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Exosome secreted by MSC reduces myocardial ischemia/reperfusion injury

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1677	Mesenchymal stem cells as therapeutics and vehicles for gene and drug delivery. 2010 , 62, 1156-66		161
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1675	Circulating microRNAs as biomarkers and potential paracrine mediators of cardiovascular disease. 2010 , 3, 484-8		221
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1673	Human embryonic stem cell-derived mesenchymal stem cells as cellular delivery vehicles for prodrug gene therapy of glioblastoma. 2011 , 22, 1365-77		53
1672	Exosomes and the kidney: prospects for diagnosis and therapy of renal diseases. 2011 , 80, 1138-45		152
1671	Mesenchymal stem cell exosome: a novel stem cell-based therapy for cardiovascular disease. 2011 , 6, 481-92		401
1670	The best bone marrow stromal cell for therapy is 'yellow'. 2011 , 13, 644-6		
1669	Cardiac cell therapy: lessons from clinical trials. 2011 , 50, 258-65		136
1668	Embryonic Stem Cells for Therapies [Challenges and Possibilities. 2011 ,		1
1667	Exosomes: secreted vesicles and intercellular communications. 2011 , 3, 15		620
1666	Exosome secretion: molecular mechanisms and roles in immune responses. 2011 , 12, 1659-68		713
1665	Effect of epithelial stem cell transplantation on noise-induced hearing loss in adult mice. 2011 , 41, 552-9		18
1664	Human mesenchymal stem cell-conditioned medium improves cardiac function following myocardial infarction. <i>Stem Cell Research</i> , 2011 , 6, 206-14	1.6	315
1663	Morphologic and proteomic characterization of exosomes released by cultured extravillous trophoblast cells. 2011 , 317, 1192-202		117
1662	Intranasal exosomes for treatment of neuroinflammation? Prospects and limitations. 2011 , 19, 1754-6		12
1661	Exosomes: immune properties and potential clinical implementations. 2011 , 33, 419-40		374

1660	Cellular and extracellular programming of cell fate through engineered intracrine-, paracrine-, and endocrine-like mechanisms. 2011 , 32, 3053-61	51
1659	Characterisation of exosomes derived from human cells by nanoparticle tracking analysis and scanning electron microscopy. 2011 , 87, 146-50	518
1658	Sensing the cardiac environment: exploiting cues for regeneration. 2011 , 4, 616-30	12
1657	Enabling a robust scalable manufacturing process for therapeutic exosomes through oncogenic immortalization of human ESC-derived MSCs. 2011 , 9, 47	243
1656	Concise review: Dissecting a discrepancy in the literature: do mesenchymal stem cells support or suppress tumor growth?. 2011 , 29, 11-9	399
1655	Functional effects of adult human olfactory stem cells on early-onset sensorineural hearing loss. 2011 , 29, 670-7	45
1654	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
1653	Mesenchymal stem cells for cardiac cell therapy. 2011 , 22, 3-17	104
1652	Exosomes and the blood-brain barrier: implications for neurological diseases. 2011 , 2, 1095-9	80
1651	MicroRNAs in cardiovascular disease. 2011 , 3, 10	11
1650	Blunting half of the double-edged sword: potential use of interleukin-10 to protect bone marrow-derived cells after myocardial infarction. 2011 , 109, 1196-8	1
1649	Ultrastructural evidence of exosome secretion by progenitor cells in adult mouse myocardium and adult human cardiospheres. 2012 , 2012, 354605	54
1648	Mesenchymal stem cell secreted vesicles provide novel opportunities in (stem) cell-free therapy. 2012 , 3, 359	343
1647	Extracellular membrane vesicles and immune regulation in the brain. 2012 , 3, 117	39
1646	Regenerative therapies in neonatology: clinical perspectives. 2012 , 224, 233-40	17
1645	Dissecting paracrine effectors for mesenchymal stem cells. 2013 , 129, 137-52	16
1644	Early growth response genes signaling supports strong paracrine capability of mesenchymal stem cells. 2012 , 2012, 428403	19
1643	Proteolytic Potential of the MSC Exosome Proteome: Implications for an Exosome-Mediated Delivery of Therapeutic Proteasome. 2012 , 2012, 971907	310

1642	Exosomes and the emerging field of exosome-based gene therapy. 2012 , 12, 262-74	136
1641	Exosomes mediate the cytoprotective action of mesenchymal stromal cells on hypoxia-induced pulmonary hypertension. 2012 , 126, 2601-11	574
1640	Ischemia postconditioning and mesenchymal stem cells engraftment synergistically attenuate ischemia reperfusion-induced lung injury in rats. 2012 , 178, 81-91	35
1639	The innate immune response in reperfused myocardium. 2012 , 94, 276-83	179
1638	Intercellular cytosolic transfer correlates with mesenchymal stromal cell rescue of umbilical cord blood cell viability during ex vivo expansion. 2012 , 14, 1064-79	11
1637	Therapeutic potential for mesenchymal stem cell transplantation in critical limb ischemia. 2012 , 3, 28	111
1636	Exosomes and microvesicles: extracellular vesicles for genetic information transfer and gene therapy. 2012 , 21, R125-34	632
1635	The effect of diabetes and poor left ventricular function on bone marrow cell-induced myocardial protection. 2012 , 174, e1-e10	
1634	Microvesicles derived from mesenchymal stem cells: potent organelles for induction of tolerogenic signaling. 2012 , 147, 47-54	204
1633	Exosomes: current knowledge of their composition, biological functions, and diagnostic and therapeutic potentials. 2012 , 1820, 940-8	1295
1632	Exosomes: small vesicles participating in intercellular communication. 2012 , 44, 11-5	322
1631	Exosomes derived from human bone marrow mesenchymal stem cells promote tumor growth in vivo. 2012 , 315, 28-37	323
1630	Exosomes: new players in cell-cell communication. 2012 , 44, 2060-4	315
1629	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
1628	What's new in regenerative medicine: split up of the mesenchymal stem cell family promises new hope for cardiovascular repair. 2012 , 5, 689-99	15
1627	Human cardiomyocyte progenitor cells: a short history of nearly everything. 2012 , 16, 1669-73	7
1626	Metabolic adaptation to a disruption in oxygen supply during myocardial ischemia and reperfusion is underpinned by temporal and quantitative changes in the cardiac proteome. 2012 , 11, 2331-46	42
1625	Sarcomas as a mise en abyme of mesenchymal stem cells: exploiting interrelationships for cell mediated anticancer therapy. 2012 , 325, 1-10	6

1624	Proteomic analysis of microvesicles derived from human mesenchymal stem cells. 2012 , 11, 839-49	295
1623	Stem Cells and Cancer Stem Cells, Volume 6. 2012 ,	2
1622	MSC and Tumors: Homing, Differentiation, and Secretion Influence Therapeutic Potential. 2013 , 130, 209-66	36
1621	Hsp20 functions as a novel cardiokine in promoting angiogenesis via activation of VEGFR2. 2012 , 7, e32765	80
1620	Bi-directional exchange of membrane components occurs during co-culture of mesenchymal stem cells and nucleus pulposus cells. 2012 , 7, e33739	59
1619	Human embryonic mesenchymal stem cell-derived conditioned medium rescues kidