

Extracellular vesicle in vivo biodistribution is determined by route of administration and targeting

Journal of Extracellular Vesicles

4, 26316

DOI: [10.3402/jev.v4.26316](https://doi.org/10.3402/jev.v4.26316)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Applying extracellular vesicles based therapeutics in clinical trials – an ISEV position paper. Journal of Extracellular Vesicles, 2015, 4, 30087.	5.5	1,020
2	Therapeutic potential of CAR-T cell-derived exosomes: a cell-free modality for targeted cancer therapy. Oncotarget, 2015, 6, 44179-44190.	0.8	106
3	Using exosomes, naturally-equipped nanocarriers, for drug delivery. Journal of Controlled Release, 2015, 219, 396-405.	4.8	760
4	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
5	A novel platform for cancer therapy using extracellular vesicles. Advanced Drug Delivery Reviews, 2015, 95, 50-55.	6.6	86
6	Towards Therapeutic Delivery of Extracellular Vesicles: Strategies for <i>In Vivo</i> Tracking and Biodistribution Analysis. Stem Cells International, 2016, 2016, 1-12.	1.2	109
7	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
8	Extracellular Vesicles and a Novel Form of Communication in the Brain. Frontiers in Neuroscience, 2016, 10, 127.	1.4	144
9	Efficient production and enhanced tumor delivery of engineered extracellular vesicles. Biomaterials, 2016, 105, 195-205.	5.7	286
10	Extracellular vesicles in renal tissue damage and regeneration. European Journal of Pharmacology, 2016, 790, 83-91.	1.7	63
11	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
12	Luminal Extracellular Vesicles (EVs) in Inflammatory Bowel Disease (IBD) Exhibit Proinflammatory Effects on Epithelial Cells and Macrophages. Inflammatory Bowel Diseases, 2016, 22, 1587-1595.	0.9	86
13	A novel multiplex bead-based platform highlights the diversity of extracellular vesicles. Journal of Extracellular Vesicles, 2016, 5, 29975.	5.5	218
14	Human vascular endothelial cells transport foreign exosomes from cow's milk by endocytosis. American Journal of Physiology - Cell Physiology, 2016, 310, C800-C807.	2.1	155
15	The potential of endurance exercise-derived exosomes to treat metabolic diseases. Nature Reviews Endocrinology, 2016, 12, 504-517.	4.3	313
16	The inhibitory effect of disulfiram encapsulated PLGA NPs on tumor growth: Different administration routes. Materials Science and Engineering C, 2016, 63, 587-595.	3.8	24
17	Illuminating the physiology of extracellular vesicles. Stem Cell Research and Therapy, 2016, 7, 55.	2.4	81
18	Exosome and polymersome for potential theranostic applications. Macromolecular Research, 2016, 24, 577-586.	1.0	5

#	ARTICLE	IF	CITATIONS
19	Circulating Plasma Extracellular Microvesicle MicroRNA Cargo and Endothelial Dysfunction in Children with Obstructive Sleep Apnea. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016, 194, 1116-1126.	2.5	109
20	Umbilical cord mesenchymal stem cells derived extracellular vesicles can safely ameliorate the progression of chronic kidney diseases. <i>Biomaterials Research</i> , 2016, 20, 21.	3.2	342
21	Therapeutic and diagnostic applications of extracellular vesicles. <i>Journal of Controlled Release</i> , 2016, 244, 167-183.	4.8	145
22	Detection of long non-coding RNAs in human breastmilk extracellular vesicles: Implications for early child development. <i>Epigenetics</i> , 2016, 11, 721-729.	1.3	83
23	Oncogene Knockdown via Active Loading of Small RNAs into Extracellular Vesicles by Sonication. <i>Cellular and Molecular Bioengineering</i> , 2016, 9, 315-324.	1.0	235
24	Human Mesenchymal Stem Cell-Derived Microvesicles Prevent the Rupture of Intracranial Aneurysm in Part by Suppression of Mast Cell Activation via a PGE2-Dependent Mechanism. <i>Stem Cells</i> , 2016, 34, 2943-2955.	1.4	54
25	In Vivo therapeutic potential of mesenchymal stem cell-derived extracellular vesicles with optical imaging reporter in tumor mice model. <i>Scientific Reports</i> , 2016, 6, 30418.	1.6	61
26	Translational radionanomedicine: a clinical perspective. <i>European Journal of Nanomedicine</i> , 2016, 8, 71-84.	0.6	14
27	The Biodistribution and Immune Suppressive Effects of Breast Cancer-Derived Exosomes. <i>Cancer Research</i> , 2016, 76, 6816-6827.	0.4	239
28	Radiolabeling of Extracellular Vesicles with ^{99m} Tc for Quantitative <i>In Vivo</i> Imaging Studies. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2016, 31, 168-173.	0.7	86
29	Intracellular and extracellular microRNA: An update on localization and biological role. <i>Progress in Histochemistry and Cytochemistry</i> , 2016, 51, 33-49.	5.1	189
30	Delivery of Therapeutic Proteins via Extracellular Vesicles: Review and Potential Treatments for Parkinson's Disease, Glioma, and Schwannoma. <i>Cellular and Molecular Neurobiology</i> , 2016, 36, 417-427.	1.7	87
31	Exosome-like vesicles released from lipid-induced insulin-resistant muscles modulate gene expression and proliferation of beta recipient cells in mice. <i>Diabetologia</i> , 2016, 59, 1049-1058.	2.9	144
32	Extracellular vesicles for drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2016, 106, 148-156.	6.6	866
33	Exosomes: Fundamental Biology and Roles in Cardiovascular Physiology. <i>Annual Review of Physiology</i> , 2016, 78, 67-83.	5.6	236
34	PEGylated and targeted extracellular vesicles display enhanced cell specificity and circulation time. <i>Journal of Controlled Release</i> , 2016, 224, 77-85.	4.8	402
35	Extracellular vesicles – new tool for joint repair and regeneration. <i>Nature Reviews Rheumatology</i> , 2016, 12, 243-249.	3.5	130
36	Development of exosome-encapsulated paclitaxel to overcome MDR in cancer cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 655-664.	1.7	991

#	ARTICLE	IF	CITATIONS
37	Designer exosomes as next-generation cancer immunotherapy. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 163-169.	1.7	91
38	Nutrition, microRNAs, and Human Health. <i>Advances in Nutrition</i> , 2017, 8, 105-112.	2.9	143
39	Extracellular vesicle docking at the cellular port: Extracellular vesicle binding and uptake. <i>Seminars in Cell and Developmental Biology</i> , 2017, 67, 48-55.	2.3	230
40	Disruption of Circulating Extracellular Vesicles as a Novel Therapeutic Strategy against Cancer Metastasis. <i>Molecular Therapy</i> , 2017, 25, 181-191.	3.7	164
41	Extracellular vesicles for nucleic acid delivery: progress and prospects for safe RNA-based gene therapy. <i>Gene Therapy</i> , 2017, 24, 157-166.	2.3	106
42	Going live with tumor exosomes and microvesicles. <i>Cell Adhesion and Migration</i> , 2017, 11, 173-186.	1.1	31
43	Extracellular vesicles in coronary artery disease. <i>Nature Reviews Cardiology</i> , 2017, 14, 259-272.	6.1	392
44	Dendritic cells derived exosomes migration to spleen and induction of inflammation are regulated by CCR7. <i>Scientific Reports</i> , 2017, 7, 42996.	1.6	56
45	Pharmacokinetics of Exosomes—An Important Factor for Elucidating the Biological Roles of Exosomes and for the Development of Exosome-Based Therapeutics. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 2265-2269.	1.6	157
46	A microRNA signature in circulating exosomes is superior to exosomal glypican-1 levels for diagnosing pancreatic cancer. <i>Cancer Letters</i> , 2017, 393, 86-93.	3.2	276
47	Extracellular Vesicles in Angiogenesis. <i>Circulation Research</i> , 2017, 120, 1658-1673.	2.0	455
48	CD63-Mediated Antigen Delivery into Extracellular Vesicles via DNA Vaccination Results in Robust CD8+ T Cell Responses. <i>Journal of Immunology</i> , 2017, 198, 4707-4715.	0.4	45
49	Therapeutic targeting strategies using endogenous cells and proteins. <i>Journal of Controlled Release</i> , 2017, 258, 81-94.	4.8	31
50	Augmented liver targeting of exosomes by surface modification with cationized pullulan. <i>Acta Biomaterialia</i> , 2017, 57, 274-284.	4.1	132
51	Imaging and Therapeutic Potential of Extracellular Vesicles. , 2017, , 43-68.		8
52	Dendritic Cell-derived Extracellular Vesicles mediate Mesenchymal Stem/Stromal Cell recruitment. <i>Scientific Reports</i> , 2017, 7, 1667.	1.6	62
53	Exosomes in Cancer Nanomedicine and Immunotherapy: Prospects and Challenges. <i>Trends in Biotechnology</i> , 2017, 35, 665-676.	4.9	313
54	In vivo targets of human placental micro-vesicles vary with exposure time and pregnancy. <i>Reproduction</i> , 2017, 153, 835-845.	1.1	38

#	ARTICLE	IF	CITATIONS
55	Magnetic and Folate Functionalization Enables Rapid Isolation and Enhanced Tumor-Targeting of Cell-Derived Microvesicles. <i>ACS Nano</i> , 2017, 11, 277-290.	7.3	130
56	<i>In Vivo</i> Neuroimaging of Exosomes Using Gold Nanoparticles. <i>ACS Nano</i> , 2017, 11, 10883-10893.	7.3	290
57	Therapeutic application of extracellular vesicles in kidney disease: promises and challenges. <i>Journal of Cellular and Molecular Medicine</i> , 2018, 22, 728-737.	1.6	62
58	Placental Nano-vesicles Target to Specific Organs and Modulate Vascular Tone <i>In Vivo</i> . <i>Human Reproduction</i> , 2017, 32, 2188-2198.	0.4	49
59	Fluorescence labelling of extracellular vesicles using a novel thiol-based strategy for quantitative analysis of cellular delivery and intracellular traffic. <i>Nanoscale</i> , 2017, 9, 13693-13706.	2.8	83
60	Therapeutic Applications of Extracellular Vesicles: Perspectives from Newborn Medicine. <i>Methods in Molecular Biology</i> , 2017, 1660, 409-432.	0.4	26
61	Extracellular vesicles from mesenchymal stem cells activates VEGF receptors and accelerates recovery of hindlimb ischemia. <i>Journal of Controlled Release</i> , 2017, 264, 112-126.	4.8	164
62	Reproducible and scalable purification of extracellular vesicles using combined bind-elute and size exclusion chromatography. <i>Scientific Reports</i> , 2017, 7, 11561.	1.6	168
63	Tumour-bound RNA-laden exosomes. <i>Nature Biomedical Engineering</i> , 2017, 1, 634-636.	11.6	14
64	Mesenchymal stem/stromal cell extracellular vesicles: From active principle to next generation drug delivery system. <i>Journal of Controlled Release</i> , 2017, 262, 104-117.	4.8	121
65	Recent advances on extracellular vesicles in therapeutic delivery: Challenges, solutions, and opportunities. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 119, 381-395.	2.0	45
66	Extracellular vesicles derived from MSCs activates dermal papilla cell <i>in vitro</i> and promotes hair follicle conversion from telogen to anagen in mice. <i>Scientific Reports</i> , 2017, 7, 15560.	1.6	123
67	The Biology of Cancer Exosomes: Insights and New Perspectives. <i>Cancer Research</i> , 2017, 77, 6480-6488.	0.4	428
68	Crosstalk of Nanosystems Induced Extracellular Vesicles as Promising Tools in Biomedical Applications. <i>Journal of Membrane Biology</i> , 2017, 250, 605-616.	1.0	8
69	Exosomes: novel regulators of bone remodelling and potential therapeutic agents for orthodontics. <i>Orthodontics and Craniofacial Research</i> , 2017, 20, 95-99.	1.2	40
70	Exosomes: promising sacks for treating ischemic heart disease?. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 313, H508-H523.	1.5	27
71	Macrophage exosomes as natural nanocarriers for protein delivery to inflamed brain. <i>Biomaterials</i> , 2017, 142, 1-12.	5.7	411
72	Comprehensive toxicity and immunogenicity studies reveal minimal effects in mice following sustained dosing of extracellular vesicles derived from HEK293T cells. <i>Journal of Extracellular Vesicles</i> , 2017, 6, 1324730.	5.5	357

#	ARTICLE	IF	CITATIONS
73	Protein and Molecular Characterization of a Clinically Compliant Amniotic Fluid Stem Cell-Derived Extracellular Vesicle Fraction Capable of Accelerating Muscle Regeneration Through Enhancement of Angiogenesis. <i>Stem Cells and Development</i> , 2017, 26, 1316-1333.	1.1	42
74	Targeting dendritic cells for the treatment of autoimmune disorders. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 158, 237-248.	2.5	20
75	The emergent role of exosomes in glioma. <i>Journal of Clinical Neuroscience</i> , 2017, 35, 13-23.	0.8	115
76	Extracellular Vesicles: Novel Mediators of Cell Communication In Metabolic Disease. <i>Trends in Endocrinology and Metabolism</i> , 2017, 28, 3-18.	3.1	268
77	Biological Activities of Extracellular Vesicles and Their Cargos from Bovine and Human Milk in Humans and Implications for Infants. <i>Journal of Nutrition</i> , 2017, 147, 3-10.	1.3	224
78	Role of Phosphatidylserine-Derived Negative Surface Charges in the Recognition and Uptake of Intravenously Injected B16BL6-Derived Exosomes by Macrophages. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 168-175.	1.6	145
79	Cell type-specific and common characteristics of exosomes derived from mouse cell lines: Yield, physicochemical properties, and pharmacokinetics. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 96, 316-322.	1.9	196
80	Converting Red Blood Cells to Efficient Microreactors for Blood Detoxification. <i>Advanced Materials</i> , 2017, 29, 1603673.	11.1	15
81	Syncytiotrophoblast extracellular vesicles “ Circulating biopsies reflecting placental health. <i>Placenta</i> , 2017, 52, 134-138.	0.7	86
82	Extracellular Vesicles: Immunomodulatory messengers in the context of tissue repair/regeneration. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 98, 86-95.	1.9	87
83	Formidable challenges to the notion of biologically important roles for dietary small RNAs in ingesting mammals. <i>Genes and Nutrition</i> , 2017, 12, 13.	1.2	18
84	Animal Models in Exosomes Research: What the Future Holds. , 0, , .		4
85	Cross-talk Between Hypoxia and the Tumour via Exosomes. , 2017, , .		0
86	Exosomes: A Rising Star in Failing Hearts. <i>Frontiers in Physiology</i> , 2017, 8, 494.	1.3	46
87	Extracellular Vesicles in Cardiovascular Theranostics. <i>Theranostics</i> , 2017, 7, 4168-4182.	4.6	108
88	Microvesicles in Atherosclerosis and Angiogenesis: From Bench to Bedside and Reverse. <i>Frontiers in Cardiovascular Medicine</i> , 2017, 4, 77.	1.1	61
89	Diverging Concepts and Novel Perspectives in Regenerative Medicine. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1021.	1.8	16
90	Extracellular Vesicles in Hematological Malignancies: From Biology to Therapy. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1183.	1.8	31

#	ARTICLE	IF	CITATIONS
91	The Emerging Roles of Extracellular Vesicles As Communication Vehicles within the Tumor Microenvironment and Beyond. <i>Frontiers in Endocrinology</i> , 2017, 8, 194.	1.5	78
92	Plasma Extracellular Vesicles Enriched for Neuronal Origin: A Potential Window into Brain Pathologic Processes. <i>Frontiers in Neuroscience</i> , 2017, 11, 278.	1.4	299
93	Delivery of Biomolecules via Extracellular Vesicles. <i>Advances in Genetics</i> , 2017, 98, 155-175.	0.8	20
94	Current Perspectives on In Vivo Noninvasive Tracking of Extracellular Vesicles with Molecular Imaging. <i>BioMed Research International</i> , 2017, 2017, 1-11.	0.9	94
95	Fluorescence Cancer Imaging. , 2017, , 469-490.		1
96	Extracellular Vesicles From Mesenchymal Stem Cells and Their Potential in Tumor Therapy. , 2017, , 521-549.		0
97	Extracellular vesicles and cardiovascular disease therapy. <i>Stem Cell Investigation</i> , 2017, 4, 102-102.	1.3	19
98	Engineering of extracellular vesicles as drug delivery vehicles. <i>Stem Cell Investigation</i> , 2017, 4, 74-74.	1.3	54
99	Engineering Extracellular Vesicles with the Tools of Enzyme Prodrug Therapy. <i>Advanced Materials</i> , 2018, 30, e1706616.	11.1	77
100	Extracellular vesicles as a platform for membrane-associated therapeutic protein delivery. <i>Journal of Extracellular Vesicles</i> , 2018, 7, 1440131.	5.5	168
101	Bio-inspired drug delivery systems: an emerging platform for targeted cancer therapy. <i>Biomaterials Science</i> , 2018, 6, 958-973.	2.6	86
102	Exosomes and Ectosomes in Intercellular Communication. <i>Current Biology</i> , 2018, 28, R435-R444.	1.8	600
103	Glycosylated extracellular vesicles released by glioblastoma cells are decorated by CCL18 allowing for cellular uptake via chemokine receptor CCR8. <i>Journal of Extracellular Vesicles</i> , 2018, 7, 1446660.	5.5	64
104	Designer exosomes produced by implanted cells intracerebrally deliver therapeutic cargo for Parkinson's disease treatment. <i>Nature Communications</i> , 2018, 9, 1305.	5.8	451
105	Traumatic Brain Injury-Induced Acute Lung Injury: Evidence for Activation and Inhibition of a Neural-Respiratory-Inflammasome Axis. <i>Journal of Neurotrauma</i> , 2018, 35, 2067-2076.	1.7	68
106	Human Neural Stem Cell Extracellular Vesicles Improve Recovery in a Porcine Model of Ischemic Stroke. <i>Stroke</i> , 2018, 49, 1248-1256.	1.0	162
107	Facile metabolic glycan labeling strategy for exosome tracking. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 1091-1100.	1.1	62
108	Comparative evaluation of cell- and serum-derived exosomes to deliver immune stimulators to lymph nodes. <i>Biomaterials</i> , 2018, 162, 71-81.	5.7	37

