	Biological characteristics of exosomes and genetically engineered exosomes for the targeted delivery of therapeutic agents. Journal of Drug Targeting, 2020, 28, 129-141.	2.1	52
1564	Intranasal Delivery of lincRNA-Cox2 siRNA Loaded Extracellular Vesicles Decreases Lipopolysaccharide-Induced Microglial Proliferation in Mice. Journal of NeuroImmune Pharmacology, 2020, 15, 390-399.	2.1	36
1565	Urinary extracellular vesicles: Origin, role as intercellular messengers and biomarkers; efficient sorting and potential treatment options. Acta Physiologica, 2020, 228, e13346.	1.8	62
1566	Ligandâ€installed Nanocarriers toward Precision Therapy. Advanced Materials, 2020, 32, e1902604.	11.1	189
1567	Strategies for the use of Extracellular Vesicles for the Delivery of Therapeutics. Journal of NeuroImmune Pharmacology, 2020, 15, 422-442.	2.1	63
1568	Extracellular Vesicles as Drug Delivery Vehicles to the Central Nervous System. Journal of NeuroImmune Pharmacology, 2020, 15, 443-458.	2.1	50
1569	Extracellular vesicles as biomarkers and therapeutic targets for cancer. American Journal of Physiology - Cell Physiology, 2020, 318, C29-C39.	2.1	162
1570	Engineered extracellular vesicles with synthetic lipids via membrane fusion to establish efficient gene delivery. International Journal of Pharmaceutics, 2020, 573, 118802.	2.6	88
1571	Passion fruit-like exosome-PMA/Au-BSA@Ce6 nanovehicles for real-time fluorescence imaging and enhanced targeted photodynamic therapy with deep penetration and superior retention behavior in tumor. Biomaterials, 2020, 230, 119606.	5.7	106
1572	Systemic delivery of microRNA-21 antisense oligonucleotides to the brain using T7-peptide decorated exosomes. Journal of Controlled Release, 2020, 317, 273-281.	4.8	163
1573	An overview of current knowledge in biological functions and potential theragnostic applications of exosomes. Chemistry and Physics of Lipids, 2020, 226, 104836.	1.5	44
1574	Macrophage-Derived Extracellular Vesicles as Drug Delivery Systems for Triple Negative Breast Cancer (TNBC) Therapy. Journal of NeuroImmune Pharmacology, 2020, 15, 487-500.	2.1	125
1575	Corrosion characteristics of zincâ€“zirconium alloy in câ€SBF and its biocompatibility in vitro/in vivo. Materials and Corrosion - Werkstoffe Und Korrosion, 2020, 71, 196-208.	0.8	10
1576	Modulation of retinoid signaling: therapeutic opportunities in organ fibrosis and repair. , 2020, 205, 107415.		23
1577	MSC-exosomes in regenerative medicine. , 2020, , 433-465.		3
1578	Identification and characterization of multiple dsRNases from a lepidopteran insect, the tobacco cutworm, Spodoptera litura (Lepidoptera: Noctuidae). Pesticide Biochemistry and Physiology, 2020, 162, 86-95.	1.6	32
1579	Methods for loading therapeutics into extracellular vesicles and generating extracellular vesicles mimetic-nanovesicles. Methods, 2020, 177, 103-113.	1.9	64

#	Article	IF	Citations
1580	Extracellular Vesicles and Metastasis. Cold Spring Harbor Perspectives in Medicine, 2020, 10, a037275.	2.9	31
1581	Novel therapeutic strategies for Alzheimer's disease: Implications from cell-based therapy and nanotherapy. Nanomedicine: Nanotechnology, Biology, and Medicine, 2020, 24, 102149.	1.7	35
1582	Exosomes coâ€expressing AQP5â€targeting miRNAs and ILâ€4 receptorâ€binding peptide inhibit the migration of human breast cancer cells. FASEB Journal, 2020, 34, 3379-3398.	0.2	40
1583	Engineering of Exosomes to Target Cancer Metastasis. Cellular and Molecular Bioengineering, 2020, 13, 1-16.	1.0	58
1584	The nanostructured secretome. Biomaterials Science, 2020, 8, 39-63.	2.6	36
1585	Neuronalâ€derived extracellular vesicles are enriched in the brain and serum of HIVâ€1 transgenic rats. Journal of Extracellular Vesicles, 2020, 9, 1703249.	5.5	31
1586	Engineering Extracellular Vesicles as Nanotherapeutics for Regenerative Medicine. Biomolecules, 2020, 10, 48.	1.8	73
1587	Engineered exosomes for targeted co-delivery of miR-21 inhibitor and chemotherapeutics to reverse drug resistance in colon cancer. Journal of Nanobiotechnology, 2020, 18, 10.	4.2	380
1588	Precision-Guided Missile-Like DNA Nanostructure Containing Warhead and Guidance Control for Aptamer-Based Targeted Drug Delivery into Cancer Cells in Vitro and in Vivo. Journal of the American Chemical Society, 2020, 142, 1265-1277.	6.6	131
1589	Nanogel hybrid assembly for exosome intracellular delivery: effects on endocytosis and fusion by exosome surface polymer engineering. Biomaterials Science, 2020, 8, 619-630.	2.6	61
1590	Biomimetic drug-delivery systems for the management of brain diseases. Biomaterials Science, 2020, 8, 1073-1088.	2.6	53
1591	Extracellular vesicle (ECV)-modified polyethylenimine (PEI) complexes for enhanced siRNA delivery in vitro and in vivo. Journal of Controlled Release, 2020, 319, 63-76.	4.8	101
1592	Enhanced Loading of Functional miRNA Cargo via pH Gradient Modification of Extracellular Vesicles. Molecular Therapy, 2020, 28, 975-985.	3.7	102
1593	Stable tRNA halves can be sorted into extracellular vesicles and delivered to recipient cells in a concentration-dependent manner. RNA Biology, 2020, 17, 1168-1182.	1.5	42
1594	Large-scale generation of functional mRNA-encapsulating exosomes via cellular nanoporation. Nature Biomedical Engineering, 2020, 4, 69-83.	11.6	415
1595	Mesenchymal stromal cell-derived exosomes ameliorate peripheral neuropathy in a mouse model of diabetes. Diabetologia, 2020, 63, 431-443.	2.9	119
1596	Extracellular blebs: Artificially-induced extracellular vesicles for facile production and clinical translation. Methods, 2020, 177, 135-145.	1.9	33
1597	MicroRNA mediators of early life stress vulnerability to depression and suicidal behavior. Molecular Psychiatry, 2020, 25, 308-320.	4.1	106

#	Article	IF	Citations
1598	The role of endothelial miRNAs in myocardial biology and disease. Journal of Molecular and Cellular Cardiology, 2020, 138, 75-87.	0.9	20
1599	Antisense oligonucleotide therapeutics in neurodegenerative diseases: the case of polyglutamine disorders. Brain, 2020, 143, 407-429.	3.7	49
1600	Use of lung-specific exosomes for miRNA-126 delivery in non-small cell lung cancer. Nanoscale, 2020, 12, 877-887.	2.8	146
1601	Bone marrow mesenchymal stem cells-derived exosomes for penetrating and targeted chemotherapy of pancreatic cancer. Acta Pharmaceutica Sinica B, 2020, 10, 1563-1575.	5.7	78
1602	Post-production modifications of murine mesenchymal stem cell (mMSC) derived extracellular vesicles (EVs) and impact on their cellular interaction. Biomaterials, 2020, 231, 119675.	5.7	59
1603	Mononuclear phagocyte system blockade improves therapeutic exosome delivery to the myocardium. Theranostics, 2020, 10, 218-230.	4.6	115
1604	Engineered Cellâ€Derived Microparticles Bi₂Se₃/DOX@MPs for Imaging Guided Synergistic Photothermal/Lowâ€Dose Chemotherapy of Cancer. Advanced Science, 2020, 7, 1901293.	5.6	68
1605	Extracellular vesicles and their roles in stem cell biology. Stem Cells, 2020, 38, 469-476.	1.4	34
1606	Low level electricity increases the secretion of extracellular vesicles from cultured cells. Biochemistry and Biophysics Reports, 2020, 21, 100713.	0.7	34
1607	Exosome-mediated siRNA delivery to suppress postoperative breast cancer metastasis. Journal of Controlled Release, 2020, 318, 1-15.	4.8	233
1608	Exosomes-mediated synthetic Dicer substrates delivery for intracellular Dicer imaging detection. Biosensors and Bioelectronics, 2020, 151, 111907.	5.3	11
1609	Transmigration of Tetraspanin 2 (Tspan2) siRNA Via Microglia Derived Exosomes across the Blood Brain Barrier Modifies the Production of Immune Mediators by Microglia Cells. Journal of NeuroImmune Pharmacology, 2020, 15, 554-563.	2.1	33
1610	Astrocytesâ€derived exosomes induce neuronal recovery after traumatic brain injury via delivering gap junction alpha 1â€20 k. Journal of Tissue Engineering and Regenerative Medicine, 2020, 14, 412-423.	1.3	45
1611	Genetically Engineered Cell-Derived Nanoparticles for Targeted Breast Cancer Immunotherapy. Molecular Therapy, 2020, 28, 536-547.	3.7	135
1612	The blood-brain barrier: Physiology and strategies for drug delivery. Advanced Drug Delivery Reviews, 2020, 165-166, 1-14.	6.6	292
1613	The Role of Vesicle Trafficking and Release in Oligodendrocyte Biology. Neurochemical Research, 2020, 45, 620-629.	1.6	15
1614	Prospective application of exosomes derived from adiposeâ€derived stem cells in skin wound healing: A review. Journal of Cosmetic Dermatology, 2020, 19, 574-581.	0.8	67
1615	Combined bioscaffold with stem cells and exosomes can improve traumatic brain injury. Stem Cell Reviews and Reports, 2020, 16, 323-334.	1.7	19

#	Article	IF	Citations
1616	Delivery of LNA-antimiR-142-3p by Mesenchymal Stem Cells-Derived Exosomes to Breast Cancer Stem Cells Reduces Tumorigenicity. Stem Cell Reviews and Reports, 2020, 16, 541-556.	1.7	58
1617	Addressing cancer signal transduction pathways with antisense and siRNA oligonucleotides. NAR Cancer, 2020, 2, zcaa025.	1.6	16
1618	Exosomes derived from smooth muscle cells ameliorate diabetesâ€induced erectile dysfunction by inhibiting fibrosis and modulating the NO/cGMP pathway. Journal of Cellular and Molecular Medicine, 2020, 24, 13289-13302.	1.6	29
1619	Extracellular Vesicles as an Efficient and Versatile System for Drug Delivery. Cells, 2020, 9, 2191.	1.8	66
1620	Role of Extracellular Vesicles in Substance Abuse and HIV-Related Neurological Pathologies. International Journal of Molecular Sciences, 2020, 21, 6765.	1.8	9
1621	Emerging Role of Extracellular Vesicles in the Pathophysiology of Multiple Sclerosis. International Journal of Molecular Sciences, 2020, 21, 7336.	1.8	39
1622	Next Stage Approach to Tissue Engineering Skeletal Muscle. Bioengineering, 2020, 7, 118.	1.6	9
1623	Overcoming Barriers for siRNA Therapeutics: From Bench to Bedside. Pharmaceuticals, 2020, 13, 294.	1.7	105
1624	Bone-Targeted Extracellular Vesicles from Mesenchymal Stem Cells for Osteoporosis Therapy . International Journal of Nanomedicine, 2020, Volume 15, 7967-7977.	3.3	47
1625	Cardiovascular drug delivery: A review on the recent advancements in nanocarrier based drug delivery with a brief emphasis on the novel use of magnetoliposomes and extracellular vesicles and ongoing clinical trial research. Journal of Drug Delivery Science and Technology, 2020, 60, 102029.	1.4	14
1626	Therapeutic miRNA-Enriched Extracellular Vesicles: Current Approaches and Future Prospects. Cells, 2020, 9, 2271.	1.8	69
1627	Metabolic regulation of aging and age-related disease. Ageing Research Reviews, 2020, 64, 101175.	5.0	14
1628	Exosomes: The protagonists in the tale of colorectal cancer?. Biochimica Et Biophysica Acta: Reviews on Cancer, 2020, 1874, 188426.	3.3	26
1629	Exosomes from different cells: Characteristics, modifications, and therapeutic applications. European Journal of Medicinal Chemistry, 2020, 207, 112784.	2.6	59
1630	Exosome: A Review of Its Classification, Isolation Techniques, Storage, Diagnostic and Targeted Therapy Applications . International Journal of Nanomedicine, 2020, Volume 15, 6917-6934.	3.3	564
1631	Exosomal Delivery of AntagomiRs Targeting Viral and Cellular MicroRNAs Synergistically Inhibits Cancer Angiogenesis. Molecular Therapy - Nucleic Acids, 2020, 22, 153-165.	2.3	31
1632	The Role of Exosomal microRNAs and Oxidative Stress in Neurodegenerative Diseases. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-17.	1.9	74
1633	Molecular mechanisms of psychiatric diseases. Neurobiology of Disease, 2020, 146, 105136.	2.1	21

#	Article	IF	Citations
1634	Role of extracellular vesicles in tumour microenvironment. Cell Communication and Signaling, 2020, 18, 163.	2.7	43
1635	Targeted doxorubicin-loaded mesenchymal stem cells-derived exosomes as a versatile platform for fighting against colorectal cancer. Life Sciences, 2020, 261, 118369.	2.0	125
1636	Platelet Extracellular Vesicles. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, 87-96.	1.1	83
1637	Gene Editing by Extracellular Vesicles. International Journal of Molecular Sciences, 2020, 21, 7362.	1.8	30
1638	Analysis of extracellular vesicles as emerging theranostic nanoplatforms. Coordination Chemistry Reviews, 2020, 424, 213506.	9.5	31
1639	Exosome engineering: Current progress in cargo loading and targeted delivery. NanoImpact, 2020, 20, 100261.	2.4	217
1640	Clinical failure of nanoparticles in cancer: mimicking nature's solutions. Nanomedicine, 2020, 15, 2311-2324.	1.7	16
1641	Blood-brain barrierâ€“penetrating siRNA nanomedicine for Alzheimerâ€™s disease therapy. Science Advances, 2020, 6, .	4.7	135
1642	A low-intensity focused ultrasound-assisted nanocomposite for advanced triple cancer therapy: local chemotherapy, therapeutic extracellular vesicles and combined immunotherapy. Biomaterials Science, 2020, 8, 6703-6717.	2.6	16
1643	Exosomal Angiogenin as a Potential Biomarker in Amyotrophic Lateral Sclerosis. Neurochemical Journal, 2020, 14, 321-327.	0.2	2
1644	Emerging Prospects of Exosomes for Cancer Treatment: From Conventional Therapy to Immunotherapy. Advanced Materials, 2020, 32, e2002440.	11.1	160
1645	Exosomes derived from TSG-6 modified mesenchymal stromal cells attenuate scar formation during wound healing. Biochimie, 2020, 177, 40-49.	1.3	50
1646	Enhanced exosome-mediated delivery of black bean phytochemicals (Phaseolus vulgaris L.) for cancer treatment applications. Biomedicine and Pharmacotherapy, 2020, 131, 110771.	2.5	34
1647	Extracellular vesicle signalling in atherosclerosis. Cellular Signalling, 2020, 75, 109751.	1.7	27
1648	Efficient encapsulation of biocompatible nanoparticles in exosomes for cancer theranostics. Nano Today, 2020, 35, 100964.	6.2	33
1649	Cancer Nanomedicines in an Evolving Oncology Landscape. Trends in Pharmacological Sciences, 2020, 41, 730-742.	4.0	32
1650	Glycoproteomic Analysis of Human Urinary Exosomes. Analytical Chemistry, 2020, 92, 14357-14365.	3.2	12
1651	High-Throughput and Self-Powered Electroporation System for Drug Delivery Assisted by Microfoam Electrode. ACS Nano, 2020, 14, 15458-15467.	7.3	41

#	Article	IF	Citations
1652	Extracellular Vesicles in Fungi: Past, Present, and Future Perspectives. Frontiers in Cellular and Infection Microbiology, 2020, 10, 346.	1.8	91
1653	Gold nanoparticles change small extracellular vesicle attributes of mouse embryonic stem cells. Nanoscale, 2020, 12, 15631-15637.	2.8	10
1654	Therapeutic antisense oligonucleotides for movement disorders. Medicinal Research Reviews, 2021, 41, 2656-2688.	5.0	15
1655	Delivery strategies for macromolecular drugs in cancer therapy. Acta Pharmaceutica Sinica B, 2020, 10, 979-986.	5.7	64
1656	From Endocytosis to Nonendocytosis: The Emerging Era of Gene Delivery. ACS Applied Bio Materials, 2020, 3, 2686-2701.	2.3	36
1657	Extracellular vesicle-based Nanotherapeutics: Emerging frontiers in anti-inflammatory therapy. Theranostics, 2020, 10, 8111-8129.	4.6	67
1658	Exosome: a significant nano-scale drug delivery carrier. Journal of Materials Chemistry B, 2020, 8, 7591-7608.	2.9	108
1659	Therapeutic Effects of Simultaneous Delivery of Nerve Growth Factor mRNA and Protein via Exosomes on Cerebral Ischemia. Molecular Therapy - Nucleic Acids, 2020, 21, 512-522.	2.3	84
1660	Generation of Novel Diagnostic and Therapeutic Exosomes to Detect and Deplete Protumorigenic M2 Macrophages. Advanced Therapeutics, 2020, 3, 1900209.	1.6	14
1661	Exosomes derived from human exfoliated deciduous teeth ameliorate adult bone loss in mice through promoting osteogenesis. Journal of Molecular Histology, 2020, 51, 455-466.	1.0	40
1662	Nano Carrier Drug Delivery Systems for the Treatment of Neuropsychiatric Disorders: Advantages and Limitations. Molecules, 2020, 25, 5294.	1.7	57
1663	Dual-Targeted Extracellular Vesicles to Facilitate Combined Therapies for Neuroendocrine Cancer Treatment. Pharmaceutics, 2020, 12, 1079.	2.0	13
1664	Scalable Production of Human Mesenchymal Stromal Cell-Derived Extracellular Vesicles Under Serum-/Xeno-Free Conditions in a Microcarrier-Based Bioreactor Culture System. Frontiers in Cell and Developmental Biology, 2020, 8, 553444.	1.8	78
1665	Challenges and translational considerations of mesenchymal stem/stromal cell therapy for Parkinsonâ€™s disease. Npj Regenerative Medicine, 2020, 5, 20.	2.5	44
1666	CNS-Targeting Therapies for Lysosomal Storage Diseases: Current Advances and Challenges. Frontiers in Molecular Biosciences, 2020, 7, 559804.	1.6	38
1667	Mechanisms of Action of EGFR Tyrosine Kinase Receptor Incorporated in Extracellular Vesicles. Cells, 2020, 9, 2505.	1.8	18
1668	Nanomaterials for Therapeutic RNA Delivery. Matter, 2020, 3, 1948-1975.	5.0	67
1669	Advances in Exosome-Based Drug Delivery and Tumor Targeting: From Tissue Distribution to Intracellular Fate . International Journal of Nanomedicine, 2020, Volume 15, 9355-9371.	3.3	132

#	Article	IF	Citations
1670	The Dichotomous Role of Extracellular Vesicles in the Central Nervous System. IScience, 2020, 23, 101456.	1.9	22
1671	Extracellular vesicles in cardiovascular disease. Advances in Clinical Chemistry, 2021, 103, 47-95.	1.8	33
1672	Emerging Role of Extracellular Vesicles in Immune Regulation and Cancer Progression. Cancers, 2020, 12, 3563.	1.7	44
1673	Clinical Applications of Mesenchymal Stem/Stromal Cell Derived Extracellular Vesicles: Therapeutic Potential of an Acellular Product. Diagnostics, 2020, 10, 999.	1.3	34
1674	Recent Advancements in the Loading and Modification of Therapeutic Exosomes. Frontiers in Bioengineering and Biotechnology, 2020, 8, 586130.	2.0	81
1675	The Role of Extracellular Vesicles in Demyelination of the Central Nervous System. International Journal of Molecular Sciences, 2020, 21, 9111.	1.8	6
1676	Extracellular Vesicle-Based Therapeutics: Preclinical and Clinical Investigations. Pharmaceutics, 2020, 12, 1171.	2.0	60
1677	Isolation and characterization of exosomes for cancer research. Journal of Hematology and Oncology, 2020, 13, 152.	6.9	218
1678	Recent advances in siRNA delivery mediated by lipid-based nanoparticles. Advanced Drug Delivery Reviews, 2020, 154-155, 64-78.	6.6	192
1679	Extracellular Vesicle Membrane-Associated Proteins: Emerging Roles in Tumor Angiogenesis and Anti-Angiogenesis Therapy Resistance. International Journal of Molecular Sciences, 2020, 21, 5418.	1.8	28
1680	Fetal bovine serum-derived exosomes regulate the adipogenic differentiation of human bone marrow mesenchymal stromal cells in a cross-species manner. Differentiation, 2020, 115, 11-21.	1.0	4
1681	Transmissible Endosomal Intoxication: A Balance between Exosomes and Lysosomes at the Basis of Intercellular Amyloid Propagation. Biomedicines, 2020, 8, 272.	1.4	18
1682	Efficient Doxorubicin Loading to Isolated Dexosomes of Immature JAWSII Cells: Formulated and Characterized as the Bionanomaterial. Materials, 2020, 13, 3344.	1.3	6
1683	Advances in oligonucleotide drug delivery. Nature Reviews Drug Discovery, 2020, 19, 673-694.	21.5	1,036
1684	Exosomeâ€Mimetic Supramolecular Vesicles with Reversible and Controllable Fusion and Fission**. Angewandte Chemie, 2020, 132, 21694-21698.	1.6	5
1685	Exosomeâ€Mimetic Supramolecular Vesicles with Reversible and Controllable Fusion and Fission**. Angewandte Chemie - International Edition, 2020, 59, 21510-21514.	7.2	23
1686	Tropism-facilitated delivery of CRISPR/Cas9 system with chimeric antigen receptor-extracellular vesicles against B-cell malignancies. Journal of Controlled Release, 2020, 326, 455-467.	4.8	54
1687	Natural killer cellâ€“derived extracellular vesicles in cancer therapy. Scandinavian Journal of Immunology, 2020, 92, e12938.	1.3	22

#	Article	IF	Citations
1688	Chimeric apoptotic bodies functionalized with natural membrane and modular delivery system for inflammation modulation. Science Advances, 2020, 6, eaba2987.	4.7	86
1689	Regulatory Role of Immune Cell-Derived Extracellular Vesicles in Cancer: The Message Is in the Envelope. Frontiers in Immunology, 2020, 11, 1525.	2.2	19
1690	miR-137: A Novel Therapeutic Target for Human Glioma. Molecular Therapy - Nucleic Acids, 2020, 21, 614-622.	2.3	22
1691	Milk-exosome based pH/light sensitive drug system to enhance anticancer activity against oral squamous cell carcinoma. RSC Advances, 2020, 10, 28314-28323.	1.7	50
1692	Extracellular vesicles in cardiovascular diseases. Cell Death Discovery, 2020, 6, 68.	2.0	79
1693	Engineered Extracellular Vesicles Loaded With miR-124 Attenuate Cocaine-Mediated Activation of Microglia. Frontiers in Cell and Developmental Biology, 2020, 8, 573.	1.8	41
1694	Development of New Strategies Using Extracellular Vesicles Loaded with Exogenous Nucleic Acid. Pharmaceutics, 2020, 12, 705.	2.0	34
1695	Surface functionalization of exosomes for target-specific delivery and in vivo imaging & tracking: Strategies and significance. Journal of Controlled Release, 2020, 326, 599-614.	4.8	209
1696	Designer Exosomes: A New Platform for Biotechnology Therapeutics. BioDrugs, 2020, 34, 567-586.	2.2	135
1697	Chondrocyte-Targeted MicroRNA Delivery by Engineered Exosomes toward a Cell-Free Osteoarthritis Therapy. ACS Applied Materials & Interfaces, 2020, 12, 36938-36947.	4.0	187
1698	Mesenchymal stem cellsâ€derived and siRNAsâ€encapsulated exosomes inhibit osteonecrosis of the femoral head. Journal of Cellular and Molecular Medicine, 2020, 24, 9605-9612.	1.6	9
1699	Extracellular Vesicles-Based Drug Delivery Systems: A New Challenge and the Exemplum of Malignant Pleural Mesothelioma. International Journal of Molecular Sciences, 2020, 21, 5432.	1.8	33
1700	Pulmonary involvement in systemic sclerosis: exploring cellular, genetic and epigenetic mechanisms. Rheumatology International, 2020, 40, 1555-1569.	1.5	11
1701	Separation and characterization of extracellular vesicles from human plasma by asymmetrical flow field-flow fractionation. Analytica Chimica Acta, 2020, 1127, 234-245.	2.6	41
1702	MicroRNA predicts cognitive performance in healthy older adults. Neurobiology of Aging, 2020, 95, 186-194.	1.5	27
1703	Magnetic targeting enhances the cutaneous wound healing effects of human mesenchymal stem cell-derived iron oxide exosomes. Journal of Nanobiotechnology, 2020, 18, 113.	4.2	78
1704	Exosomes derived from HEK293T cells interact in an efficient and noninvasive manner with mammalian sperm in vitro. Nanomedicine, 2020, 15, 1965-1980.	1.7	23
1705	Live long and active: Polypeptide-mediated assembly of antibody variable fragments. Advanced Drug Delivery Reviews, 2020, 167, 1-18.	6.6	8

#	Article	IF	Citations
1706	Extracellular Vesicle-Based Nucleic Acid Delivery: Current Advances and Future Perspectives in Cancer Therapeutic Strategies. Pharmaceutics, 2020, 12, 980.	2.0	26
1707	Fusion protein engineered exosomes for targeted degradation of specific RNAs in lysosomes: a proofâ€ofâ€concept study. Journal of Extracellular Vesicles, 2020, 9, 1816710.	5.5	31
1708	Strategies and materials of "SMART" non-viral vectors: Overcoming the barriers for brain gene therapy. Nano Today, 2020, 35, 101006.	6.2	23
1709	Part Two: Extracellular Vesicles as a Risk Factor in Neurodegenerative Diseases. , 2020, , .		0
1710	Part One: Extracellular Vesicles as Valuable Players in Diabetic Cardiovascular Diseases. , 2020, , .		4
1711	Heterogeneous Subcellular Origin of Exosome-Mimetic Nanovesicles Engineered from Cells. ACS Biomaterials Science and Engineering, 2020, 6, 6063-6068.	2.6	8
1712	Exploiting the Natural Properties of Extracellular Vesicles in Targeted Delivery towards Specific Cells and Tissues. Pharmaceutics, 2020, 12, 1022.	2.0	31
1713	Recent Advances in Extracellular Vesicles as Drug Delivery Systems and Their Potential in Precision Medicine. Pharmaceutics, 2020, 12, 1006.	2.0	31
1714	Cancer Extracellular Vesicles: Next-Generation Diagnostic and Drug Delivery Nanotools. Cancers, 2020, 12, 3165.	1.7	18
1715	Engineering extracellular vesicles for cancer therapy: recent advances and challenges in clinical translation. Biomaterials Science, 2020, 8, 6978-6991.	2.6	16
1716	Immunogenic exosome-encapsulated black phosphorus nanoparticles as an effective anticancer photo-nanovaccine. Nanoscale, 2020, 12, 19939-19952.	2.8	57
1717	Nanoparticle mediated alteration of EMT dynamics: an approach to modulate cancer therapeutics. Materials Advances, 2020, 1, 2614-2630.	2.6	10
1718	Characterization and heme oxygenaseâ€1 content of extracellular vesicles in human biofluids. Journal of Neurochemistry, 2021, 157, 2195-2209.	2.1	9
1719	Extracellular Vesicles â€“ Advanced Nanocarriers in Cancer Therapy: Progress and Achievements . International Journal of Nanomedicine, 2020, Volume 15, 6485-6502.	3.3	38
1720	Therapeutic potential of extracellular <scp>vesicleâ€associated</scp> long <scp>noncoding RNA</scp>. Bioengineering and Translational Medicine, 2020, 5, e10172.	3.9	41
1721	The evolving translational potential of small extracellular vesicles in cancer. Nature Reviews Cancer, 2020, 20, 697-709.	12.8	295
1722	Plasma-derived exosome-like vesicles are enriched in lyso-phospholipids and pass the blood-brain barrier. PLoS ONE, 2020, 15, e0232442.	1.1	32
1723	Extracellular Vesicles as Innovative Tool for Diagnosis, Regeneration and Protection against Neurological Damage. International Journal of Molecular Sciences, 2020, 21, 6859.	1.8	52

#	Article	IF	Citations
1724	Characterization of brainâ€derived extracellular vesicles reveals changes in cellular origin after stroke and enrichment of the prion protein with a potential role in cellular uptake. Journal of Extracellular Vesicles, 2020, 9, 1809065.	5.5	47
1725	Neurotoxicity of HIV-1 Tat is attributed to its penetrating property. Scientific Reports, 2020, 10, 14002.	1.6	12
1726	MicroRNAs and target genes in epileptogenesis. Epilepsia, 2020, 61, 2086-2096.	2.6	12
1727	Extracellular Vesicles as Nanotherapeutics for Parkinsonâ€™s Disease. Biomolecules, 2020, 10, 1327.	1.8	19
1728	The Role of Exosomes in Stemness and Neurodegenerative Diseasesâ€”Chemoresistant-Cancer Therapeutics and Phytochemicals. International Journal of Molecular Sciences, 2020, 21, 6818.	1.8	25
1729	Viral Proteinâ€Pseudotyped and siRNAâ€Electroporated Extracellular Vesicles for Cancer Immunotherapy. Advanced Functional Materials, 2020, 30, 2006515.	7.8	37
1730	Extracellular Vesicles in Viral Replication and Pathogenesis and Their Potential Role in Therapeutic Intervention. Viruses, 2020, 12, 887.	1.5	24
1731	Formulation, manufacturing and regulatory strategies for extracellular vesicles-based drug products for targeted therapy of central nervous system diseases. Expert Review of Precision Medicine and Drug Development, 2020, 5, 469-481.	0.4	8
1732	Exosomes in Alzheimerâ€™s Disease: Potential Role as Pathological Mediators, Biomarkers and Therapeutic Targets. Neurochemical Research, 2020, 45, 2553-2559.	1.6	22
1733	EVs and Bioengineering: From Cellular Products to Engineered Nanomachines. International Journal of Molecular Sciences, 2020, 21, 6048.	1.8	52
1734	Exosomes-Coated miR-34a Displays Potent Antitumor Activity in Pancreatic Cancer Both in vitro and in vivo . Drug Design, Development and Therapy, 2020, Volume 14, 3495-3507.	2.0	23
1735	Extracellular Vesicles in the Development of Cancer Therapeutics. International Journal of Molecular Sciences, 2020, 21, 6097.	1.8	40
1736	Mastering the Tools: Natural versus Artificial Vesicles in Nanomedicine. Advanced Healthcare Materials, 2020, 9, e2000731.	3.9	34
1737	Exosomes: A Source for New and Old Biomarkers in Cancer. Cancers, 2020, 12, 2566.	1.7	45
1738	Mesenchymal stem cell-derived exosome: a promising alternative in the therapy of Alzheimerâ€™s disease. Alzheimer's Research and Therapy, 2020, 12, 109.	3.0	83
1739	Milk Exosomes: Perspective Agents for Anticancer Drug Delivery. International Journal of Molecular Sciences, 2020, 21, 6646.	1.8	44
1740	Extracellular Vesicles in Bone Metastasis: Key Players in the Tumor Microenvironment and Promising Therapeutic Targets. International Journal of Molecular Sciences, 2020, 21, 6680.	1.8	16
1741	Exosomes secreted by hiPSC-derived cardiac cells improve recovery from myocardial infarction in swine. Science Translational Medicine, 2020, 12, .	5.8	112

#	Article	IF	Citations
1742	Exosomal miRNAs as Potential Diagnostic Biomarkers in Alzheimerâ€™s Disease. Pharmaceuticals, 2020, 13, 243.	1.7	36
1743	Generation of Small RNA-Modulated Exosome Mimetics for Bone Regeneration. ACS Nano, 2020, 14, 11973-11984.	7.3	119
1744	Measurement and standardization challenges for extracellular vesicle therapeutic delivery vectors. Nanomedicine, 2020, 15, 2149-2170.	1.7	19
1745	Exosomes as a new pain biomarker opportunity. Molecular Pain, 2020, 16, 174480692095780.	1.0	28
1746	Extracellular Vesicle-Related Thrombosis in Viral Infection . International Journal of General Medicine, 2020, Volume 13, 559-568.	0.8	10
1747	Quantification of extracellular vesicles in vitro and in vivo using sensitive bioluminescence imaging. Journal of Extracellular Vesicles, 2020, 9, 1800222.	5.5	114
1748	Multiresolution Imaging Using Bioluminescence Resonance Energy Transfer Identifies Distinct Biodistribution Profiles of Extracellular Vesicles and Exomeres with Redirected Tropism. Advanced Science, 2020, 7, 2001467.	5.6	50
1749	Exosome: A Novel Nanocarrier Delivering Noncoding RNA for Bone Tissue Engineering. Journal of Nanomaterials, 2020, 2020, 1-14.	1.5	5
1750	Extracellular Vesicleâ€“Derived miR-124 Resolves Radiation-Induced Brain Injury. Cancer Research, 2020, 80, 4266-4277.	0.4	27
1751	The Role of Exosomes in the Female Reproductive System and Breast Cancers . OncoTargets and Therapy, 2020, Volume 13, 12567-12586.	1.0	9
1752	Current Status and Challenges Associated with CNS-Targeted Gene Delivery across the BBB. Pharmaceutics, 2020, 12, 1216.	2.0	42
1753	Neurofilament light chain level in plasma extracellular vesicles and Parkinsonâ€™s disease. Therapeutic Advances in Neurological Disorders, 2020, 13, 175628642097591.	1.5	20
1754	An Overview of Exosomes in Cancer Therapy: A Small Solution to a Big Problem. Processes, 2020, 8, 1561.	1.3	7
1755	Loss of exosomal miR-146a-5p from cancer-associated fibroblasts after androgen deprivation therapy contributes to prostate cancer metastasis. Journal of Experimental and Clinical Cancer Research, 2020, 39, 282.	3.5	36
1756	Regulatory Roles of Bone in Neurodegenerative Diseases. Frontiers in Aging Neuroscience, 2020, 12, 610581.	1.7	10
1757	Hitting the Bullseye: Are extracellular vesicles on target?. Journal of Extracellular Vesicles, 2020, 10, e12032.	5.5	11
1758	Regulatory microRNAs and vascular cognitive impairment and dementia. CNS Neuroscience and Therapeutics, 2020, 26, 1207-1218.	1.9	14
1759	Extracellular vesicles: Natural liverâ€accumulating drug delivery vehicles for the treatment of liver diseases. Journal of Extracellular Vesicles, 2020, 10, e12030.	5.5	79

