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Fate of the transferrin receptor during maturation of sheep reticulocytes in vitro: selective externalization of the receptor

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#	Paper	IF	Citations
1373	Phosphorylation of the transferrin receptor in isolated sheep reticulocyte plasma membranes. 1984 , 62, 927-34		14
1372	Mammalian reticulocytes lose adhesion to fibronectin during maturation to erythrocytes. 1985 , 82, 440-4		79
1371	Properties and characterization of vesicles released by young and old human red cells. 1985 , 59, 513-22		27
1370	Electron microscopic evidence for externalization of the transferrin receptor in vesicular form in sheep reticulocytes. 1985 , 101, 942-8		820
1369	Effects of chlorpromazine and other calmodulin antagonists on phosphatidylcholine-induced vesiculation of platelet plasma membranes. 1986 , 855, 58-62		8
1368	Evidence for a pool of non-recycling transferrin receptors in peripheral sheep reticulocytes. 1986 , 127, 8-16		17
1367	Circulating transferrin receptor in human serum. 1986 , 64, 277-81		159
1366	The fibronectin receptor on mammalian erythroid precursor cells: characterization and developmental regulation. 1986 , 102, 449-56		134
1365	A fibronectin matrix is required for differentiation of murine erythroleukemia cells into reticulocytes. 1987 , 105, 3105-18		125
1364	Protein kinase C does not phosphorylate the externalized form of the transferrin receptor. 1987 , 242, 151-61		6
1363	Influence of the membrane undercoat on filipin perturbation of the red blood cell membrane. 1987 , 171, 321-30		7
1362	Changes in erythroid membrane proteins during erythropoietin-mediated terminal differentiation. 1987 , 133, 438-48		39
1361	Characteristics of membrane transport losses during reticulocyte maturation. 1987 , 65, 869-75		21
1360	Externalization of membrane-bound activities during sheep reticulocyte maturation is temperature and ATP dependent. 1987 , 65, 1080-90		16
1359	Isolation of the rat transferrin receptor by affinity chromatography. 1987 , 396, 369-73		8
1358	Effect of red cell age on vesiculation in vitro. 1988 , 68, 465-7		37
1357	Red cell vacuoles: their size and distribution under normal conditions and after splenectomy. 1988 , 27, 265-71		18

1356	Characterization of plasma membrane shedding from murine melanoma cells. 1988 , 41, 629-35	45
1355	Evidence for bidirectional transverse diffusion of spin-labeled phospholipids in the plasma membrane of guinea pig blood cells. 1988 , 946, 315-27	20
1354	Immunoreactive transferrin receptor in sera of pregnant women. 1988 , 9, 523-31	17
1353	The cellular dynamics of hepatic receptors for alpha 2-macroglobulin.protease complex and for insulin are different. 1988 , 103, 348-53	4
1352	Maturation-associated loss and incomplete de novo synthesis of the transferrin receptor in peripheral sheep reticulocytes: response to heme and iron. 1989 , 140, 107-18	7
1351	Asymmetric distribution of phospholipids in the membrane of vesicles released during in vitro maturation of guinea pig reticulocytes: evidence precluding a role for "aminophospholipid translocase". 1989 , 140, 455-62	104
1350	Chicken transferrin receptor expression during erythroid differentiation and by retrovirus transformed cells. 1989 , 13, 231-52	7
1349	Cell membrane and volume changes during red cell development and aging. 1989 , 554, 217-24	35
1348	Transferrin as a muscle trophic factor. 1989 , 113, 89-141	13
1347	Subcellular distribution of lipoxygenase products in rabbit reticulocyte membranes. 1990 , 191, 221-7	37
1346	Mechanisms of membrane protein turnover. 1990 , 1031, 71-90	62
1345	Decrease in Na(+)-K(+)-ATPase associated with maturation of sheep reticulocytes. 1990 , 259, C241-50	12
1344	A novel secretory pathway for interleukin-1 beta, a protein lacking a signal sequence.. 1990 , 9, 1503-1510	569
1343	Cell biology of intracellular protein trafficking. 1990 , 8, 195-229	53
1342	Isolation and characterization of a transferrin binding protein from rat plasma. 1990 , 1035, 306-12	7
1341	Antibodies to 100- and 60-kDa surface proteins inhibit substratum attachment and differentiation of rodent skeletal myoblasts. 1990 , 140, 196-208	6
1340	Shedding of vesicular material from the cell surface of eukaryotic cells: different cellular phenomena. 1991 , 1071, 203-19	105
1339	Production of soluble transferrin receptor by K562 erythroleukaemia cells. 1991 , 78, 450-5	21

- 1338 Exosome formation during maturation of mammalian and avian reticulocytes: evidence that exosome release is a major route for externalization of obsolete membrane proteins. **1991**, 147, 27-36 197
- 1337 Characterization of transferrin receptor released by K562 erythroleukemia cells. **1991**, 197, 416-23 6
- 1336 The Jeanne Manery-Fisher Memorial Lecture 1991. Maturation of reticulocytes: formation of exosomes as a mechanism for shedding membrane proteins. **1992**, 70, 179-90 161
- 1335 Evidence for an internal pool of nucleoside transporters in mammalian reticulocytes. **1992**, 1106, 189-96 11
- 1334 New tools for clinical evaluation of erythron function in man. **1992**, 80, 278-84 108
- 1333 Expression and loss of the transferrin receptor in growing and differentiating HD3 cells. **1993**, 155, 349-57 19
- 1332 Membrane properties of erythrocytes in subjects undergoing multiple blood donations with or without recombinant erythropoietin. **1993**, 84, 118-30 20
- 1331 Serum transferrin receptor. **1993**, 44, 63-74 213
- 1330 Production of the serum form of the transferrin receptor by a cell membrane-associated serine protease. **1993**, 204, 65-9 28
- 1329 Circulating transferrin receptors and assessment of iron status. **1994**, 5, 322-330 43
- 1328 Hsp-70 is closely associated with the transferrin receptor in exosomes from maturing reticulocytes. **1995**, 308 (Pt 3), 823-30 79
- 1327 GM1 ganglioside-bound amyloid beta-protein (A beta): a possible form of preamyloid in Alzheimer's disease. **1995**, 1, 1062-6 468
- 1326 Fractionation of amyloid beta-protein (A beta) in Alzheimer's disease and Down's syndrome brains. Presence of membrane-bound A beta. **1996**, 786, 184-94 5
- 1325 Soluble transferrin receptor-transferrin complex in serum: measurement by latex agglutination nephelometric immunoassay. **1996**, 254, 159-72 24
- 1324 Assessment of iron status. **1996**, 29, 209-15 130
- 1323 Cleavage of the transferrin receptor by human granulocytes: differential proteolysis of the exosome-bound TFR. **1996**, 168, 333-45 24
- 1322 The possible meaning of transferrin and its soluble receptors in seminal plasma as markers of the seminiferous epithelium. **1996**, 11, 761-4 12
- 1321 Regulation of Cellular Iron Metabolism by Erythropoietin: Activation of Iron-Regulatory Protein and Upregulation of Transferrin Receptor Expression in Erythroid Cells. **1997**, 89, 680-687 103

1320	Tissue-Specific Regulation of Iron Metabolism and Heme Synthesis: Distinct Control Mechanisms in Erythroid Cells. 1997 , 89, 1-25	442
1319	Haemoglobin synthesis in erythropoietin-stimulated J2E cells does not require increased numbers of transferrin receptors. 1997 , 250, 459-66	1
1318	Loss of glucose transport in developing avian red cells. 1998 , 75, 66-77	15
1317	Structural model of phospholipid-reconstituted human transferrin receptor derived by electron microscopy. 1998 , 6, 1235-43	51
1316	Exoenzyme S from <i>P. aeruginosa</i> ADP ribosylates rab4 and inhibits transferrin recycling in SLO-permeabilized reticulocytes. 1998 , 244, 336-41	16
1315	The correlation of blood pressure, age and endothelin-1 binding sites in aortic smooth muscle cells of rats. 1998 , 62, 532-6	4
1314	Circulating Transferrin Receptor Assay Coming of Age. 1998 , 44, 7-9	45
1313	An In Vitro Model of Human Red Blood Cell Production From Hematopoietic Progenitor Cells. 1998 , 91, 2664-2671	76
1312	Molecular characterization of dendritic cell-derived exosomes. Selective accumulation of the heat shock protein hsc73. 1999 , 147, 599-610	826
1311	The transferrin receptor: role in health and disease. 1999 , 31, 1111-37	399
1310	Tumor-derived exosomes are a source of shared tumor rejection antigens for CTL cross-priming. 2001 , 7, 297-303	1145
1309	Characteristics of the interaction between Hsc70 and the transferrin receptor in exosomes released during reticulocyte maturation. 2001 , 276, 9910-6	53
1308	Release and intercellular transfer of cell surface CD81 via microparticles. 2002 , 169, 5531-7	63
1307	TCR activation of human T cells induces the production of exosomes bearing the TCR/CD3/zeta complex. 2002 , 168, 3235-41	501
1306	Fractionation analysis of the endosomal compartment during rat reticulocyte maturation. 2002 , 26, 669-78	13
1305	The biogenesis and functions of exosomes. 2002 , 3, 321-30	603
1304	Exosomes: composition, biogenesis and function. 2002 , 2, 569-79	3459
1303	Decreased expression of membrane alpha4beta1, alpha5beta1 integrins and transferrin receptor on erythroblasts in splenectomized patients with beta-thalassemia intermedia. Parallel assessment of serum soluble transferrin receptors levels. 2003 , 82, 579-84	5

1302	Shed membrane vesicles and clustering of membrane-bound proteolytic enzymes. 2003 , 54, 411-32	18
1301	Lipid raft-associated protein sorting in exosomes. 2003 , 102, 4336-44	486
1300	Exosome secretion: the art of reutilizing nonrecycled proteins?. 2004 , 5, 896-903	109
1299	Degradation of AP2 during reticulocyte maturation enhances binding of hsc70 and Alix to a common site on TFR for sorting into exosomes. 2004 , 5, 181-93	130
1298	Expression of milk fat globule epidermal growth factor 8 in immature dendritic cells for engulfment of apoptotic cells. 2004 , 34, 1414-22	100
1297	Mechanism of protein sorting during erythroblast enucleation: role of cytoskeletal connectivity. 2004 , 103, 1912-9	81
1296	DNA degradation in development and programmed cell death. 2005 , 23, 853-75	176
1295	Rab11 promotes docking and fusion of multivesicular bodies in a calcium-dependent manner. 2005 , 6, 131-43	321
1294	Exosomes: a new delivery system for tumor antigens in cancer immunotherapy. 2005 , 114, 613-22	124
1293	Emission of membrane vesicles: roles in complement resistance, immunity and cancer. 2005 , 27, 375-87	152
1292	Innate Immunity and Intracellular Trafficking: Insights for Novel Anti- HIV-1 Therapeutics. 2005 , 3, 97-117	3
1291	Exosomal-like vesicles are present in human blood plasma. 2005 , 17, 879-87	930
1290	The potential of exosomes in immunotherapy. 2005 , 5, 737-47	40
1289	Revisiting the road to the discovery of exosomes. 2005 , 34, 214-9	108
1288	Exosomes contain ubiquitinated proteins. 2005 , 35, 398-403	118
1287	Shedding and uptake of gangliosides and glycosylphosphatidylinositol-anchored proteins. 2006 , 1760, 584-602	63
1286	Exosomes biological significance: A concise review. 2006 , 36, 315-21	265
1285	Multivesicular bodies participate in a cell wall-associated defence response in barley leaves attacked by the pathogenic powdery mildew fungus. 2006 , 8, 1009-19	206

1284	The how and why of exocytic vesicles. 2006 , 46, 143-52	165
1283	Role of exosomes in immune regulation. 2006 , 10, 364-75	105
1282	Human erythrocyte membranes contain a cytochrome b561 that may be involved in extracellular ascorbate recycling. 2006 , 281, 39852-9	74
1281	Modulation of the immune response using dendritic cell-derived exosomes. 2007 , 380, 443-55	48
1280	Reticulocyte-secreted exosomes bind natural IgM antibodies: involvement of a ROS-activatable endosomal phospholipase iPLA2. 2007 , 110, 3407-16	52
1279	Biogenesis and function of multivesicular bodies. 2007 , 23, 519-47	519
1278	Subcellular Proteomics. 2007 ,	1
1277	Proteomic analysis of secreted exosomes. 2007 , 43, 99-131	61
1276	Exosome-mediated transfer of mRNAs and microRNAs is a novel mechanism of genetic exchange between cells. 2007 , 9, 654-9	8394
1275	Proteomic profiling of exosomes: current perspectives. 2008 , 8, 4083-99	651
1274	Regulated release of B cell-derived exosomes: do differences in exosome release provide insight into different APC function for B cells and DC?. 2008 , 38, 1186-9	17
1273	Essential role for Nix in autophagic maturation of erythroid cells. 2008 , 454, 232-5	848
1272	Exosome secretion, including the DNA damage-induced p53-dependent secretory pathway, is severely compromised in TSAP6/Steap3-null mice. 2008 , 15, 1723-33	236
1271	Glioblastoma microvesicles transport RNA and proteins that promote tumour growth and provide diagnostic biomarkers. 2008 , 10, 1470-6	3575
1270	A soluble form of the human transferrin receptor is released by activated lymphocytes in vitro. 1993 , 92, 537-42	18
1269	Characterization and comprehensive proteome profiling of exosomes secreted by hepatocytes. 2008 , 7, 5157-66	427
1268	Cell biology. No ESCRTs for exosomes. 2008 , 319, 1191-2	53
1267	B lymphocytes and macrophages release cell membrane deposited C3-fragments on exosomes with T cell response-enhancing capacity. 2008 , 45, 2343-51	41

1266	Exosomes as a short-range mechanism to spread alloantigen between dendritic cells during T cell allorecognition. 2008 , 180, 3081-90	174
1265	A phase I, single and fractionated, ascending-dose study evaluating the safety, pharmacokinetics, pharmacodynamics, and immunogenicity of an erythropoietin mimetic antibody fusion protein (CNTO 528) in healthy male subjects. 2008 , 48, 1197-207	29
1264	Exosomes for the treatment of human malignancies. 2008 , 40, 82-8	24
1263	Resolving the distinct stages in erythroid differentiation based on dynamic changes in membrane protein expression during erythropoiesis. 2009 , 106, 17413-8	329
1262	Down-regulation of miR-92 in human plasma is a novel marker for acute leukemia patients. 2009 , 4, e5532	237
1261	The dynamic morphology of the transferrin-transferrin receptor system in human leukaemia/lymphoma cell lines and its relation to iron metabolism and cell proliferation. 1985 , 35, 145-54	14
1260	Exosomal sorting of the cytoplasmic domain of bovine leukemia virus TM Env protein. 2009 , 33, 36-48	15
1259	ExoCarta: A compendium of exosomal proteins and RNA. 2009 , 9, 4997-5000	626
1258	Proteomic analysis of extracellular matrix and vesicles. 2009 , 72, 34-45	47
1257	Exosomes: proteomic insights and diagnostic potential. 2009 , 6, 267-83	760
1256	MHC independent anti-tumor immune responses induced by Hsp70-enriched exosomes generate tumor regression in murine models. 2009 , 275, 256-65	97
1255	Isolation of extracellular membranous vesicles for proteomic analysis. 2009 , 528, 227-42	36
1254	The water channel aquaporin-1 partitions into exosomes during reticulocyte maturation: implication for the regulation of cell volume. 2009 , 114, 3928-34	48
1253	Reticulocyte membrane remodeling: contribution of the exosome pathway. 2010 , 17, 177-83	46
1252	Membrane remodeling during reticulocyte maturation. 2010 , 115, 2021-7	121
1251	Parallel reductions in stomatin and Na,K-ATPase through the exosomal pathway during reticulocyte maturation in dogs: stomatin as a genotypic and phenotypic marker of high K(+) and low K(+) red cells. 2010 , 72, 893-901	8
1250	Quantitative analyses and transcriptomic profiling of circulating messenger RNAs as biomarkers of rat liver injury. 2010 , 51, 2127-39	64
1249	Exosomes: extracellular organelles important in intercellular communication. 2010 , 73, 1907-20	1688

1248	Sub-proteome approach to the knowledge of liver. 2010 , 4, 407-15	8
1247	Transfer of the glycosylphosphatidylinositol-anchored 5'-nucleotidase CD73 from adiposomes into rat adipocytes stimulates lipid synthesis. 2010 , 160, 878-91	32
1246	Exosomal membrane molecules are potent immune response modulators. 2010 , 3, 405-8	58
1245	Mycobacterium tuberculosis synergizes with ATP to induce release of microvesicles and exosomes containing major histocompatibility complex class II molecules capable of antigen presentation. 2010 , 78, 5116-25	85
1244	Lung injury and cancer: Mechanistic insights into ceramide and EGFR signaling under cigarette smoke. 2010 , 43, 259-68	62
1243	HIV-1 is budded from CD4+ T lymphocytes independently of exosomes. 2010 , 7, 234	21
1242	Isolation of bovine milk-derived microvesicles carrying mRNAs and microRNAs. 2010 , 396, 528-33	208
1241	Adipocyte-derived microvesicles contain RNA that is transported into macrophages and might be secreted into blood circulation. 2010 , 398, 723-9	117
1240	Exosomes in erythropoiesis. 2010 , 17, 131-7	21
1239	Microfluidic isolation and transcriptome analysis of serum microvesicles. 2010 , 10, 505-11	377
1238	Serum/Plasma Proteomics. 2011 ,	7
1237	Mesenchymal stem cell exosome: a novel stem cell-based therapy for cardiovascular disease. 2011 , 6, 481-92	401
1236	Exosome isolation for proteomic analyses and RNA profiling. 2011 , 728, 235-46	293
1235	Exosome signaling in mammary gland development and cancer. 2011 , 55, 879-87	56
1234	Nanovesicles from Malassezia sympodialis and host exosomes induce cytokine responses--novel mechanisms for host-microbe interactions in atopic eczema. 2011 , 6, e21480	93
1233	Exosomes from Plasmodium yoelii-infected reticulocytes protect mice from lethal infections. 2011 , 6, e26588	129
1232	Normal and disordered reticulocyte maturation. 2011 , 18, 152-7	81
1231	SiRNA delivery with exosome nanoparticles. 2011 , 29, 325-6	237

1230	Mechanisms of cellular communication through intercellular protein transfer. 2011 , 15, 1458-73	99
1229	Exosomes as biomarker treasure chests for prostate cancer. 2011 , 59, 823-31	217
1228	Proteolipidic composition of exosomes changes during reticulocyte maturation. 2011 , 286, 34426-39	126
1227	Proteomics analyses of microvesicles released by Drosophila Kc167 and S2 cells. 2011 , 11, 4397-410	27
1226	Urinary exosomes and proteomics. 2011 , 30, 1185-202	66
1225	Exosome nanotechnology: an emerging paradigm shift in drug delivery: exploitation of exosome nanovesicles for systemic in vivo delivery of RNAi heralds new horizons for drug delivery across biological barriers. 2011 , 33, 737-41	210
1224	Exosomes and the blood-brain barrier: implications for neurological diseases. 2011 , 2, 1095-9	80
1223	Galectins and microenvironmental niches during hematopoiesis. 2011 , 18, 443-51	18
1222	Biogenesis of the posterior pole is mediated by the exosome/microvesicle protein-sorting pathway. 2011 , 286, 44162-44176	66
1221	Protein targeting to exosomes/microvesicles by plasma membrane anchors. 2011 , 286, 14383-95	198
1220	Antigen localization controls T cell-mediated tumor immunity. 2011 , 187, 1281-8	39
1219	Identification of an inhibitory budding signal that blocks the release of HIV particles and exosome/microvesicle proteins. 2011 , 22, 817-30	52
1218	Cell-free Circulating miRNA Biomarkers in Cancer. 2012 , 3, 432-48	116
1217	Exosomes go with the Wnt. 2012 , 2, 169-173	29
1216	Identifying mRNA, microRNA and protein profiles of melanoma exosomes. 2012 , 7, e46874	198
1215	Proteolytic Potential of the MSC Exosome Proteome: Implications for an Exosome-Mediated Delivery of Therapeutic Proteasome. 2012 , 2012, 971907	310
1214	Critical function for the Ras-GTPase activating protein RASA3 in vertebrate erythropoiesis and megakaryopoiesis. 2012 , 109, 12099-104	24
1213	Exosomes secreted from human colorectal cancer cell lines contain mRNAs, microRNAs and natural antisense RNAs, that can transfer into the human hepatoma HepG2 and lung cancer A549 cell lines. 2012 , 28, 1551-8	180

