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Extracellular vesicles: biology and emerging therapeutic opportunities

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1657	Pericyte Secretome. <b>2018</b> , 1109, 139-163	19

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244	Exosomes as mediators of tumor immune escape and immunotherapy in hepatocellular carcinoma. <b>2022</b> ,	
243	Effect of invasive mechanical ventilation on the diversity of the pulmonary microbiota. <b>2022</b> , 26,	O
242	Long Noncoding RNA SBF2-AS1 Promotes Abdominal Aortic Aneurysm Formation through the miRNA-520f-3p/SMARCD1 Axis. <b>2022</b> , 2022, 1-10	
241	Matrix Bound Nanovesicles have Tissue Specific Characteristics that Suggest a Regulatory Role.	O
240	Advances in mesenchymal stromal cell therapy for acute lung injury/acute respiratory distress syndrome. 10,	1
239	A brief glimpse of a tangled web in a small world: Tumor microenvironment. 9,	O
238	Lung-Based, Exosome Inhibition Mediates Systemic Impacts Following Particulate Matter Exposure. <b>2022</b> , 10, 457	
237	BMI1 promotes cholangiocarcinoma progression and correlates with antitumor immunity in an exosome-dependent manner. <b>2022</b> , 79,	O
236	Non-small cell lung carcinoma (NSCLC): Implications on molecular pathology and advances in early diagnostics and therapeutics. <b>2022</b> ,	1
235	The Role of Extracellular Vesicles in COVID-19 Pathology. <b>2022</b> , 11, 2496	O

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233	Exosomes: Small Vesicles with Important Roles in the Development, Metastasis and Treatment of Breast Cancer. <b>2022</b> , 12, 775	O
232	Extracellular vesicles modulate inflammatory signaling in chronically ischemic myocardium of swine with metabolic syndrome. <b>2022</b> ,	0
231	The Role of Macrophage-Derived Extracellular Vesicles in Gastrointestinal Cancers.	
230	Advances in the use of exosomes for the treatment of ALI/ARDS. 13,	2
229	Extruded small extracellular vesicles: splinters of circulating tumour cells may promote cancer metastasis?.	O
228	The role and therapeutic applications of exosomes in multiple sclerosis disease.	
227	Exosomal circular RNAs: Biogenesis, effect, and application in cardiovascular diseases. 10,	2
226	Multivalent ACE2 engineering promising pathway for advanced coronavirus nanomedicine development. <b>2022</b> , 46, 101580	1
225	Urinary Exosomes: A Promising Biomarker for Disease Diagnosis.	О
224	The link between gestational diabetes and cardiovascular diseases: potential role of extracellular vesicles. <b>2022</b> , 21,	0
223	Novel antitumor therapeutic strategy using CD4+ T cell-derived extracellular vesicles. <b>2022</b> , 289, 121765	O
222	BDE-209 and TCDD enhance metastatic characteristics of melanoma cells after chronic exposure. <b>2022</b> , 313, 120140	0
221	Comparative proteomic profiling of Small Extracellular vesicles derived from iPSCs and tissue specific mesenchymal stem cells. <b>2022</b> , 420, 113354	1
220	Apoptotic bodies for advanced drug delivery and therapy. <b>2022</b> , 351, 394-406	2
219	In vitro evaluation of immunomodulatory activities of goat milk Extracellular Vesicles (mEVs) in a model of gut inflammation. <b>2022</b> , 152, 546-556	O
218	Bioinspired Nanomaterials and Nanostructures from Nanobiology to Nanomedicine. <b>2022</b> , 1-31	О

216	MicroRNAs and diabetes mellitus. <b>2022</b> , 373-400	О
215	Iron as spirit of life to share under monopoly. <b>2022</b> , 71, 78-88	1
214	MiRNA as a Potential Target for Multiple Myeloma Therapyllurrent Knowledge and Perspectives. <b>2022</b> , 12, 1428	O
213	Cellular nanovesicles for therapeutic immunomodulation: a perspective on engineering strategies and new advances. <b>2022</b> ,	O
212	The Role of Sphingomyelin and Ceramide in Motor Neuron Diseases. <b>2022</b> , 12, 1418	0