#	Article	IF	Citations
1760	Syngeneic Transplantation of Rat Olfactory Stem Cells in a Vein Conduit Improves Facial Movements and Reduces Synkinesis after Facial Nerve Injury. Plastic and Reconstructive Surgery, 2020, 146, 1295-1305.	0.7	10
1761	Hypoxic exosomes orchestrate tumorigenesis: molecular mechanisms and therapeutic implications. Journal of Translational Medicine, 2020, 18, 474.	1.8	53
1762	Targeted exosome coating gene-chem nanocomplex as â€œnanoscavengerâ€•for clearing Î±-synuclein and immune activation of Parkinsonâ€™s disease. Science Advances, 2020, 6, .	4.7	83
1763	Inhibition of Glioma Cellsâ€™ Proliferation by Doxorubicin-Loaded Exosomes via Microfluidics . International Journal of Nanomedicine, 2020, Volume 15, 8331-8343.	3.3	87
1764	Drug Delivery Systems of Natural Products in Oncology. Molecules, 2020, 25, 4560.	1.7	48
1765	Electrostatic Surface Properties of Blood and Semen Extracellular Vesicles: Implications of Sialylation and HIV-Induced Changes on EV Internalization. Viruses, 2020, 12, 1117.	1.5	19
1766	Treatment of infarcted heart tissue via the capture and local delivery of circulating exosomes through antibody-conjugated magnetic nanoparticles. Nature Biomedical Engineering, 2020, 4, 1063-1075.	11.6	161
1767	Bioinspired Extracellular Vesicles: Lessons Learned From Nature for Biomedicine and Bioengineering. Nanomaterials, 2020, 10, 2172.	1.9	17
1768	Apolipoprotein D-mediated preservation of lysosomal function promotes cell survival and delays motor impairment in Niemann-Pick type A disease. Neurobiology of Disease, 2020, 144, 105046.	2.1	7
1769	Nanocarrierâ€Mediated Cytosolic Delivery of Biopharmaceuticals. Advanced Functional Materials, 2020, 30, 1910566.	7.8	99
1770	Preparation of engineered extracellular vesicles with full-length functional PD-1 membrane proteins by baculovirus expression system. Biochemical and Biophysical Research Communications, 2020, 526, 967-972.	1.0	7
1771	Natural ligand-receptor mediated loading of siRNA in milk derived exosomes. Journal of Biotechnology, 2020, 318, 1-9.	1.9	12
1772	Peptide based drug delivery systems to the brain. Nano Express, 2020, 1, 012002.	1.2	22
1773	Tumorâ€Exocytosed Exosome/Aggregationâ€Induced Emission Luminogen Hybrid Nanovesicles Facilitate Efficient Tumor Penetration and Photodynamic Therapy. Angewandte Chemie - International Edition, 2020, 59, 13836-13843.	7.2	114
1774	Exploration of small RNA biomarkers for testicular injury in the serum exosomes of rats. Toxicology, 2020, 440, 152490.	2.0	7
1775	From in vitro to in vivo reprogramming for neural transdifferentiation: An approach for CNS tissue remodeling using stem cell technology. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1739-1751.	2.4	6
1776	Tumorâ€Exocytosed Exosome/Aggregationâ€Induced Emission Luminogen Hybrid Nanovesicles Facilitate Efficient Tumor Penetration and Photodynamic Therapy. Angewandte Chemie, 2020, 132, 13940-13947.	1.6	23
1777	The versatile roles and clinical implications of exosomal mRNAs and microRNAs in cancer. International Journal of Biological Markers, 2020, 35, 3-19.	0.7	6

#	Article	IF	Citations
1778	Mesenchymal stromal/stem cell-derived extracellular vesicles in tissue repair: challenges and opportunities. Theranostics, 2020, 10, 5979-5997.	4.6	140
1779	Clinical applications of extracellular vesicle long RNAs. Critical Reviews in Clinical Laboratory Sciences, 2020, 57, 508-521.	2.7	15
1780	Native and bioengineered extracellular vesicles for cardiovascular therapeutics. Nature Reviews Cardiology, 2020, 17, 685-697.	6.1	228
1781	The functional role of surface molecules on extracellular vesicles in cancer, autoimmune diseases, and coagulopathy. Journal of Leukocyte Biology, 2020, 108, 1565-1573.	1.5	7
1782	Isolation of Human Small Extracellular Vesicles and Tracking of Their Uptake by Retinal Pigment Epithelial Cells In Vitro. International Journal of Molecular Sciences, 2020, 21, 3799.	1.8	4
1783	Mesenchymal and Induced Pluripotent Stem Cells-Derived Extracellular Vesicles: The New Frontier for Regenerative Medicine?. Cells, 2020, 9, 1163.	1.8	45
1784	Extracellular vesicle-mediated transfer of miR-21-5p from mesenchymal stromal cells to neurons alleviates early brain injury to improve cognitive function via the PTEN/Akt pathway after subarachnoid hemorrhage. Cell Death and Disease, 2020, 11, 363.	2.7	63
1785	Advances in nanotechnology-based strategies for the treatments of amyotrophic lateral sclerosis. Materials Today Bio, 2020, 6, 100055.	2.6	32
1786	In Situ Cell Membrane Fusion for Engineered Tumor Cells by Worm-like Nanocell Mimics. ACS Nano, 2020, 14, 7462-7474.	7.3	15
1787	RNA delivery by extracellular vesicles in mammalian cells and its applications. Nature Reviews Molecular Cell Biology, 2020, 21, 585-606.	16.1	1,010
1788	Breast Cancer Derived Extracellular Vesicles in Bone Metastasis Induction and Their Clinical Implications as Biomarkers. International Journal of Molecular Sciences, 2020, 21, 3573.	1.8	26
1789	Biogenic nanoparticles as immunomodulator for tumor treatment. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2020, 12, e1646.	3.3	21
1790	Nanomedicine to target multidrug resistant tumors. Drug Resistance Updates, 2020, 52, 100704.	6.5	73
1791	Tissue engineering to better understand senescence: Organotypics come of age. Mechanisms of Ageing and Development, 2020, 190, 111261.	2.2	5
1792	Engineered Extracellular Vesicles/Exosomes as a New Tool against Neurodegenerative Diseases. Pharmaceutics, 2020, 12, 529.	2.0	11
1793	Extracellular vesicles for targeted drug delivery: triumphs and challenges. Future Medicinal Chemistry, 2020, 12, 1285-1287.	1.1	6
1794	Engineered exosome for NIR-triggered drug delivery and superior synergistic chemo-phototherapy in a glioma model. Applied Materials Today, 2020, 20, 100723.	2.3	14
1795	Non-coding RNAs in Ischemic Stroke: Roles in the Neuroinflammation and Cell Death. Neurotoxicity Research, 2020, 38, 564-578.	1.3	16

#	Article	IF	Citations
1796	Emerging functions and clinical applications of exosomes in human oral diseases. Cell and Bioscience, 2020, 10, 68.	2.1	23
1797	Emerging role of extracellular vesicles in the respiratory system. Experimental and Molecular Medicine, 2020, 52, 887-895.	3.2	35
1798	Yâ€RNA subtype ratios in plasma extracellular vesicles are cell typeâ€•specific and are candidate biomarkers for inflammatory diseases. Journal of Extracellular Vesicles, 2020, 9, 1764213.	5.5	35
1799	Extracellular Vesicles miRNA Cargo for Microglia Polarization in Traumatic Brain Injury. Biomolecules, 2020, 10, 901.	1.8	32
1800	Therapeutic Effects of Transplanted Exosomes Containing miR-29b to a Rat Model of Alzheimerâ€™s Disease. Frontiers in Neuroscience, 2020, 14, 564.	1.4	83
1801	Carbon Nanomaterials Applied for the Treatment of Inflammatory Diseases: Preclinical Evidence. Advanced Therapeutics, 2020, 3, 2000051.	1.6	17
1802	Plasma exosomes protect against cerebral ischemia/reperfusion injury via exosomal HSP70 mediated suppression of ROS. Life Sciences, 2020, 256, 117987.	2.0	29
1803	Diagnostic and Therapeutic Applications of Exosomes in Cancer with a Special Focus on Head and Neck Squamous Cell Carcinoma (HNSCC). International Journal of Molecular Sciences, 2020, 21, 4344.	1.8	20
1804	The role of exosomes in stroke. Molecular Biology Reports, 2020, 47, 6217-6228.	1.0	13
1805	Multifunctional magnetite nanoparticles to enable delivery of siRNA for the potential treatment of Alzheimerâ€™s. Drug Delivery, 2020, 27, 864-875.	2.5	28
1806	Brain Derived Exosomes Are a Double-Edged Sword in Alzheimerâ€™s Disease. Frontiers in Molecular Neuroscience, 2020, 13, 79.	1.4	64
1807	Cloaked Viruses and Viral Factors in Cutting Edge Exosome-Based Therapies. Frontiers in Cell and Developmental Biology, 2020, 8, 376.	1.8	24
1808	Modulating Cytokine Production via Select Packaging and Secretion From Extracellular Vesicles. Frontiers in Immunology, 2020, 11, 1040.	2.2	48
1809	The Progress in Diagnosis and Treatment of Exosomes and MicroRNAs on Epileptic Comorbidity Depression. Frontiers in Psychiatry, 2020, 11, 405.	1.3	4
1810	Exosomes-coated bcl-2 siRNA inhibits the growth of digestive system tumors both in vitro and in vivo. International Journal of Biological Macromolecules, 2020, 161, 470-480.	3.6	41
1811	Extracellular vesicle therapy for retinal diseases. Progress in Retinal and Eye Research, 2020, 79, 100849.	7.3	70
1812	Peripheral Circulating Exosomal miRNAs Potentially Contribute to the Regulation of Molecular Signaling Networks in Aging. International Journal of Molecular Sciences, 2020, 21, 1908.	1.8	15
1813	Neuronal activity triggers uptake of hematopoietic extracellular vesicles in vivo. PLoS Biology, 2020, 18, e3000643.	2.6	25

#	Article	IF	Citations
1814	The function and clinical application of extracellular vesicles in innate immune regulation. Cellular and Molecular Immunology, 2020, 17, 323-334.	4.8	171
1815	Engineered Tumor-Derived Extracellular Vesicles: Potentials in Cancer Immunotherapy. Frontiers in Immunology, 2020, 11, 221.	2.2	76
1816	Biomaterials Functionalized with MSC Secreted Extracellular Vesicles and Soluble Factors for Tissue Regeneration. Advanced Functional Materials, 2020, 30, 1909125.	7.8	204
1817	Fat Therapeutics: The Clinical Capacity of Adipose-Derived Stem Cells and Exosomes for Human Disease and Tissue Regeneration. Frontiers in Pharmacology, 2020, 11, 158.	1.6	117
1818	Promising RNA-based cancer gene therapy using extracellular vesicles for drug delivery. Expert Opinion on Biological Therapy, 2020, 20, 767-777.	1.4	19
1819	Human extracellular vesicles and correlation with two clinical forms of toxoplasmosis. PLoS ONE, 2020, 15, e0229602.	1.1	18
1820	Emerging methods in therapeutics using multifunctional nanoparticles. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2020, 12, e1625.	3.3	31
1821	Presymptomatic Increase of an Extracellular RNA in Blood Plasma Associates with the Development of Alzheimerâ€™s Disease. Current Biology, 2020, 30, 1771-1782.e3.	1.8	32
1822	Application of Pb(II) to probe the physiological responses of fungal intracellular vesicles. Ecotoxicology and Environmental Safety, 2020, 194, 110441.	2.9	18
1824	Manipulating microRNAs for the Treatment of Malignant Pleural Mesothelioma: Past, Present and Future. Frontiers in Oncology, 2020, 10, 105.	1.3	27
1825	Exosomes are the Driving Force in Preparing the Soil for the Metastatic Seeds: Lessons from the Prostate Cancer. Cells, 2020, 9, 564.	1.8	42
1826	Breaking Barriers: Bioinspired Strategies for Targeted Neuronal Delivery to the Central Nervous System. Pharmaceutics, 2020, 12, 192.	2.0	16
1827	Clinical applications of exosome membrane proteins. Precision Clinical Medicine, 2020, 3, 54-66.	1.3	101
1828	Exosomes: From Potential Culprits to New Therapeutic Promise in the Setting of Cardiac Fibrosis. Cells, 2020, 9, 592.	1.8	35
1829	Targeting extracellular vesiclesâ€mediated hepatic inflammation as a therapeutic strategy in liver diseases. Liver International, 2020, 40, 2064-2073.	1.9	11
1830	Exosomes derived from P2X7 receptor gene-modified cells rescue inflammation-compromised periodontal ligament stem cells from dysfunction. Stem Cells Translational Medicine, 2020, 9, 1414-1430.	1.6	30
1831	Transcellular brain drug delivery: A review on recent advancements. International Journal of Pharmaceutics, 2020, 586, 119582.	2.6	53
1832	Extracellular Vesicles in Viral Infections of the Nervous System. Viruses, 2020, 12, 700.	1.5	22

#	Article	IF	Citations
1833	How to use macrophages to realise the treatment of tumour. Journal of Drug Targeting, 2020, 28, 1034-1045.	2.1	8
1834	Extracellular Vesicles in Cancer Metastasis: Potential as Therapeutic Targets and Materials. International Journal of Molecular Sciences, 2020, 21, 4463.	1.8	50
1835	State-of-the-art exosome loading and functionalization techniques for enhanced therapeutics: a review. Critical Reviews in Biotechnology, 2020, 40, 804-820.	5.1	61
1836	Emerging roles of extracellular vesicles in the intercellular communication for exercise-induced adaptations. American Journal of Physiology - Endocrinology and Metabolism, 2020, 319, E320-E329.	1.8	19
1837	Extracellular Vesicles as Delivery Vehicles of Specific Cellular Cargo. Cells, 2020, 9, 1601.	1.8	66
1838	Show Me Your Friends and I Tell You Who You Are: The Many Facets of Prion Protein in Stroke. Cells, 2020, 9, 1609.	1.8	6
1839	Use of exosomes as vectors to carry advanced therapies. RSC Advances, 2020, 10, 23975-23987.	1.7	21
1840	Renal cancer-derived exosomes induce tumor immune tolerance by MDSCs-mediated antigen-specific immunosuppression. Cell Communication and Signaling, 2020, 18, 106.	2.7	29
1841	Extracellular vesicles derived from Plasmodium-infected and non-infected red blood cells as targeted drug delivery vehicles. International Journal of Pharmaceutics, 2020, 587, 119627.	2.6	26
1842	Cellular-Defined Microenvironmental Internalization of Exosomes. , 0, , .		8
1843	Design and Engineering of Metal Catalysts for Bio-orthogonal Catalysis in Living Systems. ACS Applied Bio Materials, 2020, 3, 4717-4746.	2.3	37
1844	Bioinspired Biomaterials. Advances in Experimental Medicine and Biology, 2020, , .	0.8	5
1845	Functionalized exosome harboring bioactive molecules for cancer therapy. Cancer Letters, 2020, 489, 155-162.	3.2	25
1846	Exosomes: Salivary Biomarkers?. Tropical Journal of Pharmaceutical Research, 2020, 19, 667-672.	0.2	3
1847	Engineering blood exosomes for tumor-targeting efficient gene/chemo combination therapy. Theranostics, 2020, 10, 7889-7905.	4.6	100
1848	The frontiers of biomedical science and its application to animal science in addressing the major challenges facing Australasian dairy farming. Animal Production Science, 2020, 60, 1.	0.6	7
1849	The biology , function , and biomedical applications of exosomes. Science, 2020, 367, .	6.0	4,742
1850	Exosomes as Drug Delivery Vehicles for Cancer Treatment. Current Nanoscience, 2020, 16, 15-26.	0.7	9

#	Article	IF	Citations
1851	Systemic exosomal miR-193b-3p delivery attenuates neuroinflammation in early brain injury after subarachnoid hemorrhage in mice. Journal of Neuroinflammation, 2020, 17, 74.	3.1	109
1852	Targetting Exosomes as a New Biomarker and Therapeutic Approach for Alzheimerâ€™s Disease . Clinical Interventions in Aging, 2020, Volume 15, 195-205.	1.3	49
1853	Increasing the Potential Interacting Area of Nanomedicine Enhances Its Homotypic Cancer Targeting Efficacy. ACS Nano, 2020, 14, 3259-3271.	7.3	74
1854	Bioinspired exosome-like therapeutics and delivery nanoplatforms. Biomaterials, 2020, 242, 119925.	5.7	161
1855	Inclusion Biogenesis, Methods of Isolation and Clinical Application of Human Cellular Exosomes. Journal of Clinical Medicine, 2020, 9, 436.	1.0	115
1856	Where does the cargo go?: Solutions to provide experimental support for the â€œextracellular vesicle cargo transfer hypothesisâ€• Journal of Cell Communication and Signaling, 2020, 14, 135-146.	1.8	40
1857	Cell-to-Cell Communication in Learning and Memory: From Neuro- and Glio-Transmission to Information Exchange Mediated by Extracellular Vesicles. International Journal of Molecular Sciences, 2020, 21, 266.	1.8	41
1858	Reduction of the therapeutic dose of silencing RNA by packaging it in extracellular vesicles via a pre-microRNA backbone. Nature Biomedical Engineering, 2020, 4, 52-68.	11.6	97
1859	Functional extracellular vesicles aplenty. Nature Biomedical Engineering, 2020, 4, 9-11.	11.6	23
1860	Drug delivery across the bloodâ€“brain barrier: recent advances in the use of nanocarriers. Nanomedicine, 2020, 15, 205-214.	1.7	101
1861	Mechanical characterization of vesicles and cells: A review. Electrophoresis, 2020, 41, 449-470.	1.3	24
1862	Advances in Analysis of Biodistribution of Exosomes by Molecular Imaging. International Journal of Molecular Sciences, 2020, 21, 665.	1.8	131
1863	The role of exosomes in metastasis and progression of melanoma. Cancer Treatment Reviews, 2020, 85, 101975.	3.4	66
1864	Derivation of Cell-Engineered Nanovesicles from Human Induced Pluripotent Stem Cells and Their Protective Effect on the Senescence of Dermal Fibroblasts. International Journal of Molecular Sciences, 2020, 21, 343.	1.8	32
1865	Communication in tiny packages: Exosomes as means of tumor-stroma communication. Biochimica Et Biophysica Acta: Reviews on Cancer, 2020, 1873, 188340.	3.3	51
1866	Airway epithelial-targeted nanoparticles for asthma therapy. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2020, 318, L500-L509.	1.3	23
1867	Tailoring of cardiovascular stent material surface by immobilizing exosomes for better pro-endothelialization function. Colloids and Surfaces B: Biointerfaces, 2020, 189, 110831.	2.5	37
1868	A Role for Exosomes in Craniofacial Tissue Engineering and Regeneration. Frontiers in Physiology, 2019, 10, 1569.	1.3	54

#	Article	IF	Citations
1869	An Electrochemical Biosensor Designed by Using Zr-Based Metalâ€“Organic Frameworks for the Detection of Glioblastoma-Derived Exosomes with Practical Application. Analytical Chemistry, 2020, 92, 3819-3826.	3.2	126
1870	Repurposing Antiviral Protease Inhibitors Using Extracellular Vesicles for Potential Therapy of COVID-19. Viruses, 2020, 12, 486.	1.5	94
1871	Exosomes: From garbage bins to translational medicine. International Journal of Pharmaceutics, 2020, 583, 119333.	2.6	34
1872	Extracellular vesicle-associated lipids in central nervous system disorders. Advanced Drug Delivery Reviews, 2020, 159, 322-331.	6.6	22
1873	The Role of Bone-Derived Exosomes in Regulating Skeletal Metabolism and Extraosseous Diseases. Frontiers in Cell and Developmental Biology, 2020, 8, 89.	1.8	32
1874	Exosome-based delivery of super-repressor IÎºBÎ± relieves sepsis-associated organ damage and mortality. Science Advances, 2020, 6, eaaz6980.	4.7	132
1875	Extracellular Vesicles Function as Bioactive Molecular Transmitters in the Mammalian Oviduct: An Inspiration for Optimizing in Vitro Culture Systems and Improving Delivery of Exogenous Nucleic Acids during Preimplantation Embryonic Development. International Journal of Molecular Sciences, 2020, 21, 2189.	1.8	13
1876	Extracellular vesicles for tumor targeting delivery based on five features principle. Journal of Controlled Release, 2020, 322, 555-565.	4.8	68
1877	Gold Nanocluster Extracellular Vesicle Supraparticles: Self-Assembled Nanostructures for Three-Dimensional Uptake Visualization. Langmuir, 2020, 36, 3912-3923.	1.6	11
1878	Engineered Human Adipose Stem-Cell-Derived Exosomes Loaded with miR-21-5p to Promote Diabetic Cutaneous Wound Healing. Molecular Pharmaceutics, 2020, 17, 1723-1733.	2.3	112
1879	Visceral Adipose Tissue Derived Exosomes Exacerbate Colitis Severity via Pro-inflammatory MiRNAs in High Fat Diet Fed Mice. ACS Nano, 2020, 14, 5099-5110.	7.3	86
1880	Prospects and challenges of extracellular vesicle-based drug delivery system: considering cell source. Drug Delivery, 2020, 27, 585-598.	2.5	295
1881	How Computational Chemistry and Drug Delivery Techniques Can Support the Development of New Anticancer Drugs. Molecules, 2020, 25, 1756.	1.7	23
1882	The role of tumor-associated macrophages (TAMs) in tumor progression and relevant advance in targeted therapy. Acta Pharmaceutica Sinica B, 2020, 10, 2156-2170.	5.7	178
1883	Ultrasound Assisted Exosomal Delivery of Tissue Responsive mRNA for Enhanced Efficacy and Minimized Off-Target Effects. Molecular Therapy - Nucleic Acids, 2020, 20, 558-567.	2.3	31
1884	Surface functionalization strategies of extracellular vesicles. Journal of Materials Chemistry B, 2020, 8, 4552-4569.	2.9	57
1885	Mending a broken heart: current strategies and limitations of cell-based therapy. Stem Cell Research and Therapy, 2020, 11, 138.	2.4	49
1886	Treatment with Mesenchymal-Derived Extracellular Vesicles Reduces Injury-Related Pathology in Pyramidal Neurons of Monkey Perilesional Ventral Premotor Cortex. Journal of Neuroscience, 2020, 40, 3385-3407.	1.7	31

#	Article	IF	Citations
1887	Extracellular vesicle-mediated nucleic acid transfer and reprogramming in the tumor microenvironment. Cancer Letters, 2020, 482, 33-43.	3.2	17
1888	Extracellular vesicles as drug delivery systems: Why and how?. Advanced Drug Delivery Reviews, 2020, 159, 332-343.	6.6	606
1889	Art and drug delivery system design: dissonance or a harmony?. Expert Opinion on Drug Delivery, 2020, 17, 735-739.	2.4	1
1890	Exosomes Derived from Brain Metastatic Breast Cancer Cells Destroy the Blood-Brain Barrier by Carrying lncRNA GS1-600G8.5. BioMed Research International, 2020, 2020, 1-10.	0.9	61
1891	Therapeutic Application of Small Extracellular Vesicles (sEVs): Pharmaceutical and Pharmacokinetic Challenges. Biological and Pharmaceutical Bulletin, 2020, 43, 576-583.	0.6	17
1892	Mesenchymal Stem Cell-Derived Extracellular Vesicles: Challenges in Clinical Applications. Frontiers in Cell and Developmental Biology, 2020, 8, 149.	1.8	218
1893	The Promise and Challenges of Developing miRNA-Based Therapeutics for Parkinsonâ€™s Disease. Cells, 2020, 9, 841.	1.8	51
1894	Targeting and Crossing the Blood-Brain Barrier with Extracellular Vesicles. Cells, 2020, 9, 851.	1.8	270
1895	Extracellular Vesicles in Smoking-Mediated HIV Pathogenesis and their Potential Role in Biomarker Discovery and Therapeutic Interventions. Cells, 2020, 9, 864.	1.8	8
1896	Extracellular Vesicle-Mediated siRNA Delivery, Protein Delivery, and CFTR Complementation in Well-Differentiated Human Airway Epithelial Cells. Genes, 2020, 11, 351.	1.0	9
1897	Extracellular Vesicles as Signaling Mediators and Disease Biomarkers across Biological Barriers. International Journal of Molecular Sciences, 2020, 21, 2514.	1.8	121
1898	Radiation-induced small extracellular vesicles as â€œcarriagesâ€•promote tumor antigen release and trigger antitumor immunity. Theranostics, 2020, 10, 4871-4884.	4.6	43
1899	Preparation of Internalizing RGD-Modified Recombinant Methioninase Exosome Active Targeting Vector and Antitumor Effect Evaluation. Digestive Diseases and Sciences, 2021, 66, 1045-1053.	1.1	25
1900	Time-Dependent Memory and Gait Improvement by Intranasally-Administered Extracellular Vesicles in Parkinsonâ€™s Disease Model Rats. Cellular and Molecular Neurobiology, 2021, 41, 605-613.	1.7	11
1901	Extracellular Vesicles Derived from Neural Progenitor Cellsâ€“â€“a Preclinical Evaluation for Stroke Treatment in Mice. Translational Stroke Research, 2021, 12, 185-203.	2.3	51
1902	The role of extracellular vesicles in skeletal muscle and systematic adaptation to exercise. Journal of Physiology, 2021, 599, 845-861.	1.3	76
1903	Diagnostic and therapeutic potential of exosomes in Alzheimerâ€™s disease. Journal of Neurochemistry, 2021, 156, 162-181.	2.1	90
1904	Extracellular vesicles: A bright star of nanomedicine. Biomaterials, 2021, 269, 120467.	5.7	179

#	Article	IF	Citations
1905	Rapid isolation and proteome analysis of urinary exosome based on double interactions of Fe3O4@TiO2-DNA aptamer. Talanta, 2021, 221, 121571.	2.9	43
1906	Long non-coding RNAs: From disease code to drug role. Acta Pharmaceutica Sinica B, 2021, 11, 340-354.	5.7	246
1907	Extracellular vesicles in hepatology: Physiological role, involvement in pathogenesis, and therapeutic opportunities. , 2021, 218, 107683.		22
1908	Extracellular vesicles from organoids and 3D culture systems. Biotechnology and Bioengineering, 2021, 118, 1029-1049.	1.7	27
1909	Exosomes: A new horizon in modern medicine. Life Sciences, 2021, 264, 118623.	2.0	39
1910	Advances in Exosomesâ€Based Drug Delivery Systems. Macromolecular Bioscience, 2021, 21, e2000269.	2.1	51
1911	Challenges in the development and establishment of exosome-based drug delivery systems. Journal of Controlled Release, 2021, 329, 894-906.	4.8	154
1912	Endogenous tumor microenvironment-responsive multifunctional nanoplatforms for precision cancer theranostics. Coordination Chemistry Reviews, 2021, 426, 213529.	9.5	22
1913	Engineered extracellular vesicle decoy receptor-mediated modulation of the IL6 trans-signalling pathway in muscle. Biomaterials, 2021, 266, 120435.	5.7	26
1914	Mycobacterium tuberculosis extracellular vesicles: exploitation for vaccine technology and diagnostic methods. Critical Reviews in Microbiology, 2021, 47, 13-33.	2.7	17
1915	Evaluation of bovine milk extracellular vesicles for the delivery of locked nucleic acid antisense oligonucleotides. European Journal of Pharmaceutics and Biopharmaceutics, 2021, 158, 198-210.	2.0	28
1916	Therapeutic Potential of Extracellular Vesicles in Hypertension-Associated Kidney Disease. Hypertension, 2021, 77, 28-38.	1.3	18
1917	Biological role and clinical relevance of extracellular vesicles as key mediators of cell communication in cancer. Advances in Biomembranes and Lipid Self-Assembly, 2021, 33, 37-117.	0.3	4
1918	Shedding Light on Extracellular Vesicle Biogenesis and Bioengineering. Advanced Science, 2021, 8, 2003505.	5.6	192
1919	Glutaminase in microglia: A novel regulator of neuroinflammation. Brain, Behavior, and Immunity, 2021, 92, 139-156.	2.0	30
1920	Engineering approaches for effective therapeutic applications based on extracellular vesicles. Journal of Controlled Release, 2021, 330, 15-30.	4.8	45
1921	Revisiting gene delivery to the brain: silencing and editing. Biomaterials Science, 2021, 9, 1065-1087.	2.6	14
1922	Nonâ€pigmented ciliary epithelium derived extracellular vesicles uptake mechanism by the trabecular meshwork. FASEB Journal, 2021, 35, e21188.	0.2	10

#	Article	IF	Citations
1923	Pancreatic cancer-targeting exosomes for enhancing immunotherapy and reprogramming tumor microenvironment. Biomaterials, 2021, 268, 120546.	5.7	237
1924	Eradicating intracellular MRSA via targeted delivery of lysostaphin and vancomycin with mannose-modified exosomes. Journal of Controlled Release, 2021, 329, 454-467.	4.8	47
1925	Extracellular Vesicles and Biomaterial Design: New Therapies for Cardiac Repair. Trends in Molecular Medicine, 2021, 27, 231-247.	3.5	31
1926	Drug delivery systems for cardiovascular ailments. , 2021, , 567-599.		3
1927	A hypothesis-generating scoping review of miRs identified in both multiple sclerosis and dementia, their protein targets, and miR signaling pathways. Journal of the Neurological Sciences, 2021, 420, 117202.	0.3	16
1928	Exosome-mediated delivery of kartogenin for chondrogenesis of synovial fluid-derived mesenchymal stem cells and cartilage regeneration. Biomaterials, 2021, 269, 120539.	5.7	184
1929	Nanoparticles in pregnancy: the next frontier in reproductive therapeutics. Human Reproduction Update, 2021, 27, 280-304.	5.2	42
1930	Plant Exosome-like Nanovesicles: Emerging Therapeutics and Drug Delivery Nanoplatforms. Molecular Therapy, 2021, 29, 13-31.	3.7	211
1931	Imaging as a tool to accelerate the translation of extracellular vesicleâ€based therapies for central nervous system diseases. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2021, 13, e1688.	3.3	4
1932	Exosomes: Cell-Derived Nanoplatforms for the Delivery of Cancer Therapeutics. International Journal of Molecular Sciences, 2021, 22, 14.	1.8	89
1933	Revealing Dynamic Rotation of Single Graphene Nanoplatelets on Electrified Microinterfaces. ACS Nano, 2021, 15, 1250-1258.	7.3	20
1934	The Role of Toll-Like Receptor 4 in Infectious and Non Infectious Inflammation. Agents and Actions Supplements, 2021, , .	0.2	2
1935	Heparan sulfate proteoglycanâ€mediated dynaminâ€dependent transport of neural stem cell exosomes in an in vitro bloodâ€“brain barrier model. European Journal of Neuroscience, 2021, 53, 706-719.	1.2	36
1936	The emerging role of exosomes as novel therapeutics: Biology, technologies, clinical applications, and the next. American Journal of Reproductive Immunology, 2021, 85, e13329.	1.2	41
1937	Milk exosomes: A biogenic nanocarrier for small molecules and macromolecules to combat cancer. American Journal of Reproductive Immunology, 2021, 85, e13349.	1.2	30
1938	Exosome-mediated RNAi of PAK4 prolongs survival of pancreatic cancer mouse model after loco-regional treatment. Biomaterials, 2021, 264, 120369.	5.7	44
1939	Extracellular vesicles in cancer nanomedicine. Seminars in Cancer Biology, 2021, 69, 212-225.	4.3	69
1940	Extracellular vesicles in neurodegenerative diseases: Insights and new perspectives. Genes and Diseases, 2021, 8, 124-132.	1.5	21

#	Article	IF	Citations
1941	Maternal obesity and developmental programming of neuropsychiatric disorders: An inflammatory hypothesis. Brain and Neuroscience Advances, 2021, 5, 239821282110034.	1.8	18
1942	Environmental Gerontology. , 2021, , 1-8.		0
1943	Membrane Fusion Models for Bioapplications. ChemNanoMat, 2021, 7, 223-237.	1.5	5
1944	Radiolabelling of Extracellular Vesicles for PET and SPECT imaging. Nanotheranostics, 2021, 5, 256-274.	2.7	27
1945	â€œDonâ€™t eat me/eat meâ€•combined apoptotic body analogues for efficient targeted therapy of triple-negative breast cancer. Journal of Materials Chemistry B, 2021, 9, 8472-8479.	2.9	4
1946	Exosome-mediated bioinspired drug delivery. , 2021, , 219-240.		0
1947	Grapefruit-derived extracellular vesicles as a promising cell-free therapeutic tool for wound healing. Food and Function, 2021, 12, 5144-5156.	2.1	49
1948	Novel Protocols for Scalable Production of High Quality Purified Small Extracellular Vesicles from Bovine Milk. Nanotheranostics, 2021, 5, 488-498.	2.7	22
1949	Role of Exosomes for Delivery of Chemotherapeutic Drugs. Critical Reviews in Therapeutic Drug Carrier Systems, 2021, 38, 53-97.	1.2	35
1950	Exosomes targeted towards applications in regenerative medicine. Nano Select, 2021, 2, 880-908.	1.9	12
1951	The Potentials and Pitfalls of Using Adult Stem Cells in Cancer Treatment. Advances in Experimental Medicine and Biology, 2021, 1326, 139-157.	0.8	3
1952	Exosomes in Parkinson disease. Journal of Neurochemistry, 2021, 157, 413-428.	2.1	62
1953	Therapeutic application of exosomes in ischaemic stroke. Stroke and Vascular Neurology, 2021, 6, 483-495.	1.5	32
1954	Unlocking the Power of Exosomes for Crossing Biological Barriers in Drug Delivery. Pharmaceutics, 2021, 13, 122.	2.0	112
1955	Extracellular vesicles in bone and periodontal regeneration: current and potential therapeutic applications. Cell and Bioscience, 2021, 11, 16.	2.1	34
1956	Exosomal Biomarkers in Colorectal Cancer. , 2021, , 101-122.		1
1957	Therapeutic Potential of Nucleic Acids when Combined with Extracellular Vesicles. , 2021, 12, 1476.		12
1958	Bioengineered extracellular vesicle-loaded bioscaffolds for therapeutic applications in regenerative medicine. , 2021, 2, 175-178.		8