1212	Exosomal miRNAs: Biological Properties and Therapeutic Potential. 2012 , 3, 56	243
1211	Characterization of mRNA and microRNA in human mast cell-derived exosomes and their transfer to other mast cells and blood CD34 progenitor cells. 2012 , 1,	140
1210	Microvesicles/exosomes as potential novel biomarkers of metabolic diseases. 2012 , 5, 247-82	116
1209	ExoCarta as a resource for exosomal research. 2012 , 1,	240
1208	In-depth analysis of the secretome identifies three major independent secretory pathways in differentiating human myoblasts. 2012 , 77, 344-56	97
1207	Exosomes and microvesicles: extracellular vesicles for genetic information transfer and gene therapy. 2012 , 21, R125-34	632
1206	Proteomic analysis of microvesicles from plasma of healthy donors reveals high individual variability. 2012 , 75, 3574-84	71
1205	Exosomes: new players in cell-cell communication. 2012 , 44, 2060-4	315
1204	Comparison of ultracentrifugation, density gradient separation, and immunoaffinity capture methods for isolating human colon cancer cell line LIM1863-derived exosomes. 2012 , 56, 293-304	722
1203	Multivesicular body morphogenesis. 2012 , 28, 337-62	385
1202	Antisense RNAs as envoys in intercellular communication: 20 years later. 2012 , 77, 1478-86	3
1201	Exosomes in Cancer Microenvironment and Beyond: have we Overlooked these Extracellular Messengers?. 2012 , 5, 323-32	108
1200	Plasma specific miRNAs as predictive biomarkers for diagnosis and prognosis of glioma. 2012 , 31, 97	130
1199	Exosomes: New Tuberculosis Biomarkers [Prospects From the Bench to the Clinic. 2012 ,	2
1198	Multidimensional Proteomics for the Identification of Endothelial Post Mortem Signals of Importance in Vascular Remodeling. 2012 ,	
1197	Proteomic analysis of urine exosomes by multidimensional protein identification technology (MudPIT). 2012 , 12, 329-38	128
1196	Horizontal transfer of RNAs: exosomes as mediators of intercellular communication. 2012 , 3, 286-93	128
1195	Prostasomes are heterogeneous regarding size and appearance but affiliated to one DNA-containing exosome family. 2012 , 72, 1736-45	54

1194	Isolation and characterization of RNA-containing exosomes. 2012 , e3037	258
1193	ExoCarta 2012: database of exosomal proteins, RNA and lipids. 2012 , 40, D1241-4	715
1192	Myeloma as a model for the process of metastasis: implications for therapy. 2012 , 120, 20-30	139
1191	Exosome removal as a therapeutic adjuvant in cancer. 2012 , 10, 134	252
1190	Prostasomes are mediators of intercellular communication: from basic research to clinical implications. 2012 , 271, 400-13	96
1189	The myxovirus-resistance protein, MX1, is a component of exosomes secreted by uterine epithelial cells. 2012 , 67, 498-505	30
1188	Microvesicles and exosomes: opportunities for cell-derived membrane vesicles in drug delivery. 2012 , 161, 635-44	290
1187	Circulating miR-150 and miR-342 in plasma are novel potential biomarkers for acute myeloid leukemia. 2013 , 11, 31	122
1186	Exosome release from infected dendritic cells: a clue for a fast spread of prions in the periphery?. 2013 , 67, 359-68	20
1185	Ongoing activation of sphingosine 1-phosphate receptors mediates maturation of exosomal multivesicular endosomes. 2013 , 4, 2712	182
1184	The Cell Biology of Exosomes: Historical and Perspectives. 2013 , 1-32	1
1183	Exosomes as nano-theranostic delivery platforms for gene therapy. 2013 , 65, 357-67	166
1182	Influence of counting methodology on erythrocyte ratios in the mouse micronucleus test. 2013 , 54, 222-8	10
1181	Mesenchymal Stem Cell Therapy. 2013 ,	4
1180	Secretion of microvesicular miRNAs in cellular and organismal aging. 2013 , 48, 626-33	64
1179	Drosophila S2 cells secrete wingless on exosome-like vesicles but the wingless gradient forms independently of exosomes. 2013 , 14, 82-96	121
1178	Nucleic acids in exosomes: disease markers and intercellular communication molecules. 2013 , 78, 1-7	50
1177	Exosomes and the kidney: blaming the messenger. 2013 , 18, 1-10	56

1176	Mesenchymal stem cell exosome ameliorates reperfusion injury through proteomic complementation. 2013 , 8, 197-209	90
1175	Contribution of proteomics to understanding the role of tumor-derived exosomes in cancer progression: state of the art and new perspectives. 2013 , 13, 1581-94	68
1174	Exosomes for drug delivery - a novel application for the mesenchymal stem cell. 2013 , 31, 543-51	335
1173	Cross-Talk Between MSCs and Their Environments. 2013 , 169-192	
1172	Exosomes: looking back three decades and into the future. 2013 , 200, 367-71	282
1171	Exosomes as nucleic acid nanocarriers. 2013 , 65, 331-5	166
1170	Extracellular vesicles: biology and emerging therapeutic opportunities. 2013 , 12, 347-57	1894
1169	Extracellular vesicles as prospective carriers of oncogenic protein signatures in adult and paediatric brain tumours. 2013 , 13, 1595-607	22
1168	Mesenchymal Stem Cell Exosomes: The Future MSC-Based Therapy?. 2013 , 39-61	25
1167	Visualization and in vivo tracking of the exosomes of murine melanoma B16-BL6 cells in mice after intravenous injection. 2013 , 165, 77-84	412
1166	Mesenchymal stem cells in regenerative medicine applied to rheumatic diseases: role of secretome and exosomes. 2013 , 95, 2229-34	166
1165	Diseases originate and terminate by genes: unraveling nonviral gene delivery. 2013 , 3, 593-610	16
1164	Mesenchymal stem cell: an efficient mass producer of exosomes for drug delivery. 2013 , 65, 336-41	478
1163	Immunostimulatory activity of murine keratinocyte-derived exosomes. 2013 , 22, 650-5	23
1162	Exosomes derived from Rab27a-overexpressing tumor cells elicit efficient induction of antitumor immunity. 2013 , 8, 1876-82	68
1161	Red blood cell vesiculation in hereditary hemolytic anemia. 2013 , 4, 365	68
1160	The cis-acting signals that target proteins to exosomes and microvesicles. 2013 , 41, 277-82	63
1159	The Regenerative Role of the Fetal and Adult Stem Cell Secretome. 2013 , 2, 302-27	46

1158	Emerging Concepts of Tumor Exosome-Mediated Cell-Cell Communication. 2013 ,	5
1157	Identification of protein complex associated with LYT1 of Trypanosoma cruzi. 2013 , 2013, 493525	2
1156	Electrokinetic Evaluation of Individual Exosomes by On-Chip Microcapillary Electrophoresis with Laser Dark-Field Microscopy. 2013 , 52, 06GK10	25
1155	The scat mouse model highlights RASA3, a GTPase activating protein, as a key regulator of vertebrate erythropoiesis and megakaryopoiesis. 2013 , 4, 47-50	2
1154	Neuro-oncologic applications of exosomes, microvesicles, and other nano-sized extracellular particles. 2013 , 72, 501-10	31
1153	Exosome: A Novel and Safer Therapeutic Refinement of Mesenchymal Stem Cell. 2013 , 1	23
1152	BM mesenchymal stromal cell-derived exosomes facilitate multiple myeloma progression. 2013 , 123, 1542-55	555
1151	Functional importance of exosome in cancer development. 2014 , 29, 125-133	
1150	Embryonic cerebrospinal fluid nanovesicles carry evolutionarily conserved molecules and promote neural stem cell amplification. 2014 , 9, e88810	63
1149	Exosomes Biogenesis and Potentials in Disease Diagnosis and Drug Delivery. 2014 , 04, 1441017	5
1148	MicroRNAs as potential circulating biomarkers of drug-induced liver injury: key current and future issues for translation to humans. 2014 , 7, 349-62	41
1147	Parasite extracellular vesicles: mediators of intercellular communication. 2014 , 10, e1004289	27
1146	Extracellular vesicles: potential roles in regenerative medicine. 2014 , 5, 608	212
1145	Implication of human endogenous retrovirus envelope proteins in placental functions. 2014 , 6, 4609-27	64
1144	Exploration of microRNAs in porcine milk exosomes. 2014 , 15, 100	103
1143	MicroRNA in exosomes isolated directly from the liver circulation in patients with metastatic uveal melanoma. 2014 , 14, 962	65
1142	A review of therapeutic effects of mesenchymal stem cell secretions and induction of secretory modification by different culture methods. 2014 , 12, 260	340
1141	Microparticles mediated cross-talk between tumoral and endothelial cells promote the constitution of a pro-metastatic vascular niche through Arf6 up regulation. 2014 , 7, 41-59	42

1140	The potential of exosomes in diagnosis and treatment of inborn errors of metabolism. 2014 , 37, 497-504	2
1139	Exosomes as critical agents of cardiac regeneration triggered by cell therapy. 2014 , 2, 606-19	548
1138	The roles of extracellular vesicles in cancer biology: toward the development of novel cancer biomarkers. 2014 , 14, 412-25	108
1137	First demonstration of transmissible spongiform encephalopathy-associated prion protein (PrPTSE) in extracellular vesicles from plasma of mice infected with mouse-adapted variant Creutzfeldt-Jakob disease by in vitro amplification. 2014 , 289, 29247-60	46
1136	Diagnostic and prognostic potential of extracellular vesicles in peripheral blood. 2014 , 36, 830-46	168
1135	Callose biosynthesis in Arabidopsis with a focus on pathogen response: what we have learned within the last decade. 2014 , 114, 1349-58	116
1134	Extracellular-vesicle type of volume transmission and tunnelling-nanotube type of wiring transmission add a new dimension to brain neuro-glial networks. 2014 , 369,	46
1133	The secretome of the working human skeletal muscle--a promising opportunity to combat the metabolic disaster?. 2014 , 8, 5-18	40
1132	Biogenesis, secretion, and intercellular interactions of exosomes and other extracellular vesicles. 2014 , 30, 255-89	3261
1131	A comprehensive overview of exosomes as drug delivery vehicles - endogenous nanocarriers for targeted cancer therapy. 2014 , 1846, 75-87	342
1130	A review of exosome separation techniques and characterization of B16-F10 mouse melanoma exosomes with AF4-UV-MALS-DLS-TEM. 2014 , 406, 7855-66	116
1129	Extracellular vesicles as modulators of cell-to-cell communication in the healthy and diseased brain. 2014 , 369,	121
1128	Lipid synthesis is promoted by hypoxic adipocyte-derived exosomes in 3T3-L1 cells. 2014 , 445, 327-33	83
1127	Consideration of dual characters of exosomes in the tumour immune response. 2014 , 38, 538-45	9
1126	Potential of cancer cell-derived exosomes in clinical application: a review of recent research advances. 2014 , 36, 863-72	63
1125	Therapeutisches Potenzial von extrazellulären Vesikeln aus mesenchymalen Stamm- bzw. Stromazellen. 2015 , 5, 131-137	
1124	Abnormal erythroid maturation leads to microcytic anemia in the TSAP6/Steap3 null mouse model. 2015 , 90, 235-41	13
1123	Plasmodium vivax: restricted tropism and rapid remodeling of CD71-positive reticulocytes. 2015 , 125, 1314-24	120

1122	Biological properties of extracellular vesicles and their physiological functions. 2015 , 4, 27066	2611
1121	Gut microbe-derived extracellular vesicles induce insulin resistance, thereby impairing glucose metabolism in skeletal muscle. 2015 , 5, 15878	76
1120	Applying extracellular vesicles based therapeutics in clinical trials - an ISEV position paper. 2015 , 4, 30087	722
1119	Noninvasive imaging of radiolabeled exosome-mimetic nanovesicle using (99m)Tc-HMPAO. 2015 , 5, 15636	137
1118	A Role for Extracellular Vesicles in Liver Fibrosis. 2015 , 1, 572-573	
1117	The secret life of extracellular vesicles in metal homeostasis and neurodegeneration. 2015 , 107, 389-418	30
1116	Tumour-derived exosomes: Tiny envelopes for big stories. 2015 , 107, 287-305	55
1115	Exosome Function in miRNA-Mediated Paracrine Effects. 2015 , 37-62	4
1114	Exosomes are fingerprints of originating cells: potential biomarkers for ovarian cancer. 2015 , 101	5
1113	Tumor-derived exosomes in cancer progression and treatment failure. 2015 , 6, 37151-68	157
1112	Exosomes as renal inductive signals in health and disease, and their application as diagnostic markers and therapeutic agents. 2015 , 3, 65	39
1111	Insights into the Mechanism of Exosome Formation and Secretion. 2015 , 1-19	2
1110	Isolation of Exosomes from Blood Plasma: Qualitative and Quantitative Comparison of Ultracentrifugation and Size Exclusion Chromatography Methods. 2015 , 10, e0145686	359
1109	Characterization of RNA from Exosomes and Other Extracellular Vesicles Isolated by a Novel Spin Column-Based Method. 2015 , 10, e0136133	211
1108	Exosomes: novel biomarkers for clinical diagnosis. 2015 , 2015, 657086	287
1107	Exosomal microRNA in serum is a novel biomarker of recurrence in human colorectal cancer. 2015 , 113, 275-81	341
1106	Profiling of urinary proteins in Karan Fries cows reveals more than 1550 proteins. 2015 , 127, 193-201	24
1105	Micromanaging of tumor metastasis by extracellular vesicles. 2015 , 40, 52-9	15

1104	Circulating microRNAs in Disease Diagnostics and their Potential Biological Relevance. 2015,	7
1103	The erythroblastic island as an emerging paradigm in the anemia of inflammation. 2015, 63, 75-89	30
1102	Exosomes and their Therapeutic Applications. 2015, 477-501	4
1101	Adaptation of iron requirement to hypoxic conditions at high altitude. 2015, 119, 1432-40	66
1100	Framework for dependable and pervasive eHealth services. 2015,	2
1099	Interactions between cancer cells and normal cells via miRNAs in extracellular vesicles. 2015, 72, 1849-61	35
1098	Applications of tunable resistive pulse sensing. 2015, 140, 3318-34	84
1097	MicroRNAs and Exosomes in Cancer Diagnosis and Therapy. 2015, 819-834	
1096	Extracellular vesicles in the biology of brain tumour stem cells--Implications for inter-cellular communication, therapy and biomarker development. 2015, 40, 17-26	74
1095	Exosome and exosomal microRNA: trafficking, sorting, and function. 2015, 13, 17-24	973
1094	The potential of tumor-derived exosomes for noninvasive cancer monitoring. 2015, 15, 1293-310	92
1093	Exosomes Explosion for Cardiac Resuscitation. 2015, 66, 612-5	11
1092	Exosomes: Emerging biomarkers and targets for ovarian cancer. 2015, 367, 26-33	103
1091	Extracellular vesicle-mediated delivery of molecular compounds into gametes and embryos: learning from nature. 2015, 21, 627-39	39
1090	A protocol for exosome isolation and characterization: evaluation of ultracentrifugation, density-gradient separation, and immunoaffinity capture methods. 2015, 1295, 179-209	374
1089	Information transfer by exosomes: A new frontier in hematologic malignancies. 2015, 29, 281-90	59
1088	Proteomics of ovarian cancer: functional insights and clinical applications. 2015, 34, 83-96	42
1087	Mesenchymal Stem Cell-derived Extracellular Vesicles: Toward Cell-free Therapeutic Applications. 2015, 23, 812-823	602

1086	Proteomic Profiling. 2015 ,	5
1085	Exosomes and Other Extracellular Vesicles: The New Communicators in Parasite Infections. 2015 , 31, 477-489	187
1084	Poly(I:C) induces controlled release of IL-36 from keratinocytes in the absence of cell death. 2015 , 63, 228-35	21
1083	Beyond soluble transferrin receptor: old challenges and new horizons. 2015 , 29, 799-810	30
1082	Extracellular vesicles in lung microenvironment and pathogenesis. 2015 , 21, 533-42	106
1081	Circulating microRNAs as Hormones: Intercellular and Inter-organ Conveyors of Epigenetic Information?. 2015 , 106, 255-267	3
1080	Fundamentals of Neurodegeneration and Protein Misfolding Disorders. 2015 ,	3
1079	Formation and role of exosomes in cancer. 2015 , 72, 659-71	156
1078	Exosomes in diagnostic and therapeutic applications: biomarker, vaccine and RNA interference delivery vehicle. 2015 , 15, 103-17	88
1077	Exosomes: vehicles of intercellular signaling, biomarkers, and vectors of cell therapy. 2015 , 77, 13-27	418
1076	Harnessing the Angiogenic Potential of Stem Cell-Derived Exosomes for Vascular Regeneration. 2016 , 2016, 3409169	45
1075	Potential Therapies by Stem Cell-Derived Exosomes in CNS Diseases: Focusing on the Neurogenic Niche. 2016 , 2016, 5736059	54
1074	Role of exosomes in the reproductive tract Oviductosomes mediate interactions of oviductal secretion with gametes/early embryo. 2016 , 21, 1278-85	22
1073	Exosomes from Human Umbilical Cord Mesenchymal Stem Cells: Identification, Purification, and Biological Characteristics. 2016 , 2016, 1929536	55
1072	Biogenesis and Function of T Cell-Derived Exosomes. 2016 , 4, 84	63
1071	Spleen-Dependent Immune Protection Elicited by CpG Adjuvanted Reticulocyte-Derived Exosomes from Malaria Infection Is Associated with Changes in T cell Subsets' Distribution. 2016 , 4, 131	18
1070	Exosomes and tumor-mediated immune suppression. 2016 , 126, 1216-23	313
1069	Exosomes as Novel Regulators of Adult Neurogenic Niches. 2015 , 9, 501	83

1068	Focus on Extracellular Vesicles: Introducing the Next Small Big Thing. 2016 , 17, 170	432
1067	Exosome: A Novel Approach to Stimulate Bone Regeneration through Regulation of Osteogenesis and Angiogenesis. 2016 , 17,	98
1066	Aquaporins in Urinary Extracellular Vesicles (Exosomes). 2016 , 17,	23
1065	Clinical Application of Human Urinary Extracellular Vesicles in Kidney and Urologic Diseases. 2016 , 17,	18
1064	Extracellular Vesicles in Chronic Obstructive Pulmonary Disease. 2016 , 17,	43
1063	Extracellular Vesicles Facilitate the Intercellular Communications in the Pathogenesis of Lung Injury. 2016 , 5,	6
1062	Focus on Extracellular Vesicles: Physiological Role and Signalling Properties of Extracellular Membrane Vesicles. 2016 , 17, 171	162
1061	Exosomes: small vesicles with big roles in hepatocellular carcinoma. 2016 , 7, 60687-60697	21
1060	Exosome-encapsulated microRNAs as circulating biomarkers for breast cancer. 2016 , 139, 1443-8	108
1059	Influence of storage condition on exosome recovery. 2016 , 21, 299-304	58
1058	Evidence and potential in vivo functions for biofluid miRNAs: From expression profiling to functional testing: Potential roles of extracellular miRNAs as indicators of physiological change and as agents of intercellular information exchange. 2016 , 38, 367-78	51
1057	Mesenchymal stromal cell extracellular vesicles/exosomes. 2016 , 250-263	
1056	Nanoparticle analysis sheds budding insights into genetic drivers of extracellular vesicle biogenesis. 2016 , 5, 31295	80
1055	The International Society for Extracellular Vesicles launches the first massive open online course on extracellular vesicles. 2016 , 5, 34299	16
1054	ESCRTing around the Cell. 2016 , 466-474	
1053	[Extracellular vesicles and their role in hematological malignancies]. 2016 , 157, 1379-84	
1052	Extracellular Vesicles in Cancer: Cell-to-Cell Mediators of Metastasis. 2016 , 30, 836-848	931
1051	Microvesicles provide a mechanism for intercellular communication by embryonic stem cells during embryo implantation. 2016 , 7, 11958	123

1050	Human Nano-Vesicles in Physiology and Pathology. 2016 , 83-96	
1049	Isolation and Characterization of Exosome from Human Embryonic Stem Cell-Derived C-Myc-Immortalized Mesenchymal Stem Cells. 2016 , 1416, 477-94	28
1048	Gene expression analysis in airway-secreting extracellular vesicles upon house dust mite exposure. 2016 , 65 Suppl, S53-5	2
1047	The potential of endurance exercise-derived exosomes to treat metabolic diseases. 2016 , 12, 504-17	191
1046	Mesenchymal Stem Cells. 2016 ,	9
1045	Extracellular vesicles during Herpes Simplex Virus type 1 infection: an inquire. 2016 , 13, 63	43
1044	Introduction to Extracellular Vesicles: Biogenesis, RNA Cargo Selection, Content, Release, and Uptake. 2016 , 36, 301-12	694
1043	Tumor-Derived Exosomes and Their Role in Cancer Progression. 2016 , 74, 103-41	375
1042	Blood-Based Biomarkers for Metabolic Syndrome. 2016 , 27, 363-374	52
1041	Neutrophil-Derived Exosomes: A New Mechanism Contributing to Airway Smooth Muscle Remodeling. 2016 , 55, 450-61	73
1040	Extracellular vesicles in neurodegenerative disease - pathogenesis to biomarkers. 2016 , 12, 346-57	190
1039	Exosomal non-coding RNAs: a promising cancer biomarker. 2016 , 54, 1871-1879	29
1038	Mechanisms of mesenchymal stem/stromal cell function. 2016 , 7, 125	411
1037	Transferring intercellular signals and traits between cancer cells: extracellular vesicles as "homing pigeons". 2016 , 14, 13	19
1036	Metabolic and Signaling Functions of Cancer Cell-Derived Extracellular Vesicles. 2016 , 326, 175-99	34
1035	Therapeutic and diagnostic applications of extracellular vesicles. 2016 , 244, 167-183	90
1034	Exosomes from the tumor microenvironment as reciprocal regulators that enhance prostate cancer progression. 2016 , 23, 734-44	25
1033	Exosomal Proteins as Diagnostic Biomarkers in Lung Cancer. 2016 , 11, 1701-10	154