#	ARTICLE	IF	CITATIONS
109	Human Neural Stem Cell Extracellular Vesicles Improve Tissue and Functional Recovery in the Murine Thromboembolic Stroke Model. <i>Translational Stroke Research</i> , 2018, 9, 530-539.	2.3	200
110	Microglia-derived extracellular vesicles in Alzheimer's Disease: A double-edged sword. <i>Biochemical Pharmacology</i> , 2018, 148, 184-192.	2.0	85
111	Extracellular Vesicles Provide a Means for Tissue Crosstalk during Exercise. <i>Cell Metabolism</i> , 2018, 27, 237-251.e4.	7.2	426
112	Functionalized extracellular vesicles as advanced therapeutic nanodelivery systems. <i>European Journal of Pharmaceutical Sciences</i> , 2018, 121, 34-46.	1.9	36
113	Therapeutic Potential of Engineered Extracellular Vesicles. <i>AAPS Journal</i> , 2018, 20, 50.	2.2	144
114	A pharmaceutical investigation into exosomes. <i>Journal of Pharmaceutical Investigation</i> , 2018, 48, 617-626.	2.7	14
115	Exosomes as Mediators of the Systemic Adaptations to Endurance Exercise. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2018, 8, a029827.	2.9	136
116	Osteoblast-Derived Extracellular Vesicles Are Biological Tools for the Delivery of Active Molecules to Bone. <i>Journal of Bone and Mineral Research</i> , 2018, 33, 517-533.	3.1	105
117	Extracellular vesicles isolated from human renal cell carcinoma tissues disrupt vascular endothelial cell morphology via azurocidin. <i>International Journal of Cancer</i> , 2018, 142, 607-617.	2.3	57
118	Surface functionalized exosomes as targeted drug delivery vehicles for cerebral ischemia therapy. <i>Biomaterials</i> , 2018, 150, 137-149.	5.7	739
119	Nanoparticle orientation to control RNA loading and ligand display on extracellular vesicles for cancer regression. <i>Nature Nanotechnology</i> , 2018, 13, 82-89.	15.6	352
120	Technical challenges of working with extracellular vesicles. <i>Nanoscale</i> , 2018, 10, 881-906.	2.8	366
121	Functional role of extracellular vesicles and lipoproteins in the tumour microenvironment. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20160480.	1.8	44
122	On the use of liposome controls in studies investigating the clinical potential of extracellular vesicle-based drug delivery systems – A commentary. <i>Journal of Controlled Release</i> , 2018, 269, 10-14.	4.8	66
123	Development of exosome-based DDS targeting gastrointestinal cancer. <i>Drug Delivery System</i> , 2018, 33, 372-376.	0.0	0
124	Updated Progress of Nanocarrier-Based Intranasal Drug Delivery Systems for Treatment of Brain Diseases. <i>Critical Reviews in Therapeutic Drug Carrier Systems</i> , 2018, 35, 433-467.	1.2	66
125	Hypoxia-elicited mesenchymal stem cell-derived exosomes facilitates cardiac repair through miR-125b-mediated prevention of cell death in myocardial infarction. <i>Theranostics</i> , 2018, 8, 6163-6177.	4.6	341
126	Imaging extracellular vesicles: current and emerging methods. <i>Journal of Biomedical Science</i> , 2018, 25, 91.	2.6	224

#	ARTICLE	IF	CITATIONS
127	Therapeutic Potential of Extracellular Vesicles for Demyelinating Diseases; Challenges and Opportunities. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 434.	1.4	33
128	Exosomes and miRNA-Loaded Biomimetic Nanovehicles, a Focus on Their Potentials Preventing Type-2 Diabetes Linked to Metabolic Syndrome. <i>Frontiers in Immunology</i> , 2018, 9, 2711.	2.2	61
129	Preparation of Exosomes for siRNA Delivery to Cancer Cells. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	69
130	A Promising Biocompatible Platform: Lipid-Based and Bio-Inspired Smart Drug Delivery Systems for Cancer Therapy. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3859.	1.8	45
131	Delivery of an Artificial Transcription Regulator dCas9-VPR by Extracellular Vesicles for Therapeutic Gene Activation. <i>ACS Synthetic Biology</i> , 2018, 7, 2715-2725.	1.9	43
132	Exosomes: natural nanoparticles as bio shuttles for RNAi delivery. <i>Journal of Controlled Release</i> , 2018, 289, 158-170.	4.8	57
133	Exosomes as adjuvants for the recombinant hepatitis B antigen: First report. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 133, 1-11.	2.0	39
134	Stem Cell Therapy in Cerebrovascular Disease. <i>Current Treatment Options in Neurology</i> , 2018, 20, 49.	0.7	6
135	New Optical Imaging Reporter-labeled Anaplastic Thyroid Cancer-Derived Extracellular Vesicles as a Platform for In Vivo Tumor Targeting in a Mouse Model. <i>Scientific Reports</i> , 2018, 8, 13509.	1.6	17
136	Systemic Administration and Targeted Delivery of Immunogenic Oncolytic Adenovirus Encapsulated in Extracellular Vesicles for Cancer Therapies. <i>Viruses</i> , 2018, 10, 558.	1.5	73
137	The Role of Natural-Based Biomaterials in Advanced Therapies for Autoimmune Diseases. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1077, 127-146.	0.8	2
138	A New Approach for Loading Anticancer Drugs Into Mesenchymal Stem Cell-Derived Exosome Mimetics for Cancer Therapy. <i>Frontiers in Pharmacology</i> , 2018, 9, 1116.	1.6	179
139	Extracellular Vesicle Characteristics in β -thalassemia as Potential Biomarkers for Spleen Functional Status and Ineffective Erythropoiesis. <i>Frontiers in Physiology</i> , 2018, 9, 1214.	1.3	24
140	Therapeutic potential of extracellular vesicles derived from human mesenchymal stem cells in a model of progressive multiple sclerosis. <i>PLoS ONE</i> , 2018, 13, e0202590.	1.1	119
141	Exosome Research and Co-culture Study. <i>Biological and Pharmaceutical Bulletin</i> , 2018, 41, 1311-1321.	0.6	22
142	In Vivo Tracking of Multiple Tumor Exosomes Labeled by Phospholipid-Based Bioorthogonal Conjugation. <i>Analytical Chemistry</i> , 2018, 90, 11273-11279.	3.2	37
143	Role of T cell-derived exosomes in immunoregulation. <i>Immunologic Research</i> , 2018, 66, 313-322.	1.3	53
144	Exosomes as a Drug Delivery System in Cancer Therapy: Potential and Challenges. <i>Molecular Pharmaceutics</i> , 2018, 15, 3625-3633.	2.3	153

#	ARTICLE	IF	CITATIONS
145	Intricate relationships between naked viruses and extracellular vesicles in the crosstalk between pathogen and host. <i>Seminars in Immunopathology</i> , 2018, 40, 491-504.	2.8	35
146	Endogenous Radionanomedicine: Validation of Therapeutic Potential. <i>Biological and Medical Physics Series</i> , 2018, , 167-182.	0.3	1
147	Endogenous Radionanomedicine: Radiolabeling. <i>Biological and Medical Physics Series</i> , 2018, , 141-152.	0.3	0
148	Strategic design of extracellular vesicle drug delivery systems. <i>Advanced Drug Delivery Reviews</i> , 2018, 130, 12-16.	6.6	171
149	Emerging roles of extracellular vesicles in cardiac repair and rejuvenation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 315, H733-H744.	1.5	30
150	The functional role of exosome in hepatocellular carcinoma. <i>Journal of Cancer Research and Clinical Oncology</i> , 2018, 144, 2085-2095.	1.2	32
151	Therapeutic effects of adipose-tissue-derived mesenchymal stromal cells and their extracellular vesicles in experimental silicosis. <i>Respiratory Research</i> , 2018, 19, 104.	1.4	44
152	An Update on in Vivo Imaging of Extracellular Vesicles as Drug Delivery Vehicles. <i>Frontiers in Pharmacology</i> , 2018, 9, 169.	1.6	110
153	Human Mesenchymal Stem Cell Derived Exosomes Alleviate Type 2 Diabetes Mellitus by Reversing Peripheral Insulin Resistance and Relieving β -Cell Destruction. <i>ACS Nano</i> , 2018, 12, 7613-7628.	7.3	287
154	Milk exosomes are bioavailable and distinct microRNA cargos have unique tissue distribution patterns. <i>Scientific Reports</i> , 2018, 8, 11321.	1.6	288
155	Role of Extracellular Vesicles in Viral and Bacterial Infections: Pathogenesis, Diagnostics, and Therapeutics. <i>Theranostics</i> , 2018, 8, 2709-2721.	4.6	139
156	Exosomes derived from TRAIL-engineered mesenchymal stem cells with effective anti-tumor activity in a mouse melanoma model. <i>International Journal of Pharmaceutics</i> , 2018, 549, 218-229.	2.6	53
157	Janus-Faced Myeloid-Derived Suppressor Cell Exosomes for the Good and the Bad in Cancer and Autoimmune Disease. <i>Frontiers in Immunology</i> , 2018, 9, 137.	2.2	49
158	Systematic Methodological Evaluation of a Multiplex Bead-Based Flow Cytometry Assay for Detection of Extracellular Vesicle Surface Signatures. <i>Frontiers in Immunology</i> , 2018, 9, 1326.	2.2	168
159	Extracellular Vesicles From the Helminth <i>Fasciola hepatica</i> Prevent DSS-Induced Acute Ulcerative Colitis in a T-Lymphocyte Independent Mode. <i>Frontiers in Microbiology</i> , 2018, 9, 1036.	1.5	48
160	Therapeutic Efficacy-Potentiated and Diseased Organ-Targeting Nanovesicles Derived from Mesenchymal Stem Cells for Spinal Cord Injury Treatment. <i>Nano Letters</i> , 2018, 18, 4965-4975.	4.5	133
161	Targeting and Therapy of Glioblastoma in a Mouse Model Using Exosomes Derived From Natural Killer Cells. <i>Frontiers in Immunology</i> , 2018, 9, 824.	2.2	77
162	Mesenchymal stem cells-derived exosomes are more immunosuppressive than microparticles in inflammatory arthritis. <i>Theranostics</i> , 2018, 8, 1399-1410.	4.6	347

#	ARTICLE	IF	CITATIONS
163	In vivo evidence for the contribution of peripheral circulating inflammatory exosomes to neuroinflammation. <i>Journal of Neuroinflammation</i> , 2018, 15, 8.	3.1	150
164	Matrix Vesicles-Containing Microreactors as Support for Bonelike Osteoblasts to Enhance Biom mineralization. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30180-30190.	4.0	28
165	Skin cancer treatment effectiveness is improved by iontophoresis of EGFR-targeted liposomes containing 5-FU compared with subcutaneous injection. <i>Journal of Controlled Release</i> , 2018, 283, 151-162.	4.8	78
166	Possibility of Exosome-Based Therapeutics and Challenges in Production of Exosomes Eligible for Therapeutic Application. <i>Biological and Pharmaceutical Bulletin</i> , 2018, 41, 835-842.	0.6	206
167	Tumor-derived exosomes, microRNAs, and cancer immune suppression. <i>Seminars in Immunopathology</i> , 2018, 40, 505-515.	2.8	69
168	N-Glycosylation of Extracellular Vesicles from HEK-293 and Glioma Cell Lines. <i>Analytical Chemistry</i> , 2018, 90, 7871-7879.	3.2	42
169	Skeletal Muscle-Released Extracellular Vesicles: State of the Art. <i>Frontiers in Physiology</i> , 2019, 10, 929.	1.3	91
170	Extracellular Vesicles: Catching the Light in Zebrafish. <i>Trends in Cell Biology</i> , 2019, 29, 770-776.	3.6	38
171	Exosomes as Carriers for Antitumor Therapy. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 4870-4881.	2.6	22
172	MiR-126 Mediates Brain Endothelial Cell Exosome Treatment-Induced Neurorestorative Effects After Stroke in Type 2 Diabetes Mellitus Mice. <i>Stroke</i> , 2019, 50, 2865-2874.	1.0	110
173	Role of Horizontal Gene Transfer in Cancer Progression. , 2019, , 399-425.		0
174	Exosomes and Their Noncoding RNA Cargo Are Emerging as New Modulators for Diabetes Mellitus. <i>Cells</i> , 2019, 8, 853.	1.8	114
175	The Challenges and Possibilities of Extracellular Vesicles as Therapeutic Vehicles. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019, 144, 50-56.	2.0	44
176	Exosomes Engineered to Express a Cardiomyocyte Binding Peptide Demonstrate Improved Cardiac Retention in Vivo. <i>Scientific Reports</i> , 2019, 9, 10041.	1.6	150
177	Muscle-derived miR-34a increases with age in circulating extracellular vesicles and induces senescence of bone marrow stem cells. <i>Aging</i> , 2019, 11, 1791-1803.	1.4	119
178	Mesenchymal stem/stromal cell secretome for lung regeneration: The long way through pharmaceuticalization for the best formulation. <i>Journal of Controlled Release</i> , 2019, 309, 11-24.	4.8	78
179	Extracellular vesicles and their diagnostic potential in amyotrophic lateral sclerosis. <i>Clinica Chimica Acta</i> , 2019, 497, 27-34.	0.5	12
180	The relationship between molecular content of mesenchymal stem cells derived exosomes and their potentials: Opening the way for exosomes based therapeutics. <i>Biochimie</i> , 2019, 165, 76-89.	1.3	32

#	ARTICLE	IF	CITATIONS
181	The Effect of Triptolide-Loaded Exosomes on the Proliferation and Apoptosis of Human Ovarian Cancer SKOV3 Cells. <i>BioMed Research International</i> , 2019, 2019, 1-14.	0.9	50
182	Exosome-mediated therapeutic delivery: A new horizon for human neurodegenerative disordersâ€™ treatment (with a focus on siRNA delivery improvement). <i>Process Biochemistry</i> , 2019, 85, 164-174.	1.8	10
183	A positron-emission tomography (PET)/magnetic resonance imaging (MRI) platform to track <i>in vivo</i> small extracellular vesicles. <i>Nanoscale</i> , 2019, 11, 13243-13248.	2.8	40
184	Cell-free synthesis of connexin 43-integrated exosome-mimetic nanoparticles for siRNA delivery. <i>Acta Biomaterialia</i> , 2019, 96, 517-536.	4.1	44
185	Injectable Supramolecular Ureidopyrimidinone Hydrogels Provide Sustained Release of Extracellular Vesicle Therapeutics. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900847.	3.9	61
186	Aspirin-loaded nanoexosomes as cancer therapeutics. <i>International Journal of Pharmaceutics</i> , 2019, 572, 118786.	2.6	60
187	Biological membranes in EV biogenesis, stability, uptake, and cargo transfer: an ISEV position paper arising from the ISEV membranes and EVs workshop. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1684862.	5.5	177
188	Heterologous and cross-species tropism of cancer-derived extracellular vesicles. <i>Theranostics</i> , 2019, 9, 5681-5693.	4.6	48
189	Chemical Modulation of Bioengineered Exosomes for Tissueâ€™s Specific Biodistribution. <i>Advanced Therapeutics</i> , 2019, 2, 1900111.	1.6	26
190	Biodistribution of Mesenchymal Stem Cell-Derived Extracellular Vesicles in a Radiation Injury Bone Marrow Murine Model. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5468.	1.8	42
191	Hydrogel-Mediated Sustained Systemic Delivery of Mesenchymal Stem Cell-Derived Extracellular Vesicles Improves Hepatic Regeneration in Chronic Liver Failure. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37421-37433.	4.0	117
192	Journal of extracellular vesicles: the seven year itch!. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1654729.	5.5	15
193	Immunotherapy Based on Dendritic Cell-Targeted/-Derived Extracellular Vesiclesâ€™ A Novel Strategy for Enhancement of the Anti-tumor Immune Response. <i>Frontiers in Pharmacology</i> , 2019, 10, 1152.	1.6	76
194	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. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1663043.	5.5	96
195	Exploiting Exosomes in Cancer Liquid Biopsies and Drug Delivery. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801268.	3.9	94
196	Modification of the glycosylation of extracellular vesicles alters their biodistribution in mice. <i>Nanoscale</i> , 2019, 11, 1531-1537.	2.8	134
197	SNAP-25 in Serum Is Carried by Exosomes of Neuronal Origin and Is a Potential Biomarker of Alzheimerâ€™s Disease. <i>Molecular Neurobiology</i> , 2019, 56, 5792-5798.	1.9	78
198	Peptide-biofunctionalization of biomaterials for osteochondral tissue regeneration in early stage osteoarthritis: challenges and opportunities. <i>Journal of Materials Chemistry B</i> , 2019, 7, 1027-1044.	2.9	19

#	ARTICLE	IF	CITATIONS
199	Embryonic Stem Cellsâ€Derived Exosomes Endowed with Targeting Properties as Chemotherapeutics Delivery Vehicles for Glioblastoma Therapy. <i>Advanced Science</i> , 2019, 6, 1801899.	5.6	182
200	Stem cell exosomes inhibit angiogenesis and tumor growth of oral squamous cell carcinoma. <i>Scientific Reports</i> , 2019, 9, 663.	1.6	98
201	Stem Cell-Derived Exosomes as Nanotherapeutics for Autoimmune and Neurodegenerative Disorders. <i>ACS Nano</i> , 2019, 13, 6670-6688.	7.3	341
202	Systematic review of targeted extracellular vesicles for drug delivery â€ Considerations on methodological and biological heterogeneity. <i>Journal of Controlled Release</i> , 2019, 306, 108-120.	4.8	95
203	Involvement of Extracellular Vesicles in Vascular-Related Functions in Cancer Progression and Metastasis. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2584.	1.8	53
204	Mannoseâ€Modified Serum Exosomes for the Elevated Uptake to Murine Dendritic Cells and Lymphatic Accumulation. <i>Macromolecular Bioscience</i> , 2019, 19, e1900042.	2.1	70
205	Biodistribution of gadolinium- and near infrared-labeled human umbilical cord mesenchymal stromal cell-derived exosomes in tumor bearing mice. <i>Theranostics</i> , 2019, 9, 2325-2345.	4.6	93
206	M2 microglia-derived exosomes protect the mouse brain from ischemia-reperfusion injury via exosomal miR-124. <i>Theranostics</i> , 2019, 9, 2910-2923.	4.6	301
207	Intercellular Communication between Hepatic Cells in Liver Diseases. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2180.	1.8	48
208	Identification and Peptidomic Profiling of Exosomes in Preterm Human Milk: Insights Into Necrotizing Enterocolitis Prevention. <i>Molecular Nutrition and Food Research</i> , 2019, 63, e1801247.	1.5	65
209	Advances in therapeutic applications of extracellular vesicles. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	595
210	Exosomes as Therapeutic Vehicles for Cancer. <i>Tissue Engineering and Regenerative Medicine</i> , 2019, 16, 213-223.	1.6	51
211	Extracellular Vesicles as Biological Shuttles for Targeted Therapies. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1848.	1.8	60
212	Mesenchymal Stem Cell-Derived Extracellular Vesicles as Therapeutics and as a Drug Delivery Platform. <i>Stem Cells Translational Medicine</i> , 2019, 8, 880-886.	1.6	133
213	Ultrasensitive detection of cancer biomarkers by nickel-based isolation of polydisperse extracellular vesicles from blood. <i>EBioMedicine</i> , 2019, 43, 114-126.	2.7	40
214	Membrane Radiolabelling of Exosomes for Comparative Biodistribution Analysis in Immunocompetent and Immunodeficient Mice - A Novel and Universal Approach. <i>Theranostics</i> , 2019, 9, 1666-1682.	4.6	94
215	Serelaxin enhances the therapeutic effects of human amnion epithelial cellâ€derived exosomes in experimental models of lung disease. <i>British Journal of Pharmacology</i> , 2019, 176, 2195-2208.	2.7	27
216	Extracellular Vesicles as Novel Nanocarriers for Therapeutic Delivery. , 2019, , 391-407.		3