#	Article	IF	Citations
1959	siRNA Loaded-Exosomes. Methods in Molecular Biology, 2021, 2282, 395-401.	0.4	2
1960	Maintenance and change of phenotype: Inheritance of acquired traits. , 2021, , 201-261.		0
1961	Mesenchymal stem cell treatment for peripheral nerve injury: a narrative review. Neural Regeneration Research, 2021, 16, 2170.	1.6	45
1962	3D Cell Cultures as Prospective Models to Study Extracellular Vesicles in Cancer. Cancers, 2021, 13, 307.	1.7	20
1963	Exosome-mediated delivery of an anti-angiogenic peptide inhibits pathological retinal angiogenesis. Theranostics, 2021, 11, 5107-5126.	4.6	52
1964	Diagnostic and therapeutic potential of exosomal miRNAs in Alzheimerâ€™s disease. Neural Regeneration Research, 2021, 16, 2217.	1.6	4
1965	Dendrimers: A Novel Nanomaterial. Springer Series in Materials Science, 2021, , 411-449.	0.4	0
1966	Cancer nanomedicine. , 2021, , 537-566.		0
1967	Glia-Derived Extracellular Vesicles: Role in Central Nervous System Communication in Health and Disease. Frontiers in Cell and Developmental Biology, 2020, 8, 623771.	1.8	31
1968	Hijacking Endocytosis and Autophagy in Extracellular Vesicle Communication: Where the Inside Meets the Outside. Frontiers in Cell and Developmental Biology, 2020, 8, 595515.	1.8	22
1969	Exosome-Derived Noncoding RNAs as a Promising Treatment of Bone Regeneration. Stem Cells International, 2021, 2021, 1-8.	1.2	15
1970	Targeted delivery of neural progenitor cell-derived extracellular vesicles for anti-inflammation after cerebral ischemia. Theranostics, 2021, 11, 6507-6521.	4.6	104
1971	Engineering exosomes for targeted drug delivery. Theranostics, 2021, 11, 3183-3195.	4.6	576
1972	Milk exosomes with enhanced mucus penetrability for oral delivery of siRNA. Biomaterials Science, 2021, 9, 4260-4277.	2.6	68
1973	Selection of Fluorescent, Bioluminescent, and Radioactive Tracers to Accurately Reflect Extracellular Vesicle Biodistribution in Vivo. ACS Nano, 2021, 15, 3212-3227.	7.3	115
1974	Modified biopolymer-based systems for drug delivery to the brain. , 2021, , 571-611.		2
1975	Extracellular vesicles: Roles and applications in drug-induced liver injury. Advances in Clinical Chemistry, 2021, 102, 63-125.	1.8	9
1976	Engineering Extracellular Vesicles to Target Pancreatic Tissue In Vivo. Nanotheranostics, 2021, 5, 378-390.	2.7	19

#	Article	IF	Citations
1977	Rapid and label-free cancer theranostics via in situ bio-self-assembled DNAâ€“gold nanostructures loaded exosomes. Materials Horizons, 2021, 8, 2771-2784.	6.4	19
1978	General and mild modification of food-derived extracellular vesicles for enhanced cell targeting. Nanoscale, 2021, 13, 3061-3069.	2.8	16
1979	Extracellular Vesicle Transportation and Uptake by Recipient Cells: A Critical Process to Regulate Human Diseases. Processes, 2021, 9, 273.	1.3	53
1980	Extracellular vesicles and pancreatitis: mechanisms, status and perspectives. International Journal of Biological Sciences, 2021, 17, 549-561.	2.6	12
1981	Conjugated biomimetic nanohybrids as smart drug delivery systems. , 2021, , 75-88.		0
1982	The Role of Exosomes in Pancreatic Cancer From Bench to Clinical Application: An Updated Review. Frontiers in Oncology, 2021, 11, 644358.	1.3	18
1983	Small extracellular vesiclesâ€based cellâ€free strategies for therapy. MedComm, 2021, 2, 17-26.	3.1	9
1984	Membrane vesicles nanotheranostic systems: sources, engineering methods, and challenges. Biomedical Materials (Bristol), 2021, 16, 022009.	1.7	8
1985	Emerging Roles of Extracellular Vesicles in the Central Nervous System: Physiology, Pathology, and Therapeutic Perspectives. Frontiers in Cellular Neuroscience, 2021, 15, 626043.	1.8	34
1986	Environmental pH stress influences cellular secretion and uptake of extracellular vesicles. FEBS Open Bio, 2021, 11, 753-767.	1.0	23
1987	Mesenchymal Stromal Cell-Derived Extracellular Vesicles in Lung Diseases: Current Status and Perspectives. Frontiers in Cell and Developmental Biology, 2021, 9, 600711.	1.8	51
1990	Engineered Extracellular Vesicles for Cancer Therapy. Advanced Materials, 2021, 33, e2005709.	11.1	171
1991	A Comprehensive Review on Intracellular Delivery. Advanced Materials, 2021, 33, e2005363.	11.1	58
1992	Therapeutic Features and Updated Clinical Trials of Mesenchymal Stem Cell (MSC)-Derived Exosomes. Journal of Clinical Medicine, 2021, 10, 711.	1.0	84
1993	A Role for Extracellular Vesicles in SARS-CoV-2 Therapeutics and Prevention. Journal of NeuroImmune Pharmacology, 2021, 16, 270-288.	2.1	30
1994	The Two Faces of Exosomes in Parkinsonâ€™s Disease: From Pathology to Therapy. Neuroscientist, 2022, 28, 180-193.	2.6	9
1995	Engineering exosomes for pulmonary delivery of peptides and drugs to inflammatory lung cells by inhalation. Journal of Controlled Release, 2021, 330, 684-695.	4.8	51
1996	Extracellular Vesicles: Novel Roles in Neurological Disorders. Stem Cells International, 2021, 2021, 1-16.	1.2	22

#	Article	IF	Citations
1997	A novel brain targeted plasma exosomes enhance the neuroprotective efficacy of edaravone in ischemic stroke. IET Nanobiotechnology, 2021, 15, 107-116.	1.9	9
1998	Wielding the Doubleâ€Edged Sword of Inflammation: Building Biomaterialâ€Based Strategies for Immunomodulation in Ischemic Stroke Treatment. Advanced Functional Materials, 2021, 31, 2010674.	7.8	10
1999	Extracellular Vesicle-Based Therapeutics for Heart Repair. Nanomaterials, 2021, 11, 570.	1.9	25
2000	Cardiac Exosomes in Ischemic Heart Diseaseâ€"A Narrative Review. Diagnostics, 2021, 11, 269.	1.3	11
2001	Exosomes: A Novel Therapeutic Paradigm for the Treatment of Depression. Current Drug Targets, 2021, 22, 183-191.	1.0	8
2002	Treatment of Oxidative Stress with Exosomes in Myocardial Ischemia. International Journal of Molecular Sciences, 2021, 22, 1729.	1.8	20
2003	A Comprehensive Review on Factors Influences Biogenesis, Functions, Therapeutic and Clinical Implications of Exosomes. International Journal of Nanomedicine, 2021, Volume 16, 1281-1312.	3.3	141
2004	Covalent conjugation of extracellular vesicles with peptides and nanobodies for targeted therapeutic delivery. Journal of Extracellular Vesicles, 2021, 10, e12057.	5.5	103
2005	Overview and Update on Methods for Cargo Loading into Extracellular Vesicles. Processes, 2021, 9, 356.	1.3	57
2006	An ultracentrifugation â€“ hollow-fiber flow field-flow fractionation orthogonal approach for the purification and mapping of extracellular vesicle subtypes. Journal of Chromatography A, 2021, 1638, 461861.	1.8	24
2007	Extracellular Vesicles and Immune System in Ageing and Immune Diseases. Experimental Neurobiology, 2021, 30, 32-47.	0.7	3
2008	Diagnostic and Therapeutic Applications of Exosome Nanovesicles in Lung Cancer: State-of-The-Art. Anti-Cancer Agents in Medicinal Chemistry, 2021, 22, 83-100.	0.9	3
2009	Extracellular vesicles from recombinant cell factories improve the activity and efficacy of enzymes defective in lysosomal storage disorders. Journal of Extracellular Vesicles, 2021, 10, e12058.	5.5	19
2010	Mesenchymal Stem Cell Derived Extracellular Vesicles for Repairing the Neurovascular Unit after Ischemic Stroke. Cells, 2021, 10, 767.	1.8	25
2011	CD19 Chimeric Antigen Receptor-Exosome Targets CD19 Positive B-lineage Acute Lymphocytic Leukemia and Induces Cytotoxicity. Cancers, 2021, 13, 1401.	1.7	30
2012	Exosome-Based Delivery of Natural Products in Cancer Therapy. Frontiers in Cell and Developmental Biology, 2021, 9, 650426.	1.8	50
2013	Real-Time Luminescence Assay for Cytoplasmic Cargo Delivery of Extracellular Vesicles. Analytical Chemistry, 2021, 93, 5612-5620.	3.2	31
2014	Nitric oxide modulation in neuroinflammation and the role of mesenchymal stem cells. Experimental Biology and Medicine, 2021, 246, 2399-2406.	1.1	33

#	Article	IF	Citations
2015	The Diagnostic Value of Exosome-Derived Biomarkers in Alzheimer's Disease and Mild Cognitive Impairment: A Meta-Analysis. Frontiers in Aging Neuroscience, 2021, 13, 637218.	1.7	12
2016	CRISPR Gene-Editing Models Geared Toward Therapy for Hereditary and Developmental Neurological Disorders. Frontiers in Pediatrics, 2021, 9, 592571.	0.9	4
2017	In vivo CT imaging of gold nanoparticle-labeled exosomes in a myocardial infarction mouse model. Annals of Translational Medicine, 2021, 9, 504-504.	0.7	9
2018	Factors Affecting Extracellular Vesicles Based Drug Delivery Systems. Molecules, 2021, 26, 1544.	1.7	46
2019	Circulating exosomes in cardiovascular disease: Novel carriers of biological information. Biomedicine and Pharmacotherapy, 2021, 135, 111148.	2.5	37
2020	Bioorthogonally surfaceâ€edited extracellular vesicles based on metabolic glycoengineering for CD44â€mediated targeting of inflammatory diseases. Journal of Extracellular Vesicles, 2021, 10, e12077.	5.5	30
2021	Exosomes derived from human placental mesenchymal stem cells enhanced the recovery of spinal cord injury by activating endogenous neurogenesis. Stem Cell Research and Therapy, 2021, 12, 174.	2.4	42
2022	Potential of extracellular vesicles in the Parkinson's disease â€“ Pathological mediators and biomarkers. Neurochemistry International, 2021, 144, 104974.	1.9	21
2023	Aptamer-Based Detection of Circulating Targets for Precision Medicine. Chemical Reviews, 2021, 121, 12035-12105.	23.0	294
2024	Strategies for delivering therapeutics across the bloodâ€“brain barrier. Nature Reviews Drug Discovery, 2021, 20, 362-383.	21.5	417
2025	Circulating Extracellular Vesicles As Biomarkers and Drug Delivery Vehicles in Cardiovascular Diseases. Biomolecules, 2021, 11, 388.	1.8	30
2026	Exosomes: Small EVs with Large Immunomodulatory Effect in Glioblastoma. International Journal of Molecular Sciences, 2021, 22, 3600.	1.8	15
2027	The role of mRNA in the development, diagnosis, treatment and prognosis of neural tumors. Molecular Cancer, 2021, 20, 49.	7.9	21
2028	A Nanomule Peptide Carrier Delivers siRNA Across the Intact Blood-Brain Barrier to Attenuate Ischemic Stroke. Frontiers in Molecular Biosciences, 2021, 8, 611367.	1.6	13
2029	Native and Bioengineered Exosomes for Ischemic Stroke Therapy. Frontiers in Cell and Developmental Biology, 2021, 9, 619565.	1.8	41
2030	Are extracellular vesicles new hope in clinical drug delivery for neurological disorders?. Neurochemistry International, 2021, 144, 104955.	1.9	17
2031	Translational Animal Models Provide Insight Into Mesenchymal Stromal Cell (MSC) Secretome Therapy. Frontiers in Cell and Developmental Biology, 2021, 9, 654885.	1.8	20
2032	Radiolabeled HER2-directed exosomes exhibit improved cell targeting and specificity. Nanomedicine, 2021, 16, 553-567.	1.7	5

#	Article	IF	Citations
2033	Tumor Exosomes Reprogrammed by Low pH Are Efficient Targeting Vehicles for Smart Drug Delivery and Personalized Therapy against their Homologous Tumor. Advanced Science, 2021, 8, 2002787.	5.6	38
2034	Biodistribution and Pharmacokinectics of Liposomes and Exosomes in a Mouse Model of Sepsis. Pharmaceutics, 2021, 13, 427.	2.0	30
2035	Osteosarcoma Cell-Derived Exosomal miR-1307 Promotes Tumorgenesis via Targeting AGAP1. BioMed Research International, 2021, 2021, 1-17.	0.9	17
2036	Harnessing molecular recognition for localized drug delivery. Advanced Drug Delivery Reviews, 2021, 170, 238-260.	6.6	15
2037	Pathophysiology of Preeclampsia: The Role of Exosomes. International Journal of Molecular Sciences, 2021, 22, 2572.	1.8	42
2038	Extracellular vesicle hybrid engineering for DDS and medical application. Drug Delivery System, 2021, 36, 90-99.	0.0	0
2039	Aptamerâ€“Exosomes for Tumor Theranostics. ACS Sensors, 2021, 6, 1418-1429.	4.0	20
2040	Insight Into the Prospects for RNAi Therapy of Cancer. Frontiers in Pharmacology, 2021, 12, 644718.	1.6	61
2041	In vivo self-assembled small RNAs as a new generation of RNAi therapeutics. Cell Research, 2021, 31, 631-648.	5.7	56
2042	An updated review on exosomes: biosynthesis to clinical applications. Journal of Drug Targeting, 2021, 29, 925-940.	2.1	20
2043	Neural Basis of Dental Pulp Stem Cells and its Potential Application in Parkinsonâ€™s Disease. CNS and Neurological Disorders - Drug Targets, 2022, 21, 62-76.	0.8	13
2044	Distribution of microRNA profiles in pre-clinical and clinical forms of murine and human prion disease. Communications Biology, 2021, 4, 411.	2.0	9
2045	Proteomic Characterization, Biodistribution, and Functional Studies of Immune-Therapeutic Exosomes: Implications for Inflammatory Lung Diseases. Frontiers in Immunology, 2021, 12, 636222.	2.2	13
2046	Restoring Tissue Homeostasis at Metastatic Sites: A Focus on Extracellular Vesicles in Bone Metastasis. Frontiers in Oncology, 2021, 11, 644109.	1.3	13
2047	Engineered extracellular vesicles as versatile ribonucleoprotein delivery vehicles for efficient and safe CRISPR genome editing. Journal of Extracellular Vesicles, 2021, 10, e12076.	5.5	102
2048	Extracellular Vesicles for the Treatment of Radiation-Induced Normal Tissue Toxicity in the Lung. Frontiers in Oncology, 2020, 10, 602763.	1.3	7
2049	Advances in the Design of (Nano)Formulations for Delivery of Antisense Oligonucleotides and Small Interfering RNA: Focus on the Central Nervous System. Molecular Pharmaceutics, 2021, 18, 1491-1506.	2.3	32
2050	Expedition into Exosome Biology: A Perspective of Progress from Discovery to Therapeutic Development. Cancers, 2021, 13, 1157.	1.7	23

#	Article	IF	Citations
2051	Exosomes for mRNA delivery: a novel biotherapeutic strategy with hurdles and hope. BMC Biotechnology, 2021, 21, 20.	1.7	56
2052	Physiological and Pathological Factors Affecting Drug Delivery to the Brain by Nanoparticles. Advanced Science, 2021, 8, e2002085.	5.6	25
2053	Small Extracellular Vesicles: A Novel Avenue for Cancer Management. Frontiers in Oncology, 2021, 11, 638357.	1.3	34
2054	Eating microRNAs: pharmacological opportunities for crossâ€kingdom regulation and implications in host gene and gut microbiota modulation. British Journal of Pharmacology, 2021, 178, 2218-2245.	2.7	53
2055	Intriguing Biomedical Applications of Synthetic and Natural Cell-Derived Vesicles: A Comparative Overview. ACS Applied Bio Materials, 2021, 4, 2863-2885.	2.3	15
2056	Cerebral Apolipoprotein D Exits the Brain and Accumulates in Peripheral Tissues. International Journal of Molecular Sciences, 2021, 22, 4118.	1.8	4
2057	miR-124: A Promising Therapeutic Target for Central Nervous System Injuries and Diseases. Cellular and Molecular Neurobiology, 2022, 42, 2031-2053.	1.7	13
2058	Extracellular Vesicles: A Novel Tool Facilitating Personalized Medicine and Pharmacogenomics in Oncology. Frontiers in Pharmacology, 2021, 12, 671298.	1.6	16
2059	Therapeutic Potential of Extracellular Vesicles for Sepsis Treatment. Advanced Therapeutics, 2021, 4, 2000259.	1.6	14
2060	Exosomes: Powerful weapon for cancer nano-immunoengineering. Biochemical Pharmacology, 2021, 186, 114487.	2.0	20
2061	Lipid-Based Nanoparticles in the Clinic and Clinical Trials: From Cancer Nanomedicine to COVID-19 Vaccines. Vaccines, 2021, 9, 359.	2.1	222
2062	Bacterial Extracellular Vesicles and the Gutâ€Microbiota Brain Axis: Emerging Roles in Communication and Potential as Therapeutics. Advanced Biology, 2021, 5, e2000540.	1.4	18
2063	HOTAIRâ€Loaded Mesenchymal Stem/Stromal Cell Extracellular Vesicles Enhance Angiogenesis and Wound Healing. Advanced Healthcare Materials, 2022, 11, e2002070.	3.9	62
2064	Towards microfluidic-based exosome isolation and detection for tumor therapy. Nano Today, 2021, 37, 101066.	6.2	112
2065	Targeting the blood-brain barrier for the delivery of stroke therapies. Advanced Drug Delivery Reviews, 2021, 171, 332-351.	6.6	63
2066	Delivery of oligonucleotideâ€based therapeutics: challenges and opportunities. EMBO Molecular Medicine, 2021, 13, e13243.	3.3	181
2067	Extracellular Vesicles during TriTryps infection: Complexity and future challenges. Molecular Immunology, 2021, 132, 172-183.	1.0	13
2068	Extracellular vesicles from dHL-60 cells as delivery vehicles for diverse therapeutics. Scientific Reports, 2021, 11, 8289.	1.6	6

#	Article	IF	Citations
2069	Endothelial Extracellular Vesicles: From Keepers of Health to Messengers of Disease. International Journal of Molecular Sciences, 2021, 22, 4640.	1.8	39
2070	Exosomes as new therapeutic vectors for pancreatic cancer treatment. European Journal of Pharmaceutics and Biopharmaceutics, 2021, 161, 4-14.	2.0	13
2071	Emerging Role of Exosomes in Retinal Diseases. Frontiers in Cell and Developmental Biology, 2021, 9, 643680.	1.8	23
2072	HIV Neuroinflammation: The Role of Exosomes in Cell Signaling, Prognostic and Diagnostic Biomarkers and Drug Delivery. Frontiers in Cell and Developmental Biology, 2021, 9, 637192.	1.8	13
2073	Nanomedicine-based technologies and novel biomarkers for the diagnosis and treatment of Alzheimerâ€™s disease: from current to future challenges. Journal of Nanobiotechnology, 2021, 19, 122.	4.2	60
2075	Delivery of Therapeutic Agents to the Central Nervous System and the Promise of Extracellular Vesicles. Pharmaceutics, 2021, 13, 492.	2.0	23
2076	Fetal lung underdevelopment is rescued by administration of amniotic fluid stem cell extracellular vesicles in rodents. Science Translational Medicine, 2021, 13, .	5.8	40
2077	Biomaterial-based extracellular vesicle delivery for therapeutic applications. Acta Biomaterialia, 2021, 124, 88-107.	4.1	35
2078	The exosome journey: from biogenesis to uptake and intracellular signalling. Cell Communication and Signaling, 2021, 19, 47.	2.7	606
2079	Extracellular Vesicles as Promising Carriers in Drug Delivery: Considerations from a Cell Biologistâ€™s Perspective. Biology, 2021, 10, 376.	1.3	19
2080	MiRNAs and Muscle Regeneration: Therapeutic Targets in Duchenne Muscular Dystrophy. International Journal of Molecular Sciences, 2021, 22, 4236.	1.8	13
2081	The Emerging World of Membrane Vesicles: Functional Relevance, Theranostic Avenues and Tools for Investigating Membrane Function. Frontiers in Molecular Biosciences, 2021, 8, 640355.	1.6	15
2082	Therapeutic targeting of STAT3 with small interference RNAs and antisense oligonucleotides embedded exosomes in liver fibrosis. FASEB Journal, 2021, 35, e21557.	0.2	48
2083	The Therapeutic Applications of Exosomes in Different Types of Diseases: A Review. Current Molecular Medicine, 2021, 21, 87-95.	0.6	4
2084	Natural Killer Cell-Derived Extracellular Vesicles: Novel Players in Cancer Immunotherapy. Frontiers in Immunology, 2021, 12, 658698.	2.2	36
2085	Anionic Polysaccharide-Modified Filter Papers for Rapid Isolation of Extracellular Vesicles from Diverse Samples in a Simple Bindâ€“Washâ€“Elute Manner. Analytical Chemistry, 2021, 93, 7405-7412.	3.2	7
2086	Nano-ghosts: Novel biomimetic nano-vesicles for the delivery of antisense oligonucleotides. Journal of Controlled Release, 2021, 333, 28-40.	4.8	14
2087	Clinical applications for exosomes: Are we there yet?. British Journal of Pharmacology, 2021, 178, 2375-2392.	2.7	57

#	Article	IF	Citations
2088	Aptamer and RVG functionalized gold nanorods for targeted photothermal therapy of neurotropic virus infection in the mouse brain. Chemical Engineering Journal, 2021, 411, 128557.	6.6	27
2089	Understanding amphisomes. Biochemical Journal, 2021, 478, 1959-1976.	1.7	57
2090	Mesenchymal stem cell alongside exosomes as a novel cell-based therapy for COVID-19: A review study. Clinical Immunology, 2021, 226, 108712.	1.4	19
2091	Mesenchymal Stem Cell-Derived Exosomes Ameliorate Alzheimerâ€™s Disease Pathology and Improve Cognitive Deficits. Biomedicines, 2021, 9, 594.	1.4	55
2092	Non-Viral Vector-Mediated Gene Therapy for ALS: Challenges and Future Perspectives. Molecular Pharmaceutics, 2021, 18, 2142-2160.	2.3	31
2093	Intracellular imaging and concurrent pH sensing of cancer-derived exosomes using surface-enhanced Raman scattering. Analytical and Bioanalytical Chemistry, 2021, 413, 4091-4101.	1.9	10
2094	Encapsulation of Hydrophilic Compounds in Small Extracellular Vesicles: Loading Capacity and Impact on Vesicle Functions. Advanced Healthcare Materials, 2022, 11, e2100047.	3.9	35
2095	Antigen-encapsulating host extracellular vesicles derived from Salmonella-infected cells stimulate pathogen-specific Th1-type responses in vivo. PLoS Pathogens, 2021, 17, e1009465.	2.1	26
2096	Phosphatidylcholineâ€Engineered Exosomes for Enhanced Tumor Cell Uptake and Intracellular Antitumor Drug Delivery. Macromolecular Bioscience, 2021, 21, e2100042.	2.1	28
2097	Nanomaterials for cancer therapy: current progress and perspectives. Journal of Hematology and Oncology, 2021, 14, 85.	6.9	456
2098	Extracellular Vesicles and Their Current Role in Cancer Immunotherapy. Cancers, 2021, 13, 2280.	1.7	20
2099	Extracellular Vesicles as Potential Therapeutics for Inflammatory Diseases. International Journal of Molecular Sciences, 2021, 22, 5487.	1.8	18
2100	Advances in Biological Function and Clinical Application of Small Extracellular Vesicle Membrane Proteins. Frontiers in Oncology, 2021, 11, 675940.	1.3	19
2101	A versatile platform for generating engineered extracellular vesicles with defined therapeutic properties. Molecular Therapy, 2021, 29, 1729-1743.	3.7	152
2102	Delivering Antisense Oligonucleotides across the Bloodâ€Brain Barrier by Tumor Cellâ€Derived Small Apoptotic Bodies. Advanced Science, 2021, 8, 2004929.	5.6	45
2103	Therapeutic Silencing of BCL-2 Using NK Cell-Derived Exosomes as a Novel Therapeutic Approach in Breast Cancer. Cancers, 2021, 13, 2397.	1.7	39
2104	Exosomes: Innocent Bystanders or Critical Culprits in Neurodegenerative Diseases. Frontiers in Cell and Developmental Biology, 2021, 9, 635104.	1.8	34
2105	Extracellular Vesicles as a Therapeutic Tool for Kidney Disease: Current Advances and Perspectives. International Journal of Molecular Sciences, 2021, 22, 5787.	1.8	19

#	Article	IF	Citations
2106	Neural Stem Cell-Derived Exosomes Regulate Neural Stem Cell Differentiation Through miR-9-Hes1 Axis. Frontiers in Cell and Developmental Biology, 2021, 9, 601600.	1.8	45
2107	Safe and Targeted Sonodynamic Cancer Therapy Using Biocompatible Exosome-Based Nanosonosensitizers. ACS Applied Materials & Interfaces, 2021, 13, 25575-25588.	4.0	58
2108	Non-Small-Cell Lung Cancer Regression by siRNA Delivered Through Exosomes That Display EGFR RNA Aptamer. Nucleic Acid Therapeutics, 2021, 31, 364-374.	2.0	25
2109	Rationally Designed Protein-Based Inhibitor of Î±-Synuclein Fibrillization in Cells. Journal of Medicinal Chemistry, 2021, 64, 6827-6837.	2.9	9
2110	Cell-Based Delivery Approaches for DNA-Binding Domains into the Central Nervous System. Current Neuropharmacology, 2021, 19, .	1.4	1
2111	Potential Use of Exosomes as Diagnostic Biomarkers and in Targeted Drug Delivery: Progress in Clinical and Preclinical Applications. ACS Biomaterials Science and Engineering, 2021, 7, 2106-2149.	2.6	95
2112	Emerging Application of Nanorobotics and Artificial Intelligence To Cross the BBB: Advances in Design, Controlled Maneuvering, and Targeting of the Barriers. ACS Chemical Neuroscience, 2021, 12, 1835-1853.	1.7	66
2113	Exosome-mediated delivery of RNA and DNA for gene therapy. Cancer Letters, 2021, 505, 58-72.	3.2	64
2114	On your MARCKS, get set, deliver: Engineering extracellular vesicles. Molecular Therapy, 2021, 29, 1664-1665.	3.7	1
2115	Programmably tiling rigidified DNA brick on gold nanoparticle as multi-functional shell for cancer-targeted delivery of siRNAs. Nature Communications, 2021, 12, 2928.	5.8	62
2116	Extracellular Vesicle Application as a Novel Therapeutic Strategy for Ischemic Stroke. Translational Stroke Research, 2022, 13, 171-187.	2.3	9
2117	Extracellular vesicles isolated from mesenchymal stromal cells primed with neurotrophic factors and signaling modifiers as potential therapeutics for neurodegenerative diseases. Current Research in Translational Medicine, 2021, 69, 103286.	1.2	15
2118	Extracellular Vesicles from Plants: Current Knowledge and Open Questions. International Journal of Molecular Sciences, 2021, 22, 5366.	1.8	58
2119	Diagnostic and Therapeutic Potential of Exosomal MicroRNAs for Neurodegenerative Diseases. Neural Plasticity, 2021, 2021, 1-13.	1.0	14
2120	Regulation of Nrf2 signaling pathway in heart failure: Role of extracellular vesicles and non-coding RNAs. Free Radical Biology and Medicine, 2021, 167, 218-231.	1.3	30
2121	Biogenesis, Membrane Trafficking, Functions, and Next Generation Nanotherapeutics Medicine of Extracellular Vesicles. International Journal of Nanomedicine, 2021, Volume 16, 3357-3383.	3.3	54
2122	Mesenchymal Stem Cell-Derived Extracellular Vesicles to the Rescue of Renal Injury. International Journal of Molecular Sciences, 2021, 22, 6596.	1.8	37
2123	Liposomes and Extracellular Vesicles as Drug Delivery Systems: A Comparison of Composition, Pharmacokinetics, and Functionalization. Advanced Healthcare Materials, 2022, 11, e2100639.	3.9	142

#	Article	IF	Citations
2124	Extracellular vesicles in neuroinflammation: Pathogenesis, diagnosis, and therapy. Molecular Therapy, 2021, 29, 1946-1957.	3.7	30
2125	Improved cardiac-specific delivery of RAGE siRNA within small extracellular vesicles engineered to express intense cardiac targeting peptide attenuates myocarditis. Molecular Therapy - Nucleic Acids, 2021, 24, 1024-1032.	2.3	23
2126	Logic-Gated Cell-Derived Nanovesicles via DNA-Based Smart Recognition Module. ACS Applied Materials & Interfaces, 2021, 13, 30397-30403.	4.0	19
2127	Heterogeneous Nuclear Ribonucleoprotein A1 Loads Batched Tumor-Promoting MicroRNAs Into Small Extracellular Vesicles With the Assist of Caveolin-1 in A549 Cells. Frontiers in Cell and Developmental Biology, 2021, 9, 687912.	1.8	9
2128	Advances in siRNA delivery strategies for the treatment of MDR cancer. Life Sciences, 2021, 274, 119337.	2.0	21
2129	Development of Novel Therapeutics Targeting the Bloodâ€“Brain Barrier: From Barrier to Carrier. Advanced Science, 2021, 8, e2101090.	5.6	75
2130	Perspective insights and application of exosomes as a novel tool against neurodegenerative disorders: An expository appraisal. Journal of Drug Delivery Science and Technology, 2021, 63, 102526.	1.4	1
2131	Extracellular vesicleâ€“ and particle-mediated communication shapes innate and adaptive immune responses. Journal of Experimental Medicine, 2021, 218, .	4.2	47
2132	Characterization of murine extracellular vesicles and Toxoplasma gondii infection. Parasite Immunology, 2021, 43, e12869.	0.7	9
2133	Targeting receptor-ligand chemistry for drug delivery across blood-brain barrier in brain diseases. Life Sciences, 2021, 274, 119326.	2.0	39
2134	A call for the standardised reporting of factors affecting the exogenous loading of extracellular vesicles with therapeutic cargos. Advanced Drug Delivery Reviews, 2021, 173, 479-491.	6.6	68
2135	Kim-1 Targeted Extracellular Vesicles: A New Therapeutic Platform for RNAi to Treat AKI. Journal of the American Society of Nephrology: JASN, 2021, 32, 2467-2483.	3.0	50
2136	Understanding the Pathophysiology of Exosomes in Schistosomiasis: A New Direction for Disease Control and Prevention. Frontiers in Immunology, 2021, 12, 634138.	2.2	3
2137	Recent progress in targeted delivery vectors based on biomimetic nanoparticles. Signal Transduction and Targeted Therapy, 2021, 6, 225.	7.1	115
2138	Lipid membrane-based therapeutics and diagnostics. Archives of Biochemistry and Biophysics, 2021, 704, 108858.	1.4	4
2139	Profiling of Extracellular Small RNAs Highlights a Strong Bias towards Non-Vesicular Secretion. Cells, 2021, 10, 1543.	1.8	11
2140	Approaches to surface engineering of extracellular vesicles. Advanced Drug Delivery Reviews, 2021, 173, 416-426.	6.6	87
2141	Role of extracellular vesicles in neurodegenerative diseases. Progress in Neurobiology, 2021, 201, 102022.	2.8	41

#	Article	IF	Citations
2142	Discovery of a Highly Conserved Peptide in the Iron Transporter Melanotransferrin that Traverses an Intact Blood Brain Barrier and Localizes in Neural Cells. Frontiers in Neuroscience, 2021, 15, 596976.	1.4	5
2143	Engineered EV-Mimetic Nanoparticles as Therapeutic Delivery Vehicles for High-Grade Serous Ovarian Cancer. Cancers, 2021, 13, 3075.	1.7	11
2144	Exosomes as Naturally Occurring Vehicles for Delivery of Biopharmaceuticals: Insights from Drug Delivery to Clinical Perspectives. Nanomaterials, 2021, 11, 1481.	1.9	74
2145	From Nanoparticles to Cancer Nanomedicine: Old Problems with New Solutions. Nanomaterials, 2021, 11, 1727.	1.9	25
2146	Noncoding RNA therapeutics â€" challenges and potential solutions. Nature Reviews Drug Discovery, 2021, 20, 629-651.	21.5	749
2147	Exosomal microRNA in Pancreatic Cancer Diagnosis, Prognosis, and Treatment: From Bench to Bedside. Cancers, 2021, 13, 2777.	1.7	18
2148	Acerola exosome-like nanovesicles to systemically deliver nucleic acid medicine via oral administration. Molecular Therapy - Methods and Clinical Development, 2021, 21, 199-208.	1.8	46
2149	Nucleic acid delivery with extracellular vesicles. Advanced Drug Delivery Reviews, 2021, 173, 89-111.	6.6	48
2150	On the Relationship of Viral Particles and Extracellular Vesicles: Implications for Viral Vector Technology. Viruses, 2021, 13, 1238.	1.5	6
2151	Endothelial Progenitor Cell-Derived Extracellular Vesicles: Potential Therapeutic Application in Tissue Repair and Regeneration. International Journal of Molecular Sciences, 2021, 22, 6375.	1.8	27
2152	Exploring interactions between extracellular vesicles and cells for innovative drug delivery system design. Advanced Drug Delivery Reviews, 2021, 173, 252-278.	6.6	55
2153	Targeted extracellular vesicle delivery systems employing superparamagnetic iron oxide nanoparticles. Acta Biomaterialia, 2021, 134, 13-31.	4.1	35
2154	Ligand-mediated delivery of RNAi-based therapeutics for the treatment of oncological diseases. NAR Cancer, 2021, 3, zcab030.	1.6	16
2155	Tagged extracellular vesicles with the RBD of the viral spike protein for delivery of antiviral agents against SARS-COV-2 infection. Journal of Controlled Release, 2021, 335, 584-595.	4.8	29
2156	The emerging role of exosomes in Alzheimerâ€™s disease. Ageing Research Reviews, 2021, 68, 101321.	5.0	68
2157	Ternary Complexes of pDNA, Neuron-Binding Peptide, and PEGylated Polyethyleneimine for Brain Delivery with Nano-Bubbles and Ultrasound. Pharmaceutics, 2021, 13, 1003.	2.0	18
2158	Peptide-Enabled Targeted Delivery Systems for Therapeutic Applications. Frontiers in Bioengineering and Biotechnology, 2021, 9, 701504.	2.0	27
2159	Genetically engineered exosomes display RVG peptide and selectively enrich a neprilysin variant: a potential formulation for the treatment of Alzheimerâ€™s disease. Journal of Drug Targeting, 2021, 29, 1128-1138.	2.1	18