1032	Exosomes from hypoxic endothelial cells have increased collagen crosslinking activity through up-regulation of lysyl oxidase-like 2. 2016 , 20, 342-50	68
1031	Mesenchymal stem/stromal cell-derived extracellular vesicles as a new approach in stem cell therapy. 2016 , 11, 228-234	7
1030	Mesenchymal Stem Cell-Derived Exosomes Promote Fracture Healing in a Mouse Model. 2016 , 5, 1620-1630	236
1029	Exosomes: Generation, structure, transport, biological activity, and diagnostic application. 2016 , 10, 163-173	20
1028	Extracellular vesicles in transfusion-related immunomodulation and the role of blood component manufacturing. 2016 , 55, 281-291	31
1027	Sending a message: extracellular vesicles of pathogenic protozoan parasites. 2016 , 14, 669-675	68
1026	Exosomal proteins as prognostic biomarkers in non-small cell lung cancer. 2016 , 10, 1595-1602	140
1025	Bone marrow stromal/stem cell-derived extracellular vesicles regulate osteoblast activity and differentiation in vitro and promote bone regeneration in vivo. 2016 , 6, 21961	221
1024	Exosomes in the Pathology of Neurodegenerative Diseases. 2016 , 291, 26589-26597	140
1023	Exosomes derived from human adipose mesenchymal stem cells accelerates cutaneous wound healing via optimizing the characteristics of fibroblasts. 2016 , 6, 32993	283
1022	Trehalose prevents aggregation of exosomes and cryodamage. 2016 , 6, 36162	152
1021	Molecular Biomarkers of Colorectal Cancer and Cancer Disparities: Current Status and Perspective. 2016 , 12, 332-344	9
1020	Osteoclast-derived microRNA-containing exosomes selectively inhibit osteoblast activity. 2016 , 2, 16015	162
1019	Isolation and mass spectrometry analysis of urinary extraexosomal proteins. 2016 , 6, 36331	32
1018	Plasmalogen enrichment in exosomes secreted by a nematode parasite versus those derived from its mouse host: implications for exosome stability and biology. 2016 , 5, 30741	52
1017	The Exosome - A Naturally Secreted Nanoparticle and its Application to Wound Healing. 2016 , 28, 5542-52	139
1016	Changing the (Intercellular) Conversation: a Potential Role for Exosomal Transfer of microRNA in Environmental Health. 2016 , 3, 154-160	2
1015	Exosome-like vesicles in uterine aspirates: a comparison of ultracentrifugation-based isolation protocols. 2016 , 14, 180	45

1014	Serum-derived exosomes from non-viremic animals previously exposed to the porcine respiratory and reproductive virus contain antigenic viral proteins. 2016 , 47, 59	25
1013	Researchers Hot to Discover the Medical Potential of Exosomes. 2016 , 66, 536-541	1
1012	Exosomes: novel implications in diagnosis and treatment of gastrointestinal cancer. 2016 , 401, 1097-1110	20
1011	Stress reticulocytes lose transferrin receptors by an extrinsic process involving spleen and macrophages. 2016 , 91, 875-82	17
1010	More Than Tiny Sacks: Stem Cell Exosomes as Cell-Free Modality for Cardiac Repair. 2016 , 118, 330-43	122
1009	Physiological and pathological roles of exosomes in the nervous system. 2016 , 7, 53-68	36
1008	Exosomes derived from SW480 colorectal cancer cells promote cell migration in HepG2 hepatocellular cancer cells via the mitogen-activated protein kinase pathway. 2016 , 48, 305-12	29
1007	Signaling by Extracellular Vesicles Advances Cancer Hallmarks. 2016 , 2, 84-94	67
1006	Stem cell-based therapies for the newborn lung and brain: Possibilities and challenges. 2016 , 40, 138-51	46
1005	The emerging roles of exosomes in tumor-stroma interaction. 2016 , 142, 1897-907	55
1004	Inactivation of 3-hydroxybutyrate dehydrogenase 2 delays zebrafish erythroid maturation by conferring premature mitophagy. 2016 , 113, E1460-9	14
1003	Extracellular Vesicles in Brain Tumor Progression. 2016 , 36, 383-407	54
1002	Spatial and Temporal Regulation of Receptor Tyrosine Kinase Activation and Intracellular Signal Transduction. 2016 , 85, 573-97	72
1001	Exosomes in Cancer Disease. 2016 , 1381, 111-49	38
1000	Circulating microRNAs as novel biomarkers for bone diseases - Complex signatures for multifactorial diseases?. 2016 , 432, 83-95	110
999	CD109 is a component of exosome secreted from cultured cells. 2016 , 469, 816-22	16
998	Targeted therapeutic delivery using engineered exosomes and its applications in cardiovascular diseases. 2016 , 575, 377-384	90
997	MicroRNAs in extracellular vesicles: potential cancer biomarkers. 2017 , 62, 67-74	80

996	Exosome secretion promotes chemotaxis of cancer cells. 2017 , 11, 187-195	70
995	Tracing Cellular Origin of Human Exosomes Using Multiplex Proximity Extension Assays. 2017 , 16, 502-511	47
994	RNA in extracellular vesicles. 2017 , 8, e1413	245
993	Bone Marrow-Derived Mesenchymal Stem Cells-Derived Exosomes Promote Survival of Retinal Ganglion Cells Through miRNA-Dependent Mechanisms. 2017 ,	3
992	The role of exosomes in hepatitis, liver cirrhosis and hepatocellular carcinoma. 2017 , 21, 986-992	40
991	Bone Marrow-Derived Mesenchymal Stem Cells-Derived Exosomes Promote Survival of Retinal Ganglion Cells Through miRNA-Dependent Mechanisms. 2017 , 6, 1273-1285	191
990	Exosomes as novel bio-carriers for gene and drug delivery. 2017 , 521, 167-175	182
989	Proteomic analysis of urinary extracellular vesicles from high Gleason score prostate cancer. 2017 , 7, 42961	93
988	Screening of exosomal microRNAs from colorectal cancer cells. 2016 , 17, 427-435	24
987	Integrating liquid biopsies into the management of cancer. 2017 , 14, 531-548	970
986	Exosomes in cancer theranostic: Diamonds in the rough. 2017 , 11, 151-163	44
985	Decreasing TFR1 expression reverses anemia and hepcidin suppression in β -thalassemic mice. 2017 , 129, 1514-1526	37
984	The role of exosomes in the pathogenesis of Alzheimer' disease. 2017 , 6, 3	78
983	Exosomes: Therapy delivery tools and biomarkers of diseases. 2017 , 174, 63-78	524
982	Advances of stem cell based-therapeutic approaches for tendon repair. 2017 , 9, 69-75	17
981	Methodological Guidelines to Study Extracellular Vesicles. 2017 , 120, 1632-1648	490
980	TG-A transglutaminase is secreted via an unconventional Golgi-independent mechanism involving exosomes and two types of fatty acylations. 2017 , 292, 10723-10734	15
979	Herpesviruses hijack host exosomes for viral pathogenesis. 2017 , 67, 91-100	58

978	Design and Applications of Nanoparticles in Biomedical Imaging. 2017,	9
977	Imaging and Therapeutic Potential of Extracellular Vesicles. 2017, 43-68	6
976	Exosomes-Based Gene Therapy for MicroRNA Delivery. 2017, 1521, 139-152	62
975	The role of extracellular vesicles in malaria biology and pathogenesis. 2017, 16, 245	32
974	Effects of Inhibiting VPS4 Support a General Role for ESCRTs in Extracellular Vesicle Biogenesis. 2017, 113, 1342-1352	49
973	Intimate cross-talk between cancer cells and the tumor microenvironment of B-cell lymphomas: The key role of exosomes. 2017, 39, 1010428317706227	13
972	Extracellular vesicles in the tumor microenvironment: Therapeutic resistance, clinical biomarkers, and targeting strategies. 2017, 37, 1318-1349	30
971	Exosomal miRNAs as biomarkers in the diagnosis of liver disease. 2017, 11, 491-501	21
970	Prognostic and Predictive Biomarkers for Colorectal Cancer. 2017, 151-162	0
969	Exosomes: A Valuable Biomedical Tool in Biomarker Discovery and Development. 2017, 50-63	2
968	Exosomes: New Biomarkers for Targeted Cancer Therapy. 2017, 129-157	5
967	Exosomes carrying immunoinhibitory proteins and their role in cancer. 2017, 189, 259-267	98
966	Liquid Biopsies in Solid Tumors. 2017,	
965	Cytosolic YB-1 and NSUN2 are the only proteins recognizing specific motifs present in mRNAs enriched in exosomes. 2017, 1865, 664-673	59
964	Molecular Oncology: Underlying Mechanisms and Translational Advancements. 2017,	1
963	Exosomes: The Next Small Thing. 2017, 139-155	
962	The emerging roles of tumor-derived exosomes in hematological malignancies. 2017, 31, 1259-1268	116
961	Achieving the Promise of Therapeutic Extracellular Vesicles: The Devil is in Details of Therapeutic Loading. 2017, 34, 1053-1066	62

960 Exosomes and Neuroregulation. **2017**, 313-328

959 The Importance of Standardization on Analyzing Circulating RNA. **2017**, 21, 259-268 34

958 Control of signaling molecule range during developmental patterning. **2017**, 74, 1937-1956 14

957 Recent advances in exosome-based nanovehicles as RNA interference therapeutic carriers. **2017**, 12, 2653-2675 47

956 Human Mesenchymal Stem Cell (hMSC) -Derived Exosomes/Exosome Mimetics as a Potential Novel Therapeutic Tool for Regenerative Medicine. **2017**, 81-97 2

955 Extracellular vesicles as emerging targets in cancer: Recent development from bench to bedside. **2017**, 1868, 538-563 76

954 CRISPR/Cas9 knockouts reveal genetic interaction between strain-transcendent erythrocyte determinants of invasion. **2017**, 114, E9356-E9365 28

953 Mesenchymal stem cell-derived extracellular vesicles: a glimmer of hope in treating Alzheimer's disease. **2017**, 29, 11-19 41

952 Stem cell-derived exosomes: a novel vector for tissue repair and diabetic therapy. **2017**, 59, R155-R165 22

951 Therapeutic Potential of Hematopoietic Stem Cell-Derived Exosomes in Cardiovascular Disease. **2017**, 998, 221-235 13

950 Concise Review: Extracellular Vesicles Overcoming Limitations of Cell Therapies in Ischemic Stroke. **2017**, 6, 2044-2052 25

949 Exosomes Mediate Epithelium-Mesenchyme Crosstalk in Organ Development. **2017**, 11, 7736-7746 67

948 Mesenchymal stem/stromal cell extracellular vesicles: From active principle to next generation drug delivery system. **2017**, 262, 104-117 87

947 Technical Aspects for the Evaluation of Exosomes and Their Content. **2017**, 61-70 1

946 Confounding factors in vesicle uptake studies using fluorescent lipophilic membrane dyes. **2017**, 6, 1388731 102

945 A signal-amplifiable biochip quantifies extracellular vesicle-associated RNAs for early cancer detection. **2017**, 8, 1683 68

944 Exosomes: biology, therapeutic potential, and emerging role in musculoskeletal repair and regeneration. **2017**, 1410, 57-67 33

943 Exosomes: novel regulators of bone remodelling and potential therapeutic agents for orthodontics. **2017**, 20 Suppl 1, 95-99 31

942	Extracellular Vesicle Biology in the Pathogenesis of Lung Disease. 2017 , 196, 1510-1518	22
941	Extracellular Vesicles: Novel Mediators of Cell Communication In Metabolic Disease. 2017 , 28, 3-18	205
940	Stem Cell-Derived Exosomes, Autophagy, Extracellular Matrix Turnover, and miRNAs in Cardiac Regeneration during Stem Cell Therapy. 2017 , 13, 79-91	46
939	MiRNA Biogenesis and Regulation of Diseases: An Overview. 2017 , 1509, 1-10	318
938	The role of extracellular vesicles in neurodegenerative diseases. 2017 , 483, 1178-1186	106
937	Funktion von extrazellulären Vesikeln und Bedeutung für die labormedizinische Diagnostik. 2017 , 41,	
936	Exosomes: A Novel Strategy for Treatment and Prevention of Diseases. 2017 , 8, 300	55
935	Exosomes As Potential Biomarkers and Targeted Therapy in Colorectal Cancer: A Mini-Review. 2017 , 8, 583	39
934	Extracellular Vesicle MicroRNA Transfer in Lung Diseases. 2017 , 8, 1028	58
933	Progress in Exosome Isolation Techniques. 2017 , 7, 789-804	826
932	Extracellular Vesicles in Cardiovascular Theranostics. 2017 , 7, 4168-4182	87
931	Milk's Role as an Epigenetic Regulator in Health and Disease. 2017 , 5,	57
930	The Emerging Roles of Extracellular Vesicles As Communication Vehicles within the Tumor Microenvironment and Beyond. 2017 , 8, 194	48
929	Exosome-Mediated Genetic Information Transfer, a Missing Piece of Osteoblast-Osteoclast Communication Puzzle. 2017 , 8, 336	18
928	Therapeutic Development of Mesenchymal Stem Cells or Their Extracellular Vesicles to Inhibit Autoimmune-Mediated Inflammatory Processes in Systemic Lupus Erythematosus. 2017 , 8, 526	34
927	Extracellular Vesicles in Renal Pathophysiology. 2017 , 4, 37	46
926	Exosomes: Origins and Therapeutic Potential for Neurodegenerative Disease. 2017 , 11, 82	84
925	Extracellular Vesicles in Brain Tumors and Neurodegenerative Diseases. 2017 , 10, 276	67

924	Exosomes: toward clinical application. 2017 , 149, 119-122	2
923	Exosomal proteins as potential markers of tumor diagnosis. 2017 , 10, 175	94
922	Saliva-Exosomics in Cancer: Molecular Characterization of Cancer-Derived Exosomes in Saliva. 2017 , 42, 125-151	43
921	Comprehensive microRNA-sequencing of exosomes derived from head and neck carcinoma cells reveals common secretion profiles and potential utility as salivary biomarkers. 2017 , 8, 82459-82474	46
920	Exosomes-based biomarker discovery for diagnosis and prognosis of prostate cancer. 2017 , 22, 1682-1696	15
919	Effects of exosome-like vesicles on cumulus expansion in pigs in vitro. 2017 , 63, 51-58	17
918	Beneficial effects of exosomes secreted by cardiac-derived progenitor cells and other cell types in myocardial ischemia. 2017 , 4, 93	43
917	Exosomes as diagnostic and predictive biomarkers in lung cancer. 2017 , 9, S1373-S1382	70
916	Endothelial progenitor cell-derived extracellular vesicle-mediated cell-to-cell communication regulates the proliferation and osteoblastic differentiation of bone mesenchymal stromal cells. 2017 , 16, 7018-7024	11
915	Detection of membrane antigens of extracellular vesicles by surface plasmon resonance. 2017 , 2, 98-98	7
914	Clinical potential of mesenchymal stem/stromal cell-derived extracellular vesicles. 2017 , 4, 84	85
913	Targeting Inflammatory Vasculature by Extracellular Vesicles. 2018 , 20, 37	13
912	Exosomes as a novel pathway for regulating development and diseases of the skin. 2018 , 8, 207-214	17
911	Establishment of the HeLa Cell Line with Stable Expression of CD63 Exosome Marker Fused with Fluorescent Protein TagRFP and HTBH Tag. 2018 , 12, 146-152	3
910	The multifaceted role of exosomes in cancer progression: diagnostic and therapeutic implications [corrected]. 2018 , 41, 223-252	40
909	Extracellular vesicles: a promising tool for assessment of embryonic competence. 2018 , 30, 171-178	11
908	Exosomal proteome analysis of human plasma to monitor sepsis progression. 2018 , 499, 856-861	21
907	Extracellular vesicles in the hematopoietic microenvironment. 2018 , 103, 382-394	46

906	The exosomes released from different cell types and their effects in wound healing. 2018 , 119, 5043-5052	57
905	The extracellular vesicles-derived from mesenchymal stromal cells: A new therapeutic option in regenerative medicine. 2018 , 119, 8048-8073	60
904	Potential Role of Extracellular Vesicles in the Pathophysiology of Drug Addiction. 2018 , 55, 6906-6913	13
903	Exosomes-Small Players, Big Sound. 2018 , 29, 635-648	34
902	Applications of stem cell-derived exosomes in tissue engineering and neurological diseases. 2018 , 29, 531-546	20
901	Biological Functions and Current Advances in Isolation and Detection Strategies for Exosome Nanovesicles. 2018 , 14, 1702153	217
900	Exosomal miRNAs as novel cancer biomarkers: Challenges and opportunities. 2018 , 233, 6370-6380	106
899	Brain-Cortex Microglia-Derived Exosomes: Nanoparticles for Glioma Therapy. 2018 , 19, 1205-1214	35
898	Exosomes in Cancer Liquid Biopsy: A Focus on Breast Cancer. 2018 , 10, 131-141	107
897	Transferrin receptor 1 is a reticulocyte-specific receptor for. 2018 , 359, 48-55	96
896	The roles of extracellular vesicle microRNAs in the central nervous system. 2018 , 66, 2267-2278	42
895	Glycosylation of extracellular vesicles: current knowledge, tools and clinical perspectives. 2018 , 7, 1442985	94
894	Extracellular Vesicles Derived from Wharton's Jelly Mesenchymal Stem Cells Prevent and Resolve Programmed Cell Death Mediated by Perinatal Hypoxia-Ischemia in Neuronal Cells. 2018 , 27, 168-180	36
893	Exosomes as Mediators of the Systemic Adaptations to Endurance Exercise. 2018 , 8,	77
892	New insights into the function of Rab GTPases in the context of exosomal secretion. 2018 , 9, 95-106	137
891	The emerging role of exosome-derived non-coding RNAs in cancer biology. 2018 , 414, 107-115	129
890	Microvesicle-mediated delivery of miR-1343: impact on markers of fibrosis. 2018 , 371, 325-338	13
889	Extracellular Vesicle Biology in Alzheimer's Disease and Related Tauopathy. 2018 , 13, 292-308	45

888	A function-blocking CD47 antibody modulates extracellular vesicle-mediated intercellular signaling between breast carcinoma cells and endothelial cells. 2018 , 12, 157-170	19
887	The Impact of the CD9 Tetraspanin on Lentivirus Infectivity and Exosome Secretion. 2018 , 26, 634-647	44
886	Extracellular Vesicles and Cancer: Caveat Lector. 2018 , 2, 395-411	33
885	Role for extracellular vesicles in the tumour microenvironment. 2018 , 373,	35
884	Biogenesis and function of ESCRT-dependent extracellular vesicles. 2018 , 74, 66-77	158
883	Next-Generation Novel Noninvasive Cancer Molecular Diagnostics Platforms Beyond Tissues. 2018 , 38, 964-977	10
882	Urinary Extracellular Vesicle: A Potential Source of Early Diagnostic and Therapeutic Biomarker in Diabetic Kidney Disease. 2018 , 131, 1357-1364	15
881	Exosome Biogenesis and Biological Function in Response to Viral Infections. 2018 , 12, 134-148	50
880	Extracellular vesicles as circulating cancer biomarkers: opportunities and challenges. 2018 , 7, 14	117
879	Cell-to-cell communication via extracellular vesicles among human pancreatic cancer cells derived from the same patient. 2018 , 18, 3989-3996	6
878	Microfluidics for minute DNA sample analysis: open challenges for genetic testing of cell-free circulating DNA in blood plasma. 2018 , 1, 25-32	6
877	Interstitial Fluid in Gynecologic Tumors and Its Possible Application in the Clinical Practice. 2018 , 19,	5
876	Seminal exosomes and HIV-1 transmission. 2018 , 50, e13220	12
875	Blood-Based Cancer Biomarkers in Liquid Biopsy: A Promising Non-Invasive Alternative to Tissue Biopsy. 2018 , 19,	158
874	Circular RNA in Exosomes. 2018 , 1087, 109-117	101
873	The Influence of Pre-Analytical Factors on the Analysis of Circulating MicroRNA. 2018 , 7, 195-203	6
872	Proteomics study of human cord blood reticulocyte-derived exosomes. 2018 , 8, 14046	22
871	Urinary Exosomal mRNA of WT1 as Diagnostic and Prognostic Biomarker for Diabetic Nephropathy. 2018 , 65, 208-215	39