#	ARTICLE	IF	CITATIONS
217	Physical Structuring of Injectable Polymeric Systems to Controllably Deliver Nanosized Extracellular Vesicles. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801604.	3.9	27
218	Challenges and opportunities in exosome research—Perspectives from biology, engineering, and cancer therapy. <i>APL Bioengineering</i> , 2019, 3, 011503.	3.3	327
219	Extracellular vesicles induce minimal hepatotoxicity and immunogenicity. <i>Nanoscale</i> , 2019, 11, 6990-7001.	2.8	118
220	Harnessing Exosomes for the Development of Brain Drug Delivery Systems. <i>Bioconjugate Chemistry</i> , 2019, 30, 994-1005.	1.8	68
221	Extracellular vesicle-based therapeutics: natural versus engineered targeting and trafficking. <i>Experimental and Molecular Medicine</i> , 2019, 51, 1-12.	3.2	426
222	Pretreating Mesenchymal Stem Cells with Cancer Conditioned Media or Proinflammatory Cytokines Changes the Tumor and Immune Targeting by Nanoghosts Derived from these Cells. <i>Advanced Healthcare Materials</i> , 2019, 8, 1801589.	3.9	11
223	Exosomal delivery of doxorubicin enables rapid cell entry and enhanced in vitro potency. <i>PLoS ONE</i> , 2019, 14, e0214545.	1.1	121
224	Primed mesenchymal stem cells package exosomes with metabolites associated with immunomodulation. <i>Biochemical and Biophysical Research Communications</i> , 2019, 512, 729-735.	1.0	89
225	Mechanisms associated with biogenesis of exosomes in cancer. <i>Molecular Cancer</i> , 2019, 18, 52.	7.9	251
226	Exosomes from mesenchymal stem/stromal cells: a new therapeutic paradigm. <i>Biomarker Research</i> , 2019, 7, 8.	2.8	242
227	Optimisation of imaging flow cytometry for the analysis of single extracellular vesicles by using fluorescence-tagged vesicles as biological reference material. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1587567.	5.5	224
228	Biological properties of plant-derived extracellular vesicles. <i>Food and Function</i> , 2019, 10, 529-538.	2.1	116
229	Live Tracking of Inter-organ Communication by Endogenous Exosomes In Vivo. <i>Developmental Cell</i> , 2019, 48, 573-589.e4.	3.1	231
230	Mitochondrial Dysfunction and Aging: Insights from the Analysis of Extracellular Vesicles. <i>International Journal of Molecular Sciences</i> , 2019, 20, 805.	1.8	125
231	Cell membrane capsule: a novel natural tool for antitumour drug delivery. <i>Expert Opinion on Drug Delivery</i> , 2019, 16, 251-269.	2.4	11
232	Exosomes Derived From Bone Mesenchymal Stem Cells Ameliorate Early Inflammatory Responses Following Traumatic Brain Injury. <i>Frontiers in Neuroscience</i> , 2019, 13, 14.	1.4	140
233	Iron Oxide Labeling and Tracking of Extracellular Vesicles. <i>Magnetochemistry</i> , 2019, 5, 60.	1.0	13
234	Extracellular vesicle-based drug delivery systems for cancer treatment. <i>Theranostics</i> , 2019, 9, 8001-8017.	4.6	252

#	ARTICLE	IF	CITATIONS
235	<p>Extracellular Vesicles As Nanomedicine: Hopes And Hurdles In Clinical Translation</p>,. International Journal of Nanomedicine, 2019, Volume 14, 8847-8859.	3.3	72
236	Extracellular vesicles in chronic obstructive pulmonary disease (COPD). Journal of Thoracic Disease, 2019, 11, S2141-S2154.	0.6	36
237	Aptamer-functionalized exosomes from bone marrow stromal cells target bone to promote bone regeneration. Nanoscale, 2019, 11, 20884-20892.	2.8	164
238	Cross-Talk between Lipoproteins and Inflammation: The Role of Microvesicles. Journal of Clinical Medicine, 2019, 8, 2059.	1.0	12
239	Sustained Delivery System for Stem Cell-Derived Exosomes. Frontiers in Pharmacology, 2019, 10, 1368.	1.6	141
240	Cardiovascular morbidities of obstructive sleep apnea and the role of circulating extracellular vesicles. Therapeutic Advances in Respiratory Disease, 2019, 13, 175346661989522.	1.0	17
241	Macrophages in cardiac repair: Environmental cues and therapeutic strategies. Experimental and Molecular Medicine, 2019, 51, 1-10.	3.2	37
242	Addressing the Manufacturing Challenges of Cell-Based Therapies. Advances in Biochemical Engineering/Biotechnology, 2019, 171, 225-278.	0.6	14
243	<p>The Intracellular Delivery Of Anti-HPV16 E7 scFvs Through Engineered Extracellular Vesicles Inhibits The Proliferation Of HPV-Infected Cells</p>,. International Journal of Nanomedicine, 2019, Volume 14, 8755-8768.	3.3	18
244	Noninvasive Assessment of Exosome Pharmacokinetics In Vivo: A Review. Pharmaceutics, 2019, 11, 649.	2.0	30
245	Systemic Infusion of Expanded CD133 ⁺ Cells and Expanded CD133 ⁺ Cell-Derived EVs for the Treatment of Ischemic Cardiomyopathy in a Rat Model of AMI. Stem Cells International, 2019, 2019, 1-11.	1.2	8
246	Synthetic Biology: Engineering Mammalian Cells To Control Cell-Cell Communication at Will. ChemBioChem, 2019, 20, 994-1002.	1.3	17
247	Extracellular vesicles enhance the targeted delivery of immunogenic oncolytic adenovirus and paclitaxel in immunocompetent mice. Journal of Controlled Release, 2019, 294, 165-175.	4.8	93
248	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
249	Biomarkers for diseases with TDP-43 pathology. Molecular and Cellular Neurosciences, 2019, 97, 43-59.	1.0	38
250	Evaluation of different routes of administration and biodistribution of human amnion epithelial cells in mice. Cytotherapy, 2019, 21, 113-124.	0.3	13
251	Mesenchymal stem cell-based therapy for autoimmune diseases: emerging roles of extracellular vesicles. Molecular Biology Reports, 2019, 46, 1533-1549.	1.0	70
252	Extracellular Microvesicles as New Industrial Therapeutic Frontiers. Trends in Biotechnology, 2019, 37, 707-729.	4.9	141

#	ARTICLE	IF	CITATIONS
253	Exosomes in perspective: a potential surrogate for stem cell therapy. <i>Odontology / the Society of the Nippon Dental University</i> , 2019, 107, 271-284.	0.9	52
254	Exosome as a Novel Shuttle for Delivery of Therapeutics across Biological Barriers. <i>Molecular Pharmaceutics</i> , 2019, 16, 24-40.	2.3	163
255	Sexual dimorphism in inflammasome-containing extracellular vesicles and the regulation of innate immunity in the brain of reproductive senescent females. <i>Neurochemistry International</i> , 2019, 127, 29-37.	1.9	26
256	Exosomes and diabetes. <i>Diabetes/Metabolism Research and Reviews</i> , 2019, 35, e3107.	1.7	76
257	The Potential of Stem Cells and Stem Cell-Derived Exosomes in Treating Cardiovascular Diseases. <i>Journal of Cardiovascular Translational Research</i> , 2019, 12, 51-61.	1.1	16
258	Extracellular Vesicles: Mechanisms in Human Health and Disease. <i>Antioxidants and Redox Signaling</i> , 2019, 30, 813-856.	2.5	92
259	Influence of microRNAs and exosomes in muscle health and diseases. <i>Journal of Muscle Research and Cell Motility</i> , 2020, 41, 269-284.	0.9	12
260	Emerging therapeutic roles of exosomes in HIV-1 infection. , 2020, , 147-178.		6
261	Exosomes and cancer: From oncogenic roles to therapeutic applications. <i>IUBMB Life</i> , 2020, 72, 724-748.	1.5	47
262	Preclinical translation of exosomes derived from mesenchymal stem/stromal cells. <i>Stem Cells</i> , 2020, 38, 15-21.	1.4	148
263	Strategies for the use of Extracellular Vesicles for the Delivery of Therapeutics. <i>Journal of NeuroImmune Pharmacology</i> , 2020, 15, 422-442.	2.1	63
264	Extracellular Vesicles as Drug Delivery Vehicles to the Central Nervous System. <i>Journal of NeuroImmune Pharmacology</i> , 2020, 15, 443-458.	2.1	50
265	Extracellular vesicles as a novel therapeutic tool for cell-free regenerative medicine in oral rehabilitation. <i>Journal of Oral Rehabilitation</i> , 2020, 47, 29-54.	1.3	16
266	The potential of exosomes as theragnostics in various clinical situations. , 2020, , 467-486.		11
267	Decoding the Biology of Exosomes in Metastasis. <i>Trends in Cancer</i> , 2020, 6, 20-30.	3.8	46
268	Chemoenzymatic Labeling of Extracellular Vesicles for Visualizing Their Cellular Internalization in Real Time. <i>Analytical Chemistry</i> , 2020, 92, 2103-2111.	3.2	13
269	Biomimetic nanovesicles made from iPS cell-derived mesenchymal stem cells for targeted therapy of triple-negative breast cancer. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 24, 102146.	1.7	32
270	Intranasally Administered Human MSC-Derived Extracellular Vesicles Pervasively Incorporate into Neurons and Microglia in both Intact and Status Epilepticus Injured Forebrain. <i>International Journal of Molecular Sciences</i> , 2020, 21, 181.	1.8	71

#	ARTICLE	IF	CITATIONS
271	Extracellular blebs: Artificially-induced extracellular vesicles for facile production and clinical translation. <i>Methods</i> , 2020, 177, 135-145.	1.9	33
272	Use of lung-specific exosomes for miRNA-126 delivery in non-small cell lung cancer. <i>Nanoscale</i> , 2020, 12, 877-887.	2.8	146
273	Post-production modifications of murine mesenchymal stem cell (mMSC) derived extracellular vesicles (EVs) and impact on their cellular interaction. <i>Biomaterials</i> , 2020, 231, 119675.	5.7	59
274	Exosomes in disease and regeneration: biological functions, diagnostics, and beneficial effects. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 319, H1162-H1180.	1.5	32
275	Extracellular Vesicles as an Efficient and Versatile System for Drug Delivery. <i>Cells</i> , 2020, 9, 2191.	1.8	66
276	Physicochemical Characterization of Liposomes That Mimic the Lipid Composition of Exosomes for Effective Intracellular Trafficking. <i>Langmuir</i> , 2020, 36, 12735-12744.	1.6	30
277	Arming Mesenchymal Stromal/Stem Cells Against Cancer: Has the Time Come?. <i>Frontiers in Pharmacology</i> , 2020, 11, 529921.	1.6	17
278	Emerging strategies for labeling and tracking of extracellular vesicles. <i>Journal of Controlled Release</i> , 2020, 328, 141-159.	4.8	39
279	Use of Nanovesicles from Orange Juice to Reverse Diet-Induced Gut Modifications in Diet-Induced Obese Mice. <i>Molecular Therapy - Methods and Clinical Development</i> , 2020, 18, 880-892.	1.8	58
280	In vivo imaging of long-term accumulation of cancer-derived exosomes using a BRET-based reporter. <i>Scientific Reports</i> , 2020, 10, 16616.	1.6	17
281	Exosome engineering: Current progress in cargo loading and targeted delivery. <i>NanoImpact</i> , 2020, 20, 100261.	2.4	217
282	Extracellular vesicles: new players in regulating vascular barrier function. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 319, H1181-H1196.	1.5	36
283	Delivery of Long Non-coding RNA NEAT1 by Peripheral Blood Mononuclear Cells-Derived Exosomes Promotes the Occurrence of Rheumatoid Arthritis via the MicroRNA-23a/MDM2/SIRT6 Axis. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 551681.	1.8	35
284	Efficient encapsulation of biocompatible nanoparticles in exosomes for cancer theranostics. <i>Nano Today</i> , 2020, 35, 100964.	6.2	33
285	An Analysis of Mesenchymal Stem Cell-Derived Extracellular Vesicles for Preclinical Use. <i>ACS Nano</i> , 2020, 14, 9728-9743.	7.3	72
286	Extracellular vesicle-based Nanotherapeutics: Emerging frontiers in anti-inflammatory therapy. <i>Theranostics</i> , 2020, 10, 8111-8129.	4.6	67
287	Cancer Nanomedicine Special Issue Review Anticancer Drug Delivery with Nanoparticles: Extracellular Vesicles or Synthetic Nanobeads as Therapeutic Tools for Conventional Treatment or Immunotherapy. <i>Cancers</i> , 2020, 12, 1886.	1.7	19
288	Macrophage Exosomes Resolve Atherosclerosis by Regulating Hematopoiesis and Inflammation via MicroRNA Cargo. <i>Cell Reports</i> , 2020, 32, 107881.	2.9	130

#	ARTICLE	IF	CITATIONS
289	Tumor-Derived Extracellular Vesicles and the Immune System—Lessons From Immune-Competent Mouse-Tumor Models. <i>Frontiers in Immunology</i> , 2020, 11, 606859.	2.2	13
290	Cell Therapy With Human ESC-Derived Cardiac Cells: Clinical Perspectives. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 601560.	2.0	9
291	Emerging Roles of Exosomes in T1DM. <i>Frontiers in Immunology</i> , 2020, 11, 593348.	2.2	44
292	Extracellular Vesicles as Drug Delivery Systems in Cancer. <i>Pharmaceutics</i> , 2020, 12, 1146.	2.0	26
293	Immune Regulation by Dendritic Cell Extracellular Vesicles in Cancer Immunotherapy and Vaccines. <i>Cancers</i> , 2020, 12, 3558.	1.7	35
294	Extracellular Vesicle-Based Therapeutics: Preclinical and Clinical Investigations. <i>Pharmaceutics</i> , 2020, 12, 1171.	2.0	60
295	Extracellular Vesicle Membrane-Associated Proteins: Emerging Roles in Tumor Angiogenesis and Anti-Angiogenesis Therapy Resistance. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5418.	1.8	28
296	Biomimetic nanovesicle design for cardiac tissue repair. <i>Nanomedicine</i> , 2020, 15, 1873-1896.	1.7	14
297	Efficient Doxorubicin Loading to Isolated Dexosomes of Immature JAWSII Cells: Formulated and Characterized as the Bionanomaterial. <i>Materials</i> , 2020, 13, 3344.	1.3	6
298	Chimeric apoptotic bodies functionalized with natural membrane and modular delivery system for inflammation modulation. <i>Science Advances</i> , 2020, 6, eaba2987.	4.7	86
299	Small extracellular vesicles secreted by human iPSC-derived MSC enhance angiogenesis through inhibiting STAT3-dependent autophagy in ischemic stroke. <i>Stem Cell Research and Therapy</i> , 2020, 11, 313.	2.4	84
300	mTHPC-Loaded Extracellular Vesicles Significantly Improve mTHPC Diffusion and Photodynamic Activity in Preclinical Models. <i>Pharmaceutics</i> , 2020, 12, 676.	2.0	17
301	Insights into the Effects of Mesenchymal Stem Cell-Derived Secretome in Parkinson's Disease. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5241.	1.8	44
302	Microvesicles in Cancer: Small Size, Large Potential. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5373.	1.8	44
303	Mesenchymal stem cell-derived and siRNAs-encapsulated exosomes inhibit osteonecrosis of the femoral head. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 9605-9612.	1.6	9
304	Tracking of Tumor Cell-Derived Extracellular Vesicles In Vivo Reveals a Specific Distribution Pattern with Consecutive Biological Effects on Target Sites of Metastasis. <i>Molecular Imaging and Biology</i> , 2020, 22, 1501-1510.	1.3	13
305	Platelets Extracellular Vesicles as Regulators of Cancer Progression—An Updated Perspective. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5195.	1.8	35
306	Magnetic targeting enhances the cutaneous wound healing effects of human mesenchymal stem cell-derived iron oxide exosomes. <i>Journal of Nanobiotechnology</i> , 2020, 18, 113.	4.2	78

#	ARTICLE	IF	CITATIONS
307	Cancer therapy based on extracellular vesicles as drug delivery vehicles. <i>Journal of Controlled Release</i> , 2020, 327, 296-315.	4.8	47
308	Exploiting the Natural Properties of Extracellular Vesicles in Targeted Delivery towards Specific Cells and Tissues. <i>Pharmaceutics</i> , 2020, 12, 1022.	2.0	31
309	Anchor, Spacer, and Ligand-Modified Engineered Exosomes for Trackable Targeted Therapy. <i>Bioconjugate Chemistry</i> , 2020, 31, 2541-2552.	1.8	20
310	Live tracking of extracellular vesicles in larval zebrafish. <i>Methods in Enzymology</i> , 2020, 645, 243-275.	0.4	5
311	Experimental limitations of extracellular vesicle-based therapies for the treatment of myocardial infarction. <i>Trends in Cardiovascular Medicine</i> , 2020, 31, 405-415.	2.3	16
312	<p>Extracellular Vesicles â€“ Advanced Nanocarriers in Cancer Therapy: Progress and Achievements</p>. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 6485-6502.	3.3	38
313	Extracellular Vesicle-Dependent Cross-Talk in Cancerâ€™Focus on Pancreatic Cancer. <i>Frontiers in Oncology</i> , 2020, 10, 1456.	1.3	15
314	The evolving translational potential of small extracellular vesicles in cancer. <i>Nature Reviews Cancer</i> , 2020, 20, 697-709.	12.8	295
315	Chronic wounds: Current status, available strategies and emerging therapeutic solutions. <i>Journal of Controlled Release</i> , 2020, 328, 532-550.	4.8	151
316	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. <i>Journal of Extracellular Vesicles</i> , 2020, 9, 1809065.	5.5	47
317	Mesenchymal Stem Cell-Derived Extracellular Vesicles: Opportunities and Challenges for Clinical Translation. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 997.	2.0	94
318	Engineered Extracellular Vesicles: Tailored-Made Nanomaterials for Medical Applications. <i>Nanomaterials</i> , 2020, 10, 1838.	1.9	66
319	CAR (CARSKNKDC) Peptide Modified ReNcell-Derived Extracellular Vesicles as a Novel Therapeutic Agent for Targeted Pulmonary Hypertension Therapy. <i>Hypertension</i> , 2020, 76, 1147-1160.	1.3	19
320	Could Mesenchymal Stem Cell-Derived Exosomes Be a Therapeutic Option for Critically Ill COVID-19 Patients?. <i>Journal of Clinical Medicine</i> , 2020, 9, 2762.	1.0	20
321	Immune suppressed tumor microenvironment by exosomes derived from gastric cancer cells via modulating immune functions. <i>Scientific Reports</i> , 2020, 10, 14749.	1.6	44
322	Quantification of extracellular vesicles <i>in vitro</i> and <i>in vivo</i> using sensitive bioluminescence imaging. <i>Journal of Extracellular Vesicles</i> , 2020, 9, 1800222.	5.5	114
323	A combined â€œeat me/don't eat meâ€™strategy based on extracellular vesicles for anticancer nanomedicine. <i>Journal of Extracellular Vesicles</i> , 2020, 9, 1806444.	5.5	121
324	Independent Size and Fluorescence Emission Determination of Individual Biological Nanoparticles Reveals that Lipophilic Dye Incorporation Does Not Scale with Particle Size. <i>Langmuir</i> , 2020, 36, 9693-9700.	1.6	6

#	ARTICLE	IF	CITATIONS
325	Human ESCs EVs alleviate age-related bone loss by rejuvenating senescent bone marrow-derived mesenchymal stem cells. <i>Journal of Extracellular Vesicles</i> , 2020, 9, 1800971.	5.5	41
326	Exosome: A Novel Nanocarrier Delivering Noncoding RNA for Bone Tissue Engineering. <i>Journal of Nanomaterials</i> , 2020, 2020, 1-14.	1.5	5
327	Extracellular Vesicle Therapeutics in Regenerative Medicine. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1312, 131-138.	0.8	8
328	The Role of Exosomal Non-Coding RNAs in Coronary Artery Disease. <i>Frontiers in Pharmacology</i> , 2020, 11, 603104.	1.6	17
329	Extracellular Vesicles as Unique Signaling Messengers: Role in Lung Diseases. , 2020, 11, 1351-1369.		12
330	Targeted exosome coating gene-chem nanocomplex as "nanoscavenger" for clearing α -synuclein and immune activation of Parkinson's disease. <i>Science Advances</i> , 2020, 6, .	4.7	83
331	Tiny Actors in the Big Cellular World: Extracellular Vesicles Playing Critical Roles in Cancer. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7688.	1.8	12
332	Intracellular uptake of and sensing with SERS-active hybrid exosomes: insight into a role of metal nanoparticles. <i>Nanomedicine</i> , 2020, 15, 913-926.	1.7	15
333	Exploring the potential of engineered exosomes as delivery systems for tumor-suppressor microRNA replacement therapy in ovarian cancer. <i>Biochemical and Biophysical Research Communications</i> , 2020, 527, 153-161.	1.0	71
334	Exploration of small RNA biomarkers for testicular injury in the serum exosomes of rats. <i>Toxicology</i> , 2020, 440, 152490.	2.0	7
335	Native and bioengineered extracellular vesicles for cardiovascular therapeutics. <i>Nature Reviews Cardiology</i> , 2020, 17, 685-697.	6.1	228
336	The effects of umbilical cord-derived macrophage exosomes loaded with cisplatin on the growth and drug resistance of ovarian cancer cells. <i>Drug Development and Industrial Pharmacy</i> , 2020, 46, 1150-1162.	0.9	59
337	Isolation of Human Small Extracellular Vesicles and Tracking of Their Uptake by Retinal Pigment Epithelial Cells In Vitro. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3799.	1.8	4
338	Plasma-derived extracellular vesicles from <i>Plasmodium vivax</i> patients signal spleen fibroblasts via NF- κ B facilitating parasite cytoadherence. <i>Nature Communications</i> , 2020, 11, 2761.	5.8	56
339	Innovative Visualization and Quantification of Extracellular Vesicles Interaction with and Incorporation in Target Cells in 3D Microenvironments. <i>Cells</i> , 2020, 9, 1180.	1.8	14
340	Loading of metal isotope-containing intercalators for mass cytometry-based high-throughput quantitation of exosome uptake at the single-cell level. <i>Biomaterials</i> , 2020, 255, 120152.	5.7	15
341	Neuroprotection by curcumin: A review on brain delivery strategies. <i>International Journal of Pharmaceutics</i> , 2020, 585, 119476.	2.6	48
342	RNA delivery by extracellular vesicles in mammalian cells and its applications. <i>Nature Reviews Molecular Cell Biology</i> , 2020, 21, 585-606.	16.1	1,010