#	Article	IF	Citations
2160	Exosomes derived from adipose-derived stem cells overexpressing glyoxalase-1 protect endothelial cells and enhance angiogenesis in type 2 diabetic mice with limb ischemia. Stem Cell Research and Therapy, 2021, 12, 403.	2.4	38
2161	Biodistribution of Exosomes and Engineering Strategies for Targeted Delivery of Therapeutic Exosomes. Tissue Engineering and Regenerative Medicine, 2021, 18, 499-511.	1.6	93
2162	Extracellular vesicles in cancer diagnostics and therapeutics. , 2021, 223, 107806.		42
2163	Extracellular Vesicles as an Advanced Delivery Biomaterial for Precision Cancer Immunotherapy. Advanced Healthcare Materials, 2022, 11, e2100650.	3.9	27
2164	Separation, characterization, and standardization of extracellular vesicles for drug delivery applications. Advanced Drug Delivery Reviews, 2021, 174, 348-368.	6.6	66
2165	Transportation of Single-Domain Antibodies through the Bloodâ€“Brain Barrier. Biomolecules, 2021, 11, 1131.	1.8	35
2166	Camouflage strategies for therapeutic exosomes evasion from phagocytosis. Journal of Advanced Research, 2021, 31, 61-74.	4.4	81
2167	Extracellular Vesicles in Blood: Sources, Effects, and Applications. International Journal of Molecular Sciences, 2021, 22, 8163.	1.8	68
2168	Extracellular vesicles: Regenerative medicine prospect in hematological malignancies. Cell Biology International, 2021, 45, 2031-2044.	1.4	3
2169	iRGDâ€modified exosomes effectively deliver CPT1A siRNA to colon cancer cells, reversing oxaliplatin resistance by regulating fatty acid oxidation. Molecular Oncology, 2021, 15, 3430-3446.	2.1	57
2170	Comparative study of commercial protocols for high recovery of high-purity mesenchymal stem cell-derived extracellular vesicle isolation and their efficient labeling with fluorescent dyes. Nanomedicine: Nanotechnology, Biology, and Medicine, 2021, 35, 102396.	1.7	10
2171	HLA-B and cysteinylated ligands distinguish the antigen presentation landscape of extracellular vesicles. Communications Biology, 2021, 4, 825.	2.0	9
2172	Exosomes in atrial fibrillation: therapeutic potential and role as clinical biomarkers. Heart Failure Reviews, 2022, 27, 1211-1221.	1.7	5
2173	Overcoming Barriers: Clinical Translation of siRNA Nanomedicines. Advanced Therapeutics, 2021, 4, 2100108.	1.6	14
2174	From Mesenchymal Stromal Cells to Engineered Extracellular Vesicles: A New Therapeutic Paradigm. Frontiers in Cell and Developmental Biology, 2021, 9, 705676.	1.8	40
2175	A mechanism of inheritance of acquired traits in animals. Developmental Biology, 2021, 475, 106-117.	0.9	4
2176	Growth arrest and DNA damage-inducible protein 34 (GADD34) contributes to cerebral ischemic injury and can be detected in plasma exosomes. Neuroscience Letters, 2021, 758, 136004.	1.0	10
2177	Extracellular vesicles as drug vectors for precise cancer treatment. Nanomedicine, 2021, 16, 1519-1537.	1.7	16

#	Article	IF	Citations
2178	B3Pdb: an archive of bloodâ€“brain barrier-penetrating peptides. Brain Structure and Function, 2021, 226, 2489-2495.	1.2	14
2179	Nanotechnologyâ€Assisted RNA Delivery: From Nucleic Acid Therapeutics to COVIDâ€19 Vaccines. Small Methods, 2021, 5, 2100402.	4.6	45
2180	Exosomal delivery of therapeutic modulators through the bloodâ€“brain barrier; promise and pitfalls. Cell and Bioscience, 2021, 11, 142.	2.1	70
2181	Emerging Exosomes and Exosomal MiRNAs in Spinal Cord Injury. Frontiers in Cell and Developmental Biology, 2021, 9, 703989.	1.8	44
2182	A Highâ€Throughput Nanofluidic Device for Exosome Nanoporation to Develop Cargo Delivery Vehicles. Small, 2021, 17, e2102150.	5.2	19
2183	Extracellular vesicles for the treatment of central nervous system diseases. Advanced Drug Delivery Reviews, 2021, 174, 535-552.	6.6	39
2184	Maternal effects in mammals: Broadening our understanding of offspring programming. Frontiers in Neuroendocrinology, 2021, 62, 100924.	2.5	20
2185	Illuminating RNA trafficking and functional delivery by extracellular vesicles. Advanced Drug Delivery Reviews, 2021, 174, 250-264.	6.6	29
2186	Extracellular vesicles as a next-generation drug delivery platform. Nature Nanotechnology, 2021, 16, 748-759.	15.6	761
2187	Lipids and Lipid Derivatives for RNA Delivery. Chemical Reviews, 2021, 121, 12181-12277.	23.0	227
2188	Extracellular vesicles as delivery systems at nano-/micro-scale. Advanced Drug Delivery Reviews, 2021, 179, 113910.	6.6	45
2189	Inflammation and Alzheimerâ€™s Disease: Mechanisms and Therapeutic Implications by Natural Products. Mediators of Inflammation, 2021, 2021, 1-21.	1.4	36
2190	Deliver the promise: RNAs as a new class of molecular entities for therapy and vaccination. , 2022, 230, 107967.		40
2191	Engineered exosomes for coâ€delivery of PGM5â€AS1 and oxaliplatin to reverse drug resistance in colon cancer. Journal of Cellular Physiology, 2022, 237, 911-933.	2.0	40
2192	Exosomes and Atherogenesis. Frontiers in Cardiovascular Medicine, 2021, 8, 738031.	1.1	11
2193	The regulatory roles of microRNAs toward pathogenesis and treatments in Huntington's disease. Journal of Biomedical Science, 2021, 28, 59.	2.6	15
2194	EKSOZOM TANI VE TEDAVÄ°SÄ°. Beykent Ãœniversitesi Fen Ve MÃ¼hendislik Bilimleri Dergisi, 0, , .	0.4	0
2195	Exosomes as cell-derivative carriers in the diagnosis and treatment of central nervous system diseases. Drug Delivery and Translational Research, 2022, 12, 1047-1079.	3.0	27

#	Article	IF	Citations
2196	Gene-engineered exosomes-thermosensitive liposomes hybrid nanovesicles by the blockade of CD47 signal for combined photothermal therapy and cancer immunotherapy. Biomaterials, 2021, 275, 120964.	5.7	145
2197	Therapeutic approaches targeting molecular signaling pathways common to diabetes, lung diseases and cancer. Advanced Drug Delivery Reviews, 2021, 178, 113918.	6.6	16
2198	Recent Progress of Extracellular Vesicle Engineering. ACS Biomaterials Science and Engineering, 2021, 7, 4430-4438.	2.6	19
2199	Extracellular vesicles in endothelial cells: from mediators of cell-to-cell communication to cargo delivery tools. Free Radical Biology and Medicine, 2021, 172, 508-520.	1.3	18
2200	Doxorubicin Paradoxically Ameliorates Tumor-Induced Inflammation in Young Mice. International Journal of Molecular Sciences, 2021, 22, 9023.	1.8	3
2201	Small Extracellular Vesicles and Metastasisâ€"Blame the Messenger. Cancers, 2021, 13, 4380.	1.7	11
2202	Transplantation of engineered exosomes derived from bone marrow mesenchymal stromal cells ameliorate diabetic peripheral neuropathy under electrical stimulation. Bioactive Materials, 2021, 6, 2231-2249.	8.6	36
2203	Extracellular vesicles for tissue repair and regeneration: Evidence, challenges and opportunities. Advanced Drug Delivery Reviews, 2021, 175, 113775.	6.6	86
2204	Recent Advances in the Delivery Carriers and Chemical Conjugation Strategies for Nucleic Acid Drugs. Cancers, 2021, 13, 3881.	1.7	10
2205	Extracellular Vesicles as Drug Delivery System for the Treatment of Neurodegenerative Disorders: Optimization of the Cell Source. Advanced NanoBiomed Research, 2021, 1, 2100064.	1.7	13
2206	Phosphatidylserine-deficient small extracellular vesicle is a major somatic cell-derived sEV subpopulation in blood. IScience, 2021, 24, 102839.	1.9	24
2207	Efficient Anti-Glioma Therapy Through the Brain-Targeted RVG15-Modified Liposomes Loading Paclitaxel-Cholesterol Complex. International Journal of Nanomedicine, 2021, Volume 16, 5755-5776.	3.3	18
2208	Immune Modulatory Short Noncoding RNAs Targeting the Glioblastoma Microenvironment. Frontiers in Oncology, 2021, 11, 682129.	1.3	2
2209	Non-Pigmented Ciliary Epithelium-Derived Extracellular Vesicles Loaded with SMAD7 siRNA Attenuate Wnt Signaling in Trabecular Meshwork Cells In Vitro. Pharmaceuticals, 2021, 14, 858.	1.7	10
2210	Extracellular vesicles derived from inflammatory-educated stem cells reverse brain inflammationâ€"implication of miRNAs. Molecular Therapy, 2022, 30, 816-830.	3.7	22
2211	Exosomes in Dogs and Cats: An Innovative Approach to Neoplastic and Non-Neoplastic Diseases. Pharmaceuticals, 2021, 14, 766.	1.7	9
2212	IFNÎ³-stimulated dendritic cell extracellular vesicles can be nasally administered to the brain and enter oligodendrocytes. PLoS ONE, 2021, 16, e0255778.	1.1	10
2213	Key Points in Remote-Controlled Drug Delivery: From the Carrier Design to Clinical Trials. International Journal of Molecular Sciences, 2021, 22, 9149.	1.8	5

#	Article	IF	Citations
2214	Nanotechnology-Based Strategies to Overcome Current Barriers in Gene Delivery. International Journal of Molecular Sciences, 2021, 22, 8537.	1.8	29
2215	Extracellular vesicles as a drug delivery system: A systematic review of preclinical studies. Advanced Drug Delivery Reviews, 2021, 175, 113801.	6.6	92
2216	Intercellular communication through extracellular vesicles in cancer and evolutionary biology. Progress in Biophysics and Molecular Biology, 2021, 165, 80-87.	1.4	6
2217	Mononuclear phagocyte system blockade using extracellular vesicles modified with CD47 on membrane surface for myocardial infarction reperfusion injury treatment. Biomaterials, 2021, 275, 121000.	5.7	74
2218	Urinary exosomes-based Engineered Nanovectors for Homologously Targeted Chemo-Chemodynamic Prostate Cancer Therapy via abrogating EGFR/AKT/NF-ĸB/IĸB signaling. Biomaterials, 2021, 275, 120946.	5.7	65
2219	Extracellular Vesicles in Acute Kidney Injury and Clinical Applications. International Journal of Molecular Sciences, 2021, 22, 8913.	1.8	15
2220	Neuron-derived extracellular vesicles enriched from plasma show altered size and miRNA cargo as a function of antidepressant drug response. Molecular Psychiatry, 2021, 26, 7417-7424.	4.1	45
2221	Quantification of protein cargo loading into engineered extracellular vesicles at singleâ€vesicle and singleâ€molecule resolution. Journal of Extracellular Vesicles, 2021, 10, e12130.	5.5	57
2222	Trends in the biological functions and medical applications of extracellular vesicles and analogues. Acta Pharmaceutica Sinica B, 2021, 11, 2114-2135.	5.7	30
2223	Stem cells and their extracellular vesicles as natural and bioinspired carriers for the treatment of neurological disorders. Current Opinion in Colloid and Interface Science, 2021, 54, 101460.	3.4	5
2224	Stem Cell-Derived Exosomes Potential Therapeutic Roles in Cardiovascular Diseases. Frontiers in Cardiovascular Medicine, 2021, 8, 723236.	1.1	17
2225	Abnormal expression profile of plasma-derived exosomal microRNAs in patients with treatment-resistant depression. Human Genomics, 2021, 15, 55.	1.4	22
2226	Exosomes: Potential Disease Biomarkers and New Therapeutic Targets. Biomedicines, 2021, 9, 1061.	1.4	46
2227	Functional siRNA Delivery by Extracellular Vesicleâ€“Liposome Hybrid Nanoparticles. Advanced Healthcare Materials, 2022, 11, e2101202.	3.9	77
2228	Mini Review: Current Trends and Understanding of Exosome Therapeutic Potential in Corneal Diseases. Frontiers in Pharmacology, 2021, 12, 684712.	1.6	9
2229	Exogenous loading of miRNAs into small extracellular vesicles. Journal of Extracellular Vesicles, 2021, 10, e12111.	5.5	43
2230	The power of imaging to understand extracellular vesicle biology in vivo. Nature Methods, 2021, 18, 1013-1026.	9.0	163
2231	Pharmacokinetic Analysis of Peptide-Modified Nanoparticles with Engineered Physicochemical Properties in a Mouse Model of Traumatic Brain Injury. AAPS Journal, 2021, 23, 100.	2.2	12

#	Article	IF	Citations
2232	Isolation of extracellular vesicles from byproducts of cheesemaking by tangential flow filtration yields heterogeneous fractions of nanoparticles. Journal of Dairy Science, 2021, 104, 9478-9493.	1.4	17
2233	Analysis of MicroRNA Expression Changes During the Course of Therapy In Rectal Cancer Patients. Frontiers in Oncology, 2021, 11, 702258.	1.3	11
2234	The Role of Melanoma Cell-Derived Exosomes (MTEX) and Photodynamic Therapy (PDT) within a Tumor Microenvironment. International Journal of Molecular Sciences, 2021, 22, 9726.	1.8	21
2235	Exosomal Proteins and miRNAs as Mediators of Amyotrophic Lateral Sclerosis. Frontiers in Cell and Developmental Biology, 2021, 9, 718803.	1.8	9
2236	What we know on the potential use of exosomes for nanodelivery. Seminars in Cancer Biology, 2022, 86, 13-25.	4.3	16
2237	A High Throughput Approach Based on Dynamic High Pressure for the Encapsulation of Active Compounds in Exosomes for Precision Medicine. International Journal of Molecular Sciences, 2021, 22, 9896.	1.8	6
2238	Overview of the Therapeutic Applications of Stem Cellâ€“Derived Exosomes: A Research and Commercial Perspective. Current Protocols, 2021, 1, e230.	1.3	0
2239	A Comprehensive Insight into the Role of Exosomes in Viral Infection: Dual Faces Bearing Different Functions. Pharmaceutics, 2021, 13, 1405.	2.0	35
2240	Extracellular vesicles in the treatment of neurological disorders. Neurobiology of Disease, 2021, 157, 105445.	2.1	28
2241	Rational design for controlled release of Dicer-substrate siRNA harbored in phi29 pRNA-based nanoparticles. Molecular Therapy - Nucleic Acids, 2021, 25, 524-535.	2.3	9
2242	Molecular insights and clinical impacts of extracellular vesicles in cancer. Oncology Reviews, 2021, 2, 542.	0.8	0
2243	Development of Extracellular Vesicle Therapeutics: Challenges, Considerations, and Opportunities. Frontiers in Cell and Developmental Biology, 2021, 9, 734720.	1.8	75
2244	Exosomal miRNAs as New Players of Cancers: A Mini-review Study. Gene, Cell and Tissue, 2021, In Press, .	0.2	0
2245	Exosomes as mediators of intercellular crosstalk in metabolism. Cell Metabolism, 2021, 33, 1744-1762.	7.2	253
2246	Bacterial Outer Membrane Vesicles as Antibiotic Delivery Vehicles. Frontiers in Immunology, 2021, 12, 733064.	2.2	36
2247	Recent advances in stem cell therapy for neurodegenerative disease: Three dimensional tracing and its emerging use. World Journal of Stem Cells, 2021, 13, 1215-1230.	1.3	5
2248	Extracellular vesicles mediated exocytosis of antisense peptide nucleic acids. Molecular Therapy - Nucleic Acids, 2021, 25, 302-315.	2.3	8
2249	Therapeutic roles of mesenchymal stem cell-derived extracellular vesicles in cancer. Journal of Hematology and Oncology, 2021, 14, 136.	6.9	131

#	Article	IF	Citations
2250	Determining The Role of Surface Glycans in The Pharmacokinetics of Small Extracellular Vesicles. Journal of Pharmaceutical Sciences, 2021, 110, 3261-3267.	1.6	11
2251	Genetically Engineered Cellular Membrane Vesicles as Tailorable Shells for Therapeutics. Advanced Science, 2021, 8, e2100460.	5.6	34
2252	The biology, function, and applications of exosomes in cancer. Acta Pharmaceutica Sinica B, 2021, 11, 2783-2797.	5.7	209
2253	Neuroprotective effect and potential of cellular prion protein and its cleavage products for treatment of neurodegenerative disorders part II: strategies for therapeutics development. Expert Review of Neurotherapeutics, 2021, 21, 983-991.	1.4	6
2254	Circulating Pro-Inflammatory Exosomes Worsen Stroke Outcomes in Aging. Circulation Research, 2021, 129, e121-e140.	2.0	26
2255	Levels of Receptor for Advanced Glycation End Products and Glyoxalase-1 in the Total Circulating Extracellular Vesicles from Mild Cognitive Impairment and Different Stages of Alzheimerâ€™s Disease Patients. Journal of Alzheimer's Disease, 2021, 84, 227-237.	1.2	5
2256	Exosomes as natural delivery carriers for programmable therapeutic nucleic acid nanoparticles (NANPs). Advanced Drug Delivery Reviews, 2021, 176, 113835.	6.6	50
2257	Delivery of Oligonucleotide Therapeutics: Chemical Modifications, Lipid Nanoparticles, and Extracellular Vesicles. ACS Nano, 2021, 15, 13993-14021.	7.3	74
2258	Large-scale identification of extracellular plant miRNAs in mammals implicates their dietary intake. PLoS ONE, 2021, 16, e0257878.	1.1	6
2259	Exosomes as Targeted Delivery Platform of CRISPR/Cas9 for Therapeutic Genome Editing. ChemBioChem, 2021, 22, 3360-3368.	1.3	40
2260	Combining protein and RNA quantification to evaluate promoter activity by using dual-color fluorescent reporting systems. Bioscience Reports, 2021, 41, .	1.1	2
2261	Class A scavenger receptor-1/2 facilitates the uptake of bovine milk exosomes in murine bone marrow-derived macrophages and C57BL/6J mice. American Journal of Physiology - Cell Physiology, 2021, 321, C607-C614.	2.1	7
2262	New approaches in extracellular vesicle engineering for improving the efficacy of anti-cancer therapies. Seminars in Cancer Biology, 2021, 74, 62-78.	4.3	27
2263	Designer exosomes enabling tumor targeted efficient chemo/gene/photothermal therapy. Biomaterials, 2021, 276, 121056.	5.7	79
2264	Harnessing the therapeutic potential of extracellular vesicles for cancer treatment. Seminars in Cancer Biology, 2021, 74, 92-104.	4.3	9
2265	An engineered CD81â€based combinatorial library for selecting recombinant binders to cell surface proteins: Laminin binding CD81 enhances cellular uptake of extracellular vesicles. Journal of Extracellular Vesicles, 2021, 10, e12139.	5.5	9
2266	A bone-targeted engineered exosome platform delivering siRNA to treat osteoporosis. Bioactive Materials, 2022, 10, 207-221.	8.6	79
2267	The Potential of Milk-Derived Exosomes for Drug Delivery. Current Drug Delivery, 2021, 18, 688-699.	0.8	10

#	Article	IF	Citations
2268	Comparison of methods for pre-processing, exosome isolation, and RNA extraction in unpasteurized bovine and human milk. PLoS ONE, 2021, 16, e0257633.	1.1	37
2269	Exosome membrane-modified M2 macrophages targeted nanomedicine: Treatment for allergic asthma. Journal of Controlled Release, 2021, 338, 253-267.	4.8	56
2270	Bioactive nanotherapeutic trends to combat triple negative breast cancer. Bioactive Materials, 2021, 6, 3269-3287.	8.6	31
2271	The crosstalk between brain and periphery: Implications for brain health and disease. Neuropharmacology, 2021, 197, 108728.	2.0	17
2272	Microvesicles transfer mitochondria and increase mitochondrial function in brain endothelial cells. Journal of Controlled Release, 2021, 338, 505-526.	4.8	65
2273	Expanding the toolbox of exosome-based modulators of cell functions. Biomaterials, 2021, 277, 121129.	5.7	12
2274	Efficient roles of miR-146a in cellular and molecular mechanisms of neuroinflammatory disorders: An effectual review in neuroimmunology. Immunology Letters, 2021, 238, 1-20.	1.1	13
2275	Extracellular vesicles for remote brain repair. Current Opinion in Genetics and Development, 2021, 70, 61-65.	1.5	0
2276	Bovine Milk Exosomes Alleviate Cardiac Fibrosis via Enhancing Angiogenesis In Vivo and In Vitro. Journal of Cardiovascular Translational Research, 2022, 15, 560-570.	1.1	13
2277	Engineered extracellular vesicles as brain therapeutics. Journal of Controlled Release, 2021, 338, 472-485.	4.8	25
2278	High-quality milk exosomes as oral drug delivery system. Biomaterials, 2021, 277, 121126.	5.7	75
2279	Dosing extracellular vesicles. Advanced Drug Delivery Reviews, 2021, 178, 113961.	6.6	134
2280	Distribution of ion pairs into a bilayer lipid membrane and its effect on the ionic permeability. Biochimica Et Biophysica Acta - Biomembranes, 2021, 1863, 183724.	1.4	2
2281	Molecular impacts of childhood abuse on the human brain. Neurobiology of Stress, 2021, 15, 100343.	1.9	12
2282	Enhancing extracellular vesicles for therapeutic treatment of arthritic joints. Free Radical Biology and Medicine, 2021, 175, 80-94.	1.3	4
2283	Engineering and loading therapeutic extracellular vesicles for clinical translation: A data reporting frame for comparability. Advanced Drug Delivery Reviews, 2021, 178, 113972.	6.6	36
2284	M1 macrophage exosomes engineered to foster M1 polarization and target the IL-4 receptor inhibit tumor growth by reprogramming tumor-associated macrophages into M1-like macrophages. Biomaterials, 2021, 278, 121137.	5.7	166
2285	Oligonucleotides as therapeutic tools for brain disorders: Focus on major depressive disorder and Parkinson's disease. , 2021, 227, 107873.		17

#	Article	IF	Citations
2286	Delivery of therapeutic oligonucleotides in nanoscale. Bioactive Materials, 2022, 7, 292-323.	8.6	29
2287	Bioinspired therapeutic platform based on extracellular vesicles for prevention of arterial wall remodeling in hypertension. Bioactive Materials, 2022, 8, 494-504.	8.6	9
2288	Docetaxel-loaded exosomes for targeting non-small cell lung cancer: preparation and evaluation in vitro and in vivo. Drug Delivery, 2021, 28, 1510-1523.	2.5	30
2289	Extracellular vesicles as distinct biomarker reservoirs for mild traumatic brain injury diagnosis. Brain Communications, 2021, 3, fcab151.	1.5	19
2290	Hypoxia-specific anti-RAGE exosomes for nose-to-brain delivery of anti-miR-181a oligonucleotide in an ischemic stroke model. Nanoscale, 2021, 13, 14166-14178.	2.8	38
2291	Research Progresses in the Inhibitory Effect of Bone Mesenchymal Stem Cell-Derived Exosome on Blood-Brain Barrier Disruption following Intracerebral Hemorrhage in Rats. Journal of Biosciences and Medicines, 2021, 09, 125-137.	0.1	1
2292	A Biomimetic Drug Delivery System by Integrating Grapefruit Extracellular Vesicles and Doxorubicin-Loaded Heparin-Based Nanoparticles for Glioma Therapy. Nano Letters, 2021, 21, 1484-1492.	4.5	133
2293	Therapeutic reversal of Huntingtonâ€™s disease by in vivo self-assembled siRNAs. Brain, 2021, 144, 3421-3435.	3.7	36
2294	Synaptic vesicle-inspired nanoparticles with spatiotemporally controlled release ability as a â€œnanoguardâ€•for synergistic treatment of synucleinopathies. Materials Horizons, 2021, 8, 1199-1206.	6.4	7
2295	Polymer-Coated Extracellular Vesicles for Selective Codelivery of Chemotherapeutics and siRNA to Cancer Cells. ACS Applied Bio Materials, 2021, 4, 1294-1306.	2.3	14
2296	Current strategies in tailoring methods for engineered exosomes and future avenues in biomedical applications. Journal of Materials Chemistry B, 2021, 9, 6281-6309.	2.9	21
2297	Engineered exosomes: desirable target-tracking characteristics for cerebrovascular and neurodegenerative disease therapies. Theranostics, 2021, 11, 8926-8944.	4.6	95
2298	Extracellular Vesicles Derived from a Human Brain Endothelial Cell Line Increase Cellular ATP Levels. AAPS PharmSciTech, 2021, 22, 18.	1.5	22
2299	Therapeutic Application of Exosomes in Inflammatory Diseases. International Journal of Molecular Sciences, 2021, 22, 1144.	1.8	28
2300	MicrofluidicâEBased Exosome Analysis for Liquid Biopsy. Small Methods, 2021, 5, e2001131.	4.6	81
2301	Delivery of Functional Small RNAs via Extracellular Vesicles In Vitro and In Vivo. Methods in Molecular Biology, 2020, 2115, 107-117.	0.4	22
2302	The Role of MicroRNAs in Natural Tissue Development and Application in Regenerative Medicine. Advances in Delivery Science and Technology, 2013, , 57-78.	0.4	2
2303	RNAi Therapeutic Delivery by Exosomes. Advances in Delivery Science and Technology, 2013, , 185-205.	0.4	3

#	Article	IF	Citations
2304	Intranasal Delivery of Chitosanâ€“siRNA Nanoparticle Formulation to the Brain. Methods in Molecular Biology, 2014, 1141, 233-247.	0.4	12
2305	RNA Interference: Mechanisms, Technical Challenges, and Therapeutic Opportunities. Methods in Molecular Biology, 2015, 1218, 1-15.	0.4	38
2306	Nonviral Gene Therapy of the Nervous System: Electroporation. Methods in Molecular Biology, 2016, 1382, 297-305.	0.4	3
2307	Cancer Exosomes for Early Pancreatic Cancer Diagnosis and Role in Metastasis. , 2017, , 1-17.		1
2308	Neurodegenerative Diseases: The Real Problem and Nanobiotechnological Solutions. , 2019, , 1-17.		3
2309	Morphogenetic Sphingolipids in Stem Cell Differentiation and Embryo Development. Pancreatic Islet Biology, 2017, , 11-40.	0.1	3
2310	The Emerging Role of Exosomes in Cancer Progression and Their Potential as Therapy Targets. , 2018, , 27-45.		1
2311	Glioblastoma Microvesicles Transport RNA and Proteins, Promoting Tumor Growth. Tumors of the Central Nervous System, 2014, , 101-112.	0.1	1
2312	Enhancing Angiogenesis in Mice by VEGF-Targeting Small Activating RNAs. Advances in Experimental Medicine and Biology, 2017, 983, 195-205.	0.8	1
2313	Exosomes in Drug Delivery. , 2021, , 337-360.		2
2314	Tau Prion-Like Propagation: State of theÂArt and Current Challenges. Advances in Experimental Medicine and Biology, 2019, 1184, 305-325.	0.8	47
2315	The bright and dark side of extracellular vesicles in the senescence-associated secretory phenotype. Mechanisms of Ageing and Development, 2020, 189, 111263.	2.2	49
2316	Biomaterials and extracellular vesicles in cell-free therapy for bone repair and regeneration: Future line of treatment in regenerative medicine. Materialia, 2020, 12, 100736.	1.3	14
2317	Fine-tuning bispecific therapeutics. , 2020, 212, 107582.		7
2318	Exosome-Mediated miR-29 Transfer Reduces Muscle Atrophy and Kidney Fibrosis in Mice. Molecular Therapy, 2019, 27, 571-583.	3.7	130
2319	Maternal antioxidant treatment prevents the adverse effects of prenatal stress on the offspring's brain and behavior. Neurobiology of Stress, 2020, 13, 100281.	1.9	22
2320	Cell biology: The new cell anatomy. Nature, 2011, 480, 26-28.	13.7	16
2321	How extracellular vesicles can enhance drug delivery. Nature, 2020, 582, S14-S15.	13.7	12

#	Article	IF	Citations
2322	Hybrid cellular membrane nanovesicles amplify macrophage immune responses against cancer recurrence and metastasis. Nature Communications, 2020, 11, 4909.	5.8	199
2323	Decoy ACE2-expressing extracellular vesicles that competitively bind SARS-CoV-2 as a possible COVID-19 therapy. Clinical Science, 2020, 134, 1301-1304.	1.8	75
2324	Engineering exosome polymer hybrids by atom transfer radical polymerization. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	63
2331	Autologous tumor cellâ€“derived microparticle-based targeted chemotherapy in lung cancer patients with malignant pleural effusion. Science Translational Medicine, 2019, 11, .	5.8	143
2332	Extracellular Vesicleâ€“Mediated Delivery of Circular RNA SCMH1 Promotes Functional Recovery in Rodent and Nonhuman Primate Ischemic Stroke Models. Circulation, 2020, 142, 556-574.	1.6	198
2333	Exosomal Tat protein activates latent HIV-1 in primary, resting CD4+ T lymphocytes. JCI Insight, 2018, 3, .	2.3	37
2334	Exosomes mediate sensory hair cell protection in the inner ear. Journal of Clinical Investigation, 2020, 130, 2657-2672.	3.9	75
2335	Extracellular vesicles and intercellular communication within the nervous system. Journal of Clinical Investigation, 2016, 126, 1198-1207.	3.9	188
2336	Kinetics and Specificity of HEK293T Extracellular Vesicle Uptake using Imaging Flow Cytometry. Nanoscale Research Letters, 2020, 15, 170.	3.1	34
2337	Light- Scattering Methods to Characterize Extracellular Vesicles. , 2014, , 253-278.		2
2338	Exosomes in Pathogenesis, Diagnosis, and Treatment of Alzheimerâ€™s Disease. Medical Science Monitor, 2019, 25, 3329-3335.	0.5	84
2339	Role of Exosomes in the Progression, Diagnosis, and Treatment of Gliomas. Medical Science Monitor, 2020, 26, e924023.	0.5	26
2340	Escherichia Coli Outer Membrane Vesicles Induced DNA Double-Strand Breaks in Intestinal Epithelial Caco-2 Cells. Medical Science Monitor Basic Research, 2019, 25, 45-52.	2.6	5
2341	New treatment modalities in Alzheimer's disease. World Journal of Clinical Cases, 2019, 7, 1764-1774.	0.3	12
2343	Targeted Cell Fusion Facilitates Stable Heterokaryon Generation In Vitro and In Vivo. PLoS ONE, 2011, 6, e26381.	1.1	11
2344	Differential Expression of Exosomal microRNAs in Prefrontal Cortices of Schizophrenia and Bipolar Disorder Patients. PLoS ONE, 2013, 8, e48814.	1.1	205
2345	Free Extracellular miRNA Functionally Targets Cells by Transfecting Exosomes from Their Companion Cells. PLoS ONE, 2015, 10, e0122991.	1.1	59
2346	Integrating Protein Engineering and Bioorthogonal Click Conjugation for Extracellular Vesicle Modulation and Intracellular Delivery. PLoS ONE, 2015, 10, e0141860.	1.1	86

#	Article	IF	Citations
2347	Automated Protein Localization of Blood Brain Barrier Vasculature in Brightfield IHC Images. PLoS ONE, 2016, 11, e0148411.	1.1	5
2348	Urinary Exosomal miRNA Signature in Type II Diabetic Nephropathy Patients. PLoS ONE, 2016, 11, e0150154.	1.1	182
2349	Extracellular Vesicles from Vascular Endothelial Cells Promote Survival, Proliferation and Motility of Oligodendrocyte Precursor Cells. PLoS ONE, 2016, 11, e0159158.	1.1	32
2350	Extracellular vesicles mediate signaling between the aqueous humor producing and draining cells in the ocular system. PLoS ONE, 2017, 12, e0171153.	1.1	42
2351	The SUMOylation Pathway Restricts Gene Transduction by Adeno-Associated Viruses. PLoS Pathogens, 2015, 11, e1005281.	2.1	25
2352	Attenuation of Experimental Autoimmune Hepatitis in Mice with Bone Mesenchymal Stem Cell-Derived Exosomes Carrying MicroRNA-223-3p. Molecules and Cells, 2019, 42, 906-918.	1.0	33
2353	The untapped potential of urine shed bladder cancer exosomes: biomarkers, signaling, and therapeutics. Bladder, 2014, 1, 7.	0.6	9
2354	Extracellular vesicles derived from mesenchymal stem cells: A platform that can be engineered. Histology and Histopathology, 2021, 36, 615-632.	0.5	5
2355	The Effect of Mesenchymal Stem Cell-Derived Extracellular Vesicles on Hematopoietic Stem Cells Fate. Advanced Pharmaceutical Bulletin, 2017, 7, 531-546.	0.6	17
2356	The obstacles to current extracellular vesicle-mediated drug delivery research. Journal of Pharmacy & Pharmaceutics, 2017, 4, 156-158.	0.3	4
2357	In Vivo Delivery Aspects of miRNA, shRNA and siRNA. Critical Reviews in Therapeutic Drug Carrier Systems, 2012, 29, 487-527.	1.2	56
2358	Extracellular Vesicles: Evolving Contributors in Autoimmunity. Forum on Immunopathological Diseases and Therapeutics, 2015, 6, 163-170.	0.1	14
2359	Emerging Role of the Cerebrospinal Fluid â€“ Neuronal Interface in Neuropathology. Neuro - Open Journal, 2015, 2, 92-98.	0.1	3
2360	The phenomenon of RNA interference in oncology: advances, problems and perspectives. Uspehi Molekularnoj Onkologii, 2016, 3, 8-15.	0.1	2
2361	The functions and clinical applications of tumor-derived exosomes. Oncotarget, 2016, 7, 60736-60751.	0.8	70
2362	Curcumin increases exosomal TCF21 thus suppressing exosome-induced lung cancer. Oncotarget, 2016, 7, 87081-87090.	0.8	49
2363	Targeted delivery of nano-PTX to the brain tumor-associated macrophages. Oncotarget, 2017, 8, 6564-6578.	0.8	37
2364	Emerging role of exosome-mediated intercellular communication in vascular remodeling. Oncotarget, 2017, 8, 25700-25712.	0.8	94

#	Article	IF	Citations
2365	Evaluating different routes of extracellular vesicle administration for cranial therapies. Journal of Cancer Metastasis and Treatment, 2020, 2020, .	0.5	8
2366	Exosomes: scytales in the damaged heart. Annals of Translational Medicine, 2016, 4, 222-222.	0.7	6
2367	The potential roles of stem cell-derived extracellular vesicles as a therapeutic tool. Annals of Translational Medicine, 2019, 7, 693-693.	0.7	28
2368	Exosome-like Nanovectors for Drug Delivery in Cancer. Current Medicinal Chemistry, 2019, 26, 6132-6148.	1.2	83
2369	Exosomes and Lung Cancer: Roles in Pathophysiology, Diagnosis and Therapeutic Applications. Current Medicinal Chemistry, 2020, 28, 308-328.	1.2	48
2370	Exosomes: Natural Carriers for siRNA Delivery. Current Pharmaceutical Design, 2015, 21, 4556-4565.	0.9	35
2371	Extracellular Vesicles as Drug Delivery Systems - Methods of Production and Potential Therapeutic Applications. Current Pharmaceutical Design, 2019, 25, 132-154.	0.9	42
2372	Intercellular Crosstalk Via Extracellular Vesicles in Tumor Milieu as Emerging Therapies for Cancer Progression. Current Pharmaceutical Design, 2019, 25, 1980-2006.	0.9	11
2373	Neurotoxic and Neuroprotective Role of Exosomes in Parkinsonâ€™s Disease. Current Pharmaceutical Design, 2020, 25, 4510-4522.	0.9	17
2374	Exosomes in Sepsis and Inflammatory Tissue Injury. Current Pharmaceutical Design, 2020, 25, 4486-4495.	0.9	28
2375	Methods for the Determination of the Purity of Exosomes. Current Pharmaceutical Design, 2020, 25, 4464-4485.	0.9	15
2376	Vesicular Transport Machinery in Brain Endothelial Cells: What We Know and What We Do not. Current Pharmaceutical Design, 2020, 26, 1405-1416.	0.9	31
2377	Biocompatible Nanovesicular Drug Delivery Systems with Targeting Potential for Autoimmune Diseases. Current Pharmaceutical Design, 2020, 26, 5488-5502.	0.9	12
2378	Exosome-based Tumor Therapy: Opportunities and Challenges. Current Drug Metabolism, 2020, 21, 339-351.	0.7	17
2379	Non-coding RNAs in Exosomes: New Players in Cancer Biology. Current Genomics, 2015, 16, 295-303.	0.7	71
2380	Exosomes in Therapy: Engineering, Pharmacokinetics and Future Applications. Current Drug Targets, 2018, 20, 87-95.	1.0	34
2381	Engineering of Exosomes: Steps Towards Green Production of Drug Delivery System. Current Drug Targets, 2019, 20, 1537-1549.	1.0	21
2382	A Systematic Review of Current Progresses in the Nucleic Acid-Based Therapies for Neurodegeneration with Implications for Alzheimerâ€™s Disease. Mini-Reviews in Medicinal Chemistry, 2020, 20, 1499-1517.	1.1	14