870	Exosomes as Biomarker of Cancer. 2018 , 61,	8
869	NANOmetric BIO-Banked MSC-Derived Exosome (NANOBIOME) as a Novel Approach to Regenerative Medicine. 2018 , 7,	27
868	Immune regulatory targets of mesenchymal stromal cell exosomes/small extracellular vesicles in tissue regeneration. 2018 , 20, 1419-1426	33
867	Exosomes from BM-MSCs increase the population of CSCs via transfer of miR-142-3p. 2018 , 119, 744-755	53
866	Liquid biopsy of cancer: a multimodal diagnostic tool in clinical oncology. 2018 , 10, 1758835918794630	202
865	Exosome Research and Co-culture Study. 2018 , 41, 1311-1321	15
864	Emerging role of exosome signalling in maintaining cancer stem cell dynamic equilibrium. 2018 , 22, 3719	40
863	Tracking Exosomes in Vitro and in Vivo To Elucidate Their Physiological Functions: Implications for Diagnostic and Therapeutic Nanocarriers. 2018 , 1, 2438-2448	24
862	Emergence of exosomal DNA in molecular neuropathology. 2018 , 42, 9-22	1
861	Emerging Role of Exosomes in the Joint Diseases. 2018 , 47, 2008-2017	70
860	Extracellular vesicles from endothelial progenitor cells promote thyroid follicle formation. 2018 , 7, 1487250	10
859	Polarized Secretion of Extracellular Vesicles by Mammary Epithelia. 2018 , 23, 165-176	8
858	Mesenchymal stromal cell-derived extracellular vesicles: regenerative and immunomodulatory effects and potential applications in sepsis. 2018 , 374, 1-15	71
857	Molecular Detection and Analysis of Exosomes Using Surface-Enhanced Raman Scattering Gold Nanorods and a Miniaturized Device. 2018 , 8, 2722-2738	116
856	Extracellular vesicles: important collaborators in cancer progression. 2018 , 62, 149-163	39
855	The interplay between exosomes and autophagy - partners in crime. 2018 , 131,	155
854	Continuous Change in Membrane and Membrane-Skeleton Organization During Development From Proerythroblast to Senescent Red Blood Cell. 2018 , 9, 286	15
853	Exosomes and extracellular vesicles: the path forward. 2018 , 62, 119-124	51

852	Liquid Biopsy in Oral Cancer. 2018 , 19,	44
851	Targeting regenerative exosomes to myocardial infarction using cardiac homing peptide. 2018 , 8, 1869-1878	159
850	Exosome Theranostics: Biology and Translational Medicine. 2018 , 8, 237-255	371
849	"Exosomics"-A Review of Biophysics, Biology and Biochemistry of Exosomes With a Focus on Human Breast Milk. 2018 , 9, 92	97
848	Characterization of Proteins in Plasma-Derived Exosomes From Malaria-Infected Liver-Chimeric Humanized Mice. 2018 , 9, 1271	20
847	Extracellular Vesicles in Prostate Cancer Carcinogenesis, Diagnosis, and Management. 2018 , 8, 222	57
846	MSC exosome works through a protein-based mechanism of action. 2018 , 46, 843-853	137
845	Paper-Based Microfluidic Platforms for Understanding the Role of Exosomes in the Pathogenesis of Major Blindness-Threatening Diseases. 2018 , 8,	7
844	Recent Progress in Isolation and Detection of Extracellular Vesicles for Cancer Diagnostics. 2018 , 7, e1800484	75
843	Extracellular vesicles Biogenesis, composition, function, uptake and therapeutic applications. 2018 , 73, 437-448	9
842	Circulating Exosomal miR-27a and miR-130a Act as Novel Diagnostic and Prognostic Biomarkers of Colorectal Cancer. 2018 , 27, 746-754	66
841	Communicating with the dead: lipids, lipid mediators and extracellular vesicles. 2018 , 46, 631-639	3
840	The release of glycosylphosphatidylinositol-anchored proteins from the cell surface. 2018 , 656, 1-18	22
839	Cell-derived Exosomes as Promising Carriers for Drug Delivery and Targeted Therapy. 2018 , 18, 347-354	23
838	Advances of exosome in the development of ovarian cancer and its diagnostic and therapeutic prospect. 2018 , 11, 2831-2841	20
837	Exosomes released from pancreatic cancer cells enhance angiogenic activities via dynamin-dependent endocytosis in endothelial cells in vitro. 2018 , 8, 11972	48
836	Dopamine-loaded blood exosomes targeted to brain for better treatment of Parkinson's disease. 2018 , 287, 156-166	168
835	Microfluidics-based on-a-chip systems for isolating and analysing extracellular vesicles. 2018 , 7, 1508271	82

834	Exosomes in the Oncobiology, Diagnosis, and Therapy of Hepatic Carcinoma: A New Player of an Old Game. 2018 , 2018, 2747461	10
833	Microenvironment Cell Contribution to Lymphoma Immunity. 2018 , 8, 288	23
832	Plasma Exosomes Contribute to Microvascular Damage in Diabetic Retinopathy by Activating the Classical Complement Pathway. 2018 , 67, 1639-1649	53
831	Methods and Technologies for Exosome Isolation and Characterization. 2018 , 2, 1800021	56
830	Tumor-derived exosomes in cancer metastasis risk diagnosis and metastasis therapy. 2019 , 21, 152-159	11
829	Extracellular Vesicles: Nature's Own Nanoparticles. 2019 , 27-48	4
828	Exosomal long noncoding RNAs in aging and age-related diseases. 2019 , 71, 1846-1856	16
827	Exosomes as Carriers for Antitumor Therapy. 2019 , 5, 4870-4881	16
826	Exosomes: Revisiting their role as "garbage bags". 2019 , 20, 815-828	55
825	Exosomes as carriers transporting long non-coding RNAs: Molecular characteristics and their function in cancer (Review). 2019 , 20, 851-862	10
824	Bone marrow mesenchymal stem cell-derived exosome uptake and retrograde transport can occur at peripheral nerve endings. 2019 , 47, 2918-2929	13
823	Exosomes and Their Role in Cancer Progression. 2019 , 62, 182-190	46
822	Biological Function of Exosomes as Diagnostic Markers and Therapeutic Delivery Vehicles in Carcinogenesis and Infectious Diseases. 2019 ,	13
821	Urinary extracellular vesicles as a source of biomarkers reflecting renal cellular biology in human disease. 2019 , 154, 43-65	5
820	New insight into isolation, identification techniques and medical applications of exosomes. 2019 , 308, 119-129	74
819	The relationship between molecular content of mesenchymal stem cells derived exosomes and their potentials: Opening the way for exosomes based therapeutics. 2019 , 165, 76-89	22
818	Metabolic Nano-Machines: Extracellular Vesicles Containing Active Enzymes and Their Contribution to Liver Diseases. 2019 , 7, 119-127	2
817	Recent advances in microfluidic methods in cancer liquid biopsy. 2019 , 13, 041503	26

816	Gene Delivery Therapeutics in the Treatment of Periodontitis and Peri-Implantitis: A State of the Art Review. 2019 , 20,	12
815	The emerging roles of extracellular vesicles in diabetes and diabetic complications. 2019 , 497, 130-136	5
814	Higher-order assembly of Sorting Nexin 16 controls tubulation and distribution of neuronal endosomes. 2019 , 218, 2600-2618	8
813	Circulating microRNAs as potential diagnostic biomarkers and therapeutic targets in prostate cancer: Current status and future perspectives. 2019 , 120, 16316-16329	14
812	Isolation and Characterization of Extracellular Vesicles from Mesenchymal Stromal Cells. 2019 , 2029, 15-23	3
811	Ischemia Reperfusion Injury: Mechanisms of Damage/Protection and Novel Strategies for Cardiac Recovery/Regeneration. 2019 , 20,	33
810	Identification of Serum Exosomal hsa-circ-0004771 as a Novel Diagnostic Biomarker of Colorectal Cancer. 2019 , 10, 1096	103
809	Below the Surface: IGF-1R Therapeutic Targeting and Its Endocytic Journey. 2019 , 8,	13
808	Beyond tumor mutational burden: potential and limitations in using exosomes to predict response to immunotherapy. 2019 , 19, 1079-1088	8
807	Progress of Research on Exosomes in the Protection Against Ischemic Brain Injury. 2019 , 13, 1149	16
806	Genomics, Proteomics, and Metabolomics. 2019 ,	4
805	Microvesicles Derived from Human Embryonic Neural Stem Cells Inhibit the Apoptosis of HL-1 Cardiomyocytes by Promoting Autophagy and Regulating AKT and mTOR via Transporting HSP-70. 2019 , 2019, 6452684	10
804	Intercellular communication in the innate immune system through the cGAS-STING pathway. 2019 , 625, 1-11	1
803	Exosomes in Systemic Sclerosis: Messengers Between Immune, Vascular and Fibrotic Components?. 2019 , 20,	18
802	Recent advances of exosomes in immune-mediated eye diseases. 2019 , 10, 278	32
801	Human Circulating miRNAs Real-time qRT-PCR-based Analysis: An Overview of Endogenous Reference Genes Used for Data Normalization. 2019 , 20,	37
800	Potential Novel Strategies for the Treatment of Dental Pulp-Derived Pain: Pharmacological Approaches and Beyond. 2019 , 10, 1068	6
799	Circ-0000284 arouses malignant phenotype of cholangiocarcinoma cells and regulates the biological functions of peripheral cells through cellular communication. 2019 , 133, 1935-1953	44

798	Common molecular markers between circulating tumor cells and blood exosomes in colorectal cancer: a systematic and analytical review. 2019 , 11, 8669-8698	15
797	Circulating serum exosomal aHIF is a novel prognostic predictor for epithelial ovarian cancer. 2019 , 12, 7699-7711	16
796	Exosomes in Head and Neck Squamous Cell Carcinoma. 2019 , 9, 894	28
795	Exosomal miRNAs in central nervous system diseases: biomarkers, pathological mediators, protective factors and therapeutic agents. 2019 , 183, 101694	71
794	Target-assisted FRET signal amplification for ultrasensitive detection of microRNA. 2019 , 144, 2304-2311	23
793	New windows into the brain: Central nervous system-derived extracellular vesicles in blood. 2019 , 175, 96-106	70
792	Extracellular Vesicles as Vehicles for the Delivery of Food Bioactives. 2019 , 67, 2113-2119	9
791	Transcriptome of Extracellular Vesicles: State-of-the-Art. 2019 , 10, 202	143
790	Extracellular-Vesicle Isolation from Different Biological Fluids by Size-Exclusion Chromatography. 2019 , 49, e82	30
789	Exosomes and the Future of Immunotherapy in Pancreatic Cancer. 2019 , 20,	41
788	Biology, Pathophysiological Role, and Clinical Implications of Exosomes: A Critical Appraisal. 2019 , 8,	43
787	Upregulated expression of serum exosomal miR-375 and miR-1307 enhance the diagnostic power of CA125 for ovarian cancer. 2019 , 12, 6	43
786	TBC1D3 regulates the payload and biological activity of extracellular vesicles that mediate tissue repair. 2019 , 33, 6129-6139	8
785	Application of Microfluidic Chips in Separation and Analysis of Extracellular Vesicles in Liquid Biopsy for Cancer. 2019 , 10,	14
784	Exosomes. 2019 , 88, 487-514	697
783	Microfluidic Technology for Clinical Applications of Exosomes. 2019 , 10,	34
782	Emerging roles of extracellular vesicles in neurodegenerative disorders. 2019 , 130, 104512	52
781	Extracellular vesicles in type 2 diabetes mellitus: key roles in pathogenesis, complications, and therapy. 2019 , 8, 1625677	46

780	Content release of extracellular vesicles in a cell-free extract. 2019 , 593, 1983-1992	25
779	Hematological Malignancy-Derived Small Extracellular Vesicles and Tumor Microenvironment: The Art of Turning Foes into Friends. 2019 , 8,	17
778	Exosome-mediated communication in the tumor microenvironment contributes to hepatocellular carcinoma development and progression. 2019 , 12, 53	79
777	Involvement of Elf3 on Smad3 activation-dependent injuries in podocytes and excretion of urinary exosome in diabetic nephropathy. 2019 , 14, e0216788	23
776	Emerging role of extracellular vesicles in the regulation of skeletal muscle adaptation. 2019 , 127, 645-653	8
775	Characterization of mRNA profiles of the exosome-like vesicles in porcine follicular fluid. 2019 , 14, e0217760	24
774	Cell Biology and Translational Medicine, Volume 5. 2019 ,	1
773	Lipids in Exosome Biology. 2020 , 259, 309-336	8
772	Microvesicles from cerebrospinal fluid of patients with Alzheimer's disease display reduced concentrations of tau and APP protein. 2019 , 9, 7089	18
771	Challenges in the Isolation and Proteomic Analysis of Cancer Exosomes-Implications for Translational Research. 2019 , 7,	15
770	Advances in therapeutic applications of extracellular vesicles. 2019 , 11,	343
769	Exosomes: cell-created drug delivery systems. 2019 , 459, 1-6	53
768	Basics and applications of tumor-derived extracellular vesicles. 2019 , 26, 35	27
767	Microfluidic Approaches Toward the Isolation and Detection of Exosome Nanovesicles. 2019 , 7, 45080-45098	14
766	Genetic communication by extracellular vesicles is an important mechanism underlying stem cell-based therapy-mediated protection against acute kidney injury. 2019 , 10, 119	18
765	Proteasome 19S RP and translation preinitiation complexes are secreted within exosomes upon serum starvation. 2019 , 20, 516-536	12
764	Mesenchymal Stem Cell-Derived Extracellular Vesicles as Therapeutics and as a Drug Delivery Platform. 2019 , 8, 880-886	69
763	Defining mesenchymal stromal cell (MSC)-derived small extracellular vesicles for therapeutic applications. 2019 , 8, 1609206	227

762	Combinational Treatment of Bioscaffolds and Extracellular Vesicles in Spinal Cord Injury. 2019 , 12, 81	14
761	Potential Utility of Liquid Biopsy as a Diagnostic and Prognostic Tool for the Assessment of Solid Tumors: Implications in the Precision Oncology. 2019 , 8,	70
760	Exosomes: The Indispensable Messenger in Tumor Pathogenesis and the Rising Star in Antitumor Applications. 2019 , 3, e1900008	2
759	The role of donor-derived exosomes in lung allograft rejection. 2019 , 80, 588-594	8
758	Surface Engineering of Extracellular Vesicles through Chemical and Biological Strategies 2019 , 31, 2191-2201	24
757	Extracellular Vesicles as Novel Nanocarriers for Therapeutic Delivery. 2019 , 391-407	2
756	Isolation and characterization of exosomes released from mosquito cells infected with dengue virus. 2019 , 266, 1-14	22
755	Extracellular vesicle isolation methods: rising impact of size-exclusion chromatography. 2019 , 76, 2369-2382	123
754	Role of miRNAs in Melanoma Metastasis. 2019 , 11,	51
753	: A Model for Studying the Extracellular Vesicle Messengers Involved in Human Health and Disease. 2019 , 8,	10
752	Perinatal Stem Cells. 2019 ,	1
751	Tumour biomarkers-Tracing the molecular function and clinical implication. 2019 , 52, e12589	12
750	The role of extracellular vesicles from different origin in the microenvironment of head and neck cancers. 2019 , 18, 83	43
749	Extracellular vesicles in autoimmune vasculitis - Little dirt lights the fire in blood vessels. 2019 , 18, 593-606	20
748	Extracellular Vesicles: Exosomes and Microvesicles, Integrators of Homeostasis. 2019 , 34, 169-177	132
747	Roles of Extracellular Vesicles in High-Grade Gliomas: Tiny Particles with Outsized Influence. 2019 , 20, 331-357	7
746	Cushioned-Density Gradient Ultracentrifugation (C-DGUC) improves the isolation efficiency of extracellular vesicles. 2019 , 14, e0215324	29
745	Extracellular vesicles in the tumor microenvironment: old stories, but new tales. 2019 , 18, 59	131

744	Exosomes on the border of species and kingdom intercommunication. 2019 , 210, 80-98	14
743	The P4-ATPase ATP9A is a novel determinant of exosome release. 2019 , 14, e0213069	14
742	Physiological impact of extracellular vesicles on female reproductive system; highlights to possible restorative effects on female age-related fertility. 2019 , 45, 293-303	14
741	High throughput circRNAs sequencing profile of follicle fluid exosomes of polycystic ovary syndrome patients. 2019 , 234, 15537	29
740	A Novel Virtue in Stem Cell Research: Exosomes and Their Role in Differentiation. 2019 , 1144, 133-146	2
739	The role of exosomal shuttle RNA (esRNA) in lymphoma. 2019 , 137, 27-34	11
738	Ticket to a bubble ride: Cargo sorting into exosomes and extracellular vesicles. 2019 , 1867, 140203	93
737	Stromal Cell Ultrastructure. 2019 ,	
736	Role of Extracellular Vesicles in Human Papillomavirus-Induced Tumorigenesis. 2019 ,	
735	Chronic Lung Allograft Dysfunction: Immune Responses Induced by Circulating Exosomes with Lung-Associated Self-Antigens. 2019 , 39, 123-134	3
734	Extracellular Vesicles and Neurodegenerative Diseases. 2019 , 39, 9269-9273	93
733	Dendritic cell extracellular vesicles. 2019 , 349, 213-249	23
732	Small Particles, Big Effects: The Interplay Between Exosomes and Dendritic Cells in Antitumor Immunity and Immunotherapy. 2019 , 8,	12
731	Cardiovascular morbidities of obstructive sleep apnea and the role of circulating extracellular vesicles. 2019 , 13, 1753466619895229	11
730	The Translational Status of Cancer Liquid Biopsies. 2019 , 7, 312	16
729	The Art of Intercellular Wireless Communications: Exosomes in Heart Disease and Therapy. 2019 , 7, 315	26
728	Cancer-Derived Extracellular Vesicle-Associated MicroRNAs in Intercellular Communication: One Cell's Trash Is Another Cell's Treasure. 2019 , 20,	23
727	Graphene Oxide-Based Biosensors for Liquid Biopsies in Cancer Diagnosis. 2019 , 9,	9

726	Membrane lipids define small extracellular vesicle subtypes secreted by mesenchymal stromal cells. 2019 , 60, 318-322	11
725	Extracellular Vesicles as Conduits of Non-Coding RNA Emission and Intercellular Transfer in Brain Tumors. 2018 , 5,	23
724	Exosome-Mediated Signaling in Epithelial to Mesenchymal Transition and Tumor Progression. 2018 , 8,	42
723	Oncogenic Regulation of Extracellular Vesicle Proteome and Heterogeneity. 2019 , 19, e1800169	19
722	Extracellular vesicles for personalized medicine: The input of physically triggered production, loading and theranostic properties. 2019 , 138, 247-258	54
721	Exosomes: The next generation of endogenous nanomaterials for advanced drug delivery and therapy. 2019 , 86, 1-14	148
720	Comparison of small extracellular vesicles isolated from plasma by ultracentrifugation or size-exclusion chromatography: yield, purity and functional potential. 2019 , 8, 1560809	148
719	Emerging Evidence for the Clinical Relevance of Pancreatic Cancer Exosomes. 2019 , 48, 1-8	9
718	M2 Macrophage-Derived Exosomes Promote Cell Migration and Invasion in Colon Cancer. 2019 , 79, 146-158	243
717	Induced pluripotent stem cell-derived extracellular vesicles: A novel approach for cell-free regenerative medicine. 2019 , 234, 8455-8464	25
716	Ultracentrifugation versus kit exosome isolation: nanoLC-MS and other tools reveal similar performance biomarkers, but also contaminations. 2019 , 5, FSO359	12
715	Characterization and Therapeutic Uses of Exosomes: A New Potential Tool in Orthopedics. 2019 , 28, 141-150	5
714	Purification of Leukemia-Derived Exosomes to Study Microenvironment Modulation. 2019 , 1884, 231-245	7
713	Extracellular membrane vesicles in the three domains of life and beyond. 2019 , 43, 273-303	140
712	Cancer Immunosurveillance. 2019 ,	2
711	Mesenchymal stem cell-based therapy for autoimmune diseases: emerging roles of extracellular vesicles. 2019 , 46, 1533-1549	38
710	The potential diagnostic and prognostic role of extracellular vesicles in glioma: current status and future perspectives. 2019 , 58, 353-362	5
709	Identification of biomarkers for amyotrophic lateral sclerosis by comprehensive analysis of exosomal mRNAs in human cerebrospinal fluid. 2019 , 12, 7	35

708	Effect of mesenchymal stem cells-derived exosomes on tumor microenvironment: Tumor progression versus tumor suppression. 2019 , 234, 3394-3409	35
707	The therapeutic and diagnostic role of exosomes in cardiovascular diseases. 2019 , 29, 313-323	62
706	The critical role of exosomes in tumor biology. 2018 , 120, 6820	4
705	Exosomes: Isolation, Analysis, and Applications in Cancer Detection and Therapy. 2019 , 20, 451-461	62
704	Extracellular vesicles, new actors in the search for biomarkers of dementias. 2019 , 74, 15-20	21
703	Proteomic Analysis of Extracellular Vesicles for Cancer Diagnostics. 2019 , 19, e1800162	23
702	Exosomes: fighting cancer with cancer. 2019 , 10, 37-61	14
701	miRNA-based therapeutic potential of stem cell-derived extracellular vesicles: a safe cell-free treatment to ameliorate radiation-induced brain injury. 2019 , 95, 427-435	25
700	The Potential of Stem Cells and Stem Cell-Derived Exosomes in Treating Cardiovascular Diseases. 2019 , 12, 51-61	11
699	Outer membrane vesicles for vaccination and targeted drug delivery. 2019 , 11, e1523	59
698	In vitro models of exosome biology and toxicology: New frontiers in biomedical research. 2020 , 64, 104462	10
697	Mechanisms of exosome-mediated immune cell crosstalk in inflammation and disease. 2020 , 325-342	
696	Untargeted multi-omic analysis of colorectal cancer-specific exosomes reveals joint pathways of colorectal cancer in both clinical samples and cell culture. 2020 , 469, 186-194	24
695	Preclinical translation of exosomes derived from mesenchymal stem/stromal cells. 2020 , 38, 15-21	95
694	Exosomes in respiratory disease. 2020 , 383-414	2
693	MSC-exosomes in regenerative medicine. 2020 , 433-465	3
692	Extracellular Vesicles and Metastasis. 2020 , 10,	16
691	Engineering of Exosomes to Target Cancer Metastasis. 2020 , 13, 1-16	36

690	Liquid Biopsy Applications in the Clinic. 2020 , 24, 125-132	14
689	Extracellular vesicles and their role in glioblastoma. 2019 , 1-26	11
688	Endosomal dysfunction impacts extracellular vesicle release: Central role in Alzheimer's pathology. 2020 , 58, 101006	14
687	circRNAs and Exosomes: A Mysterious Frontier for Human Cancer. 2020 , 19, 384-392	64
686	Recent Advances in Particulate Adjuvants for Cancer Vaccination. 2020 , 3, 1900115	7
685	Essential Current Concepts in Stem Cell Biology. 2020 ,	0
684	Hot EVs - How temperature affects extracellular vesicles. 2020 , 146, 55-63	16
683	Prospective application of exosomes derived from adipose-derived stem cells in skin wound healing: A review. 2020 , 19, 574-581	29
682	Molecular techniques for respiratory diseases: MicroRNA and extracellular vesicles. 2020 , 25, 149-160	14
681	Actin and Actin-Associated Proteins in Extracellular Vesicles Shed by Osteoclasts. 2019 , 21,	11
680	Exosome-Derived LncRNAs in Lung Cancer. 2020 , 10, 1728	12
679	New insight into the role of exosomes in vitiligo. 2020 , 19, 102664	10
678	Exosome: A Review of Its Classification, Isolation Techniques, Storage, Diagnostic and Targeted Therapy Applications. 2020 , 15, 6917-6934	140
677	Insight into the proteomic profiling of exosomes secreted by human OM-MSCs reveals a new potential therapy. 2020 , 131, 110584	7
676	Exosomal Secretion of Adipose Tissue during Various Physiological States. 2020 , 37, 221	6
675	Late first trimester circulating microparticle proteins predict the risk of preeclampsia . 2020 , 10, 17353	5
674	Exosomal circLPAR1 Promoted Osteogenic Differentiation of Homotypic Dental Pulp Stem Cells by Competitively Binding to hsa-miR-31. 2020 , 2020, 6319395	13
673	Effect of Mesenchymal Stem Cell-Derived Exosomes on Retinal Injury: A Review of Current Findings. 2020 , 2020, 8883616	12

672	Proteomics of Extracellular Vesicles: Update on Their Composition, Biological Roles and Potential Use as Diagnostic Tools in Atherosclerotic Cardiovascular Diseases. 2020 , 10,	7
671	A Brief History of Adherons: The Discovery of Brain Exosomes. 2020 , 21,	1
670	The role of extracellular vesicles in neointima formation post vascular injury. 2020 , 76, 109783	3
669	Exosomes and GPI-anchored proteins: Judicious pairs for investigating biomarkers from body fluids. 2020 , 161-162, 110-123	6
668	The "sugar-coated bullets" of cancer: Tumor-derived exosome surface glycosylation from basic knowledge to applications. 2020 , 10, e204	8
667	Emerging Prospects of Exosomes for Cancer Treatment: From Conventional Therapy to Immunotherapy. 2020 , 32, e2002440	60
666	Characterizing Extracellular Vesicles and Their Diverse RNA Contents. 2020 , 11, 700	67
665	Potential theranostics of circulating tumor cells and tumor-derived exosomes application in colorectal cancer. 2020 , 20, 288	15
664	Exosomal MicroRNAs and Organotropism in Breast Cancer Metastasis. 2020 , 12,	11
663	Exosomes as potential sources of biomarkers in colorectal cancer. 2020 , 476, 13-22	53
662	Salivary exosomes: properties, medical applications, and isolation methods. 2020 , 47, 6295-6307	14
661	Role of Microenvironment in Non-Hodgkin Lymphoma: Understanding the Composition and Biology. 2020 , 26, 206-216	4
660	Phenotypic and Functional Characteristics of Exosomes Derived from Irradiated Mouse Organs and Their Role in the Mechanisms Driving Non-Targeted Effects. 2020 , 21,	13
659	Nanoengineering of stem cells for musculoskeletal regeneration. 2020 , 159-196	0
658	Indirect capillary electrophoresis immunoassay of membrane protein in extracellular vesicles. 2020 , 1629, 461513	6
657	Mesenchymal stem cell derived-exosomes: a modern approach in translational medicine. 2020 , 18, 449	72
656	Exosomes in Cardiovascular Diseases. 2020 , 10,	12
655	Extracellular vesicles in cardiovascular disease. 2021 , 103, 47-95	10

654	Emerging Role of Extracellular Vesicles in Immune Regulation and Cancer Progression. 2020 , 12,	15
653	Role of miRNAs in conveying message of stem cells via extracellular vesicles. 2020 , 117, 104569	7
652	Editorial On "Exosomes, Their Biogenesis and Role in Inter-Cellular Communication, Tumor Microenvironment and Cancer Immunotherapy". 2020 , 8,	1
651	Exosomes from human umbilical cord Mesenchymal stem cells attenuates stress-induced hippocampal dysfunctions. 2020 , 35, 1329-1340	4
650	Metabolic communication during exercise. 2020 , 2, 805-816	37
649	Transmissible Endosomal Intoxication: A Balance between Exosomes and Lysosomes at the Basis of Intercellular Amyloid Propagation. 2020 , 8,	9
648	Uncovering the Exosomes Diversity: A Window of Opportunity for Tumor Progression Monitoring. 2020 , 13,	26
647	Advances of exosome isolation techniques in lung cancer. 2020 , 47, 7229-7251	3
646	Transcriptome Analyses of Immune System Behaviors in Primary Polyp of Coral <i>Acropora digitifera</i> Exposed to the Bacterial Pathogen <i>Vibrio coralliilyticus</i> under Thermal Loading. 2020 , 22, 748-759	5
645	Intrinsic and Extrinsic Modulators of the Epithelial to Mesenchymal Transition: Driving the Fate of Tumor Microenvironment. 2020 , 10, 1122	12
644	The Application of MSCs-Derived Extracellular Vesicles in Bone Disorders: Novel Cell-Free Therapeutic Strategy. 2020 , 8, 619	14
643	Designer Exosomes: A New Platform for Biotechnology Therapeutics. 2020 , 34, 567-586	56
642	Pulmonary involvement in systemic sclerosis: exploring cellular, genetic and epigenetic mechanisms. 2020 , 40, 1555-1569	3
641	The Convergence of Extracellular Vesicle and GPCR Biology. 2020 , 41, 627-640	9
640	Recent Advances in the Use of Exosomes in Sjögren's Syndrome. 2020 , 11, 1509	10
639	The Function of Astrocyte Mediated Extracellular Vesicles in Central Nervous System Diseases. 2020 , 8, 568889	13
638	Communication between stromal and hematopoietic stem cell by exosomes in normal and malignant bone marrow niche. 2020 , 132, 110854	7
637	New Insights on the Mobility of Viral and Host Non-Coding RNAs Reveal Extracellular Vesicles as Intriguing Candidate Antiviral Targets. 2020 , 9,	2

636	Diagnostic and Therapeutic Potential of Extracellular Vesicles in B-Cell Malignancies. 2020 , 10, 580874	7
635	Extracellular vesicles derived from mesenchymal stromal cells mitigate intestinal toxicity in a mouse model of acute radiation syndrome. 2020 , 11, 371	12
634	Function and regulation of lipid signaling in lymphomagenesis: A novel target in cancer research and therapy. 2020 , 154, 103071	3
633	Chronic wounds: Current status, available strategies and emerging therapeutic solutions. 2020 , 328, 532-550	43
632	Exosomes of Malignant Tumors: Prospects of Omi8 Diagnostics. 2020 , 14, 105-115	2
631	Extracellular Vesicles as Nanotherapeutics for Parkinson's Disease. 2020 , 10,	5
630	Femtoplankton: What's New?. 2020 , 12,	3
629	Type I collagen hydrogels as a delivery matrix for royal jelly derived extracellular vesicles. 2020 , 27, 1308-1318	8
628	Mesenchymal stem cell-derived exosome: a promising alternative in the therapy of Alzheimer's disease. 2020 , 12, 109	23
627	Extracellular Vesicles in Bone Metastasis: Key Players in the Tumor Microenvironment and Promising Therapeutic Targets. 2020 , 21,	8
626	Do tumor exosome integrins alone determine organotropic metastasis?. 2020 , 47, 8145-8157	8
625	Role of Chronic Lymphocytic Leukemia (CLL)-Derived Exosomes in Tumor Progression and Survival. 2020 , 13,	11
624	Mesenchymal Stem Cell-Derived Extracellular Vesicles and Their Therapeutic Potential. 2020 , 2020, 8825771	23
623	The role of extracellular vesicles in cholangiocarcinoma. 2020 , 20,	3
622	A Review of Exosomal Isolation Methods: Is Size Exclusion Chromatography the Best Option?. 2020 , 21,	117
621	A Polyethylene Glycol-Based Method for Enrichment of Extracellular Vesicles from Culture Supernatant of Human Ovarian Cancer Cell Line A2780 and Body Fluids of High-Grade Serous Carcinoma Patients. 2020 , 12, 6291-6301	3
620	Dose-effect relationship and molecular mechanism by which BMSC-derived exosomes promote peripheral nerve regeneration after crush injury. 2020 , 11, 360	15
619	An Overview of Exosomes in Cancer Therapy: A Small Solution to a Big Problem. 2020 , 8, 1561	1

618	Exosomal circRNAs: Sorting Mechanisms, Roles and Clinical Applications in Tumors. 2020 , 8, 581558	6
617	An insight into small extracellular vesicles: Their roles in colorectal cancer progression and potential clinical applications. 2020 , 10, e249	4
616	Mitochondrial dysfunction in neurological disorders: Exploring mitochondrial transplantation. 2020 , 5, 22	30
615	The Role of Exosomal Non-Coding RNAs in Coronary Artery Disease. 2020 , 11, 603104	5
614	The Evolving Role of Caveolin-1: A Critical Regulator of Extracellular Vesicles. 2020 , 8,	8
613	Biology of extracellular vesicles secreted from senescent cells as senescence-associated secretory phenotype factors. 2020 , 20, 539-546	22
612	Milk-Derived Extracellular Vesicles in Inter-Organism, Cross-Species Communication and Drug Delivery. 2020 , 8,	46
611	Isolation and Functions of Extracellular Vesicles Derived from Parasites: The Promise of a New Era in Immunotherapy, Vaccination, and Diagnosis. 2020 , 15, 2957-2969	11
610	Acute Lung Injury: Disease Modelling and the Therapeutic Potential of Stem Cells. 2020 , 1298, 149-166	8
609	Membrane-bound extracellular vesicles secreted by parasitic protozoa: cellular structures involved in the communication between cells. 2020 , 119, 2005-2023	15
608	[Liquid biopsy for cancer diagnosis: the potential of exosomes and circulating miRNAs]. 2020 , 57, 99-108	
607	Arthropod exosomes as bubbles with message(s) to transmit vector-borne diseases. 2020 , 40, 39-47	10
606	Extracellular Vesicle- and Extracellular Vesicle Mimetics-Based Drug Delivery Systems: New Perspectives, Challenges, and Clinical Developments. 2020 , 12,	34
605	Cell free DNA biology and its involvement in breast carcinogenesis. 2020 , 97, 171-223	4
604	THE PRESENT AND FUTURE OF THE MASS SPECTROMETRY-BASED INVESTIGATION OF THE EXOSOME LANDSCAPE. 2020 , 39, 745-762	9
603	Commentary on a combined approach to the problem of developing biomarkers for the prediction of spontaneous preterm labor that leads to preterm birth. 2020 , 98, 13-23	5
602	Novel hepatotoxicity biomarkers of extracellular vesicle (EV)-associated miRNAs induced by CCl4. 2020 , 7, 685-692	4
601	Variability in the cleavage of exosome-associated transferrin receptor questions the utility of clinically useful soluble transferrin receptor assays for dogs, cats, and horses. 2020 , 86, 43-52.e1	2

600	Brain Derived Exosomes Are a Double-Edged Sword in Alzheimer's Disease. 2020 , 13, 79	29
599	Regulation of Cancer Immune Checkpoints. 2020 ,	2
598	Impact of neural stem cell-derived extracellular vesicles on mitochondrial dysfunction, sirtuin 1 level, and synaptic deficits in Alzheimer's disease. 2020 , 154, 502-518	24
597	Extracellular Vesicles Derived From Mesenchymal Stem Cells (MSC) in Regenerative Medicine: Applications in Skin Wound Healing. 2020 , 8, 146	88
596	Liquid biopsy, a paradigm shift in oncology: what interventional radiologists should know. 2020 , 30, 4496-4503	3
595	Mesenchymal Stem Cell-Derived Extracellular Vesicles in Tissue Regeneration. 2020 , 29, 963689720908500	24
594	Extracellular vesicles containing the transferrin receptor as nanocarriers of apotransferrin. 2020 , 155, 327-338	7
593	Liquid Biopsy: The Unique Test for Chasing the Genetics of Solid Tumors. 2020 , 13, 2516865720904052	24
592	Exosomes Could Offer New Options to Combat the Long-Term Complications Inflicted by Gestational Diabetes Mellitus. 2020 , 9,	11
591	The Therapeutic Potential of Breast Milk-Derived Extracellular Vesicles. 2020 , 12,	34
590	Role of exosomes and exosomal microRNAs in cancer. 2020 , 6, FSO465	42
589	Sensor-Integrated Microfluidic Approaches for Liquid Biopsies Applications in Early Detection of Cancer. 2020 , 20,	18
588	Progress in extracellular vesicle biology and their application in cancer medicine. 2020 , 12, e1621	27
587	Advanced diagnostic aids for oral cancer. 2020 , 66, 101034	6
586	Emerging roles of extracellular vesicles in the intercellular communication for exercise-induced adaptations. 2020 , 319, E320-E329	7
585	Current understanding of the role of Adipose-derived Extracellular Vesicles in Metabolic Homeostasis and Diseases: Communication from the distance between cells/tissues. 2020 , 10, 7422-7435	28
584	Exosome Circuitry During (De)(Re)Myelination of the Central Nervous System. 2020 , 8, 483	8
583	Pancreatic stellate cells derived exosomal miR-5703 promotes pancreatic cancer by downregulating CMTM4 and activating PI3K/Akt pathway. 2020 , 490, 20-30	28

582	Reference and Ghost Proteins Identification in Rat C6 Glioma Extracellular Vesicles. 2020 , 23, 101045	10
581	Biomimicked Biomaterials. 2020 ,	2
580	Liquid biopsy in ovarian cancer. 2020 , 510, 28-34	4
579	Exosomes as Drug Delivery Vehicles for Cancer Treatment. 2020 , 16, 15-26	4
578	Emerging Potential of Exosomes in Regenerative Medicine for Temporomandibular Joint Osteoarthritis. 2020 , 21,	19
577	NAFLD and NASH. 2020 ,	
576	In situ self-assembled Ag-FeO nanoclusters in exosomes for cancer diagnosis. 2020 , 8, 2845-2855	13
575	Preservation techniques of stem cells extracellular vesicles: a gate for manufacturing of clinical grade therapeutic extracellular vesicles and long-term clinical trials. 2020 , 8, 1-8	24
574	The enigmatic mechanisms by which Plasmodium vivax infects Duffy-negative individuals. 2020 , 16, e1008258	9
573	Role of Extracellular Vesicles in Cellular Cross Talk in Malaria. 2020 , 11, 22	23
572	Subpopulations of extracellular vesicles from human metastatic melanoma tissue identified by quantitative proteomics after optimized isolation. 2020 , 9, 1722433	68
571	Non-Exosomal and Exosomal Circulatory MicroRNAs: Which Are More Valid as Biomarkers?. 2019 , 10, 1500	64
570	Inclusion Biogenesis, Methods of Isolation and Clinical Application of Human Cellular Exosomes. 2020 , 9,	51
569	Implications of Anti-Inflammatory Nature of Exosomes in Knee Arthritis. 2020 , 1947603520904766	5
568	Exosomes: nanodust?. 2020 , 68, 56-59	4
567	Advances in Analysis of Biodistribution of Exosomes by Molecular Imaging. 2020 , 21,	64
566	Unraveling the mechanisms that specify molecules for secretion in extracellular vesicles. 2020 , 177, 15-26	17
565	Highly-expressed microRNA-21 in adipose derived stem cell exosomes can enhance the migration and proliferation of the HaCaT cells by increasing the MMP-9 expression through the PI3K/AKT pathway. 2020 , 681, 108259	31

564	A Role for Exosomes in Craniofacial Tissue Engineering and Regeneration. 2019 , 10, 1569	28
563	The Role of Bone-Derived Exosomes in Regulating Skeletal Metabolism and Extrasosseous Diseases. 2020 , 8, 89	19
562	Pathophysiological Role and Potential Therapeutic Exploitation of Exosomes in Ovarian Cancer. 2020 , 9,	9
561	Extracellular vesicles as biomarkers in malignant pleural mesothelioma: A review. 2020 , 150, 102949	11
560	The Role of Circulating MicroRNA in Glioblastoma Liquid Biopsy. 2020 , 138, 425-435	12
559	Prospects and challenges of extracellular vesicle-based drug delivery system: considering cell source. 2020 , 27, 585-598	109
558	Tumor circulome in the liquid biopsies for cancer diagnosis and prognosis. 2020 , 10, 4544-4556	43
557	Exosomal miRNAs in hepatitis B virus related liver disease: a new hope for biomarker. 2020 , 12, 23	17
556	Generation of the Rat Monoclonal Antibody Against the Extracellular Domain of Human CD63 by DNA Immunization. 2020 , 39, 74-76	1
555	Improving extracellular vesicles visualization: From static to motion. 2020 , 10, 6494	8
554	Smart Strategies for Therapeutic Agent Delivery into Brain across the Blood-Brain Barrier Using Receptor-Mediated Transcytosis. 2020 , 68, 316-325	17
553	Membrane Rearrangements in the Maturation of Circulating Human Reticulocytes. 2020 , 11, 215	4
552	Extracellular Vesicles in Smoking-Mediated HIV Pathogenesis and their Potential Role in Biomarker Discovery and Therapeutic Interventions. 2020 , 9,	6
551	The Role of Vitamin D in Modulating Mesenchymal Stem Cells and Endothelial Progenitor Cells for Vascular Calcification. 2020 , 21,	6
550	Dancing with Trojan horses: an interplay between the extracellular vesicles and viruses. 2021 , 39, 3034-3060	15
549	The role of extracellular vesicles in skeletal muscle and systematic adaptation to exercise. 2021 , 599, 845-861	24
548	Mesenchymal stem cell-derived small extracellular vesicles and bone regeneration. 2021 , 128, 18-36	14
547	Towards analyzing the potential of exosomes to deliver microRNA therapeutics. 2021 , 236, 1529-1544	8

546	Challenges in the development and establishment of exosome-based drug delivery systems. 2021 , 329, 894-906	36
545	Extracellular vesicles derived from <i>Trichinella spiralis</i> prevent colitis by inhibiting M1 macrophage polarization. 2021 , 213, 105761	6
544	Therapeutic Potential of Extracellular Vesicles in Hypertension-Associated Kidney Disease. 2021 , 77, 28-38	5
543	Biological role and clinical relevance of extracellular vesicles as key mediators of cell communication in cancer. 2021 , 33, 37-117	2
542	Shedding Light on Extracellular Vesicle Biogenesis and Bioengineering. 2020 , 8, 2003505	57
541	Plant Exosome-like Nanovesicles: Emerging Therapeutics and Drug Delivery Nanoplatfoms. 2021 , 29, 13-31	43
540	Pathogenic and protective roles of extracellular vesicles in neurodegenerative diseases. 2021 , 169, 181-186	3
539	Small extracellular vesicles (sEVs): discovery, functions, applications, detection methods and various engineered forms. 2021 , 21, 371-394	5
538	Extracellular Vesicles in Inflammatory Bowel Disease: Small Particles, Big Players. 2021 , 15, 499-510	12
537	Isolation and analysis methods of extracellular vesicles (EVs). 2021 , 2, 80-103	6
536	Sirtuins as regulators and the regulated molecules of exosomes. 2021 , 91-101	
535	Exosomes in Parkinson disease. 2021 , 157, 413-428	17
534	Advances in microfluidic extracellular vesicle analysis for cancer diagnostics. 2021 , 21, 3219-3243	8
533	Therapeutic application of exosomes in ischaemic stroke. 2021 , 6, 483-495	6
532	Elucidating Methods for Isolation and Quantification of Exosomes: A Review. 2021 , 63, 249-266	28
531	Extracellular Matrix in Calcific Aortic Valve Disease: Architecture, Dynamic and Perspectives. 2021 , 22,	13
530	Brain-Derived Extracellular Vesicles in Health and Disease: A Methodological Perspective. 2021 , 22,	5
529	Diagnostic and Therapeutic Applications of Extracellular Vesicles in Interstitial Lung Diseases. 2021 , 11,	1