#	ARTICLE	IF	CITATIONS
343	ASC-Exosomes Ameliorate the Disease Progression in SOD1(G93A) Murine Model Underlining Their Potential Therapeutic Use in Human ALS. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3651.	1.8	61
344	The Role of Extracellular Vesicles in β -Cell Function and Viability: A Scoping Review. <i>Frontiers in Endocrinology</i> , 2020, 11, 375.	1.5	20
345	Brain Endothelial Cell-Derived Exosomes Induce Neuroplasticity in Rats with Ischemia/Reperfusion Injury. <i>ACS Chemical Neuroscience</i> , 2020, 11, 2201-2213.	1.7	31
346	High-throughput single-cell analysis of exosome mediated dual drug delivery, <i>in vivo</i> fate and synergistic tumor therapy. <i>Nanoscale</i> , 2020, 12, 13742-13756.	2.8	26
347	Targeted Delivery of Mesenchymal Stem Cell-Derived Nanovesicles for Spinal Cord Injury Treatment. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4185.	1.8	42
348	Extracellular Vesicles-Loaded Fibrin Gel Supports Rapid Neovascularization for Dental Pulp Regeneration. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4226.	1.8	29
349	Diagnostic and Therapeutic Applications of Exosomes in Cancer with a Special Focus on Head and Neck Squamous Cell Carcinoma (HNSCC). <i>International Journal of Molecular Sciences</i> , 2020, 21, 4344.	1.8	20
350	Extracellular Vesicles as Therapeutic Agents for Cardiac Fibrosis. <i>Frontiers in Physiology</i> , 2020, 11, 479.	1.3	23
351	Unique glycan and lipid composition of helminth-derived extracellular vesicles may reveal novel roles in host-parasite interactions. <i>International Journal for Parasitology</i> , 2020, 50, 647-654.	1.3	12
352	Design of experiment (DoE)-driven <i>in vitro</i> and <i>in vivo</i> uptake studies of exosomes for pancreatic cancer delivery enabled by copper-free click chemistry-based labelling. <i>Journal of Extracellular Vesicles</i> , 2020, 9, 1779458.	5.5	52
353	Therapeutic Advances of Stem Cell-Derived Extracellular Vesicles in Regenerative Medicine. <i>Cells</i> , 2020, 9, 707.	1.8	48
354	ESC-EVs Rejuvenate Senescent Hippocampal NSCs by Activating Lysosomes to Improve Cognitive Dysfunction in Vascular Dementia. <i>Advanced Science</i> , 2020, 7, 1903330.	5.6	26
355	MicroRNAs in bovine milk exosomes are bioavailable in humans but do not elicit a robust pro-inflammatory cytokine response. <i>ExRNA</i> , 2020, 2, .	1.0	21
356	Biomaterials Functionalized with MSC Secreted Extracellular Vesicles and Soluble Factors for Tissue Regeneration. <i>Advanced Functional Materials</i> , 2020, 30, 1909125.	7.8	204
357	Spatial and temporal tracking of cardiac exosomes in mouse using a nano-luciferase-CD63 fusion protein. <i>Communications Biology</i> , 2020, 3, 114.	2.0	52
358	Mesenchymal stem cell-derived magnetic extracellular nanovesicles for targeting and treatment of ischemic stroke. <i>Biomaterials</i> , 2020, 243, 119942.	5.7	176
359	^{99m} Tc-radiolabeled HER2 targeted exosome for tumor imaging. <i>European Journal of Pharmaceutical Sciences</i> , 2020, 148, 105312.	1.9	29
360	Reproductive tract extracellular vesicles are sufficient to transmit intergenerational stress and program neurodevelopment. <i>Nature Communications</i> , 2020, 11, 1499.	5.8	125

#	ARTICLE	IF	CITATIONS
361	The Uptake, Trafficking, and Biodistribution of Bacteroides thetaiotaomicron Generated Outer Membrane Vesicles. <i>Frontiers in Microbiology</i> , 2020, 11, 57.	1.5	107
362	Tumor cell-derived exosomes home to their cells of origin and can be used as Trojan horses to deliver cancer drugs. <i>Theranostics</i> , 2020, 10, 3474-3487.	4.6	226
363	Perspectives in Manipulating EVs for Therapeutic Applications: Focus on Cancer Treatment. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4623.	1.8	19
364	Extracellular Vesicles Derived From <i>Trichinella spiralis</i> Muscle Larvae Ameliorate TNBS-Induced Colitis in Mice. <i>Frontiers in Immunology</i> , 2020, 11, 1174.	2.2	44
365	The Impact of the Cancer Microenvironment on Macrophage Phenotypes. <i>Frontiers in Immunology</i> , 2020, 11, 1308.	2.2	21
366	Radioactive Labeling of Milk-Derived Exosomes with ^{99m} Tc and In Vivo Tracking by SPECT Imaging. <i>Nanomaterials</i> , 2020, 10, 1062.	1.9	41
367	Immunosuppressive properties of cytochalasin B-induced membrane vesicles of mesenchymal stem cells: comparing with extracellular vesicles derived from mesenchymal stem cells. <i>Scientific Reports</i> , 2020, 10, 10740.	1.6	34
368	Show Me Your Friends and I Tell You Who You Are: The Many Facets of Prion Protein in Stroke. <i>Cells</i> , 2020, 9, 1609.	1.8	6
369	The biology , function , and biomedical applications of exosomes. <i>Science</i> , 2020, 367, .	6.0	4,742
370	TNF-Î± and INF-Î³ primed canine stem cell-derived extracellular vesicles alleviate experimental murine colitis. <i>Scientific Reports</i> , 2020, 10, 2115.	1.6	41
371	Extracellular Vesicles: A New Frontier for Research in Acute Respiratory Distress Syndrome. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 63, 15-24.	1.4	48
372	Noble Metal-Assisted Surface Plasmon Resonance Immunosensors. <i>Sensors</i> , 2020, 20, 1003.	2.1	33
373	Altered biodistribution of deglycosylated extracellular vesicles through enhanced cellular uptake. <i>Journal of Extracellular Vesicles</i> , 2020, 9, 1713527.	5.5	58
374	Functional dosing of mesenchymal stromal cell-derived extracellular vesicles for the prevention of acute graft-versus-host-disease. <i>Stem Cells</i> , 2020, 38, 698-711.	1.4	48
375	Gold nanoparticle based double-labeling of melanoma extracellular vesicles to determine the specificity of uptake by cells and preferential accumulation in small metastatic lung tumors. <i>Journal of Nanobiotechnology</i> , 2020, 18, 20.	4.2	68
376	Advances in Analysis of Biodistribution of Exosomes by Molecular Imaging. <i>International Journal of Molecular Sciences</i> , 2020, 21, 665.	1.8	131
377	Effects of exosome-mediated delivery of myostatin propeptide on functional recovery of mdx mice. <i>Biomaterials</i> , 2020, 236, 119826.	5.7	58
378	Mirroring the injured heart with stem cell-derived exosomes: an emerging strategy of cell-free therapy. <i>Stem Cell Research and Therapy</i> , 2020, 11, 23.	2.4	105

#	ARTICLE	IF	CITATIONS
379	Repurposing Antiviral Protease Inhibitors Using Extracellular Vesicles for Potential Therapy of COVID-19. <i>Viruses</i> , 2020, 12, 486.	1.5	94
380	Extracellular vesicles for tumor targeting delivery based on five features principle. <i>Journal of Controlled Release</i> , 2020, 322, 555-565.	4.8	68
381	Prospects and challenges of extracellular vesicle-based drug delivery system: considering cell source. <i>Drug Delivery</i> , 2020, 27, 585-598.	2.5	295
382	Surface functionalization strategies of extracellular vesicles. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4552-4569.	2.9	57
383	Extracellular vesicles provide a capsid-free vector for oncolytic adenoviral DNA delivery. <i>Journal of Extracellular Vesicles</i> , 2020, 9, 1747206.	5.5	27
384	Extracellular vesicle-mediated nucleic acid transfer and reprogramming in the tumor microenvironment. <i>Cancer Letters</i> , 2020, 482, 33-43.	3.2	17
385	Therapeutic Application of Small Extracellular Vesicles (sEVs): Pharmaceutical and Pharmacokinetic Challenges. <i>Biological and Pharmaceutical Bulletin</i> , 2020, 43, 576-583.	0.6	17
386	Extracellular Vesicles in Smoking-Mediated HIV Pathogenesis and their Potential Role in Biomarker Discovery and Therapeutic Interventions. <i>Cells</i> , 2020, 9, 864.	1.8	8
387	Therapeutic Use of Extracellular Vesicles for Acute and Chronic Lung Disease. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2318.	1.8	63
388	Intracellular prodrug gene therapy for cancer mediated by tumor cell suicide gene exosomes. <i>International Journal of Cancer</i> , 2021, 148, 128-139.	2.3	17
389	Therapeutic application of extracellular vesicles for musculoskeletal repair & regeneration. <i>Connective Tissue Research</i> , 2021, 62, 99-114.	1.1	7
390	Extracellular vesicle-based therapeutics for the regeneration of chronic wounds: current knowledge and future perspectives. <i>Acta Biomaterialia</i> , 2021, 119, 42-56.	4.1	53
391	Mesenchymal stem cell-derived small extracellular vesicles and bone regeneration. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2021, 128, 18-36.	1.2	47
392	Extracellular vesicles in hepatology: Physiological role, involvement in pathogenesis, and therapeutic opportunities. , 2021, 218, 107683.		22
393	<i>Mycobacterium tuberculosis</i> extracellular vesicles: exploitation for vaccine technology and diagnostic methods. <i>Critical Reviews in Microbiology</i> , 2021, 47, 13-33.	2.7	17
394	Shedding Light on Extracellular Vesicle Biogenesis and Bioengineering. <i>Advanced Science</i> , 2021, 8, 2003505.	5.6	192
395	Intranasal administration of small extracellular vesicles derived from mesenchymal stem cells ameliorated the experimental autoimmune encephalomyelitis. <i>International Immunopharmacology</i> , 2021, 90, 107207.	1.7	37
396	Engineering approaches for effective therapeutic applications based on extracellular vesicles. <i>Journal of Controlled Release</i> , 2021, 330, 15-30.	4.8	45

#	ARTICLE	IF	CITATIONS
397	Pancreatic cancer-targeting exosomes for enhancing immunotherapy and reprogramming tumor microenvironment. <i>Biomaterials</i> , 2021, 268, 120546.	5.7	237
398	Extracellular Vesicles and Biomaterial Design: New Therapies for Cardiac Repair. <i>Trends in Molecular Medicine</i> , 2021, 27, 231-247.	3.5	31
399	A hypothesis-generating scoping review of miRs identified in both multiple sclerosis and dementia, their protein targets, and miR signaling pathways. <i>Journal of the Neurological Sciences</i> , 2021, 420, 117202.	0.3	16
400	Exosome-mediated delivery of kartogenin for chondrogenesis of synovial fluid-derived mesenchymal stem cells and cartilage regeneration. <i>Biomaterials</i> , 2021, 269, 120539.	5.7	184
401	Antigen presentation, autoantibody production, and therapeutic targets in autoimmune liver disease. <i>Cellular and Molecular Immunology</i> , 2021, 18, 92-111.	4.8	33
402	Heparan sulfate proteoglycan-mediated dynamin-dependent transport of neural stem cell exosomes in an in vitro blood-brain barrier model. <i>European Journal of Neuroscience</i> , 2021, 53, 706-719.	1.2	36
403	The promise of placental extracellular vesicles: models and challenges for diagnosing placental dysfunction in utero. <i>Biology of Reproduction</i> , 2021, 104, 27-57.	1.2	7
404	Extracellular Vesicles in Inflammatory Bowel Disease: Small Particles, Big Players. <i>Journal of Crohn's and Colitis</i> , 2021, 15, 499-510.	0.6	29
405	Therapeutic Applications of Stem Cells and Extracellular Vesicles in Emergency Care: Futuristic Perspectives. <i>Stem Cell Reviews and Reports</i> , 2021, 17, 390-410.	1.7	23
406	Extracellular vesicles in cancer nanomedicine. <i>Seminars in Cancer Biology</i> , 2021, 69, 212-225.	4.3	69
407	Radiolabelling of Extracellular Vesicles for PET and SPECT imaging. <i>Nanotheranostics</i> , 2021, 5, 256-274.	2.7	27
408	Exosome-mediated bioinspired drug delivery. , 2021, , 219-240.		0
409	Therapeutic application of exosomes in ischaemic stroke. <i>Stroke and Vascular Neurology</i> , 2021, 6, 483-495.	1.5	32
410	Therapeutic Potential of Nucleic Acids when Combined with Extracellular Vesicles. , 2021, 12, 1476.		12
411	Exosomal Long Non-Coding RNA: Interaction Between Cancer Cells and Non-Cancer Cells. <i>Frontiers in Oncology</i> , 2020, 10, 617837.	1.3	15
412	MSC Based Therapies to Prevent or Treat BPD—A Narrative Review on Advances and Ongoing Challenges. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1138.	1.8	12
413	Engineered versus hybrid cellular vesicles as efficient drug delivery systems: a comparative study with brain targeted vesicles. <i>Drug Delivery and Translational Research</i> , 2021, 11, 547-565.	3.0	10
414	Ultrasound-mediated augmented exosome release from astrocytes alleviates amyloid- β -induced neurotoxicity. <i>Theranostics</i> , 2021, 11, 4351-4362.	4.6	67

#	ARTICLE	IF	CITATIONS
415	Glia-Derived Extracellular Vesicles: Role in Central Nervous System Communication in Health and Disease. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 623771.	1.8	31
416	Promising Extracellular Vesicle-Based Vaccines against Viruses, Including SARS-CoV-2. <i>Biology</i> , 2021, 10, 94.	1.3	43
417	Isolation of extracellular vesicles from microalgae: towards the production of sustainable and natural nanocarriers of bioactive compounds. <i>Biomaterials Science</i> , 2021, 9, 2917-2930.	2.6	34
418	Targeted delivery of neural progenitor cell-derived extracellular vesicles for anti-inflammation after cerebral ischemia. <i>Theranostics</i> , 2021, 11, 6507-6521.	4.6	104
419	Selection of Fluorescent, Bioluminescent, and Radioactive Tracers to Accurately Reflect Extracellular Vesicle Biodistribution <i>in Vivo</i> . <i>ACS Nano</i> , 2021, 15, 3212-3227.	7.3	115
420	Exosomes in atherosclerosis: performers, bystanders, biomarkers, and therapeutic targets. <i>Theranostics</i> , 2021, 11, 3996-4010.	4.6	70
421	Extracellular vesicle mimics made from iPS cell-derived mesenchymal stem cells improve the treatment of metastatic prostate cancer. <i>Stem Cell Research and Therapy</i> , 2021, 12, 29.	2.4	31
422	Targeted delivery of extracellular vesicles in heart injury. <i>Theranostics</i> , 2021, 11, 2263-2277.	4.6	50
423	Engineering Extracellular Vesicles to Target Pancreatic Tissue <i>in Vivo</i> . <i>Nanotheranostics</i> , 2021, 5, 378-390.	2.7	19
424	The role of small extracellular vesicles in cerebral and myocardial ischemia—Molecular signals, treatment targets, and future clinical translation. <i>Stem Cells</i> , 2021, 39, 403-413.	1.4	25
425	Nose-to-brain drug delivery: Regulatory aspects, clinical trials, patents, and future perspectives. , 2021, , 495-522.		8
426	Extracellular Vesicle Transportation and Uptake by Recipient Cells: A Critical Process to Regulate Human Diseases. <i>Processes</i> , 2021, 9, 273.	1.3	53
427	Milk-derived extracellular vesicles alleviate ulcerative colitis by regulating the gut immunity and reshaping the gut microbiota. <i>Theranostics</i> , 2021, 11, 8570-8586.	4.6	105
428	Highly efficient magnetic labelling allows MRI tracking of the homing of stem cell-derived extracellular vesicles following systemic delivery. <i>Journal of Extracellular Vesicles</i> , 2021, 10, e12054.	5.5	43
429	Extracellular Vesicles and Exosomes: Insights From Exercise Science. <i>Frontiers in Physiology</i> , 2020, 11, 604274.	1.3	86
432	Therapeutic Features and Updated Clinical Trials of Mesenchymal Stem Cell (MSC)-Derived Exosomes. <i>Journal of Clinical Medicine</i> , 2021, 10, 711.	1.0	84
434	A Role for Extracellular Vesicles in SARS-CoV-2 Therapeutics and Prevention. <i>Journal of NeuroImmune Pharmacology</i> , 2021, 16, 270-288.	2.1	30
435	Exosomes: A new frontier under the spotlight for diagnosis and treatment of gastrointestinal diseases. <i>World Journal of Meta-analysis</i> , 2021, 9, 12-28.	0.1	0

#	ARTICLE	IF	CITATIONS
436	Mesenchymal stem cellâ€‘derived exosomes for organ development and cellâ€‘free therapy. <i>Nano Select</i> , 2021, 2, 1291-1325.	1.9	4
437	Targeting mesenchymal stem cell therapy for severe pneumonia patients. <i>World Journal of Stem Cells</i> , 2021, 13, 139-154.	1.3	4
438	A novel brain targeted plasma exosomes enhance the neuroprotective efficacy of edaravone in ischemic stroke. <i>IET Nanobiotechnology</i> , 2021, 15, 107-116.	1.9	9
439	Treatment of Oxidative Stress with Exosomes in Myocardial Ischemia. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1729.	1.8	20
440	Integrin Regulation in Immunological and Cancerous Cells and Exosomes. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2193.	1.8	26
441	An ultracentrifugation â€‘ hollow-fiber flow field-flow fractionation orthogonal approach for the purification and mapping of extracellular vesicle subtypes. <i>Journal of Chromatography A</i> , 2021, 1638, 461861.	1.8	24
442	Tissue Regeneration Capacity of Extracellular Vesicles Isolated From Bone Marrow-Derived and Adipose-Derived Mesenchymal Stromal/Stem Cells. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 648098.	1.8	29
443	Extracellular vesicles from recombinant cell factories improve the activity and efficacy of enzymes defective in lysosomal storage disorders. <i>Journal of Extracellular Vesicles</i> , 2021, 10, e12058.	5.5	19
444	Small extracellular vesicles derived from interferon- β pre-conditioned mesenchymal stromal cells effectively treat liver fibrosis. <i>Npj Regenerative Medicine</i> , 2021, 6, 19.	2.5	44
445	Exosome-Based Delivery of Natural Products in Cancer Therapy. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 650426.	1.8	50
446	Stem Cells-Derived Extracellular Vesicles: Potential Therapeutics for Wound Healing in Chronic Inflammatory Skin Diseases. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3130.	1.8	19
447	Bioorthogonally surfaceâ€‘edited extracellular vesicles based on metabolic glycoengineering for CD44â€‘mediated targeting of inflammatory diseases. <i>Journal of Extracellular Vesicles</i> , 2021, 10, e12077.	5.5	30
448	Strategies for delivering therapeutics across the bloodâ€‘brain barrier. <i>Nature Reviews Drug Discovery</i> , 2021, 20, 362-383.	21.5	417
450	Chemically Engineered Immune Cellâ€‘Derived Microrobots and Biomimetic Nanoparticles: Emerging Biodiagnostic and Therapeutic Tools. <i>Advanced Science</i> , 2021, 8, 2002499.	5.6	42
451	Native and Bioengineered Exosomes for Ischemic Stroke Therapy. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 619565.	1.8	41
452	Radiolabeled HER2-directed exosomes exhibit improved cell targeting and specificity. <i>Nanomedicine</i> , 2021, 16, 553-567.	1.7	5
453	An updated review on exosomes: biosynthesis to clinical applications. <i>Journal of Drug Targeting</i> , 2021, 29, 925-940.	2.1	20
454	Proteomic Characterization, Biodistribution, and Functional Studies of Immune-Therapeutic Exosomes: Implications for Inflammatory Lung Diseases. <i>Frontiers in Immunology</i> , 2021, 12, 636222.	2.2	13

#	ARTICLE	IF	CITATIONS
455	Co-delivery of curcumin and miRNA-144-3p using heart-targeted extracellular vesicles enhances the therapeutic efficacy for myocardial infarction. <i>Journal of Controlled Release</i> , 2021, 331, 62-73.	4.8	41
456	Stem Cell-Derived Exosomes: a New Strategy of Neurodegenerative Disease Treatment. <i>Molecular Neurobiology</i> , 2021, 58, 3494-3514.	1.9	60
457	Small Extracellular Vesicles: A Novel Avenue for Cancer Management. <i>Frontiers in Oncology</i> , 2021, 11, 638357.	1.3	34
458	Eating microRNAs: pharmacological opportunities for cross-kingdom regulation and implications in host gene and gut microbiota modulation. <i>British Journal of Pharmacology</i> , 2021, 178, 2218-2245.	2.7	53
459	Therapeutic Potential of Extracellular Vesicles for Sepsis Treatment. <i>Advanced Therapeutics</i> , 2021, 4, 2000259.	1.6	14
460	ExoSTING, an extracellular vesicle loaded with STING agonists, promotes tumor immune surveillance. <i>Communications Biology</i> , 2021, 4, 497.	2.0	73
461	Extracellular vesicles from dHL-60 cells as delivery vehicles for diverse therapeutics. <i>Scientific Reports</i> , 2021, 11, 8289.	1.6	6
462	Endothelial Extracellular Vesicles: From Keepers of Health to Messengers of Disease. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4640.	1.8	39
463	Circulating extracellular vesicles induce monocyte dysfunction and are associated with sepsis and high mortality in cirrhosis. <i>Liver International</i> , 2021, 41, 1614-1628.	1.9	5
464	The role and application of small extracellular vesicles in gastric cancer. <i>Molecular Cancer</i> , 2021, 20, 71.	7.9	51
465	Biomaterial-based extracellular vesicle delivery for therapeutic applications. <i>Acta Biomaterialia</i> , 2021, 124, 88-107.	4.1	35
466	In vivo organized neovascularization induced by 3D bioprinted endothelial-derived extracellular vesicles. <i>Biofabrication</i> , 2021, 13, 035014.	3.7	21
467	Cellular signaling cross-talk between different cardiac cell populations: an insight into the role of exosomes in the heart diseases and therapy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 320, H1213-H1234.	1.5	18
468	The Emerging World of Membrane Vesicles: Functional Relevance, Theranostic Avenues and Tools for Investigating Membrane Function. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 640355.	1.6	15
469	Natural Killer Cell-Derived Extracellular Vesicles: Novel Players in Cancer Immunotherapy. <i>Frontiers in Immunology</i> , 2021, 12, 658698.	2.2	36
470	A Chemically Defined, Xeno- and Blood-Free Culture Medium Sustains Increased Production of Small Extracellular Vesicles From Mesenchymal Stem Cells. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 619930.	2.0	7
471	Therapeutic role of extracellular vesicles derived from stem cells in cutaneous wound models: A systematic review. <i>Life Sciences</i> , 2021, 273, 119271.	2.0	12
472	From Exosome Glycobiology to Exosome Glycotechnology, the Role of Natural Occurring Polysaccharides. <i>Polysaccharides</i> , 2021, 2, 311-338.	2.1	3

#	ARTICLE	IF	CITATIONS
473	Extracellular Vesicles for the Treatment of Radiation Injuries. <i>Frontiers in Pharmacology</i> , 2021, 12, 662437.	1.6	7
474	Hydrogel-Assisted 3D Model to Investigate the Osteoinductive Potential of MC3T3-Derived Extracellular Vesicles. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 2687-2700.	2.6	16
475	Mesenchymal stem cell-derived extracellular vesicles in the failing heart: past, present, and future. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 320, H1999-H2010.	1.5	18
476	Apoptotic vesicles restore liver macrophage homeostasis to counteract type 2 diabetes. <i>Journal of Extracellular Vesicles</i> , 2021, 10, e12109.	5.5	90
477	Liposomes and Extracellular Vesicles as Drug Delivery Systems: A Comparison of Composition, Pharmacokinetics, and Functionalization. <i>Advanced Healthcare Materials</i> , 2022, 11, e2100639.	3.9	142
478	Immunomodulatory Effect of Serum Exosomes From Crohn Disease on Macrophages via Let-7b-5p/TLR4 Signaling. <i>Inflammatory Bowel Diseases</i> , 2021, , .	0.9	11
479	Metabolically engineered stem cell-derived exosomes to regulate macrophage heterogeneity in rheumatoid arthritis. <i>Science Advances</i> , 2021, 7, .	4.7	100
480	Extracellular Vesicles and Hematopoietic Stem Cell Aging. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021, 41, e399-e416.	1.1	4
481	Approaches to surface engineering of extracellular vesicles. <i>Advanced Drug Delivery Reviews</i> , 2021, 173, 416-426.	6.6	87
482	Engineered EV-Mimetic Nanoparticles as Therapeutic Delivery Vehicles for High-Grade Serous Ovarian Cancer. <i>Cancers</i> , 2021, 13, 3075.	1.7	11
484	Exploring interactions between extracellular vesicles and cells for innovative drug delivery system design. <i>Advanced Drug Delivery Reviews</i> , 2021, 173, 252-278.	6.6	55
485	Biodistribution of extracellular vesicles following administration into animals: A systematic review. <i>Journal of Extracellular Vesicles</i> , 2021, 10, e12085.	5.5	158
486	Targeted extracellular vesicle delivery systems employing superparamagnetic iron oxide nanoparticles. <i>Acta Biomaterialia</i> , 2021, 134, 13-31.	4.1	35
488	Genetically engineered exosomes display RVG peptide and selectively enrich a neprilysin variant: a potential formulation for the treatment of Alzheimer's disease. <i>Journal of Drug Targeting</i> , 2021, 29, 1128-1138.	2.1	18
489	Biodistribution of Exosomes and Engineering Strategies for Targeted Delivery of Therapeutic Exosomes. <i>Tissue Engineering and Regenerative Medicine</i> , 2021, 18, 499-511.	1.6	93
490	Engineered extracellular vesicles for concurrent Anti-PDL1 immunotherapy and chemotherapy. <i>Bioactive Materials</i> , 2022, 9, 251-265.	8.6	30
491	Separation, characterization, and standardization of extracellular vesicles for drug delivery applications. <i>Advanced Drug Delivery Reviews</i> , 2021, 174, 348-368.	6.6	66
492	Transportation of Single-Domain Antibodies through the Blood-Brain Barrier. <i>Biomolecules</i> , 2021, 11, 1131.	1.8	35

#	ARTICLE	IF	CITATIONS
493	Progress in the research of nanomaterial-based exosome bioanalysis and exosome-based nanomaterials tumor therapy. <i>Biomaterials</i> , 2021, 274, 120873.	5.7	37
494	Camouflage strategies for therapeutic exosomes evasion from phagocytosis. <i>Journal of Advanced Research</i> , 2021, 31, 61-74.	4.4	81
495	Rapid and Accurate Detection of Lymph Node Metastases Enabled through Fluorescent Silicon Nanoparticles-Based Exosome Probes. <i>Analytical Chemistry</i> , 2021, 93, 10122-10131.	3.2	19
496	Extracellular Vesicles in Blood: Sources, Effects, and Applications. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8163.	1.8	68
497	Dually targeted bioinspired nanovesicle delays advanced prostate cancer tumour growth in vivo. <i>Acta Biomaterialia</i> , 2021, 134, 559-575.	4.1	7
498	Extracellular Vesicles as Mediators of Cancer Disease and as Nanosystems in Theranostic Applications. <i>Cancers</i> , 2021, 13, 3324.	1.7	13
499	From Mesenchymal Stromal Cells to Engineered Extracellular Vesicles: A New Therapeutic Paradigm. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 705676.	1.8	40
500	Extracellular vesicles and exosomes generated from cystic renal epithelial cells promote cyst growth in autosomal dominant polycystic kidney disease. <i>Nature Communications</i> , 2021, 12, 4548.	5.8	42
501	Hydrogel Loaded with VEGF/TFEB-Engineered Extracellular Vesicles for Rescuing Critical Limb Ischemia by a Dual-Pathway Activation Strategy. <i>Advanced Healthcare Materials</i> , 2022, 11, e2100334.	3.9	18
502	Exosomal delivery of therapeutic modulators through the blood-brain barrier; promise and pitfalls. <i>Cell and Bioscience</i> , 2021, 11, 142.	2.1	70
503	Fostering "Education": Do Extracellular Vesicles Exploit Their Own Delivery Code?. <i>Cells</i> , 2021, 10, 1741.	1.8	3
504	Adipose-derived stromal/stem cells and extracellular vesicles for cancer therapy. <i>Expert Opinion on Biological Therapy</i> , 2022, 22, 67-78.	1.4	2
505	Treatment of diabetic peripheral neuropathy with engineered mesenchymal stromal cell-derived exosomes enriched with microRNA-146a provide amplified therapeutic efficacy. <i>Experimental Neurology</i> , 2021, 341, 113694.	2.0	45
506	Extracellular vesicles as a next-generation drug delivery platform. <i>Nature Nanotechnology</i> , 2021, 16, 748-759.	15.6	761
507	A paradigm shift in cell-free approach: the emerging role of MSCs-derived exosomes in regenerative medicine. <i>Journal of Translational Medicine</i> , 2021, 19, 302.	1.8	120
508	Extracellular vesicles as delivery systems at nano-/micro-scale. <i>Advanced Drug Delivery Reviews</i> , 2021, 179, 113910.	6.6	45
509	Extracellular vesicles in endothelial cells: from mediators of cell-to-cell communication to cargo delivery tools. <i>Free Radical Biology and Medicine</i> , 2021, 172, 508-520.	1.3	18
510	Extracellular vesicles for tissue repair and regeneration: Evidence, challenges and opportunities. <i>Advanced Drug Delivery Reviews</i> , 2021, 175, 113775.	6.6	86

#	ARTICLE	IF	CITATIONS
511	Tumor extracellular vesicles drive metastasis (it's a long way from home). <i>FASEB BioAdvances</i> , 2021, 3, 930-943.	1.3	19
512	Extracellular Vesicles as Drug Delivery System for the Treatment of Neurodegenerative Disorders: Optimization of the Cell Source. <i>Advanced NanoBiomed Research</i> , 2021, 1, 2100064.	1.7	13
513	Mesenchymal stromal cell-derived syndecan-2 regulates the immune response during sepsis to foster bacterial clearance and resolution of inflammation. <i>FEBS Journal</i> , 2022, 289, 417-435.	2.2	8
514	Toxicological Profile of Umbilical Cord Blood-Derived Small Extracellular Vesicles. <i>Membranes</i> , 2021, 11, 647.	1.4	7
515	Extracellular vesicles as a drug delivery system: A systematic review of preclinical studies. <i>Advanced Drug Delivery Reviews</i> , 2021, 175, 113801.	6.6	92
516	Vesículas extracelulares: o que sabemos até agora. <i>Clinical and Laboratorial Research in Dentistry</i> , 0, , .	0.1	0
517	Urinary exosomes-based Engineered Nanovectors for Homologously Targeted Chemo-Chemodynamic Prostate Cancer Therapy via abrogating EGFR/AKT/NF- κ B/I κ B signaling. <i>Biomaterials</i> , 2021, 275, 120946.	5.7	65
518	Mesenchymal stem cells from biology to therapy. <i>Emerging Topics in Life Sciences</i> , 2021, 5, 539-548.	1.1	9
519	Functional siRNA Delivery by Extracellular Vesicle-Liposome Hybrid Nanoparticles. <i>Advanced Healthcare Materials</i> , 2022, 11, e2101202.	3.9	77
520	Small extracellular vesicles from menstrual blood-derived mesenchymal stem cells (MenSCs) as a novel therapeutic impetus in regenerative medicine. <i>Stem Cell Research and Therapy</i> , 2021, 12, 433.	2.4	26
521	The power of imaging to understand extracellular vesicle biology in vivo. <i>Nature Methods</i> , 2021, 18, 1013-1026.	9.0	163
522	Extracellular vesicles in the treatment of neurological disorders. <i>Neurobiology of Disease</i> , 2021, 157, 105445.	2.1	28
523	Development of Extracellular Vesicle Therapeutics: Challenges, Considerations, and Opportunities. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 734720.	1.8	75
524	A novel approach to identify the mechanism of miR-145-5p toxicity to podocytes based on the essential genes targeting analysis. <i>Molecular Therapy - Nucleic Acids</i> , 2021, 26, 749-759.	2.3	6
525	Mesenchymal Stem Cell Exosomes Derived from Feline Adipose Tissue Enhance the Effects of Anti-Inflammation Compared to Fibroblasts-Derived Exosomes. <i>Veterinary Sciences</i> , 2021, 8, 182.	0.6	4
526	The clinical role of host and bacterial-derived extracellular vesicles in pneumonia. <i>Advanced Drug Delivery Reviews</i> , 2021, 176, 113811.	6.6	11
527	Therapeutic Potential of Mesenchymal Stromal Cell-Derived Extracellular Vesicles in the Prevention of Organ Injuries Induced by Traumatic Hemorrhagic Shock. <i>Frontiers in Immunology</i> , 2021, 12, 749659.	2.2	10
528	Extracellular Vesicles Derived from Chimeric Antigen Receptor-T Cells: A Potential Therapy for Cancer. <i>Human Gene Therapy</i> , 2021, 32, 1224-1241.	1.4	24

#	ARTICLE	IF	CITATIONS
529	The biology, function, and applications of exosomes in cancer. <i>Acta Pharmaceutica Sinica B</i> , 2021, 11, 2783-2797.	5.7	209
530	The Role of Extracellular Vesicles in the Developing Brain: Current Perspective and Promising Source of Biomarkers and Therapy for Perinatal Brain Injury. <i>Frontiers in Neuroscience</i> , 2021, 15, 744840.	1.4	7
531	Zebrafish as a preclinical model for Extracellular Vesicle-based therapeutic development. <i>Advanced Drug Delivery Reviews</i> , 2021, 176, 113815.	6.6	12
532	Exosomes as Targeted Delivery Platform of CRISPR/Cas9 for Therapeutic Genome Editing. <i>ChemBioChem</i> , 2021, 22, 3360-3368.	1.3	40
533	In vivo imaging and tracking of exosomes for theranostics. <i>Journal of Innovative Optical Health Sciences</i> , 0, , 2130005.	0.5	4
534	Class A scavenger receptor-1/2 facilitates the uptake of bovine milk exosomes in murine bone marrow-derived macrophages and C57BL/6J mice. <i>American Journal of Physiology - Cell Physiology</i> , 2021, 321, C607-C614.	2.1	7
535	New approaches in extracellular vesicle engineering for improving the efficacy of anti-cancer therapies. <i>Seminars in Cancer Biology</i> , 2021, 74, 62-78.	4.3	27
536	In Vivo Characterization of Endogenous Cardiovascular Extracellular Vesicles in Larval and Adult Zebrafish. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021, 41, 2454-2468.	1.1	19
537	Alleviation of renal ischemia/reperfusion injury by exosomes from induced pluripotent stem cell-derived mesenchymal stem cells. <i>Korean Journal of Internal Medicine</i> , 2022, 37, 411-424.	0.7	14
538	Synthesized nanoparticles, biomimetic nanoparticles and extracellular vesicles for treatment of autoimmune disease: Comparison and prospect. <i>Pharmacological Research</i> , 2021, 172, 105833.	3.1	5
539	Duplex metal co-doped carbon quantum dots-based drug delivery system with intelligent adjustable size as adjuvant for synergistic cancer therapy. <i>Carbon</i> , 2021, 183, 789-808.	5.4	57
540	Engineered extracellular vesicles as brain therapeutics. <i>Journal of Controlled Release</i> , 2021, 338, 472-485.	4.8	25
541	Dosing extracellular vesicles. <i>Advanced Drug Delivery Reviews</i> , 2021, 178, 113961.	6.6	134
542	Engineering and loading therapeutic extracellular vesicles for clinical translation: A data reporting frame for comparability. <i>Advanced Drug Delivery Reviews</i> , 2021, 178, 113972.	6.6	36
543	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. <i>Biomaterials</i> , 2021, 278, 121137.	5.7	166
544	Stem cell secretome, regeneration, and clinical translation: a narrative review. <i>Annals of Translational Medicine</i> , 2021, 9, 70-70.	0.7	23
545	Exosome Imaging. , 2021, , 943-952.		0
546	Tissue Distribution of Exosomes and Other Extracellular Vesicles. <i>Oleoscience</i> , 2021, 21, 55-61.	0.0	0