#	Article	IF	Citations
2383	Peptide modules for overcoming barriers of nucleic acids transport to cells. Current Topics in Medicinal Chemistry, 2015, 16, 330-342.	1.0	19
2384	Membrane Derived Vesicles as Biomimetic Carriers for Targeted Drug Delivery System. Current Topics in Medicinal Chemistry, 2020, 20, 2472-2492.	1.0	14
2385	Pharmacomodulation of microRNA Expression in Neurocognitive Diseases: Obstacles and Future Opportunities. Current Neuropharmacology, 2017, 15, 276-290.	1.4	20
2386	Alzheimerâ€™s Disorder: Epigenetic Connection and Associated Risk Factors. Current Neuropharmacology, 2020, 18, 740-753.	1.4	47
2387	Advanced Micro-Nano-Bio Systems for Future Targeted Therapies. Current Nanoscience, 2015, 11, 144-160.	0.7	42
2388	Exosome and Biomimetic Nanoparticle Therapies for Cardiac Regenerative Medicine. Current Stem Cell Research and Therapy, 2020, 15, 674-684.	0.6	13
2389	Microparticles and their Roles in Inflammation: A ReviewÂ§. The Open Immunology Journal, 2013, 6, 1-14.	1.5	10
2390	Extracellular Vesicles Tracking and Quantification Using CT and Optical Imaging in Rats. Bio-protocol, 2020, 10, e3635.	0.2	5
2391	Extracellular Vesicles as a Neprilysin Delivery System Memory Improvement in Alzheimer's Disease. Iranian Journal of Pharmaceutical Research, 2020, 19, 45-60.	0.3	19
2392	The potential of nanomedicine to alter cancer stem cellÂdynamics: the impact of extracellular vesicles. Nanomedicine, 2020, 15, 2785-2800.	1.7	10
2393	Exosomes: novel effectors of human platelet lysate activity. , 2014, 28, 137-151.		140
2394	Physiological and pathological insights into exosomes in the brain. Zoological Research, 2020, 41, 365-372.	0.9	16
2395	Current application of exosomes in medicine. Medical Journal of Cell Biology (discontinued), 2020, 8, 101-111.	0.2	6
2396	Potential application of mesenchymal stem cell-derived exosomes as a novel therapeutic drug. Drug Delivery System, 2014, 29, 140-151.	0.0	1
2397	Physiologic constraints of using exosomes in vivo as systemic delivery vehicles. Precision Nanomedicine, 2019, 2, 344-369.	0.4	2
2398	Exosomal miRNAs as Biomarkers for Prostate Cancer. Frontiers in Genetics, 2013, 4, 36.	1.1	125
2399	Exosomes: Their Role in Pathogenesis, Diagnosis and Treatment of Diseases. Cancers, 2021, 13, 84.	1.7	36
2400	Mesenchymal Stem Cell-Derived Exosomes: Biological Function and Their Therapeutic Potential in Radiation Damage. Cells, 2021, 10, 42.	1.8	20

#	Article	IF	Citations
2401	Challenges in Biomaterial-Based Drug Delivery Approach for the Treatment of Neurodegenerative Diseases: Opportunities for Extracellular Vesicles. International Journal of Molecular Sciences, 2021, 22, 138.	1.8	23
2402	Exosomes as Drug Delivery Systems: Endogenous Nanovehicles for Treatment of Systemic Lupus Erythematosus. Pharmaceutics, 2021, 13, 3.	2.0	46
2403	Effects of Chronic Kidney Disease and Uremic Toxins on Extracellular Vesicle Biology. Toxins, 2020, 12, 811.	1.5	11
2404	Serumâ€free culture alters the quantity and protein composition of neuroblastomaâ€derived extracellular vesicles. Journal of Extracellular Vesicles, 2015, 4, 26883.	5.5	131
2405	MicroRNA-feedback loop as a key modulator of liver tumorigenesis and inflammation. World Journal of Gastroenterology, 2013, 19, 440.	1.4	10
2406	Drug delivery application of extracellular vesicles; insight into production, drug loading, targeting, and pharmacokinetics. AIMS Bioengineering, 2017, 4, 73-92.	0.6	27
2407	Therapeutic Potential of Anti-HIV RNA-loaded Exosomes. Biomedical and Environmental Sciences, 2018, 31, 215-226.	0.2	8
2408	Synthetic and nature-derived lipid nanoparticles for neural regeneration. Neural Regeneration Research, 2015, 10, 689.	1.6	13
2409	The role of exosomes in peripheral nerve regeneration. Neural Regeneration Research, 2015, 10, 743.	1.6	51
2410	Extracellular vesicles in the diagnosis and treatment of central nervous system diseases. Neural Regeneration Research, 2020, 15, 586.	1.6	65
2411	Engineering mesenchymal stromal/stem cell-derived extracellular vesicles with improved targeting and therapeutic efficiency for the treatment of central nervous system disorders. Neural Regeneration Research, 2020, 15, 2235.	1.6	11
2412	Stem cell therapy for Alzheimer's disease. World Journal of Stem Cells, 2020, 12, 787-802.	1.3	77
2413	Stem cell-derived exosomes as a therapeutic tool for cardiovascular disease. World Journal of Stem Cells, 2016, 8, 297.	1.3	49
2414	Pancreatic cancer diagnosis by free and exosomal miRNA. World Journal of Gastrointestinal Pathophysiology, 2013, 4, 74.	0.5	67
2415	Immunomodulatory nature and site specific affinity of mesenchymal stem cells: a hope in cell therapy. Advanced Pharmaceutical Bulletin, 2014, 4, 5-13.	0.6	50
2416	Mesenchymal Cell-Derived Exosomes as Novel Useful Candidates for Drug Delivery. Archives of Neuroscience, 2020, 7, .	0.1	11
2417	Exosome-derived microRNA-29c Induces Apoptosis of BIU-87 Cells by Down Regulating BCL-2 and MCL-1. Asian Pacific Journal of Cancer Prevention, 2014, 15, 3471-3476.	0.5	33
2418	Macrophage-secreted Exosomes Delivering miRNA-21 Inhibitor can Regulate BGC-823 Cell Proliferation. Asian Pacific Journal of Cancer Prevention, 2015, 16, 4203-4209.	0.5	53

#	Article	IF	Citations
2419	Texosome-based drug delivery system for cancer therapy: from past to present. Cancer Biology and Medicine, 2015, 12, 150-62.	1.4	22
2420	Hitching a ride on exosomes: a new approach for the delivery of siRNA-mediated therapies. Brain, 2021, 144, 3286-3287.	3.7	2
2421	Current knowledge and the future potential of extracellular vesicles in mammalian reproduction. Reproduction, Fertility and Development, 2021, 34, 174-189.	0.1	7
2422	Amelioration of systemic inflammation via the display of two different decoy protein receptors on extracellular vesicles. Nature Biomedical Engineering, 2021, 5, 1084-1098.	11.6	41
2423	Engineering extracellular vesicles for Alzheimer's disease: An emerging cellâ€free approach for earlier diagnosis and treatment. WIREs Mechanisms of Disease, 2022, 14, e1541.	1.5	3
2424	Extracellular Vesicles from Human Teeth Stem Cells Trigger ATP Release and Promote Migration of Human Microglia through P2X4 Receptor/MFG-E8-Dependent Mechanisms. International Journal of Molecular Sciences, 2021, 22, 10970.	1.8	5
2425	Nucleic Acid Drugsâ€"Current Status, Issues, and Expectations for Exosomes. Cancers, 2021, 13, 5002.	1.7	42
2426	In Situ Deployment of Engineered Extracellular Vesicles into the Tumor Niche via Myeloidâ€Derived Suppressor Cells. Advanced Healthcare Materials, 2022, 11, e2101619.	3.9	11
2427	Converting extracellular vesicles into nanomedicine: loading and unloading of cargo. Materials Today Nano, 2021, 16, 100148.	2.3	19
2428	The Unique Properties of Placental Mesenchymal Stromal Cells: A Novel Source of Therapy for Congenital and Acquired Spinal Cord Injury. Cells, 2021, 10, 2837.	1.8	8
2430	A blood-to-brain delivery system to treat obesity. Nature Metabolism, 2021, 3, 1288-1289.	5.1	1
2431	Exosomes in Alzheimerâ€™s Disease: From Being Pathological Players to Potential Diagnostics and Therapeutics. International Journal of Molecular Sciences, 2021, 22, 10794.	1.8	32
2432	Mesenchymal Stem Cell-Derived Extracellular Vesicle-Based Therapy for Alzheimerâ€™s Disease: Progress and Opportunity. Membranes, 2021, 11, 796.	1.4	11
2433	Small extracellular vesicle-mediated targeting of hypothalamic AMPKÎ±1 corrects obesity through BAT activation. Nature Metabolism, 2021, 3, 1415-1431.	5.1	45
2434	Engineering Extracellular Vesicles Enriched with Palmitoylated ACE2 as COVIDâ€19 Therapy. Advanced Materials, 2021, 33, e2103471.	11.1	60
2435	Strong Penetrationâ€Induced Effective Photothermal Therapy by Exosomeâ€Mediated Black Phosphorus Quantum Dots. Small, 2021, 17, e2104585.	5.2	23
2436	Mechanisms of Action of MiRNAs and LncRNAs in Extracellular Vesicle in Atherosclerosis. Frontiers in Cardiovascular Medicine, 2021, 8, 733985.	1.1	21
2437	Delivery of small interfering RNAs by nanovesicles for cancer therapy. Drug Metabolism and Pharmacokinetics, 2022, 42, 100425.	1.1	11

#	Article	IF	Citations
2438	Application of Mesenchymal Stem Cells in Targeted Delivery to the Brain: Potential and Challenges of the Extracellular Vesicle-Based Approach for Brain Tumor Treatment. International Journal of Molecular Sciences, 2021, 22, 11187.	1.8	14
2439	Neurotransmitter-stimulated neuron-derived sEVs have opposite effects on amyloid Î²-induced neuronal damage. Journal of Nanobiotechnology, 2021, 19, 324.	4.2	6
2440	Current Status and Challenges of Stem Cell Treatment for Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2021, 84, 917-935.	1.2	8
2441	Exosomes and Brain Metastases: A Review on Their Role and Potential Applications. International Journal of Molecular Sciences, 2021, 22, 10899.	1.8	13
2442	CAR T cell therapy in solid tumors; with an extensive focus on obstacles and strategies to overcome the challenges. International Immunopharmacology, 2021, 101, 108260.	1.7	3
2443	Extracellular vesicle-associated small heat shock proteins as therapeutic agents in neurodegenerative diseases and beyond. Advanced Drug Delivery Reviews, 2021, 179, 114009.	6.6	9
2444	Development of extracellular vesicle-based medicinal products: A position paper of the group â€œExtracellular Vesicle translatiOn to clinicaL perspectiVEs â€“ EVOLVE Franceâ€: Advanced Drug Delivery Reviews, 2021, 179, 114001.	6.6	42
2445	The Therapeutic Potential of Cell Encapsulation Technology for Drug Delivery in Neurological Disorders. , 0, , .		2
2446	Potential Therapeutic Targets for Cerebral Resuscitation After Global Ischemia. , 2012, , 417-450.		0
2447	Past and Future of Diagnosis and Therapy of Transmissible Spongiform Encephalopathy. , 0, , .		0
2448	Aptamer-Mediated siRNA Targeting. Advances in Delivery Science and Technology, 2013, , 207-220.	0.4	1
2449	Editorial, 8 April 2013. Exosomes and Microvesicles, 2013, , 1.	1.9	0
2450	Vector Technology and Cell Targeting: Peptide-Tagged Adenoviral Vectors as a Powerful Tool for Cell Specific Targeting. , 2013, , 475-503.		0
2451	Oligonucleotides. , 2013, , 459-475.		0
2452	Chronological Primacy of Oxidative-Induced Neuronal Damage in the Pathogenesis of Alzheimer's Disease. International Journal of Biochemistry Research & Review, 2013, 3, 82-96.	0.1	0
2454	Thermodynamically Stable RNA Three-Way Junction for Constructing Multifunctional Nanoparticles for Delivery of Therapeutics. , 2013, , 381-406.		1
2456	Development therapeutic system by exosomal DDS of nucleic acid drugs. Drug Delivery System, 2014, 29, 134-139.	0.0	0
2457	Role of Extracellular Vesicles in Tissue/Organ Regeneration. Pancreatic Islet Biology, 2014, , 231-244.	0.1	1

#	Article	IF	Citations
2458	The â€œEXâ€•and the â€œSOMAâ€• How They Communicate. Advances in Delivery Science and Technology, 2014, 47-63.	0.4	0
2459	Overview of Extracellular Vesicles in Health and Disease. , 2014, , 1-46.		0
2460	Exosomes: Natural Nanovesicle Candidates Used in the Diagnosis and Treatment. Turkish Journal of Immunology, 2014, 2, 34-40.	0.1	2
2462	MicroRNAs as biomarkers for acute myocardial infarction: Small molecules with a huge potential. Sanamed, 2015, 10, 127-135.	0.1	0
2463	Small but mighty: microRNAs as novel signalling molecules in cancer. RNA & Disease (Houston, Tex), 0, , .	1.0	1
2464	Extracellular Vesicles and Neurological Diseases. Journal of the Korean Neurological Association, 2015, 33, 75-81.	0.0	0
2465	Number Based Particle Measurement in the Solution by Nanoparticle Tracking Analysis. Journal of the Society of Powder Technology, Japan, 2016, 53, 363-365.	0.0	0
2466	Neuroprotective properties of extracellular vesicles derived from mesenchymal stem cells. Neural Regeneration Research, 2016, 11, 904.	1.6	5
2467	Bladder cancer exosomes: Getting the message across. World Journal of Clinical Urology, 2016, 5, 18.	0.0	0
2469	Delivery of Functionalized Nanoformulations for Small Interfering RNA (siRNA): Recent Innovative Strategies. MOJ Bioequivalence & Bioavailability, 2017, 3, .	0.1	0
2471	Considering Exososomal MicroRNAs as Biomarkers in Multiple Sclerosis. Journal of Human Genetics and Genomics, 2017, 2, .	0.0	0
2472	Huntingtonâ€™s Disease and Other Polyglutamine Repeat Diseases. , 2018, , 145-188.		0
2473	Recent advances in exosome-based cancer immunotherapy.. , 2018, 01, .		1
2474	Choroid Plexus: Source of Cerebrospinal Fluid and Regulator of Brain Development and Function. , 2019, , 239-266.		2
2475	Developments in Heart Failure: Mechanical Unloading with LVADs, Exosomes, and MicroRNAs. Learning Materials in Biosciences, 2019, , 167-177.	0.2	0
2476	The Characteristics and Therapeutic Application of Perinatal Mesenchymal Stem Cell-Derived Exosomes. , 2019, , 83-91.		0
2477	Mesenchymal Stem Cell-Derived Extracellular Vesicles as Mediators of Anti-inflammatory Effects. Stem Cells in Clinical Applications, 2019, , 89-123.	0.4	1
2478	Biogerontology. , 2019, , 1-7.		0

#	Article	IF	Citations
2479	Research Progress of Exosomes in Cardiovascular Diseases. Advances in Clinical Medicine, 2019, 09, 42-50.	0.0	0
2481	Nanoelectroporation and Collection of Genetically Modified Exosomes in Primary Cultures of Dendritic Cells. Methods in Molecular Biology, 2020, 2050, 79-84.	0.4	8
2482	The potential of exosomes for the diagnosis and treatment of Duchenne muscular dystrophy. Bulletin of Russian State Medical University, 2019, , 5-8.	0.3	0
2486	How to face the aging world â€“ lessons from dementia research. Croatian Medical Journal, 2020, 61, 139-146.	0.2	5
2488	Clinical Utility of Stem Cells in Congenital Anomalies: New Horizons in Pediatric Surgery. Indian Journal of Surgery, 2020, 82, 1219-1228.	0.2	0
2491	A Review of Brain-Targeted Nonviral Gene-Based Therapies for the Treatment of Alzheimerâ€™s Disease. Molecular Pharmaceutics, 2021, 18, 4237-4255.	2.3	5
2492	Facing CAR T Cell Challenges on the Deadliest Paediatric Brain Tumours. Cells, 2021, 10, 2940.	1.8	5
2493	Insights of Extracellular Vesicles of Mesenchymal Stem Cells: a Prospective Cell-Free Regenerative Medicine for Neurodegenerative Disorders. Molecular Neurobiology, 2022, 59, 459-474.	1.9	23
2494	Exosomes in Ageing and Motor Neurone Disease: Biogenesis, Uptake Mechanisms, Modifications in Disease and Uses in the Development of Biomarkers and Therapeutics. Cells, 2021, 10, 2930.	1.8	21
2495	RNA and Protein Delivery by Cellâ€Secreted and Bioengineered Extracellular Vesicles. Advanced Healthcare Materials, 2022, 11, e2101557.	3.9	5
2496	Mesenchymal Stem Cell-Derived Extracellular Vesicles for Osteoarthritis Treatment: Extracellular Matrix Protection, Chondrocyte and Osteocyte Physiology, Pain and Inflammation Management. Cells, 2021, 10, 2887.	1.8	19
2497	Intracellular delivery system based on biofunctional peptide-modified exosomes. Drug Delivery System, 2020, 35, 47-56.	0.0	0
2498	Acute Kidney Injury and Cytokines. , 2020, , 333-351.		0
2499	Extracellular Vesicles for Nerve Regeneration. , 2021, , 1-22.		1
2500	Exosomes derived from bone marrow mesenchymal stromal cells promote remyelination and reduce neuroinflammation in the demyelinating central nervous system. Experimental Neurology, 2022, 347, 113895.	2.0	66
2501	Absorption enhancement of macromolecule-administered intrapulmonary. , 2020, , 147-161.		1
2502	Extracellular Vesicles: The Next Frontier in Regenerative Medicine and Drug Delivery. Advances in Experimental Medicine and Biology, 2020, 1249, 143-160.	0.8	2
2504	Extracellular Vesicles in Precision Medicine. RSC Detection Science, 2020, , 35-57.	0.0	0

#	Article	IF	Citations
2505	Exosome as a novel nanocarriers for therapeutic delivery. Drug Delivery System, 2020, 35, 35-46.	0.0	1
2506	Plasmatic Exosome Number and Size Distinguish Prostate Cancer Patients From Healthy Individuals: A Prospective Clinical Study. Frontiers in Oncology, 2021, 11, 727317.	1.3	28
2507	Role of Glia-Derived Extracellular Vesicles in Neurodegenerative Diseases. Frontiers in Aging Neuroscience, 2021, 13, 765395.	1.7	11
2508	Antisense Oligonucleotide-Mediated Splice Switching: Potential Therapeutic Approach for Cancer Mitigation. Cancers, 2021, 13, 5555.	1.7	13
2509	Bovine mammary alveolar MAC-T cells afford a tool for studies of bovine milk exosomes in drug delivery. International Journal of Pharmaceutics, 2021, 610, 121263.	2.6	9
2510	Hallmarks ofÂexosomes. Future Science OA, 2022, 8, FSO764.	0.9	14
2511	Genetically Programmable Fusion Cellular Vesicles for Cancer Immunotherapy. Angewandte Chemie - International Edition, 2021, 60, 26320-26326.	7.2	55
2512	Viral Membrane Fusion Proteins and RNA Sorting Mechanisms for the Molecular Delivery by Exosomes. Cells, 2021, 10, 3043.	1.8	7
2513	Placental mediated mechanisms of perinatal brain injury: Evolving inflammation and exosomes. Experimental Neurology, 2022, 347, 113914.	2.0	16
2514	Genetically Programmable Fusion Cellular Vesicles for Cancer Immunotherapy. Angewandte Chemie, 2021, 133, 26524-26530.	1.6	2
2515	Nature-inspired dynamic gene-loaded nanoassemblies for the treatment of brain diseases. Advanced Drug Delivery Reviews, 2022, 180, 114029.	6.6	9
2516	Multifunctional Biomedical Materials Derived from Biological Membranes. Advanced Materials, 2022, 34, e2107406.	11.1	26
2517	Hypoxia preconditioned mesenchymal stem cellâ€derived exosomes induce ex vivo expansion of umbilical cord blood hematopoietic stem cells <scp>CD133</scp>+ by stimulation of Notch signaling pathway. Biotechnology Progress, 2022, 38, e3222.	1.3	9
2518	siRNA Therapeutic Design: Tools and Challenges. , 2012, , 475-503.		0
2520	The Use of Peptide and Protein Vectors to Cross the Blood-Brain Barrier for the Delivery of Therapeutic Concentration of Biologics. Neuromethods, 2021, , 119-147.	0.2	1
2521	Extracellular Vesicles: â€œStealth Transport Aircraftsâ€•for Drugs. , 0, , .		1
2522	Exosome a Story From Waste to Become a Gold Mine. Jentashapir Journal of Cellular and Molecular Biology, 2020, 11, .	0.1	0
2523	Exosomes in Neurodegenerative Disorders. , 2021, , 183-206.		0

#	Article	IF	Citations
2524	Nanoparticle Based Gene Therapy Approach: A Pioneering Rebellion in the Management of Psychiatric Disorders. Current Gene Therapy, 2020, 20, 164-173.	0.9	6
2525	RNAi2011: Gene Regulation by Small RNAs. Journal of Rnai and Gene Silencing, 2011, 7, 431-3.	1.2	0
2526	Is amyloid binding alcohol dehydrogenase a drug target for treating Alzheimer's disease?. Current Alzheimer Research, 2013, 10, 21-9.	0.7	28
2527	Uptake Characterization of Tumor Cell-derived Exosomes by Natural Killer Cells. Iranian Journal of Public Health, 2018, 47, 803-813.	0.3	15
2528	Exosomes in cancer therapy: a novel experimental strategy. American Journal of Cancer Research, 2018, 8, 2165-2175.	1.4	22
2529	Focus on exosomes: novel pathogenic components of leukemia. American Journal of Cancer Research, 2019, 9, 1815-1829.	1.4	17
2530	Possible roles of exosomal miRNAs in the pathogenesis of oral lichen planus. American Journal of Translational Research (discontinued), 2019, 11, 5313-5323.	0.0	3
2531	MicroRNAs derived from urinary exosomes act as novel biomarkers in the diagnosis of intrahepatic cholestasis of pregnancy. American Journal of Translational Research (discontinued), 2019, 11, 6249-6261.	0.0	6
2533	The emerging roles of exosomal miRNAs in nasopharyngeal carcinoma. American Journal of Cancer Research, 2021, 11, 2508-2520.	1.4	2
2534	Extracellular vesicles - mediating and delivering cardioprotection in acute myocardial infarction and heart failure. Conditioning Medicine, 2020, 3, 227-238.	1.3	1
2535	Mesenchymal stem cell-derived exosome: A tumor regulator and carrier for targeted tumor therapy. Cancer Letters, 2022, 526, 29-40.	3.2	48
2536	Roles and mechanisms of exosomal non-coding RNAs in human health and diseases. Signal Transduction and Targeted Therapy, 2021, 6, 383.	7.1	143
2537	Special delEVery: Extracellular Vesicles as Promising Delivery Platform to the Brain. Biomedicines, 2021, 9, 1734.	1.4	16
2538	Thinking Quantitatively of RNA-Based Information Transfer via Extracellular Vesicles: Lessons to Learn for the Design of RNA-Loaded EVs. Pharmaceutics, 2021, 13, 1931.	2.0	12
2539	sEVsRVGÂselectively delivers antiviral siRNA to fetus brain, inhibits ZIKV infection and mitigates ZIKV-induced microcephaly in mouse model. Molecular Therapy, 2022, 30, 2078-2091.	3.7	22
2540	Cell-derived extracellular vesicles and membranes for tissue repair. Journal of Nanobiotechnology, 2021, 19, 368.	4.2	10
2541	Current and Emerging Strategies for Enhancing Antibody Delivery to the Brain. Pharmaceutics, 2021, 13, 2014.	2.0	14
2542	Engineering of Extracellular Vesicles as Nano Therapy for Breast Cancer. Physiology, 0, , .	4.0	0

#	Article	IF	Citations
2543	Antisense Oligonucleotide-Based Therapy of Viral Infections. Pharmaceutics, 2021, 13, 2015.	2.0	26
2545	Advances in the application of mesenchymal stem cells, exosomes, biomimetic materials, and 3D printing in osteoporosis treatment. Cellular and Molecular Biology Letters, 2021, 26, 47.	2.7	19
2546	Nanomedicine for Treating Diabetic Retinopathy Vascular Degeneration. International Journal of Translational Medicine, 2021, 1, 306-322.	0.1	4
2547	Tango of dual nanoparticles: Interplays between exosomes and nanomedicine. Bioengineering and Translational Medicine, 2022, 7, e10269.	3.9	6
2548	Extracellular Vesicles and Their Interplay with Biological Membranes. Physiology, 0, , .	4.0	0
2549	Human Retinal Progenitor Cells Derived Small Extracellular Vesicles Delay Retinal Degeneration: A Paradigm for Cell-free Therapy. Frontiers in Pharmacology, 2021, 12, 748956.	1.6	6
2550	Exosome based miRNA delivery strategy for disease treatment. Chinese Chemical Letters, 2022, 33, 1693-1704.	4.8	32
2551	Human umbilical cord mesenchymal stem cell-derived exosomes carrying hsa-miRNA-128-3p suppress pancreatic ductal cell carcinoma by inhibiting Galectin-3. Clinical and Translational Oncology, 2022, 24, 517-531.	1.2	14
2552	Extracellular Vesicles in Lung Cancer Metastasis and Their Clinical Applications. Cancers, 2021, 13, 5633.	1.7	14
2553	Enhancing the Therapeutic Potential of Extracellular Vesicles Using Peptide Technology. Methods in Molecular Biology, 2022, 2383, 119-141.	0.4	5
2554	Extracellular Vesicles as Innovative Treatment Strategy for Amyotrophic Lateral Sclerosis. Frontiers in Cell and Developmental Biology, 2021, 9, 754630.	1.8	6
2555	Engineered exosomes as a natural nanoplatform for cancer targeted delivery of metal-based drugs. Coordination Chemistry Reviews, 2022, 454, 214325.	9.5	9
2556	Exosomes for gene therapy effectively inhibit the endothelial-mesenchymal transition in mouse aortic endothelial cells. BMC Musculoskeletal Disorders, 2021, 22, 1000.	0.8	4
2557	Emerging concepts in the treatment of optic neuritis: mesenchymal stem cell-derived extracellular vesicles. Stem Cell Research and Therapy, 2021, 12, 594.	2.4	13
2558	Drug delivery to the central nervous system. Nature Reviews Materials, 2022, 7, 314-331.	23.3	82
2559	Exosomes and Exosomal Non-coding RNAs Are Novel Promises for the Mechanism-Based Diagnosis and Treatments of Atrial Fibrillation. Frontiers in Cardiovascular Medicine, 2021, 8, 782451.	1.1	6
2560	Extracellular vesicles in pharmacology: Novel approaches in diagnostics and therapy. Pharmacological Research, 2022, 175, 105980.	3.1	8
2561	Environmental Gerontology. , 2021, , 1686-1693.		0

#	Article	IF	Citations
2562	Biogerontology. , 2021, , 671-676.		0
2564	Therapeutic implications of exosomes in the treatment of radiation injury. Burns and Trauma, 2022, 10, tkab043.	2.3	7
2565	Designer Extracellular Vesicles Modulate Proâ€Neuronal Cell Responses and Improve Intracranial Retention. Advanced Healthcare Materials, 2022, , 2100805.	3.9	6
2566	Mesenchymal stem cells-derived extracellular vesicles as â€˜naturalâ€™ drug delivery system for tissue regeneration. Biocell, 2022, 46, 899-902.	0.4	1
2567	Encapsulation of bryostatin-1 by targeted exosomes enhances remyelination and neuroprotection effects in the cuprizone-induced demyelinating animal model of multiple sclerosis. Biomaterials Science, 2022, 10, 714-727.	2.6	23
2568	Technology insight: Plant-derived vesiclesâ€”How far from the clinical biotherapeutics and therapeutic drug carriers?. Advanced Drug Delivery Reviews, 2022, 182, 114108.	6.6	82
2569	Targeted EV to Deliver Chemotherapy to Treat Triple-Negative Breast Cancers. Pharmaceutics, 2022, 14, 146.	2.0	7
2570	Non-viral vectors for RNA delivery. Journal of Controlled Release, 2022, 342, 241-279.	4.8	100
2571	Exosome: A novel neurotransmission modulator or non-canonical neurotransmitter?. Ageing Research Reviews, 2022, 74, 101558.	5.0	36
2572	Current insights on extracellular vesicle-mediated glioblastoma progression: Implications in drug resistance and epithelial-mesenchymal transition. Biochimica Et Biophysica Acta - General Subjects, 2022, 1866, 130065.	1.1	12
2573	Glioma-targeted delivery of exosome-encapsulated antisense oligonucleotides using neural stem cells. Molecular Therapy - Nucleic Acids, 2022, 27, 611-620.	2.3	33
2574	Multi-target polydiacetylene liposome-based biosensor for improved exosome detection. Sensors and Actuators B: Chemical, 2022, 355, 131286.	4.0	10
2575	Extracellular vesicles and their role in peripheral nerve regeneration. Experimental Neurology, 2022, 350, 113968.	2.0	19
2576	Exosomes are secreted at similar densities by M21 and PC3 human cancer cells and show paclitaxel solubility. Biochimica Et Biophysica Acta - Biomembranes, 2022, 1864, 183841.	1.4	1
2577	Vector-mediated cancer gene therapy: A review. GSC Biological and Pharmaceutical Sciences, 2020, 13, 152-165.	0.1	0
2578	PoET: automated approach for measuring pore edge tension in giant unilamellar vesicles. Bioinformatics Advances, 2021, 1, .	0.9	13
2579	Mouse fetal liver cell-derived exosomes inhibit LPS-induced inflammation in microglia. International Journal of Transgender Health, 2021, 14, 709-718.	1.1	0
2580	Regenerative Neurology and Regenerative Cardiology: Shared Hurdles and Achievements. International Journal of Molecular Sciences, 2022, 23, 855.	1.8	6

#	Article	IF	Citations
2582	Successful Incorporation of Exosome-Capturing Antibody-siRNA Complexes into Multiple Myeloma Cells and Suppression of Targeted mRNA Transcripts. Cancers, 2022, 14, 566.	1.7	4
2583	RNA-based therapeutics for neurological diseases. RNA Biology, 2022, 19, 176-190.	1.5	33
2584	Exosomes in Parkinson: Revisiting Their Pathologic Role and Potential Applications. Pharmaceuticals, 2022, 15, 76.	1.7	12
2585	Methodologies to Isolate and Purify Clinical Grade Extracellular Vesicles for Medical Applications. Cells, 2022, 11, 186.	1.8	44
2586	Combination Therapy of Stem Cell-derived Exosomes and Biomaterials in the Wound Healing. Stem Cell Reviews and Reports, 2022, 18, 1892-1911.	1.7	25
2587	Osteosarcoma from the unknown to the use of exosomes as a versatile and dynamic therapeutic approach. European Journal of Pharmaceutics and Biopharmaceutics, 2022, 170, 91-111.	2.0	6
2588	Exosomes released from Sertoli cells contribute to the survival of Leydig cells through CCL20 in rats. Molecular Human Reproduction, 2022, 28, .	1.3	9
2589	Regulation of neuronal autophagy and the implications in neurodegenerative diseases. Neurobiology of Disease, 2022, 162, 105582.	2.1	23
2590	AIE-active macromolecules: designs, performances, and applications. Polymer Chemistry, 2021, 13, 8-43.	1.9	20
2591	Exosomes, extracellular vesicles and the eye. Experimental Eye Research, 2022, 214, 108892.	1.2	15
2592	Emerging prospects of extracellular vesicles for brain disease theranostics. Journal of Controlled Release, 2022, 341, 844-868.	4.8	24
2593	Potential Role of Exosomes in Ischemic Stroke Treatment. Biomolecules, 2022, 12, 115.	1.8	16
2594	Applications of Extracellular Vesicles in Triple-Negative Breast Cancer. Cancers, 2022, 14, 451.	1.7	14
2595	Immune Checkpoint Inhibition in GBM Primed with Radiation by Engineered Extracellular Vesicles. ACS Nano, 2022, 16, 1940-1953.	7.3	58
2596	Exosomes: Biological Pharmaceutical Nanovectors for Theranostics. Frontiers in Bioengineering and Biotechnology, 2021, 9, 808614.	2.0	15
2597	In sickness and in health: The functional role of extracellular vesicles in physiology and pathology in vivo. Journal of Extracellular Vesicles, 2022, 11, e12151.	5.5	64
2598	Extracellular vesicleâ€mediated delivery of circDYM alleviates CUSâ€induced depressiveâ€like behaviours. Journal of Extracellular Vesicles, 2022, 11, e12185.	5.5	43
2599	Engineered extracellular vesicle-based sonotheranostics for dual stimuli-sensitive drug release and photoacoustic imaging-guided chemo-sonodynamic cancer therapy. Theranostics, 2022, 12, 1247-1266.	4.6	29