211	Deep Learning-Enabled Raman Spectroscopic Identification of Pathogen-Derived Extracellular Vesicles and the Biogenesis Process. <b>2022</b> , 94, 12416-12426	1
210	Exosomes: A novel insight into traditional Chinese medicine. 13,	0
209	Methods of the Large-Scale Production of Extracellular Vesicles. <b>2022</b> , 23, 10522	3
208	Microenvironmental cue-regulated exosomes as therapeutic strategies for improving chronic wound healing. <b>2022</b> , 14,	2
207	Identification of a serum and urine extracellular vesicle signature predicting renal outcome after kidney transplant.	0
206	Extracellular vesicles as a novel photosensitive drug delivery system for enhanced photodynamic therapy. 10,	0
205	Extracellular Vesicles in Sickle Cell Disease: A Promising Tool. <b>2022</b> , 9, 439	0
204	Human mesenchymal stem cells and derived extracellular vesicles reduce sensory neuron hyperexcitability and pain behaviors in murine osteoarthritis.	0
203	Involvement of Inflammation and Its Resolution in Disease and Therapeutics. <b>2022</b> , 23, 10719	O
202	Composition, Biogenesis, and Role of Exosomes in Tumor Development. <b>2022</b> , 2022, 1-12	О
201	Characterization and function of extracellular vesicles in a canine mammary tumour cell line: ultracentrifugation versus size exclusion chromatography.	O
200	Targeted delivery of triptolide by dendritic cell-derived exosomes for colitis and rheumatoid arthritis therapy in murine models.	2
199	GPCRs in Intracellular Compartments: New Targets for Drug Discovery. <b>2022</b> , 12, 1343	0

198	Insights into CD24 and Exosome Physiology and Potential Role in View of Recent Advances in COVID-19 Therapeutics: A Narrative Review. <b>2022</b> , 12, 1472	0
197	Mesenchymal stem cell culture within perfusion bioreactors incorporating 3D-printed scaffolds enables improved extracellular vesicle yield with preserved bioactivity.	Ο
196	Systemic proteomics and miRNA profile analysis of exosomes derived from human pluripotent stem cells. <b>2022</b> , 13,	0
195	A novel surface functionalization platform to prime extracellular vesicles for targeted therapy and diagnostic imaging. <b>2022</b> , 102607	Ο
194	Bone Implants (Bone Regeneration and Bone Cancer Treatments). 2022, 265-321	0
193	An immunogold single extracellular vesicular RNA and protein (Au SERP) biochip to predict responses to immunotherapy in non-small cell lung cancer patients. <b>2022</b> , 11,	1
192	Human pluripotent stem cell-derived macrophages and macrophage-derived exosomes: therapeutic potential in pulmonary fibrosis. <b>2022</b> , 13,	0
191	Extracellular vesicle miRNAs promote the intestinal microenvironment by interacting with microbes in colitis. <b>2022</b> , 14,	Ο
190	Altered extracellular mRNA communication in postpartum depression is associated with decreased autophagy.	0
189	The identification of novel small extracellular vesicle (sEV) production modulators using luciferase-based sEV quantification method. <b>2022</b> , 1,	O
188	Stem Cell-derived Extracellular Vesicles: A Promising Nano Delivery Platform to the Brain?.	1
187	Comparative analysis of extracellular vesicle isolation methods from human AML bone marrow cells and AML cell lines. 12,	1
186	Application of mesenchymal stem cell-derived exosomes from different sources in intervertebral disc degeneration. 10,	1
185	Choroid plexus-derived extracellular vesicles exhibit brain targeting characteristics. <b>2022</b> , 121830	Ο
184	General consensus on multimodal functions and validation analysis of perinatal derivatives for regenerative medicine applications. 10,	1
183	Exosomes in the tumor microenvironment: Promoting cancer progression. 13,	Ο
182	Engineered DBCO+PD-1 Nanovesicles Carrying 1-MT for Cancer-Targeted Immunotherapy.	О
181	SNAP23-Mediated Perturbation of Cholesterol-Enriched Membrane Microdomain Promotes Extracellular Vesicle Production in Src-Activated Cancer Cells. <b>2022</b> , 45, 1572-1580	Ο