#	ARTICLE	IF	CITATIONS
547	Development of a Dual-Modally Traceable Nanoplatfor for Cancer Theranostics Using Natural Circulating Cell-Derived Microparticles in Oral Cancer Patients. <i>Advanced Functional Materials</i> , 2017, 27, 1703482.	7.8	16
548	Recent Advances in Experimental Models of Breast Cancer Exosome Secretion, Characterization and Function. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2020, 25, 305-317.	1.0	11
549	Biomaterials and extracellular vesicles in cell-free therapy for bone repair and regeneration: Future line of treatment in regenerative medicine. <i>Materialia</i> , 2020, 12, 100736.	1.3	14
550	“Good things come in small packages” application of exosome-based therapeutics in neonatal lung injury. <i>Pediatric Research</i> , 2018, 83, 298-307.	1.1	48
551	Engineering exosome polymer hybrids by atom transfer radical polymerization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	63
552	Mesenchymal Stem Cell-Derived Extracellular Vesicles: A Novel Cell-Free Therapy. <i>Immunological Investigations</i> , 2020, 49, 758-780.	1.0	51
553	Monocytes mediate homing of circulating microvesicles to the pulmonary vasculature during low-grade systemic inflammation. <i>Journal of Extracellular Vesicles</i> , 2020, 9, 1706708.	5.5	20
559	Autologous tumor cell-derived microparticle-based targeted chemotherapy in lung cancer patients with malignant pleural effusion. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	143
560	Mesenchymal stromal cell exosomes prevent and revert experimental pulmonary fibrosis through modulation of monocyte phenotypes. <i>JCI Insight</i> , 2019, 4, .	2.3	144
561	Dendritic cell-derived exosomes for cancer therapy. <i>Journal of Clinical Investigation</i> , 2016, 126, 1224-1232.	3.9	427
562	Kinetics and Specificity of HEK293T Extracellular Vesicle Uptake using Imaging Flow Cytometry. <i>Nanoscale Research Letters</i> , 2020, 15, 170.	3.1	34
563	MSC-derived exosomes promote recovery from traumatic brain injury via microglia/macrophages in rat. <i>Aging</i> , 2020, 12, 18274-18296.	1.4	79
564	TrkB-containing exosomes promote the transfer of glioblastoma aggressiveness to YKL-40-inactivated glioblastoma cells. <i>Oncotarget</i> , 2016, 7, 50349-50364.	0.8	67
565	A new bioluminescent reporter system to study the biodistribution of systematically injected tumor-derived bioluminescent extracellular vesicles in mice. <i>Oncotarget</i> , 2017, 8, 109894-109914.	0.8	96
566	Extracellular vesicles from skin precursor-derived Schwann cells promote axonal outgrowth and regeneration of motoneurons via Akt/mTOR/p70S6K pathway. <i>Annals of Translational Medicine</i> , 2020, 8, 1640-1640.	0.7	22
567	Exosome-like Nanoparticles: A New Type of Nanocarrier. <i>Current Medicinal Chemistry</i> , 2020, 27, 3888-3905.	1.2	28
568	Exosomes and Lung Cancer: Roles in Pathophysiology, Diagnosis and Therapeutic Applications. <i>Current Medicinal Chemistry</i> , 2020, 28, 308-328.	1.2	48
569	Extracellular Vesicles as Drug Delivery Systems - Methods of Production and Potential Therapeutic Applications. <i>Current Pharmaceutical Design</i> , 2019, 25, 132-154.	0.9	42

#	ARTICLE	IF	CITATIONS
570	Intercellular Crosstalk Via Extracellular Vesicles in Tumor Milieu as Emerging Therapies for Cancer Progression. <i>Current Pharmaceutical Design</i> , 2019, 25, 1980-2006.	0.9	11
571	Methods for the Determination of the Purity of Exosomes. <i>Current Pharmaceutical Design</i> , 2020, 25, 4464-4485.	0.9	15
572	Exosomes in Ischemic Stroke. <i>Current Pharmaceutical Design</i> , 2020, 26, 5533-5545.	0.9	10
573	Exosomes in Therapy: Engineering, Pharmacokinetics and Future Applications. <i>Current Drug Targets</i> , 2018, 20, 87-95.	1.0	34
574	Delivery Efficacy Differences of Intravenous and Intraperitoneal Injection of Exosomes: Perspectives from Tracking Dye Labeled and MiRNA Encapsulated Exosomes. <i>Current Drug Delivery</i> , 2020, 17, 186-194.	0.8	23
575	Membrane Derived Vesicles as Biomimetic Carriers for Targeted Drug Delivery System. <i>Current Topics in Medicinal Chemistry</i> , 2020, 20, 2472-2492.	1.0	14
576	Exosome and Biomimetic Nanoparticle Therapies for Cardiac Regenerative Medicine. <i>Current Stem Cell Research and Therapy</i> , 2020, 15, 674-684.	0.6	13
577	Extracellular Vesicles Derived from Human Umbilical Cord Perivascular Cells Improve Functional Recovery in Brain Ischemic Rat via the Inhibition of Apoptosis. <i>Iranian Biomedical Journal</i> , 2020, 24, 342-355.	0.4	4
578	Physiologic constraints of using exosomes in vivo as systemic delivery vehicles. <i>Precision Nanomedicine</i> , 2019, 2, 344-369.	0.4	2
579	Research Progress and Prospect of Nanoplatforms for Treatment of Oral Cancer. <i>Frontiers in Pharmacology</i> , 2020, 11, 616101.	1.6	12
580	Extracellular Vesicles as Drug Carriers for Enzyme Replacement Therapy to Treat CLN2 Batten Disease: Optimization of Drug Administration Routes. <i>Cells</i> , 2020, 9, 1273.	1.8	22
581	Challenges in Biomaterial-Based Drug Delivery Approach for the Treatment of Neurodegenerative Diseases: Opportunities for Extracellular Vesicles. <i>International Journal of Molecular Sciences</i> , 2021, 22, 138.	1.8	23
582	Role of tumor-derived exosomes in bone metastasis (Review). <i>Oncology Letters</i> , 2019, 18, 3935-3945.	0.8	38
583	Extracellular vesicles in renal physiology and clinical applications for renal disease. <i>Korean Journal of Internal Medicine</i> , 2019, 34, 470-479.	0.7	21
584	Endometrial Mesenchymal Stem Cell-Derived Exosome Promote Endothelial Cell Angiogenesis in a Dose Dependent Manner: A New Perspective on Regenerative Medicine and Cell-Free Therapy. <i>Archives of Neuroscience</i> , 2019, 6, .	0.1	16
585	Proinflammatory macrophage-derived microvesicles exhibit tumor tropism dependent on CCL2/CCR2 signaling axis and promote drug delivery via SNARE-mediated membrane fusion. <i>Theranostics</i> , 2020, 10, 6581-6598.	4.6	34
586	Amelioration of systemic inflammation via the display of two different decoy protein receptors on extracellular vesicles. <i>Nature Biomedical Engineering</i> , 2021, 5, 1084-1098.	11.6	41
587	DNAJB6b-enriched small extracellular vesicles decrease polyglutamine aggregation in vitro and in vivo models of Huntington disease. <i>IScience</i> , 2021, 24, 103282.	1.9	16

#	ARTICLE	IF	CITATIONS
588	Extracellular Vesicles Protect the Neonatal Lung from Hyperoxic Injury through the Epigenetic and Transcriptomic Reprogramming of Myeloid Cells. American Journal of Respiratory and Critical Care Medicine, 2021, 204, 1418-1432.	2.5	36
589	Exosomes, a New Star for Targeted Delivery. Frontiers in Cell and Developmental Biology, 2021, 9, 751079.	1.8	104
590	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
592	Extracellular vesicles in cardiovascular disease: Biological functions and therapeutic implications. , 2022, 233, 108025.		50
593	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
594	Extracellular vesicle release and uptake by the liver under normo- and hyperlipidemia. Cellular and Molecular Life Sciences, 2021, 78, 7589-7604.	2.4	22
595	The Emerging Role of Cell-Derived Microvesicles in Stem Cell Research and Therapy. Journal of Stem Cell Research & Therapeutics, 0, , .	0.1	0
596	Endogenous Radionanomedicine: Biodistribution and Imaging. Biological and Medical Physics Series, 2018, , 153-165.	0.3	2
597	Standardization of Sampling for Isolation of Exosome-Like Small-Extracellular Vesicles from Peripheral Blood from Reproductive-Aged Women. Open Journal of Obstetrics and Gynecology, 2018, 08, 1063-1070.	0.1	0
598	VÃ©sicules extra cellulaires : nouveaux agents thÃ©rapeutiques pour la rÃ©paration cardiaque ?. Bulletin De L'Academie Nationale De Medecine, 2018, 202, 755-769.	0.0	0
600	Current views in chronic obstructive pulmonary disease pathogenesis and management. Saudi Pharmaceutical Journal, 2021, 29, 1361-1373.	1.2	15
601	Exosome-mediated delivery of inflammation-responsive <i>Il-10</i> mRNA for controlled atherosclerosis treatment. Theranostics, 2021, 11, 9988-10000.	4.6	38
602	Gene and protein therapy approaches to cardiac neovascularization and protection from ischemia. , 2020, , 649-666.		0
604	Exosome as a novel nanocarriers for therapeutic delivery. Drug Delivery System, 2020, 35, 35-46.	0.0	1
605	Extracellular Vesicles Derived From Regeneration Associated Cells Preserve Heart Function After Ischemia-Induced Injury. Frontiers in Cardiovascular Medicine, 2021, 8, 754254.	1.1	10
606	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
607	Mesenchymal Stem Cells Influence Activation of Hepatic Stellate Cells, and Constitute a Promising Therapy for Liver Fibrosis. Biomedicines, 2021, 9, 1598.	1.4	18
608	Running to save sight: The effects of exercise on retinal health and function. Clinical and Experimental Ophthalmology, 2022, 50, 74-90.	1.3	9

#	ARTICLE	IF	CITATIONS
610	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
611	Extracellular vesicles - mediating and delivering cardioprotection in acute myocardial infarction and heart failure. Conditioning Medicine, 2020, 3, 227-238.	1.3	1
612	The potential role of exosomal circRNAs in the tumor microenvironment: insights into cancer diagnosis and therapy. Theranostics, 2022, 12, 87-104.	4.6	54
613	Efficient exosome extraction through the conjugation of superparamagnetic iron oxide nanoparticles for the targeted delivery in rat brain. Materials Today Chemistry, 2022, 23, 100637.	1.7	3
614	Proteomic dissection of large extracellular vesicle surfaceome unravels interactive surface platform. Journal of Extracellular Vesicles, 2021, 10, e12164.	5.5	40
615	Special delEVerY: Extracellular Vesicles as Promising Delivery Platform to the Brain. Biomedicines, 2021, 9, 1734.	1.4	16
616	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
617	Cell-derived extracellular vesicles and membranes for tissue repair. Journal of Nanobiotechnology, 2021, 19, 368.	4.2	10
618	Impact of the Main Cardiovascular Risk Factors on Plasma Extracellular Vesicles and Their Influence on the Heart's Vulnerability to Ischemia-Reperfusion Injury. Cells, 2021, 10, 3331.	1.8	6
619	Tumor-Associated Exosomes: A Potential Therapeutic Target for Restoring Anti-Tumor T Cell Responses in Human Tumor Microenvironments. Cells, 2021, 10, 3155.	1.8	11
620	Growth Media Conditions Influence the Secretion Route and Release Levels of Engineered Extracellular Vesicles. Advanced Healthcare Materials, 2022, 11, e2101658.	3.9	28
621	Hydrogels: 3D Drug Delivery Systems for Nanoparticles and Extracellular Vesicles. Biomedicines, 2021, 9, 1694.	1.4	19
622	Mesenchymal Stem Cell-Derived Extracellular Vesicle: A Promising Alternative Therapy for Osteoporosis. International Journal of Molecular Sciences, 2021, 22, 12750.	1.8	17
623	Extracellular Vesicles in Lung Cancer Metastasis and Their Clinical Applications. Cancers, 2021, 13, 5633.	1.7	14
624	Enhancing the Therapeutic Potential of Extracellular Vesicles Using Peptide Technology. Methods in Molecular Biology, 2022, 2383, 119-141.	0.4	5
625	Mesenchymal Stem/Stromal Cells Derived from Human and Animal Perinatal Tissues's Origins, Characteristics, Signaling Pathways, and Clinical Trials. Cells, 2021, 10, 3278.	1.8	24
626	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
627	Goat Milk Exosomes As Natural Nanoparticles for Detecting Inflammatory Processes By Optical Imaging. Small, 2022, 18, e2105421.	5.2	25

#	ARTICLE	IF	CITATIONS
628	Assessment of Surface Glycan Diversity on Extracellular Vesicles by Lectin Microarray and Glycoengineering Strategies for Drug Delivery Applications. <i>Small Methods</i> , 2022, 6, e2100785.	4.6	16
629	Extracellular vesicles in pharmacology: Novel approaches in diagnostics and therapy. <i>Pharmacological Research</i> , 2022, 175, 105980.	3.1	8
630	The Smallest Workers in Regenerative Medicine: Stem Cell-Derived Exosomes. <i>Medikal Inovasyon Ve Teknoloji Dergisi</i> , 0, , .	0.0	0
631	Biodistribution of unmodified cardiosphere-derived cell extracellular vesicles using single RNA tracing. <i>Journal of Extracellular Vesicles</i> , 2022, 11, e12178.	5.5	11
632	Mesenchymal stem cells-derived extracellular vesicles as "natural" drug delivery system for tissue regeneration. <i>Biocell</i> , 2022, 46, 899-902.	0.4	1
633	Engineering pro-angiogenic biomaterials via chemoselective extracellular vesicle immobilization. <i>Biomaterials</i> , 2022, 281, 121357.	5.7	20
634	Glioma-targeted delivery of exosome-encapsulated antisense oligonucleotides using neural stem cells. <i>Molecular Therapy - Nucleic Acids</i> , 2022, 27, 611-620.	2.3	33
635	Exosomes are secreted at similar densities by M21 and PC3 human cancer cells and show paclitaxel solubility. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2022, 1864, 183841.	1.4	1
636	Alzheimer's Type Neurodegeneration. Possible Correction of Memory Impairment with Intravenous Administration of Exosomes. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2021, 15, 306-318.	0.3	0
637	The Molecular Mechanisms Through Which Placental Mesenchymal Stem Cell-Derived Extracellular Vesicles Promote Myelin Regeneration. <i>Advanced Biology</i> , 2022, 6, e2101099.	1.4	3
638	Combination Therapy of Stem Cell-derived Exosomes and Biomaterials in the Wound Healing. <i>Stem Cell Reviews and Reports</i> , 2022, 18, 1892-1911.	1.7	25
639	Higher yield and enhanced therapeutic effects of exosomes derived from MSCs in hydrogel-assisted 3D culture system for bone regeneration. <i>Materials Science and Engineering C</i> , 2022, 133, 112646.	3.8	37
640	Tracking Radiolabeled Endothelial Microvesicles Predicts Their Therapeutic Efficacy: A Proof-of-Concept Study in Peripheral Ischemia Mouse Model Using SPECT/CT Imaging. <i>Pharmaceutics</i> , 2022, 14, 121.	2.0	3
641	Emerging prospects of extracellular vesicles for brain disease theranostics. <i>Journal of Controlled Release</i> , 2022, 341, 844-868.	4.8	24
642	A new transgene mouse model using an extravesicular EGFP tag enables affinity isolation of cell-specific extracellular vesicles. <i>Scientific Reports</i> , 2022, 12, 496.	1.6	10
643	Evidence for Effects of Extracellular Vesicles on Physical, Inflammatory, Transcriptome and Reward Behaviour Status in Mice. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1028.	1.8	2
644	In-Cell Labeling Coupled to Direct Analysis of Extracellular Vesicles in the Conditioned Medium to Study Extracellular Vesicles Secretion with Minimum Sample Processing and Particle Loss. <i>Cells</i> , 2022, 11, 351.	1.8	3
645	Exosomes: Biological Pharmaceutical Nanovectors for Theranostics. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 808614.	2.0	15

#	ARTICLE	IF	CITATIONS
646	In sickness and in health: The functional role of extracellular vesicles in physiology and pathology in vivo. <i>Journal of Extracellular Vesicles</i> , 2022, 11, e12151.	5.5	64
647	Extracellular vesicle-mediated delivery of circDYM alleviates CUS-induced depressive-like behaviours. <i>Journal of Extracellular Vesicles</i> , 2022, 11, e12185.	5.5	43
648	Investigation of Microvesicle Uptake by Mouse Lung-marginated Monocytes in vitro. <i>Bio-protocol</i> , 2022, 12, e4307.	0.2	0
649	Tumor-derived extracellular vesicles as messengers of natural products in cancer treatment. <i>Theranostics</i> , 2022, 12, 1683-1714.	4.6	26
652	Extracellular Vesicle-Based Hybrid Systems for Advanced Drug Delivery. <i>Pharmaceutics</i> , 2022, 14, 267.	2.0	20
653	Switching Roles: Beneficial Effects of Adipose Tissue-Derived Mesenchymal Stem Cells on Microglia and Their Implication in Neurodegenerative Diseases. <i>Biomolecules</i> , 2022, 12, 219.	1.8	5
654	Extracellular Vesicle Delivery of Neferine for the Attenuation of Neurodegenerative Disease Proteins and Motor Deficit in an Alzheimer's Disease Mouse Model. <i>Pharmaceutics</i> , 2022, 15, 83.	1.7	19
655	Targeted Delivery of Exosomes Armed with Anti-Cancer Therapeutics. <i>Membranes</i> , 2022, 12, 85.	1.4	17
656	Potential Effects of Exosomes and their MicroRNA Carrier on Osteoporosis. <i>Current Pharmaceutical Design</i> , 2022, 28, 899-909.	0.9	11
657	Design and Evaluation of Engineered Extracellular Vesicle (EV)-Based Targeting for EGFR-Overexpressing Tumor Cells Using Monobody Display. <i>Bioengineering</i> , 2022, 9, 56.	1.6	12
658	Stem cell-derived extracellular vesicle therapy for acute brain insults and neurodegenerative diseases. <i>BMB Reports</i> , 2022, 55, 20-29.	1.1	14
659	Infrared and Raman spectroscopy for purity assessment of extracellular vesicles. <i>European Journal of Pharmaceutical Sciences</i> , 2022, 172, 106135.	1.9	8
660	Extracellular Vesicles as a Cell-free Therapy for Cardiac Repair: a Systematic Review and Meta-analysis of Randomized Controlled Preclinical Trials in Animal Myocardial Infarction Models. <i>Stem Cell Reviews and Reports</i> , 2022, 18, 1143-1167.	1.7	13
661	Engineered exosome as targeted lncRNA MEG3 delivery vehicles for osteosarcoma therapy. <i>Journal of Controlled Release</i> , 2022, 343, 107-117.	4.8	62
663	Small Extracellular Vesicles from Peripheral Blood of Aged Mice Pass the Blood-Brain Barrier and Induce Glial Cell Activation. <i>Cells</i> , 2022, 11, 625.	1.8	13
664	Strong SARS-CoV-2 N-Specific CD8+ T Immunity Induced by Engineered Extracellular Vesicles Associates with Protection from Lethal Infection in Mice. <i>Viruses</i> , 2022, 14, 329.	1.5	11
665	Exosomes derived from bone-marrow mesenchymal stem cells alleviate cognitive decline in AD-like mice by improving BDNF-related neuropathology. <i>Journal of Neuroinflammation</i> , 2022, 19, 35.	3.1	73
666	Exosomal targeting and its potential clinical application. <i>Drug Delivery and Translational Research</i> , 2022, 12, 2385-2402.	3.0	57

#	ARTICLE	IF	CITATIONS
668	Regenerative Medicine Applied to the Treatment of Musculoskeletal Pathologies. , 2022, , 1-36.		0
669	Management of Airway Remodeling in a Mouse Model of Allergic Airways Inflammation Using Extracellular Vesicles from Human Bone Marrow-Derived Mesenchymal Stromal Cells. Brazilian Archives of Biology and Technology, 0, 65, .	0.5	2
670	Microparticles from Hyperphosphatemia-Stimulated Endothelial Cells Promote Vascular Calcification Through Astrocyte-Elevated Gene-1. Calcified Tissue International, 2022, 111, 73-86.	1.5	4
671	Exosomes and Other Extracellular Vesicles with High Therapeutic Potential: Their Applications in Oncology, Neurology, and Dermatology. Molecules, 2022, 27, 1303.	1.7	20
672	Gut Microbiota-Derived Small Extracellular Vesicles Endorse Memory-like Inflammatory Responses in Murine Neutrophils. Biomedicines, 2022, 10, 442.	1.4	14
673	Effect of mesenchymal stem cells derived exosomes and green tea polyphenols on acetic acid induced ulcerative colitis in adult male albino rats. Ultrastructural Pathology, 2022, 46, 147-163.	0.4	6
674	Engineering strategies for customizing extracellular vesicle uptake in a therapeutic context. Stem Cell Research and Therapy, 2022, 13, 129.	2.4	23
675	Exosomes as Emerging Drug Delivery and Diagnostic Modality for Breast Cancer: Recent Advances in Isolation and Application. Cancers, 2022, 14, 1435.	1.7	37
676	Exosomes as Carriers for Drug Delivery in Cancer Therapy. Pharmaceutical Research, 2023, 40, 873-887.	1.7	16
677	Inflammasome-Regulated Pyroptotic Cell Death in Disruption of the Gut-Brain Axis After Stroke. Translational Stroke Research, 2022, 13, 898-912.	2.3	10
678	Extracellular Vesicles and Acute Kidney Injury: Potential Therapeutic Avenue for Renal Repair and Regeneration. International Journal of Molecular Sciences, 2022, 23, 3792.	1.8	8
679	Milk exosomes in nutrition and drug delivery. American Journal of Physiology - Cell Physiology, 2022, 322, C865-C874.	2.1	17
680	Strategies for Targeted Delivery of Exosomes to the Brain: Advantages and Challenges. Pharmaceutics, 2022, 14, 672.	2.0	33
681	Sustained Exosome-Guided Macrophage Polarization Using Hydrolytically Degradable PEG Hydrogels for Cutaneous Wound Healing: Identification of Key Proteins and MiRNAs, and Sustained Release Formulation. Small, 2022, 18, e2200060.	5.2	54
682	The Therapeutic Effect of iMSC-Derived Small Extracellular Vesicles on Tendinopathy Related Pain Through Alleviating Inflammation: An in vivo and in vitro Study. Journal of Inflammation Research, 2022, Volume 15, 1421-1436.	1.6	11
683	Mesenchymal Stem Cell-Derived Extracellular Vesicles in Liver Immunity and Therapy. Frontiers in Immunology, 2022, 13, 833878.	2.2	22
684	Engineered extracellular vesicles: potentials in cancer combination therapy. Journal of Nanobiotechnology, 2022, 20, 132.	4.2	22
685	Extracellular Vesicles From Microalgae: Uptake Studies in Human Cells and Caenorhabditis elegans. Frontiers in Bioengineering and Biotechnology, 2022, 10, 830189.	2.0	11

#	ARTICLE	IF	CITATIONS
686	Transfer of photothermal nanoparticles using stem cell derived small extracellular vesicles for in vivo treatment of primary and multinodular tumours. <i>Journal of Extracellular Vesicles</i> , 2022, 11, e12193.	5.5	7
687	Milkâ€Derived Small Extracellular Vesicles Promote Recovery of Intestinal Damage by Accelerating Intestinal Stem Cellâ€Mediated Epithelial Regeneration. <i>Molecular Nutrition and Food Research</i> , 2022, 66, e2100551.	1.5	5
688	Characteristics of Extracellular Vesicles and Preclinical Testing Considerations Prior to Clinical Applications. <i>Biomedicines</i> , 2022, 10, 869.	1.4	7
689	New advances in exosome-based targeted drug delivery systems. <i>Critical Reviews in Oncology/Hematology</i> , 2022, 172, 103628.	2.0	47
690	Highlighting the Potential Role of Exosomes as the Targeted Nanotherapeutic Carrier in Metastatic Breast Cancer. <i>Current Drug Delivery</i> , 2023, 20, 317-334.	0.8	3
691	Heme Oxygenase-1 targeting exosomes for temozolomide resistant glioblastoma synergistic therapy. <i>Journal of Controlled Release</i> , 2022, 345, 696-708.	4.8	34
692	Multifunctional role of exosomes in viral diseases: From transmission to diagnosis and therapy. <i>Cellular Signalling</i> , 2022, 94, 110325.	1.7	26
693	GAPDH controls extracellular vesicle biogenesis and enhances the therapeutic potential of EV mediated siRNA delivery to the brain. <i>Nature Communications</i> , 2021, 12, 6666.	5.8	42
694	Biodistribution of Biomimetic Drug Carriers, Mononuclear Cells, and Extracellular Vesicles, in Nonhuman Primates. <i>Advanced Biology</i> , 2022, 6, e2101293.	1.4	7
696	Optimised Electroporation for Loading of Extracellular Vesicles with Doxorubicin. <i>Pharmaceutics</i> , 2022, 14, 38.	2.0	39
697	Organ-on-a-Chip for Studying Gut-Brain Interaction Mediated by Extracellular Vesicles in the Gut Microenvironment. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13513.	1.8	15
698	Challenges for the Development of Extracellular Vesicle-Based Nucleic Acid Medicines. <i>Cancers</i> , 2021, 13, 6137.	1.7	11
700	Emerging Role of Extracellular Vesicles and Cellular Communication in Metastasis. <i>Cells</i> , 2021, 10, 3429.	1.8	27
701	Every road leads to Rome: therapeutic effect and mechanism of the extracellular vesicles of human embryonic stem cell-derived immune and matrix regulatory cells administered to mouse models of pulmonary fibrosis through different routes. <i>Stem Cell Research and Therapy</i> , 2022, 13, 163.	2.4	12
702	Microparticles in Autoimmunity: Cause or Consequence of Disease?. <i>Frontiers in Immunology</i> , 2022, 13, 822995.	2.2	6
703	Extracellular Vesicles and Their Emerging Roles as Cellular Messengers in Endocrinology: An Endocrine Society Scientific Statement. <i>Endocrine Reviews</i> , 2022, 43, 441-468.	8.9	40
704	Microparticles: biogenesis, characteristics and intervention therapy for cancers in preclinical and clinical research. <i>Journal of Nanobiotechnology</i> , 2022, 20, 189.	4.2	17
705	A Triple High Throughput Screening for Extracellular Vesicle Inducing Agents With Immunostimulatory Activity. <i>Frontiers in Pharmacology</i> , 2022, 13, 869649.	1.6	2

#	ARTICLE	IF	CITATIONS
706	Irradiated Cell-Derived Exosomes Transmit Essential Molecules Inducing Radiation Therapy Resistance. International Journal of Radiation Oncology Biology Physics, 2022, 113, 192-202.	0.4	5
707	Engineered extracellular vesicles for bone therapy. Nano Today, 2022, 44, 101487.	6.2	32
717	Stem cell-derived extracellular vesicle therapy for acute brain insults and neurodegenerative diseases.. BMB Reports, 2022, , .	1.1	0
718	Surface-engineered extracellular vesicles for targeted delivery of therapeutic RNAs and peptides for cancer therapy. Theranostics, 2022, 12, 3288-3315.	4.6	22
719	M2 microglia-derived extracellular vesicles promote white matter repair and functional recovery via miR-23a-5p after cerebral ischemia in mice. Theranostics, 2022, 12, 3553-3573.	4.6	40
720	Biomimetic approaches for targeting tumor-promoting inflammation. Seminars in Cancer Biology, 2022, 86, 555-567.	4.3	15
721	The Effect of Oral Mucosal Mesenchymal Stem Cells on Pathological and Long-Term Outcomes in Experimental Traumatic Brain Injury. BioMed Research International, 2022, 2022, 1-11.	0.9	5
722	Pathological Contribution of Extracellular Vesicles and Their MicroRNAs to Progression of Chronic Liver Disease. Biology, 2022, 11, 637.	1.3	5
723	Current Strategies to Enhance Delivery of Drugs across the Blood-Brain Barrier. Pharmaceutics, 2022, 14, 987.	2.0	44
724	Current Understanding of Extracellular Vesicle Homing/Tropism. Zoonoses, 2022, 2, .	0.5	11
725	Mesenchymal stem cell-derived exosomes affect macrophage phenotype: a cell-free strategy for the treatment of skeletal muscle disorders. Current Molecular Medicine, 2022, 22, .	0.6	4
726	Effects of BMSC-Derived EVs on Bone Metabolism. Pharmaceutics, 2022, 14, 1012.	2.0	27
727	Scavenger receptor A in immunity and autoimmune diseases: Compelling evidence for targeted therapy. Expert Opinion on Therapeutic Targets, 2022, 26, 461-477.	1.5	1
728	Exosome engineering for efficient and targeted drug delivery: Current status and future perspective. Journal of Physiology, 2023, 601, 4853-4872.	1.3	19
729	Bioengineering exosomes for treatment of organ ischemia-reperfusion injury. Life Sciences, 2022, 302, 120654.	2.0	3
730	The Dual Role of Mesenchymal Stromal Cells and Their Extracellular Vesicles in Carcinogenesis. Biology, 2022, 11, 813.	1.3	6
731	Advances in engineered exosomes towards cancer diagnosis and therapeutics. Progress in Biomedical Engineering, 2022, 4, 032002.	2.8	3
732	Serum extracellular vesicles for delivery of CRISPR-CAS9 ribonucleoproteins to modify the dystrophin gene. Molecular Therapy, 2022, 30, 2429-2442.	3.7	16

#	ARTICLE	IF	CITATIONS
733	Quantitative Biodistribution and Pharmacokinetics Study of GMP-Grade Exosomes Labeled with 89Zr Radioisotope in Mice and Rats. <i>Pharmaceutics</i> , 2022, 14, 1118.	2.0	15
734	The in vivo fate and targeting engineering of crossover vesicle-based gene delivery system. <i>Advanced Drug Delivery Reviews</i> , 2022, 187, 114324.	6.6	30
735	Turning adversity into opportunity: Small extracellular vesicles as nanocarriers for tumor-associated macrophages re-education. <i>Bioengineering and Translational Medicine</i> , 2023, 8, .	3.9	3
736	Acellular cardiac scaffolds enriched with MSC-derived extracellular vesicles limit ventricular remodelling and exert local and systemic immunomodulation in a myocardial infarction porcine model. <i>Theranostics</i> , 2022, 12, 4656-4670.	4.6	33
737	Applications of Extracellular Vesicles in Abdominal Aortic Aneurysm. <i>Frontiers in Cardiovascular Medicine</i> , 0, 9, .	1.1	5
738	Extracellular vesicles in cancer therapy. <i>Seminars in Cancer Biology</i> , 2022, 86, 296-309.	4.3	23
739	Identification of storage conditions stabilizing extracellular vesicles preparations. <i>Journal of Extracellular Vesicles</i> , 2022, 11, .	5.5	91
740	Mesenchymal Stem Cell Exosomes Encapsulated Oral Microcapsules for Acute Colitis Treatment. <i>Advanced Healthcare Materials</i> , 2022, 11, .	3.9	15
741	Assessment of endothelial colony forming cells delivery routes in a murine model of critical limb threatening ischemia using an optimized cell tracking approach. <i>Stem Cell Research and Therapy</i> , 2022, 13, .	2.4	1
742	Biological Features of Extracellular Vesicles and Challenges. <i>Frontiers in Cell and Developmental Biology</i> , 0, 10, .	1.8	34
743	Recent progress of dendritic cell-derived exosomes (Dex) as an anti-cancer nanovaccine. <i>Biomedicine and Pharmacotherapy</i> , 2022, 152, 113250.	2.5	28
744	A comparative analysis of extracellular vesicles (EVs) from human and feline plasma. <i>Scientific Reports</i> , 2022, 12, .	1.6	7
745	Skin-targeted delivery of extracellular vesicle-encapsulated curcumin using dissolvable microneedle arrays. <i>Acta Biomaterialia</i> , 2022, 149, 198-212.	4.1	35
746	Extracellular Vesicles – Oral Therapeutics of the Future. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7554.	1.8	10
747	The Roads We Take: Cellular Targets and Pathways Leading Biologics Across the Blood – Brain Barrier. <i>Frontiers in Drug Delivery</i> , 0, 2, .	0.4	0
748	Bioinspired Nanovesicles Convert the Skeletal Endothelium-Associated Secretory Phenotype to Treat Osteoporosis. <i>ACS Nano</i> , 2022, 16, 11076-11091.	7.3	20
749	Nano pom-poms prepared exosomes enable highly specific cancer biomarker detection. <i>Communications Biology</i> , 2022, 5, .	2.0	16
750	Extracellular vesicles for improved tumor accumulation and penetration. <i>Advanced Drug Delivery Reviews</i> , 2022, 188, 114450.	6.6	26

#	ARTICLE	IF	CITATIONS
751	Bioengineering Extracellular Vesicles for the Treatment of Cardiovascular Diseases. <i>Advanced Biology</i> , 2022, 6, .	1.4	3
752	Lactobacillus plantarum-derived extracellular vesicles protect against ischemic brain injury via the microRNA-101a-3p/c-Fos/TGF- β 2 axis. <i>Pharmacological Research</i> , 2022, 182, 106332.	3.1	16
753	^{64}Cu -labeling of small extracellular vesicle surfaces via a cross-bridged macrocyclic chelator for pharmacokinetic study by positron emission tomography imaging. <i>International Journal of Pharmaceutics</i> , 2022, 624, 121968.	2.6	8
754	Extracellular vesicles for renal therapeutics: State of the art and future perspective. <i>Journal of Controlled Release</i> , 2022, 349, 32-50.	4.8	20
755	Cell-derived nanovesicles prepared by membrane extrusion are good substitutes for natural extracellular vesicles. , 2022, 1, 100004.		29
756	Modification of adipose mesenchymal stem cells-derived small extracellular vesicles with fibrin-targeting peptide CREKA for enhanced bone repair. <i>Bioactive Materials</i> , 2023, 20, 208-220.	8.6	16
757	Extracellular vesicles engineered to bind albumin demonstrate extended circulation time and lymph node accumulation in mouse models. <i>Journal of Extracellular Vesicles</i> , 2022, 11, .	5.5	20
758	Isolation and characterization of extracellular vesicles and future directions in diagnosis and therapy. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2023, 15, .	3.3	35
759	Autologous exosome facilitates load and target delivery of bioactive peptides to repair spinal cord injury. <i>Bioactive Materials</i> , 2023, 25, 766-782.	8.6	7
760	Extracellular vesicles as an emerging drug delivery system for cancer treatment: Current strategies and recent advances. <i>Biomedicine and Pharmacotherapy</i> , 2022, 153, 113480.	2.5	26
761	Nanoparticles-Based Strategies to Improve the Delivery of Therapeutic Small Interfering RNA in Precision Oncology. <i>Pharmaceutics</i> , 2022, 14, 1586.	2.0	12
762	New Approaches for Enhancement of the Efficacy of Mesenchymal Stem Cell-Derived Exosomes in Cardiovascular Diseases. <i>Tissue Engineering and Regenerative Medicine</i> , 2022, 19, 1129-1146.	1.6	18
763	Extracellular Vesicles for Regenerative Medicine Applications. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 7472.	1.3	7
764	Mesenchymal stem cells exert renoprotection via extracellular vesicle-mediated modulation of M2 macrophages and spleen-kidney network. <i>Communications Biology</i> , 2022, 5, .	2.0	6
765	Specific anti-glioma targeted delivery strategy of engineered small extracellular vesicles dual-functionalised by Angiopep-2 and TAT peptides. <i>Journal of Extracellular Vesicles</i> , 2022, 11, .	5.5	43
766	Safety and biodistribution of exosomes derived from human induced pluripotent stem cells. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, .	2.0	8
767	Nanotechnology-Inspired Extracellular Vesicles Theranostics for Diagnosis and Therapy of Central Nervous System Diseases. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 182-199.	4.0	4
768	The Role of Extracellular Vesicles in COVID-19 Pathology. <i>Cells</i> , 2022, 11, 2496.	1.8	5

#	ARTICLE	IF	CITATIONS
769	Advances in extracellular vesicle functionalization strategies for tissue regeneration. <i>Bioactive Materials</i> , 2023, 25, 500-526.	8.6	17
770	Biomaterials constructed for MSC-derived extracellular vesicle loading and delivery—a promising method for tissue regeneration. <i>Frontiers in Cell and Developmental Biology</i> , 0, 10, .	1.8	8
771	Overcoming the blood-brain barrier: Exosomes as theranostic nanocarriers for precision neuroimaging. <i>Journal of Controlled Release</i> , 2022, 349, 902-916.	4.8	18
772	Multivalent ACE2 engineering—a promising pathway for advanced coronavirus nanomedicine development. <i>Nano Today</i> , 2022, 46, 101580.	6.2	7
773	Extracellular Vesicles Derived from Mesenchymal Stem Cells: A Potential Biodrug for Acute Respiratory Distress Syndrome Treatment. <i>BioDrugs</i> , 2022, 36, 701-715.	2.2	9
774	Engineered extracellular vesicles: A novel platform for cancer combination therapy and cancer immunotherapy. <i>Life Sciences</i> , 2022, 308, 120935.	2.0	13
775	EV-out or EV-in: Tackling cell-to-cell communication within the tumor microenvironment to enhance anti-tumor efficacy using extracellular vesicle-based therapeutic strategies. <i>OpenNano</i> , 2022, 8, 100085.	1.8	5
776	Engineered extracellular vesicles with high collagen-binding affinity present superior <i>in situ</i> retention and therapeutic efficacy in tissue repair. <i>Theranostics</i> , 2022, 12, 6021-6037.	4.6	14
777	Cellular nanovesicles for therapeutic immunomodulation: A perspective on engineering strategies and new advances. <i>Acta Pharmaceutica Sinica B</i> , 2023, 13, 1789-1827.	5.7	14
778	Circulating Myeloid Cell-derived Extracellular Vesicles as Mediators of Indirect Acute Lung Injury. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 0, , .	1.4	1
779	Microenvironmental cue-regulated exosomes as therapeutic strategies for improving chronic wound healing. <i>NPG Asia Materials</i> , 2022, 14, .	3.8	9
780	Targeting Capabilities of Native and Bioengineered Extracellular Vesicles for Drug Delivery. <i>Bioengineering</i> , 2022, 9, 496.	1.6	10
781	Extracellular vesicle therapy for traumatic central nervous system disorders. <i>Stem Cell Research and Therapy</i> , 2022, 13, .	2.4	6
783	Exosomes and Biomaterials: In Search of a New Therapeutic Strategy for Multiple Sclerosis. <i>Life</i> , 2022, 12, 1417.	1.1	5
785	Extracellular vesicles elicit protective immune responses against <i>Salmonella</i> infection. <i>Journal of Extracellular Vesicles</i> , 2022, 11, .	5.5	2
786	Multi-functional extracellular vesicles: Potentials in cancer immunotherapy. <i>Cancer Letters</i> , 2022, 551, 215934.	3.2	2
787	In Vivo Imaging for the Visualization of Extracellular Vesicle-Based Tumor Therapy. <i>ChemistryOpen</i> , 2022, 11, .	0.9	3
788	Nanoengineering facilitating the target mission: targeted extracellular vesicles delivery systems design. <i>Journal of Nanobiotechnology</i> , 2022, 20, .	4.2	19