528	Hijacking Endocytosis and Autophagy in Extracellular Vesicle Communication: Where the Inside Meets the Outside. 2020 , 8, 595515	8
527	Research Advances in the Application of Adipose-Derived Stem Cells Derived Exosomes in Cutaneous Wound Healing. 2021 , 33, 309-317	7
526	Triple Negative Breast Cancer: A Review of Present and Future Diagnostic Modalities. 2021 , 57,	15
525	Extracellular vesicles: Potential impact on cardiovascular diseases. 2021 , 105, 49-100	1
524	MicroRNAs and exosomes in human milk. 2021 , 337-356	
523	A perspective on the isolation and characterization of extracellular vesicles from different biofluids.. 2021 , 11, 19598-19615	6
522	Crosstalk between exosomes and autophagy: A review of molecular mechanisms and therapies. 2021 , 25, 2297-2308	15
521	Extracellular Vesicles and Exosomes: Insights From Exercise Science. 2020 , 11, 604274	31
520	Changes in Exosome Release in Thyroid Cancer Cells after Prolonged Exposure to Real Microgravity in Space. 2021 , 22,	4
519	Intracellular aggregations of biological elements: From simple to complex. 2021 , 2, e27	0
518	Exosomes and exosomal RNAs in breast cancer: A status update. 2021 , 144, 252-268	21
517	Extracellular Vesicles as Inflammatory Drivers in NAFLD. 2020 , 11, 627424	13
516	Exosomes and Cell Communication: From Tumour-Derived Exosomes and Their Role in Tumour Progression to the Use of Exosomal Cargo for Cancer Treatment. 2021 , 13,	14
515	The Gut-Breast Axis: Programming Health for Life. 2021 , 13,	14
514	Exosome-mediated transfer of CD44 from high-metastatic ovarian cancer cells promotes migration and invasion of low-metastatic ovarian cancer cells. 2021 , 14, 38	11
513	Advances in Analytical Technologies for Extracellular Vesicles. 2021 , 93, 4739-4774	14
512	The Potential of Exosomal RNAs in Atherosclerosis Diagnosis and Therapy. 2020 , 11, 572226	1
511	Exosomes and Exosomal microRNAs in Age-associated Stroke. 2021 , 19, 587-600	2

510	CT imaging of gold nanoparticle-labeled exosomes in a myocardial infarction mouse model. 2021 , 9, 504	4
509	Strategies for delivering therapeutics across the blood-brain barrier. 2021 , 20, 362-383	67
508	Extracellular Vesicles from Mesenchymal Stromal Cells for the Treatment of Inflammation-Related Conditions. 2021 , 22,	11
507	The Role of Exosomes in Breast Cancer Diagnosis. 2021 , 9,	11
506	Potential of Exosomes for Diagnosis and Treatment of Joint Disease: Towards a Point-of-Care Therapy for Osteoarthritis of the Knee. 2021 , 22,	3
505	Novel devices for isolation and detection of bacterial and mammalian extracellular vesicles. 2021 , 188, 139	2
504	Exosomes Derived From Macrophages Enhance Aerobic Glycolysis and Chemoresistance in Lung Cancer by Stabilizing c-Myc via the Inhibition of NEDD4L. 2020 , 8, 620603	8
503	Beyond the Extracellular Vesicles: Technical Hurdles, Achieved Goals and Current Challenges When Working on Adipose Cells. 2021 , 22,	2
502	Quantitative characterization of extracellular vesicle uptake and content delivery within mammalian cells. 2021 , 12, 1864	20
501	Emerging roles of extracellular vesicles in mediating RNA virus infection. 2021 , 1, 179-185	1
500	Expedition into Exosome Biology: A Perspective of Progress from Discovery to Therapeutic Development. 2021 , 13,	8
499	Evaluation of exosome derivatives as bio-informational reprogramming therapy for cancer. 2021 , 19, 103	2
498	Eating microRNAs: pharmacological opportunities for cross-kingdom regulation and implications in host gene and gut microbiota modulation. 2021 , 178, 2218-2245	15
497	Follicular fluid exosomes: Important modulator in proliferation and steroid synthesis of porcine granulosa cells. 2021 , 35, e21610	3
496	Biogenesis, physiological functions and potential applications of extracellular vesicles in substance use disorders. 2021 , 78, 4849-4865	7
495	Role of Circulating Tumor DNA in Hematological Malignancy. 2021 , 13,	3
494	The role and application of small extracellular vesicles in gastric cancer. 2021 , 20, 71	11
493	Biomarkers (mRNAs and Non-Coding RNAs) for the Diagnosis and Prognosis of Colorectal Cancer - From the Body Fluid to Tissue Level. 2021 , 11, 632834	5

492	The exosome journey: from biogenesis to uptake and intracellular signalling. 2021 , 19, 47	101
491	Extracellular Vesicles as Promising Carriers in Drug Delivery: Considerations from a Cell Biologist's Perspective. 2021 , 10,	5
490	Therapeutic and Diagnostic Translation of Extracellular Vesicles in Cardiovascular Diseases: Roadmap to the Clinic. 2021 , 143, 1426-1449	42
489	Plant-Derived Nano and Microvesicles for Human Health and Therapeutic Potential in Nanomedicine. 2021 , 13,	9
488	Expression levels of plasma exosomal miR-124, miR-125b, miR-133b, miR-130a and miR-125b-1-3p in severe asthma patients and normal individuals with emphasis on inflammatory factors. 2021 , 17, 51	6
487	Stem cell-derived exosomes for wound healing: current status and promising directions. 2021 , 112, 384-400	8
486	Extracellular vesicle-transferred long noncoding RNAs in bladder cancer. 2021 , 516, 34-45	1
485	Clinical applications for exosomes: Are we there yet?. 2021 , 178, 2375-2392	18
484	Isolation of intact extracellular vesicles from cryopreserved samples. 2021 , 16, e0251290	3
483	Exosomes: Isolation, characterization, and biomedical applications. 2021 , 45, 1807-1831	9
482	Urine Biomarkers for Prostate Cancer Diagnosis and Progression. 2021 , 2, 159-170	
481	A versatile platform for generating engineered extracellular vesicles with defined therapeutic properties. 2021 , 29, 1729-1743	44
480	Role of Extracellular Vesicles in Glioma Progression: Deciphering Cellular Biological Processes to Clinical Applications. 2021 , 21, 696-704	5
479	Extracellular vesicle interplay in cardiovascular pathophysiology. 2021 , 320, H1749-H1761	7
478	Placenta-Derived Exosomes as a Modulator in Maternal Immune Tolerance During Pregnancy. 2021 , 12, 671093	12
477	Potential Use of Exosomes as Diagnostic Biomarkers and in Targeted Drug Delivery: Progress in Clinical and Preclinical Applications. 2021 , 7, 2106-2149	15
476	Roles of exosomes in cancer chemotherapy resistance, progression, metastasis and immunity, and their clinical applications (Review). 2021 , 59,	8
475	Extracellular Vesicle Application as a Novel Therapeutic Strategy for Ischemic Stroke. 2021 , 1	2

474	ADSC Exosomes Mediate lncRNA-MIAT Alleviation of Endometrial Fibrosis by Regulating miR-150-5p. 2021 , 12, 679643	3
473	Message in a Bubble: Shuttling Small RNAs and Proteins Between Cells and Interacting Organisms Using Extracellular Vesicles. 2021 , 72, 497-524	20
472	Perspective insights and application of exosomes as a novel tool against neurodegenerative disorders: An expository appraisal. 2021 , 63, 102526	0
471	Biological Properties of Milk-Derived Extracellular Vesicles and Their Physiological Functions in Infant. 2021 , 9, 693534	14
470	Plant-derived exosome-like nanoparticles: A concise review on its extraction methods, content, bioactivities, and potential as functional food ingredient. 2021 , 86, 2838-2850	10
469	Bacteria- and host-derived extracellular vesicles - two sides of the same coin?. 2021 , 134,	3
468	Exosomes in Intestinal Inflammation. 2021 , 12, 658505	3
467	Understanding the Pathophysiology of Exosomes in Schistosomiasis: A New Direction for Disease Control and Prevention. 2021 , 12, 634138	1
466	No small matter: emerging roles for exosomal miRNAs in the immune system. 2021 ,	1
465	Review of Methodological Approaches to Human Milk Small Extracellular Vesicle Proteomics. 2021 , 11,	1
464	Exosomal microRNA in Pancreatic Cancer Diagnosis, Prognosis, and Treatment: From Bench to Bedside. 2021 , 13,	8
463	Extracellular Vesicles-The Next Frontier in Endocrinology. 2021 , 162,	3
462	Exosomes in HIV infection. 2021 , 16, 262-270	6
461	Extracellular Vesicles in Advanced Prostate Cancer: Tools to Predict and Thwart Therapeutic Resistance. 2021 , 13,	2
460	Unfathomed Nanomessages to the Heart: Translational Implications of Stem Cell-Derived, Progenitor Cell Exosomes in Cardiac Repair and Regeneration. 2021 , 10,	3
459	Exosome-Based Vaccines: Pros and Cons in the World of Animal Health. 2021 , 13,	1
458	The Study of Ginger-Derived Extracellular Vesicles as a Natural Nanoscale Drug Carrier and Their Intestinal Absorption in Rats. 2021 , 22, 206	3
457	Exosome-Based Vaccines: History, Current State, and Clinical Trials. 2021 , 12, 711565	21

456	Extracellular Vesicles in the Cornea: Insights from Other Tissues. 2021 , 2021, 9983900	6
455	Extracellular vesicles-mediated interaction within intestinal microenvironment in inflammatory bowel disease.. 2022 , 37, 221-233	4
454	Characteristics and Clinical Application of Extracellular Vesicle-Derived DNA. 2021 , 13,	7
453	SPP1 derived from silica-exposed macrophage exosomes triggers fibroblast transdifferentiation. 2021 , 422, 115559	3
452	Friends and foes: Extracellular vesicles in aging and rejuvenation. 2021 , 3, 787-801	6
451	Mechanism of Exosomes Involved in Osteoimmunity Promoting Osseointegration Around Titanium Implants With Small-Scale Topography. 2021 , 9, 682384	3
450	Emerging Role of Extracellular Vesicles in Biomarking the Gastrointestinal Diseases. 2021 , 21, 939-962	1
449	Nipping disease in the bud: nSMase2 inhibitors as therapeutics in extracellular vesicle-mediated diseases. 2021 , 26, 1656-1668	5
448	A paradigm shift in cell-free approach: the emerging role of MSCs-derived exosomes in regenerative medicine. 2021 , 19, 302	24
447	Exosomes and Atherogenesis. 2021 , 8, 738031	0
446	Type 1 Diabetes and Associated Cardiovascular Damage: Contribution of Extracellular Vesicles in Tissue Crosstalk. 2021 ,	
445	Exosomes as cell-derivative carriers in the diagnosis and treatment of central nervous system diseases. 2021 , 1	2
444	Extracellular Vesicles in Skin Wound Healing. 2021 , 14,	7
443	Mesenchymal Stem Cell-Derived Exosomes: Applications in Regenerative Medicine. 2021 , 10,	25
442	Role of Exosomal MicroRNAs in Cell-to-Cell Communication. 2022 , 2257, 269-292	2
441	Role of exosomal long non-coding RNAs in colorectal cancer. 2021 , 13, 867-878	1
440	Exosomes in Dogs and Cats: An Innovative Approach to Neoplastic and Non-Neoplastic Diseases. 2021 , 14,	1
439	Extracellular vesicles as a drug delivery system: A systematic review of preclinical studies. 2021 , 175, 113801	24

438	Intercellular communication through extracellular vesicles in cancer and evolutionary biology. 2021 , 165, 80-87	0
437	Biological Functions Driven by mRNAs Carried by Extracellular Vesicles in Cancer. 2021 , 9, 620498	5
436	Extracellular Vesicles in Acute Kidney Injury and Clinical Applications. 2021 , 22,	3
435	Trends in the biological functions and medical applications of extracellular vesicles and analogues. 2021 , 11, 2114-2135	7
434	Abnormal expression profile of plasma-derived exosomal microRNAs in patients with treatment-resistant depression. 2021 , 15, 55	2
433	Exosomes: Emerging Therapy Delivery Tools and Biomarkers for Kidney Diseases. 2021 , 2021, 7844455	0
432	Construction and evaluation of liraglutide delivery system based on milk exosomes: a new idea for oral peptide delivery. 2021 ,	0
431	Advanced Nanotechnologies for Extracellular Vesicle-Based Liquid Biopsy. 2021 , 8, e2102789	13
430	Challenges and opportunities in the study of extracellular vesicles: Global institutional context and national state of the art. 2021 , 41, 555-589	
429	Exosomal Proteins and miRNAs as Mediators of Amyotrophic Lateral Sclerosis. 2021 , 9, 718803	2
428	What we know on the potential use of exosomes for nanodelivery. 2021 ,	4
427	The effects of tumor-derived exosomes on T-cell function and efficacy of cancer immunotherapy. e1029	
426	A Comprehensive Insight into the Role of Exosomes in Viral Infection: Dual Faces Bearing Different Functions. 2021 , 13,	3
425	Role of Extracellular Vesicles on Cancer Lymphangiogenesis and Lymph Node Metastasis. 2021 , 11, 721785	3
424	Exosomes-mediated tumor treatment: One body plays multiple roles. 2021 ,	0
423	The Significance of Exosomes in Pathogenesis, Diagnosis, and Treatment of Esophageal Cancer. 2021 , 16, 6115-6127	1
422	The basic characteristics of extracellular vesicles and their potential application in bone sarcomas. 2021 , 19, 277	1
421	Nanosystems and exosomes as future approaches in treating multiple sclerosis. 2021 , 54, 7377-7404	1

420	CRISPR Cas/Exosome Based Diagnostics: Future of Early Cancer Detection.	1
419	Landscape of extracellular vesicles in the tumour microenvironment: Interactions with stromal cells and with non-cell components, and impacts on metabolic reprogramming, horizontal transfer of neoplastic traits, and the emergence of therapeutic resistance. 2021 , 74, 24-44	10
418	Non-coding RNAs in melanoma: Biological functions and potential clinical applications. 2021 , 22, 219-231	1
417	Characterization of Exosome-Related Gene Risk Model to Evaluate the Tumor Immune Microenvironment and Predict Prognosis in Triple-Negative Breast Cancer. 2021 , 12, 736030	0
416	Scaled preparation of extracellular vesicles from conditioned media. 2021 , 177, 113940	13
415	New Light on the Horizon: Extracellular Vesicles as Diagnostic Tool in Transient Ischemic Attack and Ischemic Stroke. 2021 , 52, 3348-3350	
414	High-quality milk exosomes as oral drug delivery system. 2021 , 277, 121126	7
413	Extracellular vesicles in acute respiratory distress syndrome: Recent developments from bench to bedside. 2021 , 100, 108118	1
412	Small extracellular vesicles in cancer. 2021 , 6, 3705-3743	21
411	Exosomal long non-coding RNAs: Emerging players in cancer metastasis and potential diagnostic biomarkers for personalized oncology. 2021 , 8, 769-780	2
410	Circulating extracellular vesicles: friends and foes in neurodegeneration. 2022 , 17, 534-542	3
409	Intercellular Communication by Vascular Endothelial Cell-Derived Extracellular Vesicles and Their MicroRNAs in Respiratory Diseases. 2020 , 7, 619697	6
408	Biogenesis of Extracellular Vesicles. 2021 , 97, 19-43	9
407	Power and promise of exosomes as clinical biomarkers and therapeutic vectors for liquid biopsy and cancer control. 2021 , 1875, 188497	3
406	Extracellular vesicles mediate cellular interactions in renal diseases-Novels views of intercellular communications in the kidney. 2021 , 236, 5482-5494	3
405	Extracellular Vesicles in Cancer Metabolism: Implications for Cancer Diagnosis and Treatment. 2021 , 20, 15330338211037821	3
404	Circulating Exosomes of Neuronal Origin as Potential Early Biomarkers for Development of Stroke. 2021 , 25, 163-180	4
403	A Protocol for Isolation, Purification, Characterization, and Functional Dissection of Exosomes. 2021 , 2261, 105-149	14

402 Exosome Imaging. **2021**, 943-952

401 Current strategies in tailoring methods for engineered exosomes and future avenues in biomedical applications. **2021**, 9, 6281-6309 3

400 The Tumor Environment: Cholangiocarcinoma-Associated Fibroblasts and Beyond. **2021**, 509-526

399 ExoCAS-2: Rapid and Pure Isolation of Exosomes by Anionic Exchange Using Magnetic Beads. **2021**, 9, 7

398 Extracellular Vesicles and Preeclampsia: Current Knowledge and Future Research Directions. **2021**, 97, 455-482 4

397 Transferrins. **1985**, 183-262 61

396 History and Basic Concepts. **1993**, 1-145 2

395 RNAi Therapeutic Delivery by Exosomes. **2013**, 185-205 3

394 Mechanism of production of the serum transferrin receptor. **1994**, 356, 61-8 9

393 Transferrin: Receptor-Mediated Endocytosis and Iron Delivery. **1985**, 131-161 16

392 Maturation Breakdown of Mitochondria and Other Organelles in Reticulocytes. **1990**, 151-194 29

391 The physiological significance of circulating transferrin receptors. **1994**, 352, 119-26 20

390 RNA interference: mechanisms, technical challenges, and therapeutic opportunities. **2015**, 1218, 1-15 35

389 Proteins of Iron Homeostasis. **2012**, 3-25 1

388 Erythroid Iron Metabolism. **2012**, 191-209 5

387 Extracellular Vesicles. **2020**, 219-229 2

386 The Mechanism of Action of Erythropoietin: Erythroid Cell Response. **1992**, 49-114 4

385 The Development of Extracellular Vesicle-Integrated Biomaterials for Bone Regeneration. **2020**, 1250, 97-108 3

384	Exosome and Secretion: Action On?. 2020 , 1248, 455-483	6
383	Characterization and Fine Structure of Exosomes. 2021 , 27-75	1
382	Quantification of mtDNA in extracellular vesicles. 2020 , 645, 119-140	0
381	The bright and dark side of extracellular vesicles in the senescence-associated secretory phenotype. 2020 , 189, 111263	23
380	Serum transferrin receptor is a truncated form of tissue receptor.. 1990 , 265, 19077-19081	144
379	Human erythrocyte clathrin and clathrin-uncoating protein.. 1985 , 260, 14850-14856	14
378	In vitro acylation of the transferrin receptor.. 1984 , 259, 15460-15463	34
377	Selective externalization of the transferrin receptor by sheep reticulocytes in vitro. Response to ligands and inhibitors of endocytosis.. 1984 , 259, 9776-9782	39
376	Vesicle formation during reticulocyte maturation. Association of plasma membrane activities with released vesicles (exosomes).. 1987 , 262, 9412-9420	1464
375	Selective externalization of an ATP-binding protein structurally related to the clathrin-uncoating ATPase/heat shock protein in vesicles containing terminal transferrin receptors during reticulocyte maturation.. 1986 , 261, 15368-15371	48
374	Transferrin receptor number, synthesis, and endocytosis during erythropoietin-induced maturation of Friend virus-infected erythroid cells.. 1986 , 261, 9187-9195	58
373	Secretion of Intact Proteins and Peptide Fragments by Lysosomal Pathways of Protein Degradation. 1989 , 264, 21591-21596	39
372	Exosomes: composition, biogenesis and function.	1
371	Comparison of ultracentrifugation and a commercial kit for isolation of exosomes derived from glioblastoma and breast cancer cells.	3
370	A shared pathway of exosome biogenesis operates at plasma and endosome membranes.	10
369	Receptor-mediated endocytosis. 1986 , 77, 657-62	98
368	Role of receptor cycling in the regulation of angiotensin II surface receptor number and angiotensin II uptake in rat vascular smooth muscle cells. 1989 , 84, 840-6	115
367	Differentiation-associated switches in protein 4.1 expression. Synthesis of multiple structural isoforms during normal human erythropoiesis. 1993 , 91, 329-38	73

366	Extracellular vesicles and infectious diseases: new complexity to an old story. 2016 , 126, 1181-9	145
365	Tissue-Specific Regulation of Iron Metabolism and Heme Synthesis: Distinct Control Mechanisms in Erythroid Cells. 1997 , 89, 1-25	7
364	Exosome: from internal vesicle of the multivesicular body to intercellular signaling device. 2000 , 113, 3365-3374	736
363	Role of Exosomes in the Progression, Diagnosis, and Treatment of Gliomas. 2020 , 26, e924023	10
362	Axonal maintenance, glia, exosomes, and heat shock proteins. 2016 , 5,	17
361	Exosomes communicate protective messages during oxidative stress; possible role of exosomal shuttle RNA. 2010 , 5, e15353	324
360	Significant biochemical, biophysical and metabolic diversity in circulating human cord blood reticulocytes. 2013 , 8, e76062	77
359	Enabling Metabolomics Based Biomarker Discovery Studies Using Molecular Phenotyping of Exosome-Like Vesicles. 2016 , 11, e0151339	54
358	Exosomes: Emerging Players of Intercellular Communication in Tumor Microenvironment. 2014 , 2, e26	12
357	DEVELOPMENT OF CANCER DIAGNOSTICS AND MONITORING METHODS BASED ON ANALYSIS OF TUMOR-DERIVED EXOSOMES. 2015 , 14, 9-18	6
356	[Exosomes of malignant tumors: prospects of omiØ diagnostics]. 2019 , 65, 457-467	5
355	Characterization of mouse serum exosomal small RNA content: The origins and their roles in modulating inflammatory response. 2017 , 8, 42712-42727	19
354	Comparative proteomics of exosomes secreted by tumoral Jurkat T cells and normal human T cell blasts unravels a potential tumorigenic role for valosin-containing protein. 2016 , 7, 29287-305	33
353	Extracellular vesicles: small bricks for tissue repair/regeneration. 2017 , 5, 83	32
352	On the function and heterogeneity of extracellular vesicles. 2017 , 5, 150	14
351	Roles of Exosomes in Ocular Diseases. 2020 , 15, 10519-10538	19
350	Applications of Exosomes in Targeted Drug Delivery for the Treatment of Parkinson's Disease: A Review of Recent Advances and Clinical Challenges. 2020 , 20, 2777-2788	1
349	Stem-Cell Derived Exosomes for the Treatment of Osteoarthritis. 2020 , 15, 597-601	3

348	Exosome in disease biology, diagnosis, and therapy. 2014 , 34, 233-239	3
347	Extracellular Vesicles from Red Blood Cells and Their Evolving Roles in Health, Coagulopathy and Therapy. 2020 , 22,	24
346	Exosomal non-coding RNAs: Novel biomarkers with emerging clinical applications in gastric cancer (Review). 2020 , 22, 4091-4100	1
345	Diagnostic and prognostic value of plasma level of microRNA-92a in acute myeloid leukemia. 2014 , 04, 1-10	3
344	Exosomes derived from stem cells as an emerging therapeutic strategy for intervertebral disc degeneration. 2020 , 12, 803-813	9
343	Mesenchymal stem cell-derived exosomes: Toward cell-free therapeutic strategies in regenerative medicine. 2020 , 12, 814-840	18
342	Liquid biopsy: a new diagnostic modality. 3-8	3
341	Mesenchymal Cell-Derived Exosomes as Novel Useful Candidates for Drug Delivery. 2020 , 7,	6
340	The Roles of Extracellular Vesicles in Malignant Melanoma. 2021 , 10,	5
339	RNAi-Based Approaches for Pancreatic Cancer Therapy. 2021 , 13,	4
338	Platelet-rich plasma-derived extracellular vesicles: A superior alternative in regenerative medicine?. 2021 , 54, e13123	3
337	The Utility of Exosomes in Diagnosis and Therapy of Diabetes Mellitus and Associated Complications. 2021 , 12, 756581	2
336	Secretory microRNA as a novel diagnostic marker. 2011 , 26, 10-14	
335	The Platelet Microparticle Proteome. 159-184	0
334	Ultrastructure of Endothelium and Microparticles. 2013 , 101-135	
333	The perspective of DDS from the viewpoint of a basic researcher. 2014 , 29, 30-38	
332	The Transferrin Receptor and Iron Accumulation in Erythroid Cells. 1990 , 403-427	
331	The Biogenesis of Exosomes. 2014 , 65-96	

- 330 Parkinson Disease. **2015**, 263-299
- 329 Extracellular Vesicles and Neurological Diseases. **2015**, 33, 75-81
- 328 Exosome isolation from hemolymph of white-spotted flower chafer, *Protaetia brevitarsis* (Kolbe) (Coleoptera: Scarabaeidae).. **2016**, 33, 85-91
- 327 Exosomal miRNAs and Cancer. **2017**, 2,
- 326 Circulating Molecular and Cellular Biomarkers in Cancer. 607-656 1
- 325 Role of Mesenchymal Stem CellsDerived Exosomes in Osteoarthritis Treatment. **2018**, 62, 19-23
- 324 Extracellular Vesicle as Biomarker for Liver Diseases. **2019**,
- 323 Genomic and Proteomic Monitoring of Stem Cell-Derived Exosomes. **2019**, 97-106
- 322 ??????????????. **2019**,
- 321 The Characteristics and Therapeutic Application of Perinatal Mesenchymal Stem Cell-Derived Exosomes. **2019**, 83-91
- 320 The biologist on the hunt for extracellular ribosomes. **2020**, 582, S6-S8
- 319 Direct counting of exosomes in a cell culture medium using neither isolation nor preconcentration. **2020**, 1119, 35-40 2
- 318 Extracellular Vesicles and Their Roles in Cancer Progression. **2021**, 2174, 143-170 19
- 317 Exosomes in Ageing and Motor Neurone Disease: Biogenesis, Uptake Mechanisms, Modifications in Disease and Uses in the Development of Biomarkers and Therapeutics. **2021**, 10, 3
- 316 Deliver on Time or Pay the Fine: Scheduling in Membrane Trafficking. **2021**, 22, 0
- 315 Antisense oligonucleotide activity in tumour cells is influenced by intracellular LBPA distribution and extracellular vesicle recycling. **2021**, 4, 1241 0
- 314 Protective effect of human umbilical cord mesenchymal stem cell-derived exosomes on rat retinal neurons in hyperglycemia through the brain-derived neurotrophic factor/TrkB pathway. **2021**, 14, 1683-1689 0
- 313 A review of particle electrophoresis and its application. **2020**, 64, 19-22

312	Development of extracellular vesicle (EV)-based diagnostics and therapeutics. 2020 , 2, 80-83	
311	[Exosomes: Nanodust? German version]. 2020 , 68, 111-114	
310	Extracellular Vesicles in Non-alcoholic Fatty Liver Disease: Key Players in Disease Pathogenesis and Promising Biomarker Tools. 2020 , 157-180	
309	Hallmarks of Exosomes.. 2022 , 8, FSO764	2
308	Formation, contents, functions of exosomes and their potential in lung cancer diagnostics and therapeutics. 2021 , 12, 3088-3100	2
307	New Scenarios in Pharmacological Treatments of Head and Neck Squamous Cell Carcinomas. 2021 , 13,	2
306	The myxovirus-resistance protein, MX1, is a component of exosomes secreted by uterine epithelial cells. 2012 , n/a-n/a	
305	Exosomes: Pros and Cons for Fighting Cancer. 2021 , 373-382	
304	Exosomal melanotransferrin as a potential biomarker for metastatic melanoma.	
303	A novel secretory pathway for interleukin-1 beta, a protein lacking a signal sequence. 1990 , 9, 1503-10	249
302	Antigen-induced, IgE-mediated degranulation of cloned immature mast cells derived from normal mice. 1987 , 126, 535-45	14
301	Extracellular Vesicles: Evolutionarily Conserved Mediators of Intercellular Communication. 2017 , 90, 481-491	37
300	Focus on exosomes: novel pathogenic components of leukemia. 2019 , 9, 1815-1829	15
299	CircRNAs in exosomes from high glucose-treated glomerular endothelial cells activate mesangial cells. 2019 , 11, 4667-4682	10
298	Colorectal cancer cell-derived exosomes promote proliferation and decrease apoptosis by activating the ERK pathway. 2019 , 12, 2485-2495	6
297	Extracellular vesicles - mediating and delivering cardioprotection in acute myocardial infarction and heart failure. 2020 , 3, 227-238	0
296	Pro-angiogenic approach for skeletal muscle regeneration. 2021 , 1866, 130059	1
295	Special delEVery: Extracellular Vesicles as Promising Delivery Platform to the Brain. 2021 , 9,	5

294	Molecular Mediators of RNA Loading into Extracellular Vesicles.. 2021 , 10,	7
293	The Roles of Exosomes in Immunoregulation and Autoimmune Thyroid Diseases. 2021 , 12, 757674	3
292	Gastrointestinal cancer drug resistance: the role of exosomal miRNAs. 2021 , 49, 2421	0
291	Extracellular Vesicles Physiological Role and the Particular Case of Disease-Spreading Mechanisms in Polyglutamine Diseases. 2021 , 22,	
290	Proteomic Analysis of Mesenchymal Stromal Cell-Derived Extracellular Vesicles and Reconstructed Membrane Particles. 2021 , 22,	1
289	Novel Platform for Regulation of Extracellular Vesicles and Metabolites Secretion from Cells Using a Multi-Linkable Horizontal Co-Culture Plate. 2021 , 12,	1
288	Application of Stem Cell-Derived Extracellular Vesicles as an Innovative Theranostics in Microbial Diseases.. 2021 , 12, 785856	1
287	Extracellular vesicles derived from hypoxia-preconditioned olfactory mucosa mesenchymal stem cells enhance angiogenesis via miR-612. 2021 , 19, 380	8
286	A Lipidomic Approach to Identify Potential Biomarkers in Exosomes From Melanoma Cells With Different Metastatic Potential. 2021 , 12, 748895	1
285	Role and Function of T Cell-Derived Exosomes and Their Therapeutic Value. 2021 , 2021, 8481013	1
284	Extracellular vesicles in pharmacology: Novel approaches in diagnostics and therapy. 2021 , 175, 105980	1
283	Small Extracellular Vesicles and COVID19-Using the "Trojan Horse" to Tackle the Giant.. 2021 , 10,	2
282	Extracellular Vesicles and Glycosylation. 2021 , 1325, 137-149	0
281	Fungal Extracellular Vesicles in Interkingdom Communication.. 2021 , 432, 81-88	1
280	Exosome: A novel neurotransmission modulator or non-canonical neurotransmitter?. 2022 , 74, 101558	4
279	Exosomes are secreted at similar densities by M21 and PC3 human cancer cells and show paclitaxel solubility.. 2021 , 183841	
278	Cryptic erythrocytic infections in Plasmodium vivax, another challenge to its elimination.. 2021 , 87, 102527	0
277	The Role of Small Extracellular Vesicles in the Progression of Colorectal Cancer and Its Clinical Applications.. 2022 , 23,	0

276	Emerging Advances of Detection Strategies for Tumor-Derived Exosomes.. 2022 , 23,	2
275	Recent Advances in Device Engineering and Computational Analysis for Characterization of Cell-Released Cancer Biomarkers.. 2022 , 14,	1
274	Evaluation of exosomal non-coding RNAs in cancer using high-throughput sequencing.. 2022 , 20, 30	4
273	Tumor-Derived Exosomes in Tumor-Induced Immune Suppression.. 2022 , 23,	2
272	Review on Strategies and Technologies for Exosome Isolation and Purification.. 2021 , 9, 811971	21
271	Antigen Discovery in Circulating Extracellular Vesicles From Patients.. 2021 , 11, 811390	0
270	Recent advances in exosome analysis assisted by functional nucleic acid-based signal amplification technologies. 2022 , 149, 116549	0
269	Exosomal microRNAs: potential targets for the prevention and treatment of diabetic cardiomyopathy.. 2022 ,	1
268	Pioneer Role of Extracellular Vesicles as Modulators of Cancer Initiation in Progression, Drug Therapy, and Vaccine Prospects.. 2022 , 11,	3
267	Extracellular Vesicles Derived From Stem Cells in Intervertebral Disc Degeneration.. 2021 , 9, 793363	0
266	Extracellular Vesicle Delivery of Neferine for the Attenuation of Neurodegenerative Disease Proteins and Motor Deficit in an Alzheimer's Disease Mouse Model.. 2022 , 15,	1
265	Therapeutic potential of induced pluripotent stem cell-derived extracellular vesicles. 2022 , 393-449	
264	Future Perspectives of Exosomal Payload of miRNAs in Lung Cancer. 2022 , 1-22	
263	In focus in HCB.. 2022 , 157, 123-126	
262	Extracellular Vesicles in Transplantation.. 2022 , 13, 800018	1
261	Advances in Mesenchymal Stem Cell-Derived Exosomes as Drug Delivery Vehicles.. 2021 , 9, 797359	4
260	Harnessing the Therapeutic Potential of Extracellular Vesicles for Biomedical Applications Using Multifunctional Magnetic Nanomaterials.. 2022 , e2104783	5
259	Exosomes Immunity Strategy: A Novel Approach for Ameliorating Intervertebral Disc Degeneration.. 2021 , 9, 822149	0

- 258 A brief history of nearly EV-erything - The rise and rise of extracellular vesicles.. **2021**, 10, e12144 18
- 257 [Research advances on the role of exosomes in chemotherapy resistance of ovarian cancer]. **2019**, 48, 116-120 1
- 256 Role of exosomes in hepatocellular carcinoma progression and metastasis. **2022**, 243-255
- 255 Role of Exosomes Derived from Human Umbilical Cord Mesenchymal Stem Cells in Skin Aging. **2022**, 12, 3457-3462
- 254 Early Prediction of Preeclampsia: Serum and Exosomal Biomarkers.
- 253 Exosomes for diabetes syndrome: ongoing applications and perspective.. **2022**,
- 252 Profiling skeletal muscle-derived secretome with differentiation and acute contractile activity.
- 251 Approaches to incorporate extracellular vesicles into exposure science, toxicology, and public health research.. **2022**, 0
- 250 Exosomes in the Pathogenesis, Progression, and Treatment of Osteoarthritis.. **2022**, 9, 2
- 249 Exosomes as Carriers for Drug Delivery in Cancer Therapy.. **2022**, 1 1
- 248 Myeloid Responses to Extracellular Vesicles in Health and Disease.. **2022**, 13, 818538 0
- 247 Combinatorial Power of cfDNA, CTCs and EVs in Oncology.. **2022**, 12, 1
- 246 Possible Mechanism of Porosome-Mediated Exosome Release.
- 245 Reticulocyte Maturation.. **2022**, 12, 1
- 244 Extracellular vesicles-associated tRNA-derived fragments (tRFs): biogenesis, biological functions, and their role as potential biomarkers in human diseases.. **2022**, 1 3
- 243 Research progress on the role and mechanism of action of exosomes in autoimmune thyroid disease.. **2022**, 1-13 0
- 242 The Role of Extracellular Vesicles in Systemic Lupus Erythematosus.. **2022**, 10, 835566 0
- 241 Exosome-shuttled miR-672-5p from anti-inflammatory microglia repair traumatic spinal cord injury by inhibiting AIM2/ASC/Caspase-1 signaling pathway mediated neuronal pyroptosis.. **2022**, 2

240	Identification and functional characterization of multiple inositol polyphosphate phosphatase1 (Minpp1) isoform-2 in exosomes with potential to modulate tumor microenvironment.. 2022 , 17, e0264451	1
239	Center-periphery structure in research communities. 1-26	1
238	Identifying the Efficacy of Extracellular Vesicles in Osteogenic Differentiation: An EV-Lution in Regenerative Medicine. 2022 , 3,	
237	The microenvironment-a general hypothesis on the homeostatic function of extracellular vesicles.. 2022 , 4, 284-297	
236	Microglia Polarization: A Novel Target of Exosome for Stroke Treatment.. 2022 , 10, 842320	0
235	Exosomes derived from reparative M2-like macrophages prevent bone loss in murine periodontitis models via IL-10 mRNA.. 2022 , 20, 110	3
234	Caspases help to spread the message via extracellular vesicles.. 2022 ,	0
233	Highlighting the potential role of Exosomes as the targeted nano-therapeutic carrier in metastatic breast cancer.. 2022 ,	0
232	Hypoxia Induced Changes of Exosome Cargo and Subsequent Biological Effects.. 2022 , 13, 824188	5
231	Non-Exosomal and Exosome-Derived miRNAs as Promising Biomarkers in Canine Mammary Cancer.. 2022 , 12,	1
230	The characteristics, tumorigenicities and therapeutics of cancer stem cells based on circRNAs.. 2022 , 233, 153822	0
229	Extracellular vesicle-mediated bidirectional communication between heart and other organs.. 2022 , 322, H769-H784	2
228	Cardiac Remodeling and Repair: Recent Approaches, Advancements, and Future Perspective. 2021 , 22,	5
227	The Aquatic Invertebrate Releases Molecular Messages Through Extracellular Vesicles.. 2021 , 9, 788117	0
226	[Extracellular vesicles: How to pass in a few decades from a status of cellular debris, or worse, garbage bags, to that of inter-cellular messengers].. 2021 , 37, 1089-1091	0
225	Strategies for Engineering Exosomes and Their Applications in Drug Delivery.. 2021 , 17, 2271-2297	3
224	Role of Exosomal Non-Coding RNAs in Bone-Related Diseases.. 2021 , 9, 811666	3
223	The Role of Extracellular Vesicles in the Progression of Tumors towards Metastasis.	

222	Circulating extracellular vesicles and rheumatoid arthritis: a proteomic analysis.. 2021 , 79, 1	2
221	Regeneration and Diagnosis of Kidney Disease Using Exosomes. 2021 , 12,	
220	Plant-Derived Extracellular Vesicles as Therapeutic Nanocarriers.. 2021 , 23,	11
219	Identification of Circulating Exosomal miR-101 and miR-125b Panel Act as a Potential Biomarker for Hepatocellular Carcinoma.. 2021 , 2021, 1326463	1
218	Anti-Cancer Role and Therapeutic Potential of Extracellular Vesicles.. 2021 , 13,	1
217	The Role of Exosomes in Cancer Progression.. 2021 , 23,	2
216	Immunological Changes in Pregnancy and Prospects of Therapeutic Pla-Xosomes in Adverse Pregnancy Outcomes.. 2022 , 13, 895254	0
215	Efficacy of Mesenchymal Stem Cells from Human Exfoliated DeciduousTeeth and their Derivatives in Inflammatory Diseases Therapy.. 2022 ,	0
214	Uptake, functionality, and re-release of extracellular vesicle-encapsulated cargo.. 2022 , 39, 110651	4
213	Table_1.docx. 2019 ,	
212	Table1.xlsx. 2018 ,	
211	Table2.xlsx. 2018 ,	
210	Table3.xlsx. 2018 ,	
209	Table4.xlsx. 2018 ,	
208	Data_Sheet_1.XLSX. 2018 ,	
207	Data_Sheet_2.XLSX. 2018 ,	
206	Data_Sheet_3.XLSX. 2018 ,	
205	Data_Sheet_4.XLSX. 2018 ,	

204 Data_Sheet_5.XLSX. **2018,**

203 Image_1.PDF. **2018,**

202 Image_2.PDF. **2018,**

201 Table_1.XLSX. **2020,**

200 Transient increase in the alpha3-isoform of Na,K-ATPase in rat erythroblastic cells. **1998, 30, 811-8**

199 Role of Exosomes and its emerging therapeutic applications in the pathophysiology of Non-Infectious disease.. **2022, 1-53** ○

198 Nanoscale treatment of intervertebral disc denervation: mesenchymal stem cell exosome transplantation.. **2022,**

197 Exosomal circRNAs: a new communication method in cancer.. **2021, 13, 12913-12928**

196 Role of Exosomes in Tumor Induced Neo-Angiogenesis.

195 New and Emerging Research on Solute Carrier and ATP Binding Cassette Transporters in Drug Discovery and Development: Outlook from the International Transporter Consortium.. **2022,** 1

194 EV (Extracellular Vesicle)-associated miRNAs as Biomarkers of Toxicity. **2022, 37-62**

193 Circular RNAs and Their Role in Exosomes.. **2022, 12, 848341** ○

192 Characterizing Extracellular Vesicles and Particles Derived from Skeletal Muscle Myoblasts and Myotubes and the Effect of Acute Contractile Activity. **2022, 12, 464** 1

191 Exosomes and ferroptosis: roles in tumour regulation and new cancer therapies.. **2022, 10, e13238** ○

190 The emerging landscape of exosomal CircRNAs in solid cancers and hematological malignancies.. **2022, 10, 28** 1

189 Unpacking extracellular vesicles: RNA cargo loading and function. **2022, 1,** 1

188 Conventional and Nonconventional Sources of Exosomes-Isolation Methods and Influence on Their Downstream Biomedical Application.. **2022, 9, 846650** 1