180	Universal platform for accurately damage-free mapping of sEVs cargo information. 2022, 1232, 340432	О
179	Ovarian Cancer Biomarkers. <b>2022</b> , 27-42	О
178	Cancer-associated Fibroblasts Communicate with Breast Tumor Cells Through Extracellular Vesicles in Tumor Development. <b>2022</b> , 21, 153303382211316	О
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174	An optimized exosome production strategy for enhanced yield while without sacrificing cargo loading efficiency. <b>2022</b> , 20,	0
173	Exosomes as CNS Drug Delivery Tools and Their Applications. <b>2022</b> , 14, 2252	1
172	A hydrogel-based mechanical metamaterial for the interferometric profiling of extracellular vesicles in patient samples.	О
171	Mesenchymal stem cells-derived exosomes as a promising new approach for the treatment of infertility caused by polycystic ovary syndrome. 13,	O
170	Endothelial Progenitor-Derived exosomes Induce Macrophage M2 Polarization via SOCS3/JAK2/STAT3 axis and Improve the Outcome of Spinal Cord Injury.	O
169	Exosomes in Neuroblastoma Biology, Diagnosis, and Treatment. <b>2022</b> , 12, 1714	1
168	Platelets and platelet extracellular vesicles in drug delivery therapy: A review of the current status and future prospects. 13,	2
167	Alterations in maternal plasma exosomal miRNAs revealed selective material exchange between maternal circulation and placenta.	O
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165	Exosomes as New Generation Vehicles for Drug Delivery: Biomedical Applications and Future Perspectives. <b>2022</b> , 27, 7289	1
164	Biomarkers of Bladder Cancer: Cell-Free DNA, Epigenetic Modifications and Non-Coding RNAs. <b>2022</b> , 23, 13206	1
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161	Extracellular vesicles from adult Fasciola gigantica provide clues for new vaccine targets against fascioliasis.	O
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156	Follicular fluid extracellular vesicle miRNAs and ovarian aging. 2023, 538, 29-35	1
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154	Theme 06 - Tissue Biomarkers. <b>2022</b> , 23, 99-109	0
153	The role of microglial exosomes in brain injury. 16,	
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152	Decoding vesicle-based precision oncology in gliomas. <b>2022</b> , 4, ii53-ii60	0
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141	The Effect of Extracellular Vesicles on Thrombosis.	1
140	Dual role of brain-derived extracellular vesicles in dementia-related neurodegenerative disorders: cargo of disease spreading signals and diagnostic-therapeutic molecules. <b>2022</b> , 11,	1
139	Reprogramming of T cell-derived small extracellular vesicles using IL2 surface engineering induces potent anti-cancer effects through miRNA delivery. <b>2022</b> , 11, 12287	O
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137	Chicoric acid enhances the antioxidative defense system and protects against inflammation and apoptosis associated with the colitis model induced by dextran sulfate sodium in rats.	O
136	Exosomal MicroRNA Profiling. <b>2023</b> , 13-47	O
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134	Extracellular Vesicle-Based Therapeutics in Neurological Disorders. <b>2022</b> , 14, 2652	1
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121	Anticarcinogenic impact of extracellular vesicles (exosomes) from cord blood stem cells in malignant melanoma: A potential biological treatment.	O
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116	Antimicrobial and Immunomodulatory Potential of Cow Colostrum Extracellular Vesicles (ColosEVs) in an Intestinal In Vitro Model. <b>2022</b> , 10, 3264	0
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114	Emerging therapeutic roles of small heat shock protein-derived mini-chaperones and their delivery strategies. <b>2022</b> ,	0