#	ARTICLE	IF	CITATIONS
789	Tracking of Extracellular Vesiclesâ€™ Biodistribution: New Methods and Approaches. International Journal of Molecular Sciences, 2022, 23, 11312.	1.8	21
790	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
791	Comparative analysis of extracellular vesicle isolation methods from human AML bone marrow cells and AML cell lines. Frontiers in Oncology, 0, 12, .	1.3	8
792	Expression Profiles and Functional Analysis of Plasma Exosomal Circular RNAs in Acute Myocardial Infarction. BioMed Research International, 2022, 2022, 1-18.	0.9	1
793	ADSCs-derived exosomes ameliorate hepatic fibrosis by suppressing stellate cell activation and remodeling hepatocellular glutamine synthetase-mediated glutamine and ammonia homeostasis. Stem Cell Research and Therapy, 2022, 13, .	2.4	22
794	Application of mesenchymal stem cell-derived exosomes from different sources in intervertebral disc degeneration. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	16
795	Choroid plexus-derived extracellular vesicles exhibit brain targeting characteristics. Biomaterials, 2022, 290, 121830.	5.7	6
797	Heart-targeting exosomes from human cardiosphere-derived cells improve the therapeutic effect on cardiac hypertrophy. Journal of Nanobiotechnology, 2022, 20, .	4.2	13
798	Efficacy of miRNA-modified mesenchymal stem cell extracellular vesicles in spinal cord injury: A systematic review of the literature and network meta-analysis. Frontiers in Neuroscience, 0, 16, .	1.4	4
799	Advanced research on extracellular vesicles based oral drug delivery systems. Journal of Controlled Release, 2022, 351, 560-572.	4.8	11
801	Cell-derived nanovesicle-mediated drug delivery to the brain: Principles and strategies for vesicle engineering. Molecular Therapy, 2023, 31, 1207-1224.	3.7	37
802	Characteristics of Exosomes and the Vascular Landscape Regulate Exosome Sequestration by Peripheral Tissues and Brain. International Journal of Molecular Sciences, 2022, 23, 12513.	1.8	5
803	The role of miRNAs from mesenchymal stem/stromal cells-derived extracellular vesicles in neurological disorders. Human Cell, 2023, 36, 62-75.	1.2	6
804	Exosomes as CNS Drug Delivery Tools and Their Applications. Pharmaceutics, 2022, 14, 2252.	2.0	21
805	Chlorin e6-loaded goat milk-derived extracellular vesicles for Cerenkov luminescence-induced photodynamic therapy. European Journal of Nuclear Medicine and Molecular Imaging, 2023, 50, 508-524.	3.3	7
806	Radiovesicolomics-new approach in medical imaging. Frontiers in Physiology, 0, 13, .	1.3	3
807	Pharmacokinetics and biodistribution of extracellular vesicles administered intravenously and intranasally to <i>Macaca nemestrina</i> . , 2022, 1, .		34
808	Extracellular vesicles as advanced therapeutics for the resolution of organ fibrosis: Current progress and future perspectives. Frontiers in Immunology, 0, 13, .	2.2	5

#	ARTICLE	IF	CITATIONS
809	Advances of engineered extracellular vesicles-based therapeutics strategy. <i>Science and Technology of Advanced Materials</i> , 2022, 23, 655-681.	2.8	11
810	Combinatorial microRNA Loading into Extracellular Vesicles for Increased Anti-Inflammatory Efficacy. <i>Non-coding RNA</i> , 2022, 8, 71.	1.3	3
812	Extracellular vesicles: A new paradigm in understanding, diagnosing and treating neurodegenerative disease. <i>Frontiers in Aging Neuroscience</i> , 0, 14, .	1.7	5
813	Mesenchymal Stem Cell-Extracellular Vesicle Therapy in Patients with Stroke. , 2022, , 947-972.		0
814	Regenerative Medicine Applied to the Treatment of Musculoskeletal Pathologies. , 2022, , 1123-1158.		1
815	Advances in Extracellular Vesicle Nanotechnology for Precision Theranostics. <i>Advanced Science</i> , 2023, 10, .	5.6	23
816	Tumor-Derived Exosomes and Their Role in Breast Cancer Metastasis. <i>International Journal of Molecular Sciences</i> , 2022, 23, 13993.	1.8	7
817	Dual-labeled nanoparticles based on small extracellular vesicles for tumor detection. <i>Biology Direct</i> , 2022, 17, .	1.9	6
818	Thermosensitive hydrogel carrying extracellular vesicles from adipose-derived stem cells promotes peripheral nerve regeneration after microsurgical repair. <i>APL Bioengineering</i> , 2022, 6, .	3.3	6
819	Improving the circulation time and renal therapeutic potency of extracellular vesicles using an endogenous ligand binding strategy. <i>Journal of Controlled Release</i> , 2022, 352, 1009-1023.	4.8	6
820	Tracking tools of extracellular vesicles for biomedical research. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, .	2.0	6
821	Hair follicle-MSC-derived small extracellular vesicles as a novel remedy for acute pancreatitis. <i>Journal of Controlled Release</i> , 2022, 352, 1104-1115.	4.8	6
822	Bioinspired and biomimetic conjugated drug delivery system(s): A biohybrid concept combining cell(s) and drug delivery carrier(s). , 2023, , 465-483.		0
823	Extracellular Vesicles and Vascular Activity. , 2022, , 287-312.		0
824	Future in precise surgery: Fluorescence-guided surgery using EVs derived fluorescence contrast agent. <i>Journal of Controlled Release</i> , 2023, 353, 832-841.	4.8	2
825	Exosomes in sarcoma: Prospects for clinical applications. <i>Critical Reviews in Oncology/Hematology</i> , 2023, 181, 103895.	2.0	0
826	Extracellular vesicle-loaded hydrogels for tissue repair and regeneration. <i>Materials Today Bio</i> , 2023, 18, 100522.	2.6	62
827	Biodistribution of ⁸⁹ Zr-DFO-labeled avian pathogenic <i>Escherichia coli</i> outer membrane vesicles by PET imaging in chickens. <i>Poultry Science</i> , 2023, 102, 102364.	1.5	1

#	ARTICLE	IF	CITATIONS
828	Engineered extracellular vesicles for delivery of siRNA promoting targeted repair of traumatic spinal cord injury. <i>Bioactive Materials</i> , 2023, 23, 328-342.	8.6	17
829	Controlled release of canine MSC-derived extracellular vesicles by cationized gelatin hydrogels. <i>Regenerative Therapy</i> , 2023, 22, 1-6.	1.4	0
830	Progress in the Mechanism of the Protective Effect of Exosomes on Ischemic Stroke. <i>Advances in Clinical Medicine</i> , 2022, 12, 10591-10597.	0.0	0
831	Treatment with EV-miRNAs Alleviates Obesity-Associated Metabolic Dysfunction in Mice. <i>International Journal of Molecular Sciences</i> , 2022, 23, 14920.	1.8	5
832	Evaluation and manipulation of tissue and cellular distribution of cardiac progenitor cell-derived extracellular vesicles. <i>Frontiers in Pharmacology</i> , 0, 13, .	1.6	4
833	Origin and Composition of Exosomes as Crucial Factors in Designing Drug Delivery Systems. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 12259.	1.3	6
834	Extracellular Vesicle-Based Therapeutics in Neurological Disorders. <i>Pharmaceutics</i> , 2022, 14, 2652.	2.0	9
835	Extracellular Vesicles from Ocular Melanoma Have Pro-Fibrotic and Pro-Angiogenic Properties on the Tumor Microenvironment. <i>Cells</i> , 2022, 11, 3828.	1.8	3
836	Exosomes: from biology to immunotherapy in infectious diseases. <i>Infectious Diseases</i> , 2023, 55, 79-107.	1.4	5
837	m ⁶ A Reader YTHDF1-Targeting Engineered Small Extracellular Vesicles for Gastric Cancer Therapy via Epigenetic and Immune Regulation. <i>Advanced Materials</i> , 2023, 35, .	11.1	11
838	Using natural killer cell-derived exosomes as a cell-free therapy for leukemia. <i>Hematological Oncology</i> , 2023, 41, 487-498.	0.8	6
839	Extracellular Vesicles as Drug Targets and Delivery Vehicles for Cancer Therapy. <i>Pharmaceutics</i> , 2022, 14, 2822.	2.0	6
840	Biomaterial application strategies to enhance stem cell-based therapy for ischemic stroke. <i>World Journal of Stem Cells</i> , 0, 14, 851-867.	1.3	0
841	Application and Molecular Mechanisms of Extracellular Vesicles Derived from Mesenchymal Stem Cells in Osteoporosis. <i>Current Issues in Molecular Biology</i> , 2022, 44, 6346-6367.	1.0	2
842	Membrane Protein Modification Modulates Big and Small Extracellular Vesicle Biodistribution and Tumorigenic Potential in Breast Cancers In Vivo. <i>Advanced Materials</i> , 2023, 35, .	11.1	12
843	Exosomes-Based Nanomedicine for Neurodegenerative Diseases: Current Insights and Future Challenges. <i>Pharmaceutics</i> , 2023, 15, 298.	2.0	6
844	Liposomes or Extracellular Vesicles: A Comprehensive Comparison of Both Lipid Bilayer Vesicles for Pulmonary Drug Delivery. <i>Polymers</i> , 2023, 15, 318.	2.0	8
845	Extracellular vesicles from mesenchymal stem cells reduce neuroinflammation in hippocampus and restore cognitive function in hyperammonemic rats. <i>Journal of Neuroinflammation</i> , 2023, 20, .	3.1	4

#	ARTICLE	IF	CITATIONS
846	Extracellular vesicles: Targeting the heart. <i>Frontiers in Cardiovascular Medicine</i> , 0, 9, .	1.1	5
847	Recent advances in macrophage-derived exosomes as delivery vehicles. , 2022, 1, e9130013.		8
848	Extracellular vesicles, the emerging mirrors of brain physiopathology. <i>International Journal of Biological Sciences</i> , 2023, 19, 721-743.	2.6	20
849	Extracellular Vesicles and Viruses: Two Intertwined Entities. <i>International Journal of Molecular Sciences</i> , 2023, 24, 1036.	1.8	11
850	Effect of platelet exosomes loaded with doxorubicin as a targeted therapy on triple-negative breast cancer cells. <i>Molecular Diversity</i> , 0, , .	2.1	13
851	Significant Biotransformation of Arsenobetaine into Inorganic Arsenic in Mice. <i>Toxics</i> , 2023, 11, 91.	1.6	0
853	Milk exosomes: an oral drug delivery system with great application potential. <i>Food and Function</i> , 2023, 14, 1320-1337.	2.1	8
854	Comprehensive overview of microRNA function in rheumatoid arthritis. <i>Bone Research</i> , 2023, 11, .	5.4	15
855	Extracellular Vesicles as Therapeutic Resources in the Clinical Environment. <i>International Journal of Molecular Sciences</i> , 2023, 24, 2344.	1.8	16
856	Stem cell- derived extracellular vesicles as new tools in regenerative medicine - Immunomodulatory role and future perspectives. <i>Frontiers in Immunology</i> , 0, 14, .	2.2	12
857	Extracellular Vesicles from Mesenchymal Stem Cells: Towards Novel Therapeutic Strategies for Neurodegenerative Diseases. <i>International Journal of Molecular Sciences</i> , 2023, 24, 2917.	1.8	7
858	Role of noncoding RNAs in orthodontic tooth movement: new insights into periodontium remodeling. <i>Journal of Translational Medicine</i> , 2023, 21, .	1.8	3
859	Engineered EVs designed to target diseases of the CNS. <i>Journal of Controlled Release</i> , 2023, 356, 493-506.	4.8	11
860	Small Extracellular Vesiclesâ€™ miRNAs: Biomarkers and Therapeutics for Neurodegenerative Diseases. <i>Pharmaceutics</i> , 2023, 15, 1216.	2.0	5
861	Role of microbial microbes in arsenic bioaccumulation and biotransformation in mice. <i>Toxicology and Applied Pharmacology</i> , 2023, 464, 116447.	1.3	3
862	On the other end of the line: Extracellular vesicle-mediated communication in glaucoma. <i>Frontiers in Neuroanatomy</i> , 0, 17, .	0.9	2
863	Exosomal non coding RNAs as a novel target for diabetes mellitus and its complications. <i>Non-coding RNA Research</i> , 2023, 8, 192-204.	2.4	15
864	Formation of pre-metastatic niches induced by tumor extracellular vesicles in lung metastasis. <i>Pharmacological Research</i> , 2023, 188, 106669.	3.1	5

#	ARTICLE	IF	CITATIONS
865	Extracellular vesicles derived from dental mesenchymal stem/stromal cells with gemcitabine as a cargo have an inhibitory effect on the growth of pancreatic carcinoma cell lines in vitro. <i>Molecular and Cellular Probes</i> , 2023, 67, 101894.	0.9	9
866	Drug delivery as a sustainable avenue to future therapies. <i>Journal of Controlled Release</i> , 2023, 354, 746-754.	4.8	4
867	Oral Administration of Bovine Milk-Derived Extracellular Vesicles Attenuates Cartilage Degeneration via Modulating Gut Microbiota in DMM-Induced Mice. <i>Nutrients</i> , 2023, 15, 747.	1.7	6
868	Insight on nano drug delivery systems with targeted therapy in treatment of oral cancer. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2023, 49, 102662.	1.7	12
869	CAR-T-Derived Extracellular Vesicles: A Promising Development of CAR-T Anti-Tumor Therapy. <i>Cancers</i> , 2023, 15, 1052.	1.7	4
870	Biodistribution of Intratracheal, Intranasal, and Intravenous Injections of Human Mesenchymal Stromal Cell-Derived Extracellular Vesicles in a Mouse Model for Drug Delivery Studies. <i>Pharmaceutics</i> , 2023, 15, 548.	2.0	8
871	Adipocyte-derived extracellular vesicles increase insulin secretion through transport of insulinotropic protein cargo. <i>Nature Communications</i> , 2023, 14, .	5.8	15
872	Research Progress of Extracellular Vesicles Targeted Therapy. <i>Advanced Therapeutics</i> , 2023, 6, .	1.6	0
873	Exosomal miR-128-3p reversed fibrinogen-mediated inhibition of oligodendrocyte progenitor cell differentiation and remyelination after cerebral ischemia. <i>CNS Neuroscience and Therapeutics</i> , 2023, 29, 1405-1422.	1.9	6
874	Superfluorinated Extracellular Vesicles for In Vivo Imaging by ¹⁹ F-MRI. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 8974-8985.	4.0	3
876	Exosomes for angiogenesis induction in ischemic disorders. <i>Journal of Cellular and Molecular Medicine</i> , 2023, 27, 763-787.	1.6	12
877	Therapeutic potential of extracellular vesicles in neurodegenerative disorders. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2023, , 243-266.	1.0	5
878	Combination of Biomaterials and Extracellular Vesicles from Mesenchymal Stem-Cells: New Therapeutic Strategies for Skin-Wound Healing. <i>Applied Sciences (Switzerland)</i> , 2023, 13, 2702.	1.3	1
879	Oral Administration as a Potential Alternative for the Delivery of Small Extracellular Vesicles. <i>Pharmaceutics</i> , 2023, 15, 716.	2.0	5
880	Nanoparticles labeled with gamma-emitting radioisotopes: an attractive approach for in vivo tracking using SPECT imaging. <i>Drug Delivery and Translational Research</i> , 2023, 13, 1546-1583.	3.0	2
881	Hybrid extracellular vesicles for drug delivery. <i>Cancer Letters</i> , 2023, 558, 216107.	3.2	12
882	Human Pluripotent Stem Cell-Derived Mesenchymal Stem Cell-Derived Exosomes Promote Ovarian Granulosa Cell Proliferation and Attenuate Cell Apoptosis Induced by Cyclophosphamide in a POI-Like Mouse Model. <i>Molecules</i> , 2023, 28, 2112.	1.7	5
883	Exosome Mediated Cancer Therapeutic Approach: Present Status and Future Prospectives. <i>Asian Pacific Journal of Cancer Prevention</i> , 2023, 24, 363-373.	0.5	6

#	ARTICLE	IF	CITATIONS
884	Inhibitory Effects of Extracellular Vesicles from iPS-Cell-Derived Mesenchymal Stem Cells on the Onset of Sialadenitis in Sjögren's Syndrome Are Mediated by Immunomodulatory Splenocytes and Improved by Inhibiting miR-125b. <i>International Journal of Molecular Sciences</i> , 2023, 24, 5258.	1.8	2
885	Extracellular Vesicles as Drug Delivery Systems in Organ Transplantation: The Next Frontier. <i>Pharmaceutics</i> , 2023, 15, 891.	2.0	4
886	Placental Extracellular Vesicles Can Be Loaded with Plasmid DNA. <i>Molecular Pharmaceutics</i> , 2023, 20, 1898-1913.	2.3	3
887	Estrogen receptor alpha deficiency in cardiomyocytes reprograms the heart-derived extracellular vesicle proteome and induces obesity in female mice. , 2023, 2, 268-289.		1
888	The biodistribution of placental and fetal extracellular vesicles during pregnancy following placentation. <i>Clinical Science</i> , 2023, 137, 385-399.	1.8	3
889	Engineered exosomes from different sources for cancer-targeted therapy. <i>Signal Transduction and Targeted Therapy</i> , 2023, 8, .	7.1	51
890	Current advances in non-viral gene delivery systems: Liposomes versus extracellular vesicles. , 2023, 1, .		14
891	Extracellular vesicles as novel drug delivery systems to target cancer and other diseases: Recent advancements and future perspectives. <i>F1000Research</i> , 0, 12, 329.	0.8	2
892	From Exosome Biogenesis to Absorption: Key Takeaways for Cancer Research. <i>Cancers</i> , 2023, 15, 1992.	1.7	8
893	Exosome-based nanoimmunotherapy targeting TAMs, a promising strategy for glioma. <i>Cell Death and Disease</i> , 2023, 14, .	2.7	12
895	Mesenchymal stromal/stem cell (MSC)-derived exosomes in clinical trials. <i>Stem Cell Research and Therapy</i> , 2023, 14, .	2.4	34
896	Research progress of engineered mesenchymal stem cells and their derived exosomes and their application in autoimmune/inflammatory diseases. <i>Stem Cell Research and Therapy</i> , 2023, 14, .	2.4	8
897	Exosomes derived from human umbilical cord mesenchymal stem cells alleviate Parkinson's disease and neuronal damage through inhibition of microglia. <i>Neural Regeneration Research</i> , 2023, 18, 2291.	1.6	9
898	Targeted Extracellular Vesicle Gene Therapy for Modulating Alpha-Synuclein Expression in Gut and Spinal Cord. <i>Pharmaceutics</i> , 2023, 15, 1230.	2.0	3
899	A review of the regulatory mechanisms of extracellular vesicles-mediated intercellular communication. <i>Cell Communication and Signaling</i> , 2023, 21, .	2.7	33
900	Investigational Use of Mesenchymal Stem/Stromal Cells and Their Secretome as Add-On Therapy in Severe Respiratory Virus Infections: Challenges and Perspectives. <i>Advances in Therapy</i> , 2023, 40, 2626-2692.	1.3	8
901	Potential for Therapeutic-Loaded Exosomes to Ameliorate the Pathogenic Effects of α -Synuclein in Parkinson's Disease. <i>Biomedicines</i> , 2023, 11, 1187.	1.4	5
902	Bioengineered Mesenchymal-Stromal-Cell-Derived Extracellular Vesicles as an Improved Drug Delivery System: Methods and Applications. <i>Biomedicines</i> , 2023, 11, 1231.	1.4	2

#	ARTICLE	IF	CITATIONS
903	Gamma-ray involved in cancer therapy and imaging. , 2023, , 295-345.		2
909	Modification of Extracellular Vesicle Surfaces: An Approach for Targeted Drug Delivery. BioDrugs, 2023, 37, 353-374.	2.2	2
942	The therapeutic potential of exosomes in lung cancer. Cellular Oncology (Dordrecht), 2023, 46, 1181-1212.	2.1	2
968	Nature vs. Manmade: Comparing Exosomes and Liposomes for Traumatic Brain Injury. AAPS Journal, 2023, 25, .	2.2	1
973	Engineered exosomes for tissue regeneration: from biouptake, functionalization and biosafety to applications. Biomaterials Science, 2023, 11, 7247-7267.	2.6	1
992	Advanced Formulation Approaches for Emerging Therapeutic Technologies. Handbook of Experimental Pharmacology, 2023, , .	0.9	0
998	Extracellular Vesicles: The Challenges on the Way and Engineering Perspectives. , 2023, , 1-37.		0
1005	Innovative preconditioning strategies for improving the therapeutic efficacy of extracellular vesicles derived from mesenchymal stem cells in gastrointestinal diseases. Inflammopharmacology, 0, , .	1.9	0
1024	Immunomodulation of Antiviral Response by Mesenchymal Stromal Cells (MSCs). , 0, , .		0
1030	Role of Extracellular Vesicles in Cardiac Regeneration. Physiology, 0, , .	4.0	0