#	Article	IF	Citations
2600	Brain Tissue-Derived Extracellular Vesicle Mediated Therapy in the Neonatal Ischemic Brain. International Journal of Molecular Sciences, 2022, 23, 620.	1.8	6
2601	A novel approach for enumeration of extracellular vesicles from crude and purified cell culture samples. Engineering in Life Sciences, 2022, 22, 334-343.	2.0	1
2602	Small interfering RNAs based therapies for intracerebral hemorrhage: challenges and progress in drug delivery systems. Neural Regeneration Research, 2022, 17, 1717.	1.6	4
2603	Extracellular Vesicle-Based Hybrid Systems for Advanced Drug Delivery. Pharmaceutics, 2022, 14, 267.	2.0	20
2604	Regenerative medicine and traumatic brain injury: from stem cell to cell-free therapeutic strategies. Regenerative Medicine, 2022, 17, 37-53.	0.8	7
2605	Extracellular Vesicle Delivery of Neferine for the Attenuation of Neurodegenerative Disease Proteins and Motor Deficit in an Alzheimerâ€™s Disease Mouse Model. Pharmaceuticals, 2022, 15, 83.	1.7	19
2606	Targeted Delivery of Exosomes Armed with Anti-Cancer Therapeutics. Membranes, 2022, 12, 85.	1.4	17
2607	Enigmatic role of exosomes in breast cancer progression and therapy. Life Sciences, 2022, 289, 120210.	2.0	16
2608	Therapeutic potential of induced pluripotent stem cellâ€“derived extracellular vesicles. , 2022, , 393-449.		0
2609	Non-classical Notch signaling by MDA-MB-231 breast cancer cell-derived small extracellular vesicles promotes malignancy in poorly invasive MCF-7 cells. Cancer Gene Therapy, 2022, 29, 1056-1069.	2.2	6
2610	Noninvasive Delivery of Biologicals to the Brain. Focus (American Psychiatric Publishing), 2022, 20, 64-70.	0.4	0
2611	The Role of miRNA in Tumor Immune Escape and miRNA-Based Therapeutic Strategies. Frontiers in Immunology, 2021, 12, 807895.	2.2	20
2612	Exosome-mediated delivery of RBP-J decoy oligodeoxynucleotides ameliorates hepatic fibrosis in mice. Theranostics, 2022, 12, 1816-1828.	4.6	18
2613	In sickness and in health: The functional role of extracellular vesicles in physiology and pathology in vivo. Journal of Extracellular Vesicles, 2022, 11, e12190.	5.5	51
2614	Extracellular Vesicles as Biomarkers and Therapeutic Targets in Cancers. Physiology, 0, , .	4.0	1
2615	Overcoming the bloodâ€“brain barrier by using a multistage exosome delivery system to inhibit central nervous system lymphoma. Nanomedicine: Nanotechnology, Biology, and Medicine, 2022, 41, 102523.	1.7	6
2616	Hyper-inflammatory responses in COVID-19 and anti-inflammatory therapeutic approaches. BMB Reports, 2022, 55, 11-19.	1.1	7
2617	Design and Evaluation of Engineered Extracellular Vesicle (EV)-Based Targeting for EGFR-Overexpressing Tumor Cells Using Monobody Display. Bioengineering, 2022, 9, 56.	1.6	12

#	Article	IF	Citations
2619	A targeted extracellular vesicles loaded with montelukast in the treatment of demyelinating diseases. Biochemical and Biophysical Research Communications, 2022, 594, 31-37.	1.0	7
2620	Exosomes and exosome-mimetics as targeted drug carriers: Where we stand and what the future holds?. Journal of Drug Delivery Science and Technology, 2022, 68, 103057.	1.4	3
2621	Association between Tâ€tau protein and AÎ²42 in plasma neuronalâ€derived exosomes and cognitive impairment in patients with permanent atrial fibrillation and the role of anticoagulant therapy and inflammatory mechanisms. Journal of Cardiac Surgery, 2022, 37, 909-918.	0.3	2
2622	Engineered extracellular vesicles directed to the spike protein inhibit SARS-CoV-2. Molecular Therapy - Methods and Clinical Development, 2022, 24, 355-366.	1.8	19
2623	The application of exosomes and Exosome-nanoparticle in treating brain disorders. Journal of Molecular Liquids, 2022, 350, 118549.	2.3	37
2624	Biomedical application of small extracellular vesicles in cancer treatment. Advanced Drug Delivery Reviews, 2022, 182, 114117.	6.6	19
2625	Role of tumour-derived exosomes in metastasis. Biomedicine and Pharmacotherapy, 2022, 147, 112657.	2.5	17
2627	Role of exosomes in the pathogenesis of inflammation in Parkinsonâ€™s disease. Neural Regeneration Research, 2022, 17, 1898.	1.6	32
2628	New paradigms in regenerative engineering: Emerging role of extracellular vesicles paired with instructive biomaterials. Biocell, 2022, 46, 1445-1451.	0.4	4
2629	Extracellular Vesicles in Transplantation. Frontiers in Immunology, 2022, 13, 800018.	2.2	9
2630	Exosomes as Natural Nanocarriers for RNA-Based Therapy and Prophylaxis. Nanomaterials, 2022, 12, 524.	1.9	17
2631	Advances in Mesenchymal Stem Cell-Derived Exosomes as Drug Delivery Vehicles. Frontiers in Bioengineering and Biotechnology, 2021, 9, 797359.	2.0	30
2632	Harnessing the Therapeutic Potential of Extracellular Vesicles for Biomedical Applications Using Multifunctional Magnetic Nanomaterials. Small, 2022, 18, e2104783.	5.2	31
2633	Extracellular vesicles in cancer pros and cons: The importance of the evidence-based medicine. Seminars in Cancer Biology, 2022, 86, 4-12.	4.3	12
2634	Engineering Macrophage Exosome Disguised Biodegradable Nanoplatform for Enhanced Sonodynamic Therapy of Glioblastoma. Advanced Materials, 2022, 34, e2110364.	11.1	131
2635	Current nano-therapeutic approaches ameliorating inflammation in cancer progression. Seminars in Cancer Biology, 2022, 86, 886-908.	4.3	11
2636	A comparative study of the effects of crab derived exosomes and doxorubicin in 2 & 3-dimensional in vivo models of breast cancer. Chemistry and Physics of Lipids, 2022, 243, 105179.	1.5	8
2637	Delivery of mitochondria via extracellular vesicles â€“ A new horizon in drug delivery. Journal of Controlled Release, 2022, 343, 400-407.	4.8	18

#	Article	IF	Citations
2638	Exosomal targeting and its potential clinical application. Drug Delivery and Translational Research, 2022, 12, 2385-2402.	3.0	57
2640	Detection of neuron-derived pathological Î±-synuclein in blood. Brain, 2022, 145, 3058-3071.	3.7	82
2641	Rational design of engineered H-ferritin nanoparticles with improved siRNA delivery efficacy across an in vitro model of the mouse BBB. Nanoscale, 2022, 14, 6449-6464.	2.8	11
2642	siRNA polymer conjugates for the delivery of RNAi therapeutics for the treatment of Parkinsonâ€™s disease. , 2022, , 81-98.		1
2643	The Role of Extracellular Vesicles in Osteoarthritis Treatment Via Microenvironment Regulation. SSRN Electronic Journal, 0, , .	0.4	0
2645	Aptamer-mediated drug delivery system for cardiovascular diseases. , 2022, , 107-127.		0
2646	The Pathogenic Sphingolipid Psychosine is Secreted in Extracellular Vesicles in the Brain of a Mouse Model of Krabbe Disease. ASN Neuro, 2022, 14, 175909142210878.	1.5	7
2647	Nanocarriers Call the Last Shot in the Treatment of Brain Cancers. Technology in Cancer Research and Treatment, 2022, 21, 153303382210809.	0.8	11
2648	Application of engineered extracellular vesicles for targeted tumor therapy. Journal of Biomedical Science, 2022, 29, 14.	2.6	29
2649	Loading of â€cocktail siRNAsâ€•into extracellular vesicles via TAT-DRBD peptide for the treatment of castration-resistant prostate cancer. Cancer Biology and Therapy, 2022, 23, 163-172.	1.5	11
2650	MicroRNA expression profiling of cerebrospinal fluid/serum exosomes in children with human herpesvirus 6-associated encephalitis/encephalopathy by high-throughput sequencing. Journal of NeuroVirology, 2022, 28, 151-157.	1.0	3
2651	Exosomes and Other Extracellular Vesicles with High Therapeutic Potential: Their Applications in Oncology, Neurology, and Dermatology. Molecules, 2022, 27, 1303.	1.7	20
2652	Small extracellular vesicle-mediated ITGB6 siRNA delivery downregulates the Î±VÎ²6 integrin and inhibits adhesion and migration of recipient prostate cancer cells. Cancer Biology and Therapy, 2022, 23, 173-185.	1.5	12
2653	Effective Delivery of siRNA-Loaded Nanoparticles for Overcoming Oxaliplatin Resistance in Colorectal Cancer. Frontiers in Oncology, 2022, 12, 827891.	1.3	2
2654	Splicing factor arginine/serineâ€rich 8 promotes multiple myeloma malignancy and bone lesion through alternative splicing of CACYBP and exosomeâ€based cellular communication. Clinical and Translational Medicine, 2022, 12, e684.	1.7	9
2655	More than a Bubble: Extracellular Vesicle microRNAs in Head and Neck Squamous Cell Carcinoma. Cancers, 2022, 14, 1160.	1.7	13
2656	Harnessing DNA for Immunotherapy: Cancer, Infectious Diseases, and Beyond. Advanced Functional Materials, 2022, 32, .	7.8	10
2657	PET Imaging of Small Extracellular Vesicles via [⁸⁹Zr]Zr(oxinate)₄ Direct Radiolabeling. Bioconjugate Chemistry, 2022, 33, 473-485.	1.8	19

#	Article	IF	Citations
2658	A Dual-Reporter Platform for Screening Tumor-Targeted Extracellular Vesicles. Pharmaceutics, 2022, 14, 475.	2.0	5
2659	Organically derived exosomes as carriers of anticancer drugs and imaging agents for cancer treatment. Seminars in Cancer Biology, 2022, 86, 80-100.	4.3	34
2660	Mesenchymal Stem Cell-Derived Extracellular Vesicles: Immunomodulatory Effects and Potential Applications in Intervertebral Disc Degeneration. Stem Cells International, 2022, 2022, 1-13.	1.2	11
2661	Multivalent Engineering of Exosomes with Activatable Aptamer Probes for Specific Regulation and Monitoring of Cell Targeting. Analytical Chemistry, 2022, 94, 3840-3848.	3.2	11
2662	Platelet-Released Factors: Their Role in Viral Disease and Applications for Extracellular Vesicle (EV) Therapy. International Journal of Molecular Sciences, 2022, 23, 2321.	1.8	3
2663	Engineering strategies for customizing extracellular vesicle uptake in a therapeutic context. Stem Cell Research and Therapy, 2022, 13, 129.	2.4	23
2664	Exosomes as Emerging Drug Delivery and Diagnostic Modality for Breast Cancer: Recent Advances in Isolation and Application. Cancers, 2022, 14, 1435.	1.7	37
2665	Tumourâ€derived extracellular vesicle membrane hybrid lipid nanovesicles enhance siRNA delivery by tumourâ€homing and intracellular freeway transportation. Journal of Extracellular Vesicles, 2022, 11, e12198.	5.5	55
2666	SYNCRIP controls miR-137 and striatal learning in animal models of methamphetamine abstinence. Acta Pharmaceutica Sinica B, 2022, 12, 3281-3297.	5.7	9
2667	Exosome-Mediated Therapeutic Strategies for Management of Solid and Hematological Malignancies. Cells, 2022, 11, 1128.	1.8	7
2668	Exosomes as Carriers for Drug Delivery in Cancer Therapy. Pharmaceutical Research, 2023, 40, 873-887.	1.7	16
2669	Potential Roles of Extracellular Vesicles as Diagnosis Biomarkers and Therapeutic Approaches for Cognitive Impairment in Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2022, , 1-15.	1.2	1
2670	Challenges in the Development of Drug Delivery Systems Based on Small Extracellular Vesicles for Therapy of Brain Diseases. Frontiers in Pharmacology, 2022, 13, 839790.	1.6	19
2671	Functional Extracellular Vesicles for Regenerative Medicine. Small, 2022, 18, e2106569.	5.2	22
2672	Pulmonary and Neurologic Effects of Mesenchymal Stromal Cell Extracellular Vesicles in a Multifactorial Lung Injury Model. American Journal of Respiratory and Critical Care Medicine, 2022, 205, 1186-1201.	2.5	15
2673	Cancer-Derived Extracellular Vesicles: Their Role in Sarcoma. Life, 2022, 12, 481.	1.1	2
2674	Exploration and functionalization of M1-macrophage extracellular vesicles for effective accumulation in glioblastoma and strong synergistic therapeutic effects. Signal Transduction and Targeted Therapy, 2022, 7, 74.	7.1	52
2675	Exosomes in Age-Related Cognitive Decline: Mechanistic Insights and Improving Outcomes. Frontiers in Aging Neuroscience, 2022, 14, 834775.	1.7	4

#	Article	IF	Citations
2676	Exosomal Carboxypeptidase E (CPE) and CPE-shRNA-Loaded Exosomes Regulate Metastatic Phenotype of Tumor Cells. International Journal of Molecular Sciences, 2022, 23, 3113.	1.8	8
2677	Exosome-Shuttled miR-672-5p from Anti-Inflammatory Microglia Repair Traumatic Spinal Cord Injury by Inhibiting AIM2/ASC/Caspase-1 Signaling Pathway Mediated Neuronal Pyroptosis. Journal of Neurotrauma, 2022, 39, 1057-1074.	1.7	29
2678	Milk exosomes in nutrition and drug delivery. American Journal of Physiology - Cell Physiology, 2022, 322, C865-C874.	2.1	17
2679	Strategies for Targeted Delivery of Exosomes to the Brain: Advantages and Challenges. Pharmaceutics, 2022, 14, 672.	2.0	33
2680	L1CAMâ€associated extracellular vesicles: A systematic review of nomenclature, sources, separation, and characterization. , 2022, 1, .		39
2681	Gene Therapy for Neuropsychiatric Disorders: Potential Targets and Tools. CNS and Neurological Disorders - Drug Targets, 2022, 21, .	0.8	2
2683	Neurotechnological Approaches to the Diagnosis and Treatment of Alzheimerâ€™s Disease. Frontiers in Neuroscience, 2022, 16, 854992.	1.4	12
2684	Effect of small extracellular vesicles derived from IL-10-overexpressing mesenchymal stem cells on experimental autoimmune uveitis. Stem Cell Research and Therapy, 2022, 13, 100.	2.4	14
2685	The Role of Plasma Extracellular Vesicles in Remote Ischemic Conditioning and Exercise-Induced Ischemic Tolerance. International Journal of Molecular Sciences, 2022, 23, 3334.	1.8	7
2686	The Relation Between Extracellular Vesicles Released From Red Blood Cells, Their Cargo, and the Clearance by Macrophages. Frontiers in Physiology, 2022, 13, 783260.	1.3	2
2687	Investigating Cancerous Exosomesâ€™ Effects on CD8+ T-Cell IL-2 Production in a 3D Unidirectional Flow Bioreactor Using 3D Printed, RGD-Functionalized PLLA Scaffolds. Journal of Functional Biomaterials, 2022, 13, 30.	1.8	3
2688	Noncoding RNA in Extracellular Vesicles Regulate Differentiation of Mesenchymal Stem Cells. Frontiers in Dental Medicine, 2022, 2, .	0.5	1
2689	Bionanoparticles in cancer imaging, diagnosis, and treatment. View, 2022, 3, .	2.7	40
2690	Utilizing Exosomal-EPHs/Ephrins as Biomarkers and as a Potential Platform for Targeted Delivery of Therapeutic Exosomes. International Journal of Molecular Sciences, 2022, 23, 3551.	1.8	10
2691	Mesenchymal Stem Cell-Derived Extracellular Vesicles in Liver Immunity and Therapy. Frontiers in Immunology, 2022, 13, 833878.	2.2	22
2692	Targeted Drug Delivery to the Central Nervous System Using Extracellular Vesicles. Pharmaceuticals, 2022, 15, 358.	1.7	19
2693	Effects of exosomes on adult hippocampal neurogenesis and neuropsychiatric disorders. Molecular Biology Reports, 2022, 49, 6763-6777.	1.0	6
2694	In situ antigen modification-based target-redirected universal chimeric antigen receptor T (TRUE) Tj ETQq1 1 0.784314 rgBT /Overlock	6.9	9

#	Article	IF	Citations
2695	Recent Advances in the Application of Mesenchymal Stem Cell-Derived Exosomes for Cardiovascular and Neurodegenerative Disease Therapies. Pharmaceutics, 2022, 14, 618.	2.0	18
2696	Selective Xi reactivation and alternative methods to restore MECP2 function in Rett syndrome. Trends in Genetics, 2022, 38, 920-943.	2.9	13
2697	Exosomes as bio-inspired nanocarriers for RNA delivery: preparation and applications. Journal of Translational Medicine, 2022, 20, 125.	1.8	53
2698	Therapeutically harnessing extracellular vesicles. Nature Reviews Drug Discovery, 2022, 21, 379-399.	21.5	263
2699	CD9 and folate receptor overexpression are not sufficient for VSV-G-independent lentiviral transduction. PLoS ONE, 2022, 17, e0264642.	1.1	0
2700	Methods for the identification and characterization of extracellular vesicles in cardiovascular studies: from exosomes to microvesicles. Cardiovascular Research, 2023, 119, 45-63.	1.8	44
2701	Nanoparticle delivery systems for substance use disorder. Neuropsychopharmacology, 2022, , .	2.8	10
2702	Understanding microRNAs in the Context of Infection to Find New Treatments against Human Bacterial Pathogens. Antibiotics, 2022, 11, 356.	1.5	5
2703	Exosomes for Regulation of Immune Responses and Immunotherapy. Journal of Nanotheranostics, 2022, 3, 55-85.	1.7	16
2704	Secreted phospholipase A2 modifies extracellular vesicles and accelerates B cell lymphoma. Cell Metabolism, 2022, 34, 615-633.e8.	7.2	31
2705	Advanced drug delivery system against ischemic stroke. Journal of Controlled Release, 2022, 344, 173-201.	4.8	23
2706	New advances in exosome-based targeted drug delivery systems. Critical Reviews in Oncology/Hematology, 2022, 172, 103628.	2.0	47
2707	Current advances in the use of exosomes, liposomes, and bioengineered hybrid nanovesicles in cancer detection and therapy. Acta Pharmacologica Sinica, 2022, 43, 2759-2776.	2.8	37
2708	Highlighting the Potential Role of Exosomes as the Targeted Nanotherapeutic Carrier in Metastatic Breast Cancer. Current Drug Delivery, 2023, 20, 317-334.	0.8	3
2709	Extracellular Vesicle-Mediated Delivery of Ultrasmall Superparamagnetic Iron Oxide Nanoparticles to Mice Brain. Frontiers in Pharmacology, 2022, 13, 819516.	1.6	10
2710	Encapsulating Cas9 into extracellular vesicles by protein myristoylation. Journal of Extracellular Vesicles, 2022, 11, e12196.	5.5	22
2711	Whatâ€™s Next after Lipid Nanoparticles? A Perspective on Enablers of Nucleic Acid Therapeutics. Bioconjugate Chemistry, 2022, 33, 1996-2007.	1.8	7
2712	Exosomal ncRNAs: Novel therapeutic target and biomarker for diabetic complications. Pharmacological Research, 2022, 178, 106135.	3.1	50

#	Article	IF	Citations
2713	Tiny in size, big in impact: Extracellular vesicles as modulators of mood, anxiety and neurodevelopmental disorders. Neuroscience and Biobehavioral Reviews, 2022, 135, 104582.	2.9	9
2714	Engineered Exosomes as a Photosensitizer Delivery Platform for Cancer Photodynamic Therapy. ChemMedChem, 2022, 17, .	1.6	8
2715	New idea to promote the clinical applications of stem cells or their extracellular vesicles in central nervous system disorders: Combining with intranasal delivery. Acta Pharmaceutica Sinica B, 2022, 12, 3215-3232.	5.7	16
2716	Heme Oxygenase-1 targeting exosomes for temozolomide resistant glioblastoma synergistic therapy. Journal of Controlled Release, 2022, 345, 696-708.	4.8	34
2717	Eliminating the original cargos of glioblastoma cell-derived small extracellular vesicles for efficient drug delivery to glioblastoma with improved biosafety. Bioactive Materials, 2022, 16, 204-217.	8.6	10
2718	GAPDH controls extracellular vesicle biogenesis and enhances the therapeutic potential of EV mediated siRNA delivery to the brain. Nature Communications, 2021, 12, 6666.	5.8	42
2719	Extracellular Vesicles as Intercellular Communication Vehicles in Regenerative Medicine. Physiology, 0, , .	4.0	0
2720	The Role of Mesenchymal Stromal Cells-Derived Small Extracellular Vesicles in Diabetes and Its Chronic Complications. Frontiers in Endocrinology, 2021, 12, 780974.	1.5	12
2722	Red Blood Cell Extracellular Vesicle-Based Drug Delivery: Challenges and Opportunities. Frontiers in Medicine, 2021, 8, 761362.	1.2	28
2723	Biodistribution of Biomimetic Drug Carriers, Mononuclear Cells, and Extracellular Vesicles, in Nonhuman Primates. Advanced Biology, 2022, 6, e2101293.	1.4	7
2724	Diagnostic Impact of Radiological Findings and Extracellular Vesicles: Are We Close to Radiovesicolomics?. Biology, 2021, 10, 1265.	1.3	3
2725	Strategies for Engineering Exosomes and Their Applications in Drug Delivery. Journal of Biomedical Nanotechnology, 2021, 17, 2271-2297.	0.5	12
2726	Exploration of the Effect on Genome-Wide DNA Methylation by miR-143 Knock-Out in Mice Liver. International Journal of Molecular Sciences, 2021, 22, 13075.	1.8	5
2727	Stem Cell-based Therapeutic and Diagnostic Approaches in Alzheimer's Disease. Current Neuropharmacology, 2022, 20, 1093-1115.	1.4	8
2728	Cell-derived extracellular matrix enhanced by collagen-binding domain-decorated exosomes to promote neural stem cells neurogenesis. Biomedical Materials (Bristol), 2022, 17, 014104.	1.7	4
2729	A systematic review on the modifications of extracellular vesicles: a revolutionized tool of nano-biotechnology. Journal of Nanobiotechnology, 2021, 19, 459.	4.2	26
2730	Optimised Electroporation for Loading of Extracellular Vesicles with Doxorubicin. Pharmaceutics, 2022, 14, 38.	2.0	39
2731	The Extracellular Matrix Enriched With Exosomes for the Treatment on Pulmonary Fibrosis in Mice. Frontiers in Pharmacology, 2021, 12, 747223.	1.6	10

#	Article	IF	Citations
2732	Challenges for the Development of Extracellular Vesicle-Based Nucleic Acid Medicines. Cancers, 2021, 13, 6137.	1.7	11
2733	Engineered Cellâ€Derived Vesicles Displaying Targeting Peptide and Functionalized with Nanocarriers for Therapeutic microRNA Delivery to Tripleâ€Negative Breast Cancer in Mice. Advanced Healthcare Materials, 2022, 11, e2101387.	3.9	8
2734	Therapeutic applications of exosomes in various diseases: A review. Materials Science and Engineering C, 2022, 134, 112579.	3.8	11
2735	The Study of Cerebrospinal Fluid microRNAs in Spinal Cord Injury and Neurodegenerative Diseases: Methodological Problems and Possible Solutions. International Journal of Molecular Sciences, 2022, 23, 114.	1.8	6
2736	Anti-Cancer Role and Therapeutic Potential of Extracellular Vesicles. Cancers, 2021, 13, 6303.	1.7	4
2737	Virus Mimetic Poly (I:C)-Primed Airway Exosome-like Particles Enter Brain and Induce Inflammatory Cytokines and Mitochondrial Reactive Oxygen Species in Microglia. Biology, 2021, 10, 1359.	1.3	3
2738	Drug Delivery Systems and Strategies to Overcome the Barriers of Brain. Current Pharmaceutical Design, 2022, 28, 619-641.	0.9	6
2740	Pathogenic Extracellular Vesicle (EV) Signaling in Amyotrophic Lateral Sclerosis (ALS). Neurotherapeutics, 2022, 19, 1119-1132.	2.1	12
2741	Engineered Exosomes with Independent Module/Cascading Function for Therapy of Parkinson's Disease by Multistep Targeting and Multistage Intervention Method. Advanced Materials, 2022, 34, e2201406.	11.1	28
2742	Stem Cellâ€based therapies for COVIDâ€19â€related acute respiratory distress syndrome. Journal of Cellular and Molecular Medicine, 2022, , .	1.6	1
2743	Engineered extracellular vesicles for bone therapy. Nano Today, 2022, 44, 101487.	6.2	32
2766	Extracellular Vesicle Loading Via pH-Gradient Modification. Methods in Molecular Biology, 2022, 2504, 231-239.	0.4	1
2767	Surface Modification of Lipid-Based Nanoparticles. ACS Nano, 2022, 16, 7168-7196.	7.3	49
2768	Role of exosomes and its emerging therapeutic applications in the pathophysiology of non-infectious diseases. Biomarkers, 2022, 27, 534-548.	0.9	12
2770	Hyper-inflammatory responses in COVID-19 and anti-inflammatory therapeutic approaches.. BMB Reports, 2021, , .	1.1	0
2771	New therapeutic approach with extracellular vesicles from stem cells for intestinal cystitis/bladder pain syndrome.. BMB Reports, 2022, , .	1.1	0
2772	Decoding the functional role of extracellular vesicles in hepatocellular carcinoma: implications in clinical theranostics. , 2022, , 301-339.		0
2773	Construction of Yeast Display Libraries for Selection of Antigen-Binding Variants of Large Extracellular Loop of CD81, a Major Surface Marker Protein of Extracellular Vesicles. Methods in Molecular Biology, 2022, 2491, 561-592.	0.4	0

#	Article	IF	Citations
2774	Chimeric Antigen Receptor (CAR) T Cell Therapy for Glioblastoma. Cancer Treatment and Research, 2022, 183, 161-184.	0.2	2
2775	Roles of Extracellular Vesicles in Cancer Metastasis. Physiology, 0, , .	4.0	0
2776	Clinical advances of RNA therapeutics for treatment of neurological and neuromuscular diseases. RNA Biology, 2022, 19, 594-608.	1.5	23
2777	The Expression of Tax and HBZ Genes in Serum-Derived Extracellular Vesicles From HTLV-1 Carriers Correlates to Proviral Load and Inflammatory Markers. Frontiers in Microbiology, 2022, 13, 881634.	1.5	3
2778	A new paradigm for diagnosis of neurodegenerative diseases: peripheral exosomes of brain origin. Translational Neurodegeneration, 2022, 11, 28.	3.6	37
2779	Targeted Delivery Platforms for the Treatment of Multiple Sclerosis. Molecular Pharmaceutics, 2022, 19, 1952-1976.	2.3	5
2780	The Peripheral Circulating Exosomal microRNAs Related to Central Inflammation in Chronic Heart Failure. Journal of Cardiovascular Translational Research, 2022, 15, 500-513.	1.1	11
2781	Hypothalamic AMPK as a possible target for energy balance-related diseases. Trends in Pharmacological Sciences, 2022, 43, 546-556.	4.0	25
2782	Recent progress on microfluidic devices with incorporated 1D nanostructures for enhanced extracellular vesicle (EV) separation. Bio-Design and Manufacturing, 2022, 5, 607-616.	3.9	5
2783	Current Understanding of Extracellular Vesicle Homing/Tropism. Zoonoses, 2022, 2, .	0.5	11
2784	Intercellular delivery of therapeutic oligonucleotides. Journal of Drug Delivery Science and Technology, 2022, , 103404.	1.4	0
2785	Conventional and Nonconventional Sources of Exosomesâ€“Isolation Methods and Influence on Their Downstream Biomedical Application. Frontiers in Molecular Biosciences, 2022, 9, 846650.	1.6	19
2786	Synchronous Disintegration of Ferroptosis Defense Axis via Engineered Exosomeâ€Conjugated Magnetic Nanoparticles for Glioblastoma Therapy. Advanced Science, 2022, 9, e2105451.	5.6	50
2787	Customizing the extracellular vesicles release and effect by strategizing surface functionalization of titanium. Scientific Reports, 2022, 12, 7399.	1.6	1
2788	Current Knowledge on Exosome Biogenesis, Cargo-Sorting Mechanism and Therapeutic Implications. Membranes, 2022, 12, 498.	1.4	62
2789	The Progress and Promise of RNA Medicineâ€€An Arsenal of Targeted Treatments. Journal of Medicinal Chemistry, 2022, 65, 6975-7015.	2.9	42
2790	Extracellular vesicles: Emerging tools as therapeutic agent carriers. Acta Pharmaceutica Sinica B, 2022, 12, 3822-3842.	5.7	33
2791	Unpacking the Role of Extracellular Vesicles in Ischemic and Hemorrhagic Stroke: Pathophysiology and Therapeutic Implications. Translational Stroke Research, 2023, 14, 146-159.	2.3	5

#	Article	IF	Citations
2792	Effects of BMSC-Derived EVs on Bone Metabolism. Pharmaceutics, 2022, 14, 1012.	2.0	27
2793	Trends and Hotspots in Nanoparticles for the Targeted Delivery of Nucleic Acids: A Ten-Year Bibliometric Study. Frontiers in Pharmacology, 2022, 13, .	1.6	6
2794	Differential expression profile of plasma exosomal microRNAs in chronic rhinosinusitis with nasal polyps. Experimental Biology and Medicine, 2022, 247, 1039-1046.	1.1	3
2795	Engineering Extracellular Microenvironment for Tissue Regeneration. Bioengineering, 2022, 9, 202.	1.6	10
2796	A targeted <scp>siRNA</scp>â€loaded <scp>PDL1</scp>â€exosome and functional evaluation against lung cancer. Thoracic Cancer, 2022, 13, 1691-1702.	0.8	8
2797	Small Extracellular Vesicles in Milk Cross the Blood-Brain Barrier in Murine Cerebral Cortex Endothelial Cells and Promote Dendritic Complexity in the Hippocampus and Brain Function in C57BL/6J Mice. Frontiers in Nutrition, 2022, 9, .	1.6	16
2798	Exosome-mediated aptamer S58 reduces fibrosis in a rat glaucoma filtration surgery model. International Journal of Ophthalmology, 2022, 15, 690-700.	0.5	6
2799	Exosomes: Insights and therapeutic applications in cancer. Translational Oncology, 2022, 21, 101439.	1.7	12
2800	Plasma-Enabled Smart Nanoexosome Platform as Emerging Immunopathogenesis for Clinical Viral Infection. Pharmaceutics, 2022, 14, 1054.	2.0	16
2801	Exosome-based drug delivery systems in cancer therapy. Chinese Chemical Letters, 2023, 34, 107508.	4.8	11
2802	VH298-loaded extracellular vesicles released from gelatin methacryloyl hydrogel facilitate diabetic wound healing by HIF-1Î±-mediated enhancement of angiogenesis. Acta Biomaterialia, 2022, 147, 342-355.	4.1	88
2803	Exosome engineering for efficient and targeted drug delivery: Current status and future perspective. Journal of Physiology, 2023, 601, 4853-4872.	1.3	19
2804	The Strategies and Mechanisms of Immune Checkpoint Inhibitors for Brain Metastases in NSCLC. Frontiers in Pharmacology, 2022, 13, .	1.6	3
2805	Single Extracellular Vesicle Analysis Using Flow Cytometry for Neurological Disorder Biomarkers. Frontiers in Integrative Neuroscience, 2022, 16, .	1.0	5
2806	Insights into the Critical Role of Exosomes in the Brain; from Neuronal Activity to Therapeutic Effects. Molecular Neurobiology, 2022, 59, 4453-4465.	1.9	4
2807	Chemical Approaches to Synthetic Drug Delivery Systems for Systemic Applications. Angewandte Chemie - International Edition, 2022, 61, .	7.2	30
2808	Chemische AnsÃtze fÃ¼r synthetische Wirkstofftransportsysteme fÃ¼r systemische Anwendungen. Angewandte Chemie, 2022, 134, .	1.6	3
2809	The role of extracellular vesicles in endometrial receptivity and their potential in reproductive therapeutics and diagnosis. Reproductive Biology, 2022, 22, 100645.	0.9	9

#	Article	IF	Citations
2810	Functionalized Macrophage Exosomes with Panobinostat and PPM1Dâ€siRNA for Diffuse Intrinsic Pontine Gliomas Therapy. Advanced Science, 2022, 9, e2200353.	5.6	29
2811	Exogenous loading of extracellular vesicles, virus-like particles, and lentiviral vectors with supercharged proteins. Communications Biology, 2022, 5, 485.	2.0	9
2812	Brain Delivery of Therapeutics via Transcytosis: Types and Mechanisms of Vesicle-Mediated Transport Across the BBB. AAPS Advances in the Pharmaceutical Sciences Series, 2022, , 71-91.	0.2	4
2813	Extracellular Vesicles for Nerve Regeneration. Reference Series in Biomedical Engineering, 2022, , 415-435.	0.1	0
2814	Engineered extracellular vesicles as intelligent nanosystems for next-generation nanomedicine. Nanoscale Horizons, 2022, 7, 682-714.	4.1	37
2815	Exosome: The â€œOff-the-Shelfâ€•Cellular Nanocomponent as a Potential Pathogenic Agent, a Disease Biomarker, and Neurotherapeutics. Frontiers in Pharmacology, 2022, 13, .	1.6	4
2816	Engineered BMSCs-Derived Exosomal miR-542-3p Promotes Cutaneous Wound Healing. Endocrine, Metabolic and Immune Disorders - Drug Targets, 2023, 23, 336-346.	0.6	5
2818	Î±vÎ²3-targeted sEVs for efficient intracellular delivery of proteins using MFG-E8. BMC Biotechnology, 2022, 22, .	1.7	3
2819	Extracellular vesicles: from bench to bedside. , 2022, 1, .		3
2820	Bioengineering exosomes for treatment of organ ischemia-reperfusion injury. Life Sciences, 2022, 302, 120654.	2.0	3
2821	New therapeutic approach with extracellular vesicles from stem cells for interstitial cystitis/bladder pain syndrome. BMB Reports, 2022, 55, 205-212.	1.1	3
2822	Circulating extracellular vesicles and tumor cells: sticky partners in metastasis. Trends in Cancer, 2022, 8, 799-805.	3.8	16
2823	Living Cell Nanoporation and Exosomal RNA Analysis Platform for Real-Time Assessment of Cellular Therapies. Journal of the American Chemical Society, 2022, 144, 9443-9450.	6.6	9
2824	Dysregulation of a Heme Oxygenaseâ€“Synuclein Axis in Parkinson Disease. NeuroSci, 2022, 3, 284-299.	0.4	2
2825	Huntingtin Co-Isolates with Small Extracellular Vesicles from Blood Plasma of TgHD and KI-HD Pig Models of Huntingtonâ€™s Disease and Human Blood Plasma. International Journal of Molecular Sciences, 2022, 23, 5598.	1.8	15
2826	Roles and Applications of Red Blood Cell-Derived Extracellular Vesicles in Health and Diseases. International Journal of Molecular Sciences, 2022, 23, 5927.	1.8	7
2827	Parkinson's Disease Derived Exosomes Aggravate Neuropathology in <scp>SNCA</scp>*<scp>A53T</scp> Mice. Annals of Neurology, 2022, 92, 230-245.	2.8	19
2828	Quantitative Biodistribution and Pharmacokinetics Study of GMP-Grade Exosomes Labeled with 89Zr Radioisotope in Mice and Rats. Pharmaceutics, 2022, 14, 1118.	2.0	15