113	Engineered high-affinity dual targeting cellular nanovesicles for optimized cancer immunotherapy.	O
112	Liposomes or Extracellular Vesicles: A Comprehensive Comparison of Both Lipid Bilayer Vesicles for Pulmonary Drug Delivery. <b>2023</b> , 15, 318	0
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100	Extracellular vesicles of immune cells; immunomodulatory impacts and therapeutic potentials. <b>2023</b> , 109237	0
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97	Advanced technologies for molecular diagnosis of cancer: State of pre-clinical tumor-derived exosome liquid biopsies. <b>2023</b> , 18, 100538	O
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88	Mesenchymal stem cell-derived extracellular vesicles, osteoimmunology and orthopedic diseases. 11, e14677	О
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85	Odor Discrimination by Lipid Membranes. <b>2023</b> , 13, 151	Ο
84	Immunomagnetic Separation Method Integrated with the Strep-Tag II System for Rapid Enrichment and Mild Release of Exosomes.	О
83	Microfluidic Platform for Profiling of Extracellular Vesicles from Single Breast Cancer Cells.	O
82	Molecular characterization of extracellular vesicles derived from follicular fluid of women with and without PCOS: integrating analysis of differential miRNAs and proteins reveals vital molecules involving in PCOS.	О
81	Research progress of exosomes in pathogenesis, diagnosis, and treatment of ocular diseases. 11,	0
80	Bioengineered 3D Skeletal Muscle Model Reveals Complement 4b as a Cell-Autonomous Mechanism of Impaired Regeneration with Aging. 2207443	0
79	Targeted cancer therapy: The future of drug combinations. <b>2023</b> , 189-217	O
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69	Hybrid Nanoparticle System Integrating Tumor-Derived Exosomes and Poly(amidoamine) Dendrimers: Implications for an Effective Gene Delivery Platform.	O
68	Extracellular vesicles in vaccine development and therapeutic approaches for viral diseases. <b>2023</b> , 128, 167-180	O
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65	Hybrid nanovesicle of chimeric antigen receptor (CAR)-engineered cell-derived vesicle and drug-encapsulated liposome for effective cancer treatment. <b>2023</b> , 122, 127-137	O
64	Protein content of blood-derived extracellular vesicles: An approach to the pathophysiology of cerebral hemorrhage. 16,	O
63	Extracellular Vesicles from NMN Preconditioned Mesenchymal Stem Cells Ameliorated Myocardial Infarction via miR-210-3p Promoted Angiogenesis.	O
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61	Drug delivery as a sustainable avenue to future therapies. <b>2023</b> , 354, 746-754	O
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58	Augmenting Intracellular Cargo Delivery of Extracellular Vesicles in Hypoxic Tissues through Inhibiting Hypoxia-Induced Endocytic Recycling. <b>2023</b> , 17, 2537-2553	0
57	Deciphering the Heterogeneity Landscape of Mesenchymal Stem/Stromal Cell-Derived Extracellular Vesicles for Precise Selection in Translational Medicine.	O
56	Advancements and Technical Considerations for Extracellular Vesicle Isolation and Biomarker Identification in Glioblastoma. <b>2023</b> , Publish Ahead of Print,	0
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53	Exosomal miR -128-3p reversed fibrinogen-mediated inhibition of oligodendrocyte progenitor cell differentiation and remyelination after cerebral ischemia. <b>2023</b> , 29, 1405-1422	O
52	Proteomic analysis of exosome-like vesicles from Fasciola gigantica adult worm provides support for new vaccine targets against fascioliasis. <b>2023</b> , 16,	О
51	TNFRSF10B is involved in motor dysfunction in Parkinson's disease by regulating exosomal    Bynuclein secretion from microglia. <b>2023</b> , 129, 102249	О