187 Extracellular vesicles: Emerging tools as therapeutic agent carriers. **2022,** 2

186	Effects of BMSC-Derived EVs on Bone Metabolism. 2022 , 14, 1012	2
185	An Emerging Frontier in Intercellular Communication: Extracellular Vesicles in Regeneration. 2022 , 10,	1
184	Role of Acute Myeloid Leukemia (AML)-Derived exosomes in tumor progression and survival.. 2022 , 150, 113009	0
183	Emerging roles of extracellular vesicles in polyglutamine diseases: Mutant protein transmission, therapeutic potential, and diagnostics.. 2022 , 105357	0
182	Exosomes: Insights and therapeutic applications in cancer.. 2022 , 21, 101439	1
181	Extracellular Vesicle-Based Multianalyte Liquid Biopsy as a Diagnostic for Cancer.. 2022 ,	1
180	Update on Exosomes in Aesthetics.. 2022 ,	0
179	Long noncoding RNAs (lncRNAs) in pancreatic cancer progression.. 2022 ,	1
178	Research Progress of Exosomes in Bone Diseases: Mechanism, Diagnosis and Therapy.. 2022 , 10, 866627	0
177	Engineered Extracellular Vesicles as Intelligent Nanosystem for Next-Generation of Nanomedicine.	3
176	Metastatic potential. 2022 , 153-173	
175	Multiple roles of circulating tumor cells and exosomes in cancer metastasis. 2022 , 7-21	
174	Overview and Update on Extracellular Vesicles: Considerations on Exosomes and Their Application in Modern Medicine. 2022 , 11, 804	7
173	Function and therapeutic development of exosomes for cancer therapy.	1
172	Macrophage-Derived Extracellular Vesicles: A Promising Tool for Personalized Cancer Therapy. 2022 , 10, 1252	0
171	Complexities of JC Polyomavirus Receptor-Dependent and -Independent Mechanisms of Infection. 2022 , 14, 1130	1
170	The Role of Exosomes in the Progression and Therapeutic Resistance of Hematological Malignancies. 12,	0
169	Extracellular Vesicles in Mycobacteria and Tuberculosis. 2022 , 12,	0

168	Focusing on Future Applications and Current Challenges of Plant Derived Extracellular Vesicles. 2022 , 15, 708	4
167	Biomedical applications of nanocarriers in brain tumor targeting. 2022 , 205-233	
166	Recent advances in exosome-mediated nucleic acid delivery for cancer therapy. 2022 , 20,	4
165	Extracellular vesicles in cancer therapy. 2022 ,	0
164	Comprehensive insight into endothelial progenitor cell-derived extracellular vesicles as a promising candidate for disease treatment. 2022 , 13,	2
163	Serum and Serum Exosomal CircRNAs hsa_circ_0001492, hsa_circ_0001439, and hsa_circ_0000896 as Diagnostic Biomarkers for Lung Adenocarcinoma. 12,	0
162	Future Perspectives of Exosomal Payload of miRNAs in Lung Cancer. 2022 , 1-22	
161	Skin Involved Nanotechnology. 2022 , 1-35	
160	Construction of Exosomes that Overexpress CD47 and Evaluation of Their Immune Escape. 10,	
159	Role of exosomes in the pathogenesis, diagnosis, and treatment of central nervous system diseases. 2022 , 20,	1
158	Skin Cancer Research Goes Digital: Looking for Biomarkers within the Droplets. 2022 , 12, 1136	1
157	Advancing Key Gaps in the Knowledge of Plasmodium vivax Cryptic Infections Using Humanized Mouse Models and Organs-on-Chips. 12,	
156	Circulating Exosome Cargoes Contain Functionally Diverse Cancer Biomarkers: From Biogenesis and Function to Purification and Potential Translational Utility. 2022 , 14, 3350	1
155	Iron and Alzheimer's Disease: From Pathology to Imaging. 16,	1
154	Extracellular vesicles and lipoproteins Smart messengers of blood cells in the circulation. 2022 , 1,	0
153	Red blood cell production and kinetics. 2022 , 131-142	
152	Horizon of exosome-mediated bone tissue regeneration: The all-rounder role in biomaterial engineering. 2022 , 100355	1
151	Synergies of Extracellular Vesicles and Microchimerism in Promoting Immunotolerance During Pregnancy. 13,	1

150	Research progress in the use of mesenchymal stem cells and their derived exosomes in the treatment of osteoarthritis. 2022 , 80, 101684	2
149	Application and prospect of exosomes combined with Chinese herbal medicine in orthopedics. 2022 , 100589	
148	Exosome- and extracellular vesicle-based approaches for the treatment of lysosomal storage disorders. 2022 , 114465	0
147	Targeted Therapy of Lung Adenocarcinoma by the Nanoplatform Based on Milk Exosomes Loaded with Paclitaxel. 2022 , 18, 1075-1083	1
146	Molecular mechanisms and clinical applications of exosomes in prostate cancer. 2022 , 10,	2
145	Probable role of exosomes in the extension of fibrotic alterations from affected to normal cells in systemic sclerosis.	0
144	The history of small extracellular vesicles and their implication in cancer drug resistance. 12,	0
143	Extracellular vesicles and Alzheimer's disease in the novel era of Precision Medicine: Implications for disease progression, diagnosis and treatment. 2022 , 114183	0
142	Tumour Derived Extracellular Vesicles: Challenging Target to Blunt Tumour Immune Evasion. 2022 , 14, 4020	1
141	Detailed Characterization of Small Extracellular Vesicles from Different Cell Types Based on Tetraspanin Composition by ExoView R100 Platform. 2022 , 23, 8544	0
140	Stem cell-derived exosomal transcriptomes for wound healing. 9,	
139	Exosomes in the visual system: New avenues in ocular diseases. 2022 , 44, 129-152	1
138	Exosomes: Biogenesis, targeting, characterization and their potential as "Plug & Play" vaccine platforms. 2100646	0
137	m6A Regulator-Based Exosomal Gene Methylation Modification Patterns Identify Distinct Microenvironment Characterization and Predict Immunotherapeutic Responses in Colon Cancer. 2022 , 2022, 1-25	
136	Advances in the use of exosomes for the treatment of ALI/ARDS. 13,	2
135	Phenotypic characteristics of peripheral immune cells of Myalgic encephalomyelitis/chronic fatigue syndrome via transmission electron microscopy: A pilot study. 2022 , 17, e0272703	1
134	Activation of Inflammation by MCF-7 Cells-Derived Small Extracellular Vesicles (sEV): Comparison of Three Different Isolation Methods of sEV.	0
133	Exosomal circular RNAs: Biogenesis, effect, and application in cardiovascular diseases. 10,	2

132	Plant hairy roots for the production of extracellular vesicles with antitumor bioactivity. 2022 , 5,	0
131	A shared, stochastic pathway mediates exosome protein budding along plasma and endosome membranes. 2022 , 102394	1
130	Engineered extracellular vesicles and their mimetics for cancer immunotherapy. 2022 , 349, 679-698	4
129	Urinary Exosomes: A Promising Biomarker for Disease Diagnosis.	0
128	The Role of Exosomes in Health and Disease. 2022 , 23, 11011	1
127	Plant-derived extracellular vesicles as oral drug delivery carriers. 2022 , 350, 389-400	0
126	Contributions and therapeutic potential of tumor-derived microRNAs containing exosomes to cancer progression. 2022 , 29, 101672	0
125	Skin Involved Nanotechnology. 2022 , 1-35	0
124	Systemic Regulation of Metastatic Disease by Extracellular Vesicles and Particles. 2022 , 9-39	0
123	ESCRTing Around the Cell. 2022 ,	0
122	Research Development on Exosome Separation Technology.	1
121	Exosomal Micro-RNAs as Intercellular Communicators in Idiopathic Pulmonary Fibrosis. 2022 , 23, 11047	1
120	Strategies to Convert Cells into Hyaline Cartilage: Magic Spells for Adult Stem Cells. 2022 , 23, 11169	0
119	Roles of Exosomes in Chronic Rhinosinusitis: A Systematic Review. 2022 , 23, 11284	0
118	Exosomes in the field of reproduction: A scientometric study and visualization analysis. 13,	0
117	Multiple roles of neuronal extracellular vesicles in neurological disorders. 16,	0
116	Small extracellular vesicles: from promoting pre-metastatic niche formation to therapeutic strategies in breast cancer. 2022 , 20,	2
115	Extracellular vesicles and particles impact the systemic landscape of cancer. 2022 , 41,	2

- 114 Insights into CD24 and Exosome Physiology and Potential Role in View of Recent Advances in COVID-19 Therapeutics: A Narrative Review. **2022**, 12, 1472 0
- 113 Molecular actions of exosomes and their theragnostics in colorectal cancer: current findings and limitations. 0
- 112 Plant extracellular vesicles: A novel bioactive nanoparticle for tumor therapy. 13, 1
- 111 Extracellular vesicle miRNAs promote the intestinal microenvironment by interacting with microbes in colitis. **2022**, 14, 0
- 110 The roles of small extracellular vesicles as prognostic biomarkers and treatment approaches in triple-negative breast cancer. 12, 0
- 109 Is there a potential of circulating miRNAs as biomarkers in rheumatic diseases?. **2022**, 0
- 108 Choroid plexus-derived extracellular vesicles exhibit brain targeting characteristics. **2022**, 121830 0
- 107 Proteomics of Extracellular Vesicle in Glioblastoma. **2022**, 10, 207 0
- 106 Cancer-associated Fibroblasts Communicate with Breast Tumor Cells Through Extracellular Vesicles in Tumor Development. **2022**, 21, 153303382211316 0
- 105 Overview of Neuroglia Activation, Chronic Neuroinflammation, Remodeling, and Impaired Cognition Due to Perivascular Adipose Tissue-Derived Extracellular Vesicle Exosomes in Obesity and Diabetes. **2022**, 3, 112-138 1
- 104 The dark side of foetal bovine serum in extracellular vesicle studies. **2022**, 11, 12271 0
- 103 Erythrocyte tropism of malarial parasites: The reticulocyte appeal. 13, 0
- 102 Strategies to overcome the main challenges of the use of exosomes as drug carrier for cancer therapy. **2022**, 22, 1
- 101 Extracellular Vesicles in Veterinary Medicine. **2022**, 12, 2716 0
- 100 Stem cell-derived exosomes in bone healing: focusing on their role in angiogenesis. **2022**, 0
- 99 Exosomes as New Generation Vehicles for Drug Delivery: Biomedical Applications and Future Perspectives. **2022**, 27, 7289 1
- 98 Advances of engineered extracellular vesicles-based therapeutics strategy. **2022**, 23, 655-681 0
- 97 The role of small extracellular vesicle non-coding RNAs in kidney diseases. 13, 0

96	LC3-dependent EV loading and secretion (LDELS) promotes TFRC (transferrin receptor) secretion via extracellular vesicles. 1-11	0
95	Long non-coding RNA/epithelial-mesenchymal transition axis in human cancers: Tumorigenesis, chemoresistance, and radioresistance. 2022 , 106535	1
94	Future Perspectives of Exosomal Payload of miRNAs in Lung Cancer. 2022 , 1367-1388	0
93	Exosomes-Nature's Lipid Nanoparticles, a Rising Star in Drug Delivery and Diagnostics.	3
92	From Promise to Reality: Bioengineering Strategies to Enhance the Therapeutic Potential of Extracellular Vesicles. 2022 , 9, 675	0
91	Exosomal ncRNAs: The pivotal players in diabetic wound healing. 13,	0
90	Exosomal noncoding RNAs in central nervous system diseases: biological functions and potential clinical applications. 15,	0
89	Effects and Mechanisms of Exosomes from Different Sources in Cerebral Ischemia. 2022 , 11, 3623	0
88	Extracellular Vesicle Isolation and Characterization for Applications in Cartilage Tissue Engineering and Osteoarthritis Therapy. 2023 , 123-140	0
87	Microfluidics facilitating the use of small extracellular vesicles in innovative approaches to male infertility.	1
86	Comprehensive Method for Exosome Isolation and Proteome Analysis for Detection of CCN Factors in/on Exosomes. 2023 , 59-76	1
85	Allograft Tissues. 2022 , 89-101	0
84	Analysis of Nanomedicine Efficacy for Osteoarthritis. 2200085	0
83	Extracellular Vesicles and Vascular Activity. 2022 , 287-312	0
82	Therapeutic and diagnostic potential of extracellular vesicles in amyotrophic lateral sclerosis. 2023 , 2, 100019	0
81	Progress in the Mechanism of the Protective Effect of Exosomes on Ischemic Stroke. 2022 , 12, 10591-10597	0
80	Advances in exosome analysis. 2022 ,	0
79	Extracellular Vesicles from Animal Milk: Great Potentialities and Critical Issues. 2022 , 12, 3231	0

78	Exploring the role of exosomes in rheumatoid arthritis.	0
77	miRNA Biogenesis and Regulation of Diseases: An Updated Overview. 2023 , 1-12	2
76	Extracellular signals regulate the biogenesis of extracellular vesicles. 2022 , 55,	1
75	Tumor-Derived Small Extracellular Vesicles Involved in Breast Cancer Progression and Drug Resistance. 2022 , 23, 15236	0
74	Potential Role of Tumor-Derived Exosomes in Non-Small-Cell Lung Cancer in the Era of Immunotherapy. 2022 , 12, 2104	1
73	Extracellular vesicles, from the pathogenesis to the therapy of neurodegenerative diseases. 2022 , 11,	1
72	Extracellular vesicle characteristics and microRNA content in cerebral palsy and typically developed individuals at rest and in response to aerobic exercise. 13,	0
71	Exosomes as biomarkers and therapeutic delivery for autoimmune diseases: Opportunities and challenges. 2022 , 103260	0
70	Machine intelligence-driven classification of cancer patients-derived extracellular vesicles using fluorescence correlation spectroscopy: results from a pilot study.	0
69	Liquid biopsy leads to a paradigm shift in the treatment of pancreatic cancer. 28, 6478-6496	1
68	The Therapeutic Potential and Clinical Significance of Exosomes as Carriers of Drug Delivery System. 2023 , 15, 21	0
67	Prolonged Exposure to Simulated Microgravity Changes Release of Small Extracellular Vesicle in Breast Cancer Cells. 2022 , 23, 16095	1
66	Mesenchymal stem cell-derived exosomes: The dawn of diabetic wound healing. 13, 1066-1095	1
65	Analysis and Biomedical Applications of Functional Cargo in Extracellular Vesicles.	0
64	Evaluation of EV Storage Buffer for Efficient Preservation of Engineered Extracellular Vesicles.	0
63	Research progress of exosomes as drug carriers in cancer and inflammation. 1-39	0
62	Extracellular vesicles and melanoma: New perspectives on tumor microenvironment and metastasis. 10,	0
61	Exosome based multivalent vaccine: achieving potent immunization, broaden reactivity and T cell response with nanograms of proteins without any adjuvant.	0

- 60 Liposomes or Extracellular Vesicles: A Comprehensive Comparison of Both Lipid Bilayer Vesicles for Pulmonary Drug Delivery. **2023**, 15, 318 ○
- 59 Microfluidics-based molecular profiling of tumor-derived exosomes for liquid biopsy. 20220048 ○
- 58 Current Advances in Technologies for Single Extracellular Vesicle Analysis and Its Clinical Applications in Cancer Diagnosis. **2023**, 13, 129 ○
- 57 Skin Involved Nanotechnology. **2023**, 719-753 ○
- 56 Extracellular Vesicles Are Important Mediators That Regulate Tumor Lymph Node Metastasis via the Immune System. **2023**, 24, 1362 ○
- 55 Extracellular Vesicles and Particles Modulate Proton Secretion in a Model of Human Parietal Cells. **2023**, 8, 2213-2226 ○
- 54 Exosome-mediated regulatory mechanisms in skeletal muscle: a narrative review. **2023**, 24, 1-14 ○
- 53 Exosomal lncRNAs in gastrointestinal cancer. **2023**, 540, 117216 ○
- 52 Current State of Immunotherapy and Mechanisms of Immune Evasion in Ewing Sarcoma and Osteosarcoma. **2023**, 15, 272 2
- 51 Role of Extracellular Vesicles in Cancer Pathogenesis. **2023**, 1-29 ○
- 50 Application of Exosomes in Medical Field. **2023**, 13, 1341-1345 ○
- 49 Effects of Exosomes on Tumor Bioregulation and Diagnosis. ○
- 48 Exosomes: The Role in Tumor Tolerance and the Potential Strategy for Tumor Therapy. **2023**, 15, 462 ○
- 47 Milk exosomes: an oral drug delivery system with great application potential. **2023**, 14, 1320-1337 ○
- 46 Stem cells, organoids, and cellular therapy. **2023**, 233-263 ○
- 45 Which technology performs better? From sample volume to extraction and molecular profiling. **2023**, 119-202 ○
- 44 Exosome-Associated Gene Signature for Predicting the Prognosis of Ovarian Cancer Patients. **2023**, 2023, 1-17 ○
- 43 Research progress of exosomes in pathogenesis, diagnosis, and treatment of ocular diseases. 11, ○

- 42 Exosomal proteins in cancer: Roles in cancer progression and biomarker potential. **2023**, 23, 31-38 ○
- 41 Heterogeneity of Extracellular Vesicles and Particles: Molecular Voxels in the Blood Borne Biogram of Organ Function, Dysfunction and Cancer. **2023**, 71, ○
- 40 Exosomes and ultrasound: The future of theranostic applications. **2023**, 19, 100556 2
- 39 Blood-Based Cancer Screening/Early Cancer Detection. **2023**, 1-31 ○
- 38 Therapeutic potentials of stem cell derived exosomes in cardiovascular diseases. 153537022311519 ○
- 37 Extracellular vesicles mediate biological information delivery: A double-edged sword in cardiac remodeling after myocardial infarction. 14, ○
- 36 Cellular communication through extracellular vesicles and lipid droplets. **2023**, 2, ○
- 35 Extracellular vesicles: A dive into their role in the tumor microenvironment and cancer progression. 11, ○
- 34 Isolation and In Vitro Stability Studies of Edible Plant-Seed Derived (Raphani Semen) Nanoparticles. **2023**, 10, 218 ○
- 33 The Role of Exosomes in Epithelial to-Mesenchymal Transition and Cell Functional Properties in Head and Neck Cancer. **2023**, 15, 2156 ○
- 32 Challenges and strategies: Scalable and efficient production of mesenchymal stem cells-derived exosomes for cell-free therapy. **2023**, 319, 121524 ○
- 31 Extracellular vesicles in vaccine development and therapeutic approaches for viral diseases. **2023**, 128, 167-180 ○
- 30 Extracellular vesicles as reconfigurable therapeutics for eye diseases: Promises and hurdles. **2023**, 225, 102437 ○
- 29 Endothelial plasticity across PTEN and Hippo pathways: A complex hormetic rheostat modulated by extracellular vesicles. **2023**, 31, 101633 ○
- 28 Bioinspired oral delivery devices. **2023**, 1, 208-225 ○
- 27 Interactions between extracellular vesicles and microbiome in human diseases: New therapeutic opportunities. ○
- 26 Manufacture of extracellular vesicles derived from mesenchymal stromal cells. **2023**, ○
- 25 Shining the light on mesenchymal stem cell-derived exosomes in breast cancer. **2023**, 14, ○

- 24 Exosomes as a Source of Biomarkers for Gastrointestinal Cancers. **2023**, 15, 1263 ○
- 23 Emerging role of mesenchymal stem/stromal cells (MSCs) and MSCs-derived exosomes in bone- and joint-associated musculoskeletal disorders: a new frontier. **2023**, 28, ○
- 22 Current status and prospects for pancreatic cancer diagnosis by exosome-based liquid biopsy. **2023**, 38, 19-27 ○
- 21 Role of Extracellular Vesicles Produced by Stem Cells in Tissue Repair. **2023**, 24, 4798 ○
- 20 Heat inactivation of foetal bovine serum causes protein contamination of extracellular vesicles. ○
- 19 Engineered exosomes from different sources for cancer-targeted therapy. **2023**, 8, ○
- 18 A comprehensive overview of exosome lncRNAs: Emerging biomarkers and potential therapeutics in gynecological cancers. 13, ○
- 17 Exosomes in COVID-19 infection: Focus on role in diagnosis, pathogenesis, immunity, and clinical trials. ○
- 16 Extracellular vesicles are dynamic regulators of maternal glucose homeostasis during pregnancy. **2023**, 13, ○
- 15 Exosomes in liver fibrosis: The role of modulating hepatic stellate cells and immune cells, and prospects for clinical applications. 14, ○
- 14 Nanograms of SARS-CoV-2 Spike Protein Delivered by Exosomes Induce Potent Neutralization of Both Delta and Omicron Variants. ○
- 13 A review of the potential of induced pluripotent stem cell-derived exosome as a novel treatment for male infertility. 1-26 ○
- 12 High-Performance Detection of Exosomes Based on Synergistic Amplification of Amino-Functionalized Fe₃O₄ Nanoparticles and Two-Dimensional MXene Nanosheets. **2023**, 23, 3508 ○
- 11 Exosome and virus infection. 14, ○
- 10 Liquid biopsy on the horizon in immunotherapy of non-small cell lung cancer: current status, challenges, and perspectives. **2023**, 14, ○
- 9 Small extracellular vesicles in breast cancer brain metastasis and the prospect of clinical application. 11, ○
- 8 Exosomes. **2023**, 705-719 ○
- 7 The role of extracellular vesicles in periodontitis: pathogenesis, diagnosis, and therapy. 14, ○

- 6 Exosomes derived from human umbilical cord mesenchymal stem cells alleviate Parkinson's disease and neuronal damage through inhibition of microglia. **2023**, 18, 2291 ○
- 5 Diagnostic and therapeutic value of EVs in Lung Diseases and Inflammation. ○
- 4 Heterogeneity of cancer-associated fibroblasts in head and neck squamous cell carcinoma: opportunities and challenges. **2023**, 9, ○
- 3 Engineering Extracellular Vesicles as Delivery Systems in Therapeutic Applications. ○
- 2 Extracellular Vesicle-Based Nanodrug Delivery. **2023**, 667-688 ○
- 1 Optical microscopic and spectroscopic detection of exosomes. **2023**, 117077 ○