#	Article	IF	Citations
2829	The in vivo fate and targeting engineering of crossover vesicle-based gene delivery system. Advanced Drug Delivery Reviews, 2022, 187, 114324.	6.6	30
2830	A Prosperous Application of Hydrogels With Extracellular Vesicles Release for Traumatic Brain Injury. Frontiers in Neurology, 2022, 13, .	1.1	8
2831	Turning adversity into opportunity: Small extracellular vesicles as nanocarriers for tumorâ€associated macrophages reâ€education. Bioengineering and Translational Medicine, 2023, 8, .	3.9	3
2832	Unconventional Secretion of Plant Extracellular Vesicles and Their Benefits to Human Health: A Mini Review. Frontiers in Cell and Developmental Biology, 2022, 10, .	1.8	6
2834	Exosome secretion from hypoxic cancer cells reshapes the tumor microenvironment and mediates drug resistance. Cancer Drug Resistance (Alhambra, Calif), 2022, 5, 577-94.	0.9	7
2835	Exosome-based drug delivery systems and their therapeutic applications. RSC Advances, 2022, 12, 18475-18492.	1.7	33
2836	Applications of Extracellular Vesicles in Abdominal Aortic Aneurysm. Frontiers in Cardiovascular Medicine, 0, 9, .	1.1	5
2837	Recent advances in exosome-mediated nucleic acid delivery for cancer therapy. Journal of Nanobiotechnology, 2022, 20, .	4.2	98
2838	Extracellular vesicles in cancer therapy. Seminars in Cancer Biology, 2022, 86, 296-309.	4.3	23
2839	Research Progress in Exosome-Based Nanoscale Drug Carriers in Tumor Therapies. Frontiers in Oncology, 0, 12, .	1.3	9
2840	Extracellular Vesicles for the Treatment of Preeclampsia. Tissue and Cell, 2022, , 101860.	1.0	0
2841	Next-Generation Anti-Angiogenic Therapies as a Future Prospect for Glioma Immunotherapy; From Bench to Bedside. Frontiers in Immunology, 0, 13, .	2.2	6
2842	Engineered exosomes for targeted delivery of miR-187-3p suppress the viability of hemangioma stem cells by targeting Notch signaling. Annals of Translational Medicine, 2022, 10, 621-621.	0.7	1
2843	Glioma extracellular vesicles for precision medicine: prognostic and theragnostic application. Discover Oncology, 2022, 13, .	0.8	9
2844	A Historical Review of Brain Drug Delivery. Pharmaceutics, 2022, 14, 1283.	2.0	65
2845	Exosomes Therapy in Zoonoses. , 0, , .		0
2846	Therapeutic nanotechnologies for Alzheimerâ€™s disease: A critical analysis of recent trends and findings. Advanced Drug Delivery Reviews, 2022, 187, 114397.	6.6	11
2847	Size Separation of Exosomes and Microvesicles Using Flow Field-Flow Fractionation/Multiangle Light Scattering and Lipidomic Comparison. Analytical Chemistry, 2022, 94, 8958-8965.	3.2	20

#	Article	IF	Citations
2848	Hepatitis E virus infects brain microvascular endothelial cells, crosses the bloodâ€“brain barrier, and invades the central nervous system. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	15
2849	Different Sourced Extracellular Vesicles and Their Potential Applications in Clinical Treatments. Cells, 2022, 11, 1989.	1.8	25
2850	MicroRNA-124-3p-enriched small extracellular vesicles as a therapeutic approach for Parkinsonâ€™s disease. Molecular Therapy, 2022, 30, 3176-3192.	3.7	27
2851	Eliciting anti-cancer immunity by genetically engineered multifunctional exosomes. Molecular Therapy, 2022, 30, 3066-3077.	3.7	19
2852	Applications of Various Types of Nanomaterials for the Treatment of Neurological Disorders. Nanomaterials, 2022, 12, 2140.	1.9	33
2853	Biological Features of Extracellular Vesicles and Challenges. Frontiers in Cell and Developmental Biology, 0, 10, .	1.8	34
2854	The Therapeutic Role of ADSC-EVs in Skin Regeneration. Frontiers in Medicine, 0, 9, .	1.2	9
2855	Recent progresses in exosome-based systems for targeted drug delivery to the brain. Journal of Controlled Release, 2022, 348, 723-744.	4.8	45
2856	Extracellular vesicle-based macromolecule delivery systems in cancer immunotherapy. Journal of Controlled Release, 2022, 348, 572-589.	4.8	10
2857	Advanced Nanotechnology Approaches as Emerging Tools in Cellular-Based Technologies. Advances in Experimental Medicine and Biology, 2022, , .	0.8	0
2859	Chondrocyte-specific genomic editing enabled by hybrid exosomes for osteoarthritis treatment. Theranostics, 2022, 12, 4866-4878.	4.6	64
2860	Recent advances in microfluidic-based electroporation techniques for cell membranes. Lab on A Chip, 2022, 22, 2624-2646.	3.1	9
2861	Construction of Exosomes that Overexpress CD47 and Evaluation of Their Immune Escape. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	6
2862	RNAi-Based Therapeutics and Novel RNA Bioengineering Technologies. Journal of Pharmacology and Experimental Therapeutics, 2023, 384, 133-154.	1.3	52
2863	Benefits and limitations of nanomedicine treatment of brain cancers and age-dependent neurodegenerative disorders. Seminars in Cancer Biology, 2022, 86, 805-833.	4.3	15
2864	The Role of Exosomes as Mediators of Neuroinflammation in the Pathogenesis and Treatment of Alzheimerâ€™s Disease. Frontiers in Aging Neuroscience, 0, 14, .	1.7	12
2865	Novel L-RNA Aptamer Controls APP Gene Expression in Cells by Targeting RNA G-Quadruplex Structure. ACS Applied Materials & Interfaces, 2022, 14, 30582-30594.	4.0	7
2866	Mesenchymal Stem Cell Exosomes as Nanotherapeutic Agents for Neurodegenerative Diseases. , 0, 2, 7-14.		0

#	Article	IF	Citations
2867	Nonâ€Invasive imaging of extracellular vesicles: Quo vaditis in vivo?. Journal of Extracellular Vesicles, 2022, 11, .	5.5	15
2868	Nanomaterial-Based Drug Delivery System Targeting Lymph Nodes. Pharmaceutics, 2022, 14, 1372.	2.0	14
2869	The etiological roles of <scp>miRNAs</scp>, <scp>lncRNAs</scp>, and <scp>circRNAs</scp> in neuropathic pain: A narrative review. Journal of Clinical Laboratory Analysis, 2022, 36, .	0.9	12
2870	Extracellular vesicles for improved tumor accumulation and penetration. Advanced Drug Delivery Reviews, 2022, 188, 114450.	6.6	26
2871	Emerging role of exosomes in hematological malignancies. Clinical and Experimental Medicine, 2023, 23, 1123-1136.	1.9	3
2872	Extracellular vesicles and lipoproteins â€“ Smart messengers of blood cells in the circulation. , 2022, 1, .		6
2873	Engineered exosomes for studies in tumor immunology. Immunological Reviews, 2022, 312, 76-102.	2.8	18
2874	Exosomes in Alpha-Synucleinopathies: Propagators of Pathology or Potential Candidates for Nanotherapeutics?. Biomolecules, 2022, 12, 957.	1.8	8
2875	Lactobacillus plantarum-derived extracellular vesicles protect against ischemic brain injury via the microRNA-101a-3p/c-Fos/TGF-Î² axis. Pharmacological Research, 2022, 182, 106332.	3.1	16
2876	Engineered extracellular vesicles: Regulating the crosstalk between the skeleton and immune system. Engineered Regeneration, 2022, 3, 270-282.	3.0	5
2877	Current understanding of MSC-derived exosomes in the management of knee osteoarthritis. Experimental Cell Research, 2022, 418, 113274.	1.2	13
2878	Extracellular vesicles for renal therapeutics: State of the art and future perspective. Journal of Controlled Release, 2022, 349, 32-50.	4.8	20
2879	Extracellular vesicles in Alzheimerâ€™s disease: from pathology to therapeutic approaches. Neural Regeneration Research, 2023, 18, 18.	1.6	11
2880	Knowledge Mapping of Exosomes in Autoimmune Diseases: A Bibliometric Analysis (2002â€“2021). Frontiers in Immunology, 0, 13, .	2.2	29
2881	Scale-out production of extracellular vesicles derived from natural killer cells via mechanical stimulation in a seesaw-motion bioreactor for cancer therapy. Biofabrication, 2022, 14, 045004.	3.7	13
2882	Delivering the Promise of Gene Therapy with Nanomedicines in Treating Central Nervous System Diseases. Advanced Science, 2022, 9, .	5.6	19
2883	Exosome- and extracellular vesicle-based approaches for the treatment of lysosomal storage disorders. Advanced Drug Delivery Reviews, 2022, 188, 114465.	6.6	17
2884	Mesenchymal Stem Cell-Derived Extracellular Vesicles for Bone Defect Repair. Membranes, 2022, 12, 716.	1.4	12

#	Article	IF	Citations
2885	Organelles: Structure and Function â€“ Extracellular Vesicles. , 2022, , .		0
2886	Tailored Extracellular Vesicles: Novel Tool for Tissue Regeneration. Stem Cells International, 2022, 2022, 1-27.	1.2	3
2887	Nanoparticles-Based Strategies to Improve the Delivery of Therapeutic Small Interfering RNA in Precision Oncology. Pharmaceutics, 2022, 14, 1586.	2.0	12
2888	New Approaches for Enhancement of the Efficacy of Mesenchymal Stem Cell-Derived Exosomes in Cardiovascular Diseases. Tissue Engineering and Regenerative Medicine, 2022, 19, 1129-1146.	1.6	18
2889	Advances in the Therapeutic Effects of Apoptotic Bodies on Systemic Diseases. International Journal of Molecular Sciences, 2022, 23, 8202.	1.8	10
2890	A Novel Perspective on Ischemic Stroke: A Review of Exosome and Noncoding RNA Studies. Brain Sciences, 2022, 12, 1000.	1.1	2
2891	Suppression of inflammatory responses in macrophages by onion-derived extracellular vesicles. Journal of Industrial and Engineering Chemistry, 2022, 115, 287-297.	2.9	8
2892	Research progress in membrane fusion-based hybrid exosomes for drug delivery systems. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	14
2893	Mesenchymal Stem Cell Derived Exosomes as Nanodrug Carrier of Doxorubicin for Targeted Osteosarcoma Therapy via SDF1-CXCR4 Axis. International Journal of Nanomedicine, 0, Volume 17, 3483-3495.	3.3	30
2894	iRGD-modified exosomes-delivered BCL6 siRNA inhibit the progression of diffuse large B-cell lymphoma. Frontiers in Oncology, 0, 12, .	1.3	10
2895	Advancement in exosome-based cancer therapeutics: A new era in cancer treatment. Frontiers in Nanotechnology, 0, 4, .	2.4	2
2896	Plant Exosomal Vesicles: Perspective Information Nanocarriers in Biomedicine. Applied Sciences (Switzerland), 2022, 12, 8262.	1.3	13
2897	The exosome: a review of current therapeutic roles and capabilities in human reproduction. Drug Delivery and Translational Research, 2023, 13, 473-502.	3.0	15
2898	Extracellular vesicles and Alzheimerâ€™s disease in the novel era of Precision Medicine: implications for disease progression, diagnosis and treatment. Experimental Neurology, 2022, 358, 114183.	2.0	10
2899	Intraocular RGD-Engineered Exosomes and Active Targeting of Choroidal Neovascularization (CNV). Cells, 2022, 11, 2573.	1.8	12
2900	Translating extracellular vesicle packaging into therapeutic applications. Frontiers in Immunology, 0, 13, .	2.2	21
2901	Specific antiâ€glioma targetedâ€delivery strategy of engineered small extracellular vesicles dualâ€functionalised by Angiopepâ€2 and TAT peptides. Journal of Extracellular Vesicles, 2022, 11, .	5.5	43
2902	A model system for antiviral siRNA therapeutics using exosome-based delivery. Molecular Therapy - Nucleic Acids, 2022, 29, 691-704.	2.3	5

#	Article	IF	Citations
2903	Investigations on Cellular Uptake Mechanisms and Immunogenicity Profile of Novel Bio-Hybrid Nanovesicles. Pharmaceutics, 2022, 14, 1738.	2.0	9
2904	Lung-Based, Exosome Inhibition Mediates Systemic Impacts Following Particulate Matter Exposure. Toxics, 2022, 10, 457.	1.6	4
2905	Insights on prospects of nano-siRNA based approaches in treatment of Cancer. Frontiers in Pharmacology, 0, 13, .	1.6	4
2906	Exosomes: Biogenesis, targeting, characterization and their potential as "Plug & Play" vaccine platforms. Biotechnology Journal, 2022, 17, .	1.8	8
2907	Extracellular vesicles: emerging anti-cancer drugs and advanced functionalization platforms for cancer therapy. Drug Delivery, 2022, 29, 2513-2538.	2.5	27
2908	Roles of exosomes as drug delivery systems in cancer immunotherapy: a mini-review. Discover Oncology, 2022, 13, .	0.8	13
2909	Role of exosomes in tumour growth, chemoresistance and immunity: state-of-the-art. Journal of Drug Targeting, 2023, 31, 32-50.	2.1	14
2910	Advances in extracellular vesicle functionalization strategies for tissue regeneration. Bioactive Materials, 2023, 25, 500-526.	8.6	17
2911	Therapeutic exosomes loaded with SERPINA5 attenuated endometrial cancer cell migration via the integrin Î²1/FAK signaling pathway. Cellular Oncology (Dordrecht), 2022, 45, 861-872.	2.1	3
2912	Genetically Engineered MRI-Trackable Extracellular Vesicles as SARS-CoV-2 Mimetics for Mapping ACE2 Binding In Vivo. ACS Nano, 2022, 16, 12276-12289.	7.3	6
2913	Formulation Strategies to Enable Delivery of Therapeutic Peptides across Cell Membranes. ACS Symposium Series, 0, , 223-254.	0.5	0
2914	Biomarker and therapeutic potential of peripheral extracellular vesicles in Alzheimerâ€™s disease. Advanced Drug Delivery Reviews, 2022, 190, 114486.	6.6	14
2915	Practical Considerations for Translating Mesenchymal Stromal Cell-Derived Extracellular Vesicles from Bench to Bed. Pharmaceutics, 2022, 14, 1684.	2.0	10
2916	Interleukin-4 Receptor Targeting Peptide Decorated Extracellular Vesicles as a Platform for In Vivo Drug Delivery to Thyroid Cancer. Biomedicines, 2022, 10, 1978.	1.4	7
2917	Engineered extracellular vesicles and their mimetics for cancer immunotherapy. Journal of Controlled Release, 2022, 349, 679-698.	4.8	74
2918	Multivalent ACE2 engineeringâ€”A promising pathway for advanced coronavirus nanomedicine development. Nano Today, 2022, 46, 101580.	6.2	7
2919	Genetically engineered exosomes for targetedly preventing premetastatic niche formation and suppressing postoperative melanoma lung metastasis. Nano Today, 2022, 46, 101597.	6.2	6
2920	Engineered bacterial extracellular vesicles for osteoporosis therapy. Chemical Engineering Journal, 2022, 450, 138309.	6.6	22

#	Article	IF	Citations
2921	Small extracellular vesicles secreted by induced pluripotent stem cell-derived mesenchymal stem cells improve postoperative cognitive dysfunction in mice with diabetes. Neural Regeneration Research, 2023, 18, 609.	1.6	10
2922	Urinary Exosomes: A Promising Biomarker for Disease Diagnosis. Laboratory Medicine, 2023, 54, 115-125.	0.8	5
2923	Multifunctional Therapeutic Cyclodextrin-Appended Dendrimer Complex for Treatment of Systemic and Localized Amyloidosis. ACS Applied Materials & Interfaces, 2022, 14, 40599-40611.	4.0	2
2924	Strategies for persistent retention of macromolecules and nanoparticles in the blood circulation. Journal of Controlled Release, 2022, 350, 486-493.	4.8	18
2925	Plant-derived extracellular vesicles as oral drug delivery carriers. Journal of Controlled Release, 2022, 350, 389-400.	4.8	22
2926	Noncoding RNAs in cataract formation: Star molecules emerge in an endless stream. Pharmacological Research, 2022, 184, 106417.	3.1	6
2927	Black phosphorus biomaterials for photo-controlled bone tissue engineering. Composites Part B: Engineering, 2022, 246, 110245.	5.9	8
2928	Medical Use of mRNA-Based Directed Gene Delivery. RNA Technologies, 2022, , 93-112.	0.2	0
2929	Exosomes: a novel vesicular drug delivery platform. , 2022, , 147-154.		0
2930	Nanovesicles for the delivery of siRNA. , 2022, , 457-466.		0
2931	Multiplexed strategies toward clinical translation of extracellular vesicles. Theranostics, 2022, 12, 6740-6761.	4.6	12
2932	Engineered extracellular vesicles with high collagen-binding affinity present superior in situ retention and therapeutic efficacy in tissue repair. Theranostics, 2022, 12, 6021-6037.	4.6	14
2933	High-efficiency brain-targeted intranasal delivery of BDNF mediated by engineered exosomes to promote remyelination. Biomaterials Science, 2022, 10, 5707-5718.	2.6	15
2934	Exosomes. , 2023, , 89-100.		1
2935	Hybrid Biomimetic Nanovesicles to Drive High Lung Biodistribution and Prevent Cytokine Storm for ARDS Treatment. ACS Nano, 2022, 16, 15124-15140.	7.3	13
2936	Cellular nanovesicles for therapeutic immunomodulation: A perspective on engineering strategies and new advances. Acta Pharmaceutica Sinica B, 2023, 13, 1789-1827.	5.7	14
2937	Application of aptamers in regenerative medicine. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	4
2938	Exosomes: A novel insight into traditional Chinese medicine. Frontiers in Pharmacology, 0, 13, .	1.6	4

#	Article	IF	Citations
2939	Directing the Wayâ€"Receptor and Chemical Targeting Strategies for Nucleic Acid Delivery. Pharmaceutical Research, 2023, 40, 47-76.	1.7	10
2940	Nanotechnology-based cell-mediated delivery systems for cancer therapy and diagnosis. Drug Delivery and Translational Research, 2023, 13, 189-221.	3.0	7
2941	Exosome application in treatment and diagnosis of B-cell disorders: leukemias, multiple sclerosis, and arthritis rheumatoid. Cellular and Molecular Biology Letters, 2022, 27, .	2.7	15
2942	Emerging roles of extracellular vesicles in normal and malignant hematopoiesis. Journal of Clinical Investigation, 2022, 132, .	3.9	5
2943	Targeting Capabilities of Native and Bioengineered Extracellular Vesicles for Drug Delivery. Bioengineering, 2022, 9, 496.	1.6	10
2944	Rapid Isolation of Extracellular Vesicles Using a Hydrophilic Porous Silica Gel-Based Size-Exclusion Chromatography Column. Analytical Chemistry, 2022, 94, 13676-13681.	3.2	3
2945	Update on Extracellular Vesicle-Based Vaccines and Therapeutics to Combat COVID-19. International Journal of Molecular Sciences, 2022, 23, 11247.	1.8	7
2946	Extracellular vesicle therapy for traumatic central nervous system disorders. Stem Cell Research and Therapy, 2022, 13, .	2.4	6
2947	Decoy Exosomes Offer Protection Against Chemotherapyâ€Induced Toxicity. Advanced Science, 2022, 9, .	5.6	12
2948	Targeted delivery of triptolide by dendritic cellâ€derived exosomes for colitis and rheumatoid arthritis therapy in murine models. British Journal of Pharmacology, 2023, 180, 330-346.	2.7	10
2949	Specially Resolved Single Living Cell Perfusion and Targeted Fluorescence Labeling Based on Nanopipettes. Analytical Chemistry, 2022, 94, 13860-13868.	3.2	7
2950	Exosomes and Biomaterials: In Search of a New Therapeutic Strategy for Multiple Sclerosis. Life, 2022, 12, 1417.	1.1	5
2951	Extracellular vesicles and particles impact the systemic landscape of cancer. EMBO Journal, 2022, 41, .	3.5	32
2952	Exosomes form tunneling nanotubes (TUNTs) in the blood-brain barrier: a nano-anatomical perspective of barrier genesis. Frontiers in Molecular Neuroscience, 0, 15, .	1.4	4
2953	Innate immune activation: Parallels in alcohol use disorder and Alzheimerâ€™s disease. Frontiers in Molecular Neuroscience, 0, 15, .	1.4	8
2954	Mesenchymal stem cell-derived exosomes in cancer therapy resistance: recent advances and therapeutic potential. Molecular Cancer, 2022, 21, .	7.9	58
2955	A novel surface functionalization platform to prime extracellular vesicles for targeted therapy and diagnostic imaging. Nanomedicine: Nanotechnology, Biology, and Medicine, 2023, 47, 102607.	1.7	3
2956	Preventing SARS-CoV-2 Infection Using Anti-spike Nanobody-IFN-Î² Conjugated Exosomes. Pharmaceutical Research, 0, , .	1.7	2

#	Article	IF	Citations
2957	Bioengineering extracellular vesicles as novel nanocarriers towards brain disorders. Nano Research, 2023, 16, 2635-2659.	5.8	2
2958	Multi-functional extracellular vesicles: Potentials in cancer immunotherapy. Cancer Letters, 2022, 551, 215934.	3.2	2
2959	Isolation and analysis of tumorâ€‘derived extracellular vesicles from head and neck squamous cell carcinoma plasma by galectinâ€‘based glycan recognition particles. International Journal of Oncology, 2022, 61, .	1.4	10
2960	Nanoengineering facilitating the target mission: targeted extracellular vesicles delivery systems design. Journal of Nanobiotechnology, 2022, 20, .	4.2	19
2961	Stem Cell-derived Extracellular Vesicles: A Promising Nano Delivery Platform to the Brain?. Stem Cell Reviews and Reports, 2023, 19, 285-308.	1.7	5
2962	Nanoparticle-Labeled Exosomes as Theranostic Agents: A Review. ACS Applied Nano Materials, 2022, 5, 12265-12275.	2.4	4
2963	The roles of small extracellular vesicles as prognostic biomarkers and treatment approaches in triple-negative breast cancer. Frontiers in Oncology, 0, 12, .	1.3	2
2964	Recommendation: Treatment of clinical long COVID encephalopathies with nasal administered mesenchymal stromal cell extracellular vesicles. Frontiers in Nanotechnology, 0, 4, .	2.4	3
2965	Review: Milk Small Extracellular Vesicles for Use in the Delivery of Therapeutics. Pharmaceutical Research, 2023, 40, 909-915.	1.7	8
2966	Recent advances in targeted delivery of non-coding RNA-based therapeutics for atherosclerosis. Molecular Therapy, 2022, 30, 3118-3132.	3.7	15
2967	The evolving role of extracellular vesicles (exosomes) as biomarkers in traumatic brain injury: Clinical perspectives and therapeutic implications. Frontiers in Aging Neuroscience, 0, 14, .	1.7	9
2968	Exosomal microRNAs as diagnostic biomarkers and therapeutic applications in neurodegenerative diseases. Neurological Research, 2023, 45, 191-199.	0.6	4
2969	The role of extracellular vesicles in osteoarthritis treatment via microenvironment regulation. Biomaterials Research, 2022, 26, .	3.2	11
2970	Artificial Exosomes as Targeted Drug Delivery Systems. Nanotechnology in the Life Sciences, 2022, , 123-147.	0.4	1
2971	Facile and scalable fabrication of exosome-mimicking nanovesicles through PEGylated lipid detergent-aided cell extrusion. Nanoscale, 2022, 14, 16581-16589.	2.8	3
2972	Engineered Materials for Probing and Perturbing Brain Chemistry. , 2022, , 89-168.		1
2973	MiR-493-5p inhibits Th9 cell differentiation in allergic asthma by targeting FOXO1. Respiratory Research, 2022, 23, .	1.4	4
2974	Exosomes as Potential Functional Nanomaterials for Tissue Engineering. Advanced Healthcare Materials, 2023, 12, .	3.9	10

#	Article	IF	Citations
2975	Cell-derived nanovesicle-mediated drug delivery to the brain: Principles and strategies for vesicle engineering. Molecular Therapy, 2023, 31, 1207-1224.	3.7	37
2976	The dark side of foetal bovine serum in extracellular vesicle studies. Journal of Extracellular Vesicles, 2022, 11, .	5.5	21
2977	Synergistic siRNA Loading of Extracellular Vesicles Enables Functional Delivery into Cells. Small Methods, 2022, 6, .	4.6	10
2978	Extracellular Vesicles as Delivery Vehicles for Therapeutic Nucleic Acids in Cancer Gene Therapy: Progress and Challenges. Pharmaceutics, 2022, 14, 2236.	2.0	10
2979	Molecular Docking and Intracellular Translocation of Extracellular Vesicles for Efficient Drug Delivery. International Journal of Molecular Sciences, 2022, 23, 12971.	1.8	1
2980	An optimized exosome production strategy for enhanced yield while without sacrificing cargo loading efficiency. Journal of Nanobiotechnology, 2022, 20, .	4.2	6
2981	Exosomes as CNS Drug Delivery Tools and Their Applications. Pharmaceutics, 2022, 14, 2252.	2.0	21
2982	A functionalized collagen-I scaffold delivers microRNA 21-loaded exosomes for spinal cord injury repair. Acta Biomaterialia, 2022, 154, 385-400.	4.1	15
2983	Strategies to overcome the main challenges of the use of exosomes as drug carrier for cancer therapy. Cancer Cell International, 2022, 22, .	1.8	29
2984	si-PDGFRÎ²-Loaded Exosomes Suppress the Progression of Glioma by Inhibiting the Oxidative Associated PI3K/Akt/EZH2 Signaling Pathway. Oxidative Medicine and Cellular Longevity, 2022, 2022, 1-15.	1.9	3
2985	CD11c+ myeloid cell exosomes reduce intestinal inflammation during colitis. JCI Insight, 2022, 7, .	2.3	4
2986	Contaminating transfection complexes can masquerade as small extracellular vesicles and impair their delivery of RNA. Journal of Extracellular Vesicles, 2022, 11, .	5.5	9
2987	Radiovesicolomics-new approach in medical imaging. Frontiers in Physiology, 0, 13, .	1.3	3
2988	Pharmacokinetics and biodistribution of extracellular vesicles administered intravenously and intranasally to Macaca nemestrina. , 2022, 1, .		34
2989	The status of industrialization and development of exosomes as a drug delivery system: A review. Frontiers in Pharmacology, 0, 13, .	1.6	5
2990	The transmission and toxicity of polymer-bound doxorubicin-containing exosomes derived from human adenocarcinoma cells. Nanomedicine, 0, , .	1.7	0
2991	Exosomes in Neuroblastoma Biology, Diagnosis, and Treatment. Life, 2022, 12, 1714.	1.1	2
2992	Exosomes as New Generation Vehicles for Drug Delivery: Biomedical Applications and Future Perspectives. Molecules, 2022, 27, 7289.	1.7	32

#	Article	IF	Citations
2993	Advances of engineered extracellular vesicles-based therapeutics strategy. Science and Technology of Advanced Materials, 2022, 23, 655-681.	2.8	11
2994	Extravaganza of Nanobiotechnology in the Diagnosis and Treatment of Dementia Patients. Current Pharmaceutical Biotechnology, 2022, 24, .	0.9	0
2995	Microglial Extracellular Vesicles as Modulators of Brain Microenvironment in Glioma. International Journal of Molecular Sciences, 2022, 23, 13165.	1.8	4
2996	Immunocyteâ€Derived Nanodrugs for Cancer Therapy. Advanced Functional Materials, 2022, 32, .	7.8	5
2997	Tumor microenvironment and exosomes in brain metastasis: Molecular mechanisms and clinical application. Frontiers in Oncology, 0, 12, .	1.3	2
2998	Circular <scp>RNAs</scp>: emerging players in brain aging and neurodegenerative diseases. Journal of Pathology, 2023, 259, 1-9.	2.1	10
2999	Role of Nanotechnology in Overcoming the Multidrug Resistance in Cancer Therapy: A Review. Molecules, 2022, 27, 6608.	1.7	7
3000	Exosomes: mediators regulating the phenotypic transition of vascular smooth muscle cells in atherosclerosis. Cell Communication and Signaling, 2022, 20, .	2.7	3
3001	Internalisation of RGD-Engineered Extracellular Vesicles by Glioblastoma Cells. Biology, 2022, 11, 1483.	1.3	5
3002	Extracellular vesicles: A new paradigm in understanding, diagnosing and treating neurodegenerative disease. Frontiers in Aging Neuroscience, 0, 14, .	1.7	5
3003	A novel technique using chronic infusion of small extracellular vesicles from gestational diabetes mellitus causes glucose intolerance in pregnant mice. Clinical Science, 2022, 136, 1535-1549.	1.8	10
3004	Unlocking the promise of mRNA therapeutics. Nature Biotechnology, 2022, 40, 1586-1600.	9.4	107
3005	Nebulization of extracellular vesicles: A promising small RNA delivery approach for lung diseases. Journal of Controlled Release, 2022, 352, 556-569.	4.8	20
3006	RNA binding proteins (RBPs) and their role in DNA damage and radiation response in cancer. Advanced Drug Delivery Reviews, 2022, 191, 114569.	6.6	11
3007	CircRNAs: Key molecules in the prevention and treatment of ischemic stroke. Biomedicine and Pharmacotherapy, 2022, 156, 113845.	2.5	5
3008	Astrocyte-derived sEVs alleviate fibrosis and promote functional recovery after spinal cord injury in rats. International Immunopharmacology, 2022, 113, 109322.	1.7	3
3009	Biocompatible engineered erythrocytes as plasmonic sensor initiators for high-sensitive screening of non-small cell lung cancer-derived exosomal miRNA in an integrated system. Biosensors and Bioelectronics, 2023, 219, 114802.	5.3	8
3010	Skeletal Muscleâ€“Extricated Extracellular Vesicles: Facilitators of Repair and Regeneration. , 2022, , 1097-1121.		1

#	Article	IF	Citations
3011	Extracellular Vesicles Derived from Mesenchymal Stem Cells. , 2022, , 1071-1096.		0
3012	Exosomesâ”€Natureâ€™s Lipid Nanoparticles, a Rising Star in Drug Delivery and Diagnostics. ACS Nano, 2022, 16, 17802-17846.	7.3	117
3013	Harnessing Normal and Engineered Mesenchymal Stem Cells Derived Exosomes for Cancer Therapy: Opportunity and Challenges. International Journal of Molecular Sciences, 2022, 23, 13974.	1.8	14
3014	From Promise to Reality: Bioengineering Strategies to Enhance the Therapeutic Potential of Extracellular Vesicles. Bioengineering, 2022, 9, 675.	1.6	3
3015	Alzheimerâ€™s Disease: Treatment Strategies and Their Limitations. International Journal of Molecular Sciences, 2022, 23, 13954.	1.8	66
3016	Exosome mimetics derived from bone marrow mesenchymal stem cells deliver doxorubicin to osteosarcoma in vitro and in vivo. Drug Delivery, 2022, 29, 3291-3303.	2.5	16
3017	CNS Delivery of Nucleic Acid Therapeutics: Beyond the Bloodâ€“Brain Barrier and Towards Specific Cellular Targeting. Pharmaceutical Research, 2023, 40, 77-105.	1.7	9
3018	EXOSC8 promotes colorectal cancer tumorigenesis via regulating ribosome biogenesis-related processes. Oncogene, 2022, 41, 5397-5410.	2.6	3
3019	Biodistribution and delivery of oligonucleotide therapeutics to the central nervous system: Advances, challenges, and future perspectives. Biopharmaceutics and Drug Disposition, 2023, 44, 26-47.	1.1	9
3020	Expanding therapeutic strategies for intracellular bacterial infections through conjugates of apoptotic bodyâ€“antimicrobial peptides. Drug Discovery Today, 2022, , 103444.	3.2	0
3021	Exosomes loaded with ultrasmall Pt nanoparticles: a novel low-toxicity alternative to cisplatin. Journal of Nanobiotechnology, 2022, 20, .	4.2	6
3022	The application of exosomes in the treatment of triple-negative breast cancer. Frontiers in Molecular Biosciences, 0, 9, .	1.6	8
3023	Improving the circulation time and renal therapeutic potency of extracellular vesicles using an endogenous ligand binding strategy. Journal of Controlled Release, 2022, 352, 1009-1023.	4.8	6
3024	The past, present, and future of chemotherapy with a focus on individualization of drug dosing. Journal of Controlled Release, 2022, 352, 840-860.	4.8	9
3025	Targeted delivery of RNAi to cancer cells using RNA-ligand displaying exosome. Acta Pharmaceutica Sinica B, 2023, 13, 1383-1399.	5.7	10
3026	Illuminating the Molecular Intricacies of Exosomes and ncRNAs in Cardiovascular Diseases: Prospective Therapeutic and Biomarker Potential. Cells, 2022, 11, 3664.	1.8	2
3027	Emerging chemical engineering of exosomes as â€œbioscaffoldsâ€•in diagnostics and therapeutics. Genes and Diseases, 2023, 10, 1494-1512.	1.5	3
3028	Tracking tools of extracellular vesicles for biomedical research. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	6

#	Article	IF	Citations
3029	Challenges and future scope of exosomes in the treatment of cardiovascular diseases. Journal of Physiology, 2023, 601, 4873-4893.	1.3	7
3031	Exosomal delivery of TRAIL and miRâ€‘335 for theÂtreatment of hepatocellular carcinoma (Review). International Journal of Molecular Medicine, 2022, 51, .	1.8	3
3032	Hybrid platforms for drug delivery applications. , 2023, , 217-255.		0
3033	Dendritic cell derived exosomes loaded neoantigens for personalized cancer immunotherapies. Journal of Controlled Release, 2023, 353, 423-433.	4.8	23
3034	Exosomes as biomarkers and therapeutic measures for ischemic stroke. European Journal of Pharmacology, 2023, 939, 175477.	1.7	0
3035	Mesenchymal stem cell- and extracellular vesicle-based therapies for Alzheimerâ€²s disease: progress, advantages, and challenges. Neural Regeneration Research, 2023, .	1.6	2
3036	Future in precise surgery: Fluorescence-guided surgery using EVs derived fluorescence contrast agent. Journal of Controlled Release, 2023, 353, 832-841.	4.8	2
3037	Exosome-based approaches in the management of Alzheimerâ€™s disease. Neuroscience and Biobehavioral Reviews, 2023, 144, 104974.	2.9	11
3038	Osteoclast-derived extracellular miR-106a-5p promotes osteogenic differentiation and facilitates bone defect healing. Cellular Signalling, 2023, 102, 110549.	1.7	3
3039	Exosomes based strategies for brain drug delivery. Biomaterials, 2023, 293, 121949.	5.7	27
3040	Small extracellular vesicle targeting of hypothalamic AMPKÎ±1 promotes weight loss in leptin receptor deficient mice. Metabolism: Clinical and Experimental, 2023, 139, 155350.	1.5	7
3041	Engineered extracellular vesicles for delivery of siRNA promoting targeted repair of traumatic spinal cord injury. Bioactive Materials, 2023, 23, 328-342.	8.6	17
3042	Immunomodulatory Effects of Mesenchymal Stem Cell-Derived Extracellular Vesicles in Allergic Airway Disease. Life, 2022, 12, 1994.	1.1	1
3043	Evaluation and manipulation of tissue and cellular distribution of cardiac progenitor cell-derived extracellular vesicles. Frontiers in Pharmacology, 0, 13, .	1.6	4
3044	Circulating Small Extracellular Vesicle-Derived miR-342-5p Ameliorates Beta-Amyloid Formation via Targeting Beta-site APP Cleaving Enzyme 1 in Alzheimerâ€™s Disease. Cells, 2022, 11, 3830.	1.8	5
3046	Genetically Engineered Extracellular Vesicles Harboring Transmembrane Scaffolds Exhibit Differences in Their Size, Expression Levels of Specific Surface Markers and Cell-Uptake. Pharmaceutics, 2022, 14, 2564.	2.0	4
3047	Organismâ€Generated Biological Vesicles In Situ: An Emerging Drug Delivery Strategy. Advanced Science, 2023, 10, .	5.6	5
3048	Extracellular Vesicle-Based Therapeutics in Neurological Disorders. Pharmaceutics, 2022, 14, 2652.	2.0	9