50	Current challenges and future directions for engineering extracellular vesicles for heart, lung, blood and sleep diseases. <b>2023</b> , 12, 12305	О
49	The role of miRNAs in liver diseases: Potential therapeutic and clinical applications. 2023, 243, 154375	O
48	Nurturing the marriages of urinary liquid biopsies and nano-diagnostics for precision urinalysis of prostate cancer. <b>2023</b> , 2,	О
47	Producing vesicle-free cell culture additive for human cells extracellular vesicles manufacturing. <b>2023</b> , 355, 501-514	O
46	Mitochondria on the move: Horizontal mitochondrial transfer in disease and health. 2023, 222,	О
45	The human periconceptional maternal-embryonic space in health and disease. <b>2023</b> , 103, 1965-2038	О
44	Extracellular vesicles in bacterial and fungal diseases IPathogenesis to diagnostic biomarkers. <b>2023</b> , 14,	О
43	Isolation and characterization of extracellular vesicle-like nanoparticles derived from migrasomes.	O
42	Exploiting the biogenesis of extracellular vesicles for bioengineering and therapeutic cargo loading. <b>2023</b> ,	О
41	Mesenchymal stem cell-derived extracellular vesicles/exosome: A promising therapeutic strategy for intracerebral hemorrhage. <b>2023</b> , 22, 181-190	O
40	Evaluating the defect targeting effects and osteogenesis promoting capacity of exosomes from 2D- and 3D-cultured human adipose-derived stem cells. <b>2023</b> , 49, 101789	O
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38	Extracellular vesicles from medicated plasma of Buyang Huanwu decoction-preconditioned neural stem cells accelerate neurological recovery following ischemic stroke. 11,	О
37	Upconversion nanoscopy revealing surface heterogeneity of tumor-secreted extracellular vesicles. <b>2023</b> , 12,	O

36	Concise review: Current understanding of extracellular vesicles to treat neuropathic pain. 15,	O
35	iPSC-sEVs alleviate microglia senescence to protect against ischemic stroke in aged mice. <b>2023</b> , 19, 100600	O
34	Challenges and Opportunities for Extracellular Vesicles in Clinical Oncology Therapy. <b>2023</b> , 10, 325	0
33	Exosomal circular RNAs: New player in breast cancer progression and therapeutic targets. 14,	О
32	PTD-FGF2 Attenuates Elastase Induced Emphysema in Mice and Alveolar Epithelial Cell Injury. <b>2023</b> , 20, 109-118	О
31	Saliva and Saliva Extracellular Vesicles for Biomarker Candidate Identification Assay Development and Pilot Study in Amyotrophic Lateral Sclerosis. <b>2023</b> , 24, 5237	O
30	Johannes-Wenner-Preis 2022: Der Einfluss von Muttermilchern Brung auf die Entwicklung von Allergien und Atemwegsinfektionen. <b>2023</b> , 235, 140-142	О
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28	Epitope Imprinting of Phospholipids by Oriented Assembly at the Oil/Water Interface for the Selective Recognition of Plasma Membranes.	О
27	Epitope Imprinting of Phospholipids by Oriented Assembly at the Oil/Water Interface for the Selective Recognition of Plasma Membranes.	O
26	Mesenchymal Stem Cell Culture within Perfusion Bioreactors Incorporating 3D-Printed Scaffolds Enables Improved Extracellular Vesicle Yield with Preserved Bioactivity.	0
25	Exosomes in COVID-19 infection: Focus on role in diagnosis, pathogenesis, immunity, and clinical trials.	O
24	Extracellular Vesicles as Biomarkers in Head and Neck Squamous Cell Carcinoma: From Diagnosis to Disease-Free Survival. <b>2023</b> , 15, 1826	О
23	Exosomal Lnc NEAT1 from endothelial cells promote bone regeneration by regulating macrophage polarization via DDX3X/NLRP3 axis. <b>2023</b> , 21,	O
22	Surface Plasmon Resonance (SPR) Sensor for Cancer Biomarker Detection. 2023, 13, 396	0
21	Current advances in non-viral gene delivery systems: Liposomes versus extracellular vesicles.	O
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