#	Article	IF	Citations
3049	Modern Advances in CARs Therapy and Creating a New Approach to Future Treatment. International Journal of Molecular Sciences, 2022, 23, 15006.	1.8	4
3050	Fluorescence Spectroscopic Analysis of Lateral and Transbilayer Fluidity of Exosome Membranes. Langmuir, 2022, 38, 14695-14703.	1.6	4
3051	Engineered Extracellular Vesicles in Treatment of Type 1 Diabetes Mellitus: A Prospective Review. Biomedicines, 2022, 10, 3042.	1.4	3
3052	Novel insight into miRNA biology and its role in the pathogenesis of systemic lupus erythematosus. Frontiers in Immunology, 0, 13, .	2.2	8
3053	Rabies: who should care?. Journal of the American Veterinary Medical Association, 2022, , 1-5.	0.2	3
3054	Extracellular vesicles, from the pathogenesis to the therapy of neurodegenerative diseases. Translational Neurodegeneration, 2022, 11, .	3.6	24
3055	Combined Biomimetic MOF-RVG15 Nanoformulation Efficient Over BBB for Effective Anti-Glioblastoma in Mice Model. International Journal of Nanomedicine, 0, Volume 17, 6377-6398.	3.3	4
3056	Roadmap on Nanomedicine for the Central Nervous System. JPhys Materials, 0, , .	1.8	1
3057	Biomimicking Extracellular Vesicles with Fully Artificial Ones: A Rational Design of EV-BIOMIMETICS toward Effective Theranostic Tools in Nanomedicine. ACS Biomaterials Science and Engineering, 2023, 9, 5924-5932.	2.6	6
3058	Noncoding RNA therapeutics for substance use disorder. Advances in Drug and Alcohol Research, 0, 2, .	2.5	3
3059	Phospholipid fatty acid remodeling and carbonylated protein increase in extracellular vesicles released by airway epithelial cells exposed to cigarette smoke extract. European Journal of Cell Biology, 2023, 102, 151285.	1.6	3
3060	Dapagliflozinâ€Loaded Exosome Mimetics Facilitate Diabetic Wound Healing by HIFâ€1 Î±â€Mediated Enhancement of Angiogenesis. Advanced Healthcare Materials, 2023, 12, .	3.9	20
3061	Milk Exosomes Facilitate Oral Delivery of Drugs against Intestinal Bacterial Infections. Journal of Agricultural and Food Chemistry, 2022, 70, 16069-16079.	2.4	8
3062	Engineering exosomes for bone defect repair. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	7
3063	Using natural killer cellâ€derived exosomes as a cellâ€free therapy for leukemia. Hematological Oncology, 2023, 41, 487-498.	0.8	6
3064	Protective role of engineered extracellular vesicles loaded quercetin nanoparticles as anti-viral therapy against SARS-CoV-2 infection: A prospective review. Frontiers in Immunology, 0, 13, .	2.2	3
3065	Application of engineered extracellular vesicles to overcome drug resistance in cancer. Frontiers in Oncology, 0, 12, .	1.3	1
3066	The Therapeutic Potential and Clinical Significance of Exosomes as Carriers of Drug Delivery System. Pharmaceutics, 2023, 15, 21.	2.0	17

#	Article	IF	Citations
3067	Genome Editing and Diabetic Cardiomyopathy. Advances in Experimental Medicine and Biology, 2023, , 103-114.	0.8	0
3068	Extracellular Vesicles as Biomarkers in Liver Disease. International Journal of Molecular Sciences, 2022, 23, 16217.	1.8	8
3069	Nanotechnology in stem cell research and therapy. Journal of Nanoparticle Research, 2023, 25, .	0.8	5
3070	Nanomaterial-mediated photoporation for intracellular delivery. Acta Biomaterialia, 2023, 157, 24-48.	4.1	7
3071	Overcoming tumor and mucosal barriers through active-loaded nanocarriers: nanoparticles and exosomes. Applied Nanoscience (Switzerland), 2023, 13, 4485-4495.	1.6	1
3072	Analysis and Biomedical Applications of Functional Cargo in Extracellular Vesicles. ACS Nano, 2022, 16, 19980-20001.	7.3	20
3073	Cellâ€specific targeting of extracellular vesicles through engineering the glycocalyx. Journal of Extracellular Vesicles, 2022, 11, .	5.5	17
3074	Extracellular vesicles in the glioblastoma microenvironment: A diagnostic and therapeutic perspective. Molecular Aspects of Medicine, 2023, 91, 101167.	2.7	6
3075	Human mini-bloodâ€“brain barrier models for biomedical neuroscience research: a review. Biomaterials Research, 2022, 26, .	3.2	6
3076	Artificial and Naturally Derived Phospholipidic Bilayers as Smart Coatings of Solid-State Nanoparticles: Current Works and Perspectives in Cancer Therapy. International Journal of Molecular Sciences, 2022, 23, 15815.	1.8	3
3077	Exosomes-Based Nanomedicine for Neurodegenerative Diseases: Current Insights and Future Challenges. Pharmaceutics, 2023, 15, 298.	2.0	6
3078	CAR Exosome-Based Therapeutics. , 2023, , 1-14.		0
3079	Small extracellular vesicles from mesenchymal stem cells: A potential Weapon for chronic non-healing wound treatment. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	8
3080	Strategic nanocarriers to control neurodegenerative disorders: Concept, challenges, and future perspective. International Journal of Pharmaceutics, 2023, 633, 122614.	2.6	2
3081	Contribution of Extracellular Vesicles and Molecular Chaperones in Age-Related Neurodegenerative Disorders of the CNS. International Journal of Molecular Sciences, 2023, 24, 927.	1.8	5
3082	Optimal delivery strategies for nanoparticle-mediated mRNA delivery. Journal of Materials Chemistry B, 2023, 11, 2063-2077.	2.9	4
3083	Circular RNAs in extracellular vesicles: Promising candidate biomarkers for schizophrenia. Frontiers in Genetics, 0, 13, .	1.1	2
3084	Omics insights into extracellular vesicles in embryo implantation and their therapeutic utility. Proteomics, 2023, 23, .	1.3	4

#	Article	IF	Citations
3085	Exosomes as smart drug delivery vehicles for cancer immunotherapy. Frontiers in Immunology, 0, 13, .	2.2	19
3086	Nucleic acid drug vectors for diagnosis and treatment of brain diseases. Signal Transduction and Targeted Therapy, 2023, 8, .	7.1	19
3087	Extracellular vesicleâ€based nucleic acid delivery. , 2023, 1, .		10
3088	Hybrid exosomes, exosome-like nanovesicles and engineered exosomes for therapeutic applications. Journal of Controlled Release, 2023, 353, 1127-1149.	4.8	53
3089	One-Step Pharmaceutical Preparation of PEG-Modified Exosomes Encapsulating Anti-Cancer Drugs by a High-Pressure Homogenization Technique. Pharmaceuticals, 2023, 16, 108.	1.7	4
3090	Endosomal escape of nucleic acids from extracellular vesicles mediates functional therapeutic delivery. Pharmacological Research, 2023, 188, 106665.	3.1	6
3091	Exosome engineering in cell therapy and drug delivery. Inflammopharmacology, 2023, 31, 145-169.	1.9	37
3092	Extracellular vesicles, the emerging mirrors of brain physiopathology. International Journal of Biological Sciences, 2023, 19, 721-743.	2.6	20
3093	Future applications of exosomes delivering resolvins and cytokines in facilitating diabetic foot ulcer healing. World Journal of Diabetes, 0, 14, 35-47.	1.3	7
3094	Biochemistry of exosomes and their theranostic potential in human diseases. Life Sciences, 2023, 315, 121369.	2.0	5
3095	Circularized RNA as novel therapeutics in cancer. International Journal of Biochemistry and Cell Biology, 2023, 156, 106364.	1.2	3
3096	Exosomes: A missing link between chronic systemic inflammation and Alzheimerâ€™s disease?. Biomedicine and Pharmacotherapy, 2023, 159, 114161.	2.5	5
3097	Exosome therapies improve outcome in rodents with ischemic stroke; meta-analysis. Brain Research, 2023, 1803, 148228.	1.1	1
3098	Applications of Extracellular Vesicles in Nervous System Disorders: An Overview of Recent Advances. Bioengineering, 2023, 10, 51.	1.6	8
3099	Native and engineered exosomes for inflammatory disease. Nano Research, 2023, 16, 6991-7006.	5.8	10
3100	The cell type dependent sorting of CD9- and CD81 to extracellular vesicles can be exploited to convey tumor sensitive cargo to target cells. Drug Delivery, 2023, 30, .	2.5	5
3101	Can Extracellular Vesicles as Drug Delivery Systems Be a Game Changer in Cardiac Disease?. Pharmaceutical Research, 2023, 40, 889-908.	1.7	11
3102	Exosomes: A new option for osteoporosis treatment. Medicine (United States), 2022, 101, e32402.	0.4	0

#	Article	IF	Citations
3103	Engineered Exosomes for Tumor-Targeted Drug Delivery: A Focus on Genetic and Chemical Functionalization. Pharmaceutics, 2023, 15, 66.	2.0	17
3104	Extracellular Vesicles from Campylobacter jejuni CDT-Treated Caco-2 Cells Inhibit Proliferation of Tumour Intestinal Caco-2 Cells and Myeloid U937 Cells: Detailing the Global Cell Response for Potential Application in Anti-Tumour Strategies. International Journal of Molecular Sciences, 2023, 24, 487.	1.8	2
3105	Microfluidic Post-Insertion Method for the Efficient Preparation of PEGylated Liposomes Using High Functionality and Quality Lipids. International Journal of Nanomedicine, 0, Volume 17, 6675-6686.	3.3	2
3106	Extracellular Vesicles in Amyotrophic Lateral Sclerosis. Life, 2023, 13, 121.	1.1	3
3107	Engineered adult stem cells: a promising tool for anti-cancer therapy. BMB Reports, 2023, 56, 71-77.	1.1	2
3108	Application of Exosomes in Medical Field. Advances in Clinical Medicine, 2023, 13, 1341-1345.	0.0	0
3109	Extracellular Vesicles as New Players in Drug Delivery: A Focus on Red Blood Cells-Derived EVs. Pharmaceutics, 2023, 15, 365.	2.0	11
3110	Customizing delivery nano-vehicles for precise brain tumor therapy. Journal of Nanobiotechnology, 2023, 21, .	4.2	12
3111	Nanodiagnostics and nanomedicines for neurodegenerative disorders. , 2023, , 131-163.		0
3112	Milk exosomes: an oral drug delivery system with great application potential. Food and Function, 2023, 14, 1320-1337.	2.1	8
3113	Potential targeted therapy based on deep insight into the relationship between the pulmonary microbiota and immune regulation in lung fibrosis. Frontiers in Immunology, 0, 14, .	2.2	1
3114	Stem cell- derived extracellular vesicles as new tools in regenerative medicine - Immunomodulatory role and future perspectives. Frontiers in Immunology, 0, 14, .	2.2	12
3115	The potential use of mesenchymal stem cells-derived exosomes as microRNAs delivery systems in different diseases. Cell Communication and Signaling, 2023, 21, .	2.7	34
3116	Extracellular Vesicles from Mesenchymal Stem Cells: Towards Novel Therapeutic Strategies for Neurodegenerative Diseases. International Journal of Molecular Sciences, 2023, 24, 2917.	1.8	7
3117	Pannexin1 Channel-Mediated Inflammation in Acute Ischemic Stroke. , 2023, .		0
3118	Nanotechnology for DNA and RNA delivery. , 2023, , 81-111.		1
3119	The role of fibronectin in multiple sclerosis and the effect of drug delivery across the blood-brain barrier. Neural Regeneration Research, 2023, 18, 2147.	1.6	0
3120	Mesenchymal Stromal Cell-Based Targeted Therapy Pancreatic Cancer: Progress and Challenges. International Journal of Molecular Sciences, 2023, 24, 3559.	1.8	5

#	Article	IF	Citations
3121	Lipid Nanoparticles Deliver the Therapeutic VEGFA mRNA In Vitro and In Vivo and Transform Extracellular Vesicles for Their Functional Extensions. Advanced Science, 2023, 10, .	5.6	21
3122	Therapeutic potentials of stem cellâ€“derived exosomes in cardiovascular diseases. Experimental Biology and Medicine, 2023, 248, 434-444.	1.1	3
3123	Neural stem/progenitor cellâ€derived extracellular vesicles: A novel therapy for neurological diseases and beyond. MedComm, 2023, 4, .	3.1	1
3124	Biological Functions and Applications of Exosomes in Drug Research. , 0, , .		0
3125	Tumor-targeted exosomes for delivery of anticancer drugs. Cancer Letters, 2023, 558, 216093.	3.2	14
3126	Engineered EVs designed to target diseases of the CNS. Journal of Controlled Release, 2023, 356, 493-506.	4.8	11
3127	Extracellular vesicle-based delivery of silencing sequences for the treatment of Machado-Joseph disease/spinocerebellar ataxia type 3. Molecular Therapy, 2023, 31, 1275-1292.	3.7	7
3128	Hybrid Nanoparticle System Integrating Tumor-Derived Exosomes and Poly(amidoamine) Dendrimers: Implications for an Effective Gene Delivery Platform. Chemistry of Materials, 2023, 35, 3138-3150.	3.2	10
3129	Comparative study of size exclusion chromatography for isolation of small extracellular vesicle from cell-conditioned media, plasma, urine, and saliva. Frontiers in Nanotechnology, 0, 5, .	2.4	3
3130	Extracellular vesicles as next generation immunotherapeutics. Seminars in Cancer Biology, 2023, 90, 73-100.	4.3	16
3131	Technological aspects of manufacturing and analytical control of biological nanoparticles. Biotechnology Advances, 2023, 64, 108122.	6.0	8
3132	Newer modalities in the management of Alzheimer's dementia along with the role of aducanumab and lecanemab in the treatment of its refractory cases. Disease-a-Month, 2023, 69, 101547.	0.4	4
3133	Milk/colostrum exosomes: A nanoplatform advancing delivery of cancer therapeutics. Cancer Letters, 2023, 561, 216141.	3.2	10
3134	Extracellular vesicles as reconfigurable therapeutics for eye diseases: Promises and hurdles. Progress in Neurobiology, 2023, 225, 102437.	2.8	2
3135	The role of exosomes in the stemness maintenance and progression of acute myeloid leukemia. Biochemical Pharmacology, 2023, 212, 115539.	2.0	5
3136	Viral Vectors, Exosomes, and Vexosomes: Potential armamentarium for delivering CRISPR/Cas to cancer cells. Biochemical Pharmacology, 2023, 212, 115555.	2.0	8
3137	In Situ Reprogramming of Tumorâ€Associated Macrophages with Internally and Externally Engineered Exosomes. Angewandte Chemie, 2023, 135, .	1.6	1
3138	In Situ Reprogramming of Tumorâ€Associated Macrophages with Internally and Externally Engineered Exosomes. Angewandte Chemie - International Edition, 2023, 62, .	7.2	10

#	Article	IF	Citations
3139	Vaccine Formulation Strategies and Challenges Involved in RNA Delivery for Modulating Biomarkers of Cardiovascular Diseases: A Race from Laboratory to Market. Vaccines, 2023, 11, 241.	2.1	1
3140	Overcoming Blood-Brain Barrier Resistance: Implications for Extracellular Vesicle-Mediated Drug Brain Delivery. Frontiers in Drug Delivery, 0, 2, .	0.4	5
3141	Drug delivery as a sustainable avenue to future therapies. Journal of Controlled Release, 2023, 354, 746-754.	4.8	4
3142	Biomimetic synthesis and optimization of extracellular vesicles for bone regeneration. Journal of Controlled Release, 2023, 355, 18-41.	4.8	5
3143	Biomimetic cell membrane-coated nanocarriers for targeted siRNA delivery in cancer therapy. Drug Discovery Today, 2023, 28, 103514.	3.2	12
3144	Extracellular Vesicles in Aging: An Emerging Hallmark?. Cells, 2023, 12, 527.	1.8	6
3145	Manufacture of extracellular vesicles derived from mesenchymal stromal cells. Trends in Biotechnology, 2023, 41, 965-981.	4.9	5
3146	Exosome nanovesicles: A potential carrier for therapeutic delivery. Nano Today, 2023, 49, 101771.	6.2	23
3147	Stimuli-Responsive Gene Delivery Nanocarriers for Cancer Therapy. Nano-Micro Letters, 2023, 15, .	14.4	29
3148	A Nanotherapy of Octanoic Acid Ameliorates Cardiac Arrest/Cardiopulmonary Resuscitation-Induced Brain Injury via RVG29- and Neutrophil Membrane-Mediated Injury Relay Targeting. ACS Nano, 2023, 17, 3528-3548.	7.3	9
3149	â€œTwo birds with one stoneâ€•strategy for the lung cancer therapy with bioinspired AIE aggregates. Journal of Nanobiotechnology, 2023, 21, .	4.2	6
3150	Research Progress of Extracellular Vesicles Targeted Therapy. Advanced Therapeutics, 2023, 6, .	1.6	0
3151	Exosome-Based Carrier for RNA Delivery: Progress and Challenges. Pharmaceutics, 2023, 15, 598.	2.0	12
3152	Bone-targeted bioengineered bacterial extracellular vesicles delivering siRNA to ameliorate osteoporosis. Composites Part B: Engineering, 2023, 255, 110610.	5.9	18
3153	MiR146a-loaded engineered exosomes released from silk fibroin patch promote diabetic wound healing by targeting IRAK1. Signal Transduction and Targeted Therapy, 2023, 8, .	7.1	27
3154	Engineered mesenchymal stem cell-derived extracellular vesicles: A state-of-the-art multifunctional weapon against Alzheimer's disease. Theranostics, 2023, 13, 1264-1285.	4.6	15
3155	Virus-Free Method to Control and Enhance Extracellular Vesicle Cargo Loading and Delivery. ACS Applied Bio Materials, 2023, 6, 1081-1091.	2.3	5
3156	Therapeutic potential of extracellular vesicles in neurodegenerative disorders. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2023, , 243-266.	1.0	5

#	Article	IF	Citations
3157	Exploiting the biogenesis of extracellular vesicles for bioengineering and therapeutic cargo loading. Molecular Therapy, 2023, 31, 1231-1250.	3.7	32
3158	Injectable hydrogels for sustained delivery of extracellular vesicles in cartilage regeneration. Journal of Controlled Release, 2023, 355, 685-708.	4.8	7
3159	Tuning the Extracellular Vesicles Membrane through Fusion for Biomedical Applications. Journal of Functional Biomaterials, 2023, 14, 117.	1.8	4
3160	Human Keratinocyte-Derived Exosomal MALAT1 Promotes Diabetic Wound Healing by Upregulating MFGE8 via microRNA-1914-3p. International Journal of Nanomedicine, 0, Volume 18, 949-970.	3.3	4
3161	Hybrid extracellular vesicles for drug delivery. Cancer Letters, 2023, 558, 216107.	3.2	12
3162	Bioengineered MSC-derived exosomes in skin wound repair and regeneration. Frontiers in Cell and Developmental Biology, 0, 11, .	1.8	15
3163	Exosomes as natural nanocarrier-based drug delivery system: recent insights and future perspectives. 3 Biotech, 2023, 13, .	1.1	18
3164	Extracellular Vesicles, Cell-Penetrating Peptides and miRNAs as Future Novel Therapeutic Interventions for Parkinsonâ€™s and Alzheimerâ€™s Disease. Biomedicines, 2023, 11, 728.	1.4	6
3165	Exosomes from Ubâ€‘HBcAgâ€‘overexpressing dendritic cells induce Tâ€‘lymphocyte differentiation and enhance cytotoxic Tâ€‘lymphocyte activity. Experimental and Therapeutic Medicine, 2023, 25, .	0.8	1
3166	Viral vectors and extracellular vesicles: innate delivery systems utilized in CRISPR/Cas-mediated cancer therapy. Cancer Gene Therapy, 2023, 30, 936-954.	2.2	15
3167	Multiscale NIR-II Imaging-Guided Brain-Targeted Drug Delivery Using Engineered Cell Membrane Nanoformulation for Alzheimerâ€™s Disease Therapy. ACS Nano, 2023, 17, 5033-5046.	7.3	20
3168	Extracellular vesicles: From bone development to regenerative orthopedics. Molecular Therapy, 2023, 31, 1251-1274.	3.7	9
3169	Molecular Pathways Implicated in Radioresistance of Glioblastoma Multiforme: What Is the Role of Extracellular Vesicles?. International Journal of Molecular Sciences, 2023, 24, 4883.	1.8	3
3170	Co-delivery of PDL1-blocking scFv and chemotherapeutics using engineered exosomes for cancer therapy. Journal of Drug Delivery Science and Technology, 2023, 82, 104337.	1.4	3
3171	Advances in RNA cancer therapeutics: New insight into exosomes as miRNA delivery. , 2023, 1, 100005.		4
3172	The biological applications of exosomal-based materials in bone/cartilage tissue engineering. Frontiers in Materials, 0, 10, .	1.2	0
3173	Exosomes as crucial emerging tools for intercellular communication with therapeutic potential in ovarian cancer. Future Science OA, 2023, 9, .	0.9	1
3174	Exploiting the Opportunity to Use Plant-Derived Nanoparticles as Delivery Vehicles. Plants, 2023, 12, 1207.	1.6	1

#	Article	IF	Citations
3175	Aptamerâ€based extracellular vesicle isolation, analysis and therapeutics. , 2023, 1, .		13
3176	Extracellular Vesicles as Drug Delivery Systems in Organ Transplantation: The Next Frontier. Pharmaceutics, 2023, 15, 891.	2.0	4
3177	Innovative nanomaterials for cancer diagnosis, imaging, and therapy: Drug delivery applications. Journal of Drug Delivery Science and Technology, 2023, 82, 104357.	1.4	16
3178	Extracellular Vesicles in Mental Disorders: A State-of-art Review. International Journal of Biological Sciences, 2023, 19, 1094-1109.	2.6	7
3179	Epitope Imprinting of Phospholipids by Oriented Assembly at the Oil/Water Interface for the Selective Recognition of Plasma Membranes. Angewandte Chemie - International Edition, 2023, 62, .	7.2	4
3180	Epitope Imprinting of Phospholipids by Oriented Assembly at the Oil/Water Interface for the Selective Recognition of Plasma Membranes. Angewandte Chemie, 2023, 135, .	1.6	1
3181	Placental Extracellular Vesicles Can Be Loaded with Plasmid DNA. Molecular Pharmaceutics, 2023, 20, 1898-1913.	2.3	3
3182	Intraperitoneal transfer of microRNAâ€29bâ€containing small extracellular vesicles can suppress peritoneal metastases of gastric cancer. Cancer Science, 2023, 114, 2939-2950.	1.7	2
3183	Current advances in nonâ€viral gene delivery systems: Liposomes versus extracellular vesicles. , 2023, 1, .		14
3184	The Exosome-Mediated PI3K/Akt/mTOR Signaling Pathway in Neurological Diseases. Pharmaceutics, 2023, 15, 1006.	2.0	6
3185	Glioblastoma-Derived Small Extracellular Vesicles: Nanoparticles for Glioma Treatment. International Journal of Molecular Sciences, 2023, 24, 5910.	1.8	2
3186	The role of exosomes in pathogenesis and the therapeutic efficacy of mesenchymal stem cell-derived exosomes against Parkinsonâ€™s disease. Neurological Sciences, 0, , .	0.9	3
3187	The HSPB1-p62/SQSTM1 functional complex regulates the unconventional secretion and transcellular spreading of the HD-associated mutant huntingtin protein. Human Molecular Genetics, 2023, 32, 2269-2291.	1.4	7
3188	From Exosome Biogenesis to Absorption: Key Takeaways for Cancer Research. Cancers, 2023, 15, 1992.	1.7	8
3189	Non-Viral Carriers for Nucleic Acids Delivery: Fundamentals and Current Applications. Life, 2023, 13, 903.	1.1	6
3190	Challenges with the discovery of RNA-based therapeutics for flaviviruses. Expert Opinion on Drug Discovery, 2023, 18, 371-383.	2.5	0
3191	Novel Developments to Enable Treatment of CNS Diseases with Targeted Drug Delivery. Pharmaceutics, 2023, 15, 1100.	2.0	5
3192	3,4-Dihydroxybenzalacetone Inhibits the Propagation of Hydrogen Peroxide-Induced Oxidative Effect <i>via</i> Secretory Components from SH-SY5Y Cells. Biological and Pharmaceutical Bulletin, 2023, 46, 599-607.	0.6	0

#	Article	IF	Citations
3193	Extracellular vesicle-mediated delivery of anti-miR-106b inhibits morphine-induced primary ciliogenesis in the brain. Molecular Therapy, 2023, 31, 1332-1345.	3.7	4
3194	Exosome-based nanoimmunotherapy targeting TAMs, a promising strategy for glioma. Cell Death and Disease, 2023, 14, .	2.7	12
3195	Macrophages and small extracellular vesicle mediated-intracellular communication in the peritoneal microenvironment: Impact on endometriosis development. Frontiers in Reproductive Health, 0, 5, .	0.6	2
3196	Enhancing the Effectiveness of Oligonucleotide Therapeutics Using Cell-Penetrating Peptide Conjugation, Chemical Modification, and Carrier-Based Delivery Strategies. Pharmaceutics, 2023, 15, 1130.	2.0	11
3197	Multiplex Analysis of Cerebrospinal Fluid and Serum Exosomes MicroRNAs of Untreated Relapsing Remitting Multiple Sclerosis (RRMS) and Proposing Noninvasive Diagnostic Biomarkers. NeuroMolecular Medicine, 2023, 25, 402-414.	1.8	4
3198	Stem cells in the treatment of Alzheimer's disease â€“ Promises and pitfalls. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2023, 1869, 166712.	1.8	1
3199	Modulating osteoclasts with nanoparticles: A path for osteoporosis management?. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2023, 15, .	3.3	2
3200	Modulation of immunity by the secreted phospholipase <scp>A₂</scp> family. Immunological Reviews, 2023, 317, 42-70.	2.8	6
3201	Engineered nanomaterials that exploit blood-brain barrier dysfunction for delivery to the brain. Advanced Drug Delivery Reviews, 2023, 197, 114820.	6.6	8
3202	Myeloid-specific blockade of Notch signaling ameliorates nonalcoholic fatty liver disease in mice. International Journal of Biological Sciences, 2023, 19, 1941-1954.	2.6	1
3203	A comprehensive survey into the role of exosomes in pancreatic cancer; from the origin of cancer to the progress and possibility of diagnosis and treatment. Pathology Research and Practice, 2023, 245, 154465.	1.0	3
3204	Biomaterials-based anti-inflammatory treatment strategies for Alzheimerâ€™s disease. Neural Regeneration Research, 2024, 19, 100-115.	1.6	4
3205	Targeted Extracellular Vesicle Gene Therapy for Modulating Alpha-Synuclein Expression in Gut and Spinal Cord. Pharmaceutics, 2023, 15, 1230.	2.0	3
3206	Living Cells and Cell-Derived Vesicles: A Trojan Horse Technique for Brain Delivery. Pharmaceutics, 2023, 15, 1257.	2.0	4
3207	Tailor-made nanocargoes as promising tool for brain targeting: Modulated approaches with better therapeutic outcomes. Journal of Drug Delivery Science and Technology, 2023, 84, 104466.	1.4	0
3208	Potential for Therapeutic-Loaded Exosomes to Ameliorate the Pathogenic Effects of Î±-Synuclein in Parkinsonâ€™s Disease. Biomedicines, 2023, 11, 1187.	1.4	5
3209	The Current Status and Future Direction of Extracellular Nano-vesicles in the Alleviation of Skin Disorders. Current Stem Cell Research and Therapy, 2024, 19, 351-366.	0.6	0
3210	Bioengineered Mesenchymal-Stromal-Cell-Derived Extracellular Vesicles as an Improved Drug Delivery System: Methods and Applications. Biomedicines, 2023, 11, 1231.	1.4	2

#	Article	IF	Citations
3211	Engineered extracellular vesicles (EVs): Promising diagnostic/therapeutic tools for pediatric high-grade glioma. Biomedicine and Pharmacotherapy, 2023, 163, 114630.	2.5	4
3229	Modification of Extracellular Vesicle Surfaces: An Approach for Targeted Drug Delivery. BioDrugs, 2023, 37, 353-374.	2.2	2
3231	Exosomes: Promising Delivery Tools for Overcoming Blood-Brain Barrier and Glioblastoma Therapy. Molecular Neurobiology, 2023, 60, 4659-4678.	1.9	8
3238	Emerging extracellular vesicle-based carriers for glioblastoma diagnosis and therapy. Nanoscale, 2023, 15, 10904-10938.	2.8	5
3259	Prospects for the Use of Small Extracellular Vesicles as a Transport Vehicle through the Bloodâ€“Brain Barrier. Neurochemical Journal, 2023, 17, 1-9.	0.2	2
3268	Therapeutic targeting non-coding RNAs. , 2023, , 349-417.		0
3269	Tailoring the Inherent Properties of Biobased Nanoparticles for Nanomedicine. ACS Biomaterials Science and Engineering, 2023, 9, 3972-3986.	2.6	1
3278	Nucleic Acid-Based Strategies to Treat Neurodegenerative Diseases. , 2023, , 105-133.		0
3295	The bloodâ€“brain barrier: structure, regulation, and drug delivery. Signal Transduction and Targeted Therapy, 2023, 8, .	7.1	79
3297	Peptides as multifunctional players in cancer therapy. Experimental and Molecular Medicine, 2023, 55, 1099-1109.	3.2	13
3299	Recent Progress in the Treatment Strategies for Alzheimerâ€™s Disease. Neuromethods, 2023, , 3-47.	0.2	1
3300	Stress, microRNAs, and stress-related psychiatric disorders: an overview. Molecular Psychiatry, 0, , .	4.1	4
3308	Strategies for targeted gene delivery using lipid nanoparticles and cell-derived nanovesicles. Nanoscale Advances, 2023, 5, 3834-3856.	2.2	3
3309	Extracellular Vesicles in Domestic Animals: Cellular Communication in Health and Disease. Advances in Experimental Medicine and Biology, 2023, , .	0.8	0
3310	Where should siRNAs go: applicable organs for siRNA drugs. Experimental and Molecular Medicine, 2023, 55, 1283-1292.	3.2	22
3313	Non-viral approaches for gene therapy and therapeutic genome editing across the bloodâ€“brain barrier. , 2023, 1, .		1
3316	MicroRNA therapeutics and Nucleic Acid Nano-Delivery Systems in Bacterial Infection: a review. Journal of Materials Chemistry B, 0, , .	2.9	0
3318	CSF Biopsy in Glioma: A Brief Review. Methods in Molecular Biology, 2023, , 121-126.	0.4	0

#	Article	IF	Citations
3331	Biological function of Extracellular Vesicles (EVs): a review of the field. Molecular Biology Reports, 2023, 50, 8639-8651.	1.0	2
3339	Temozolomide and flavonoids against glioma: from absorption and metabolism to exosomal delivery. Naunyn-Schmiedeberg's Archives of Pharmacology, 0, , .	1.4	0
3340	Extracellular vesicles: powerful candidates in nano-drug delivery systems. Drug Delivery and Translational Research, 0, , .	3.0	0
3346	Current understanding of phospholipase A2s based on knockout/transgenic mice and human diseases. , 2023, , 55-84.		0
3358	Recent progress in quantitative technologies for the analysis of cancer-related exosome proteins. Analyst, The, 2023, 148, 4954-4966.	1.7	0
3361	Design and fabrication of intracellular therapeutic cargo delivery systems based on nanomaterials: current status and future perspectives. Journal of Materials Chemistry B, 2023, 11, 7873-7912.	2.9	2
3364	Therapeutic potential in rheumatic diseases of extracellular vesicles derived from mesenchymal stromal cells. Nature Reviews Rheumatology, 2023, 19, 682-694.	3.5	5
3366	Nature vs. Manmade: Comparing Exosomes and Liposomes for Traumatic Brain Injury. AAPS Journal, 2023, 25, .	2.2	1
3377	Engineered exosomes for tissue regeneration: from biouptake, functionalization and biosafety to applications. Biomaterials Science, 2023, 11, 7247-7267.	2.6	1
3380	The Role of Liquid Biopsy in Brain Tumors. Current Cancer Research, 2023, , 575-615.	0.2	0
3387	Role of Stem Cells and Derived Exosomes as Novel Therapeutic Agents against Neuroinflammation and Stroke. , 2023, , 193-230.		0
3391	Entwicklung von Stammzellen in der kardio-regenerativen Therapie. , 2023, , 103-130.		0
3401	Cell-Derived Exosome-Based Materials for Biomedical Applications. , 2023, , 1-26.		0
3404	Prospective Advances of Extracellular Vesicles Investigation in Cardiovascular and Metabolic Research. Advances in Experimental Medicine and Biology, 2023, , 231-240.	0.8	0
3406	Theranostic Applications of Functionalized Exosomes. , 2023, , 271-297.		0
3411	Engineered Exosomes as Nano-Vectors against Neurodegenerative Disorders. , 2023, , 291-327.		1
3434	Extracellular Vesicles: The Challenges on the Way and Engineering Perspectives. , 2023, , 1-37.		0
3443	Application of exosomes as nanocarriers in cancer therapy. Journal of Materials Chemistry B, 0, , .	2.9	1

#	Article	IF	Citations
3445	Biological Methods for Drug Delivery. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2023, , 1-20.	0.7	0
3460	Role of Co-Block Polymers in the Treatment of Neurodegenerative Diseases. , 2023, , 143-179.		0
3469	Immunomodulation of Antiviral Response by Mesenchymal Stromal Cells (MSCs). , 0, , .		0
3473	Exosomes for CRISPR-Cas9 Delivery: The Cutting Edge in Genome Editing. Molecular Biotechnology, 0, , .	1.3	1
3499	Strategies for non-viral vectors targeting organs beyond the liver. Nature Nanotechnology, 0, , .	15.6	2
3516	Editorial: Genome-wide molecular mechanisms of substance use disorders. Frontiers in Psychiatry, 0, 14, .	1.3	0
3523	Engineered plant extracellular vesicles for natural delivery across physiological barriers. Food and Function, 2024, 15, 1737-1757.	2.1	0
3531	Exosome-based delivery systems for natural compounds in cancer therapy. , 2024, , 47-65.		0
3534	A novel therapeutic strategy: the significance of exosomal miRNAs in acute myeloid leukemia. , 2024, 41, .		0
3537	Connexin-Containing Vesicles for Drug Delivery. AAPS Journal, 2024, 26, .	2.2	0
3555	Huntington's disease: From large animal models to HD gene therapy. , 2024, , 455-472.		0
3564	Isolation of Extracellular Vesicles Using Formulas to Adapt Centrifugation to Different Centrifuges. Methods in Molecular Biology, 2024, , 39-48.	0.4	0
3566	Drug Delivery for Neurological Disorders Using Nanotechnology. , 2023, , 135-165.		0
3586	Cell-Derived Exosome-Based Materials for Biomedical Applications. , 2023, , 1-26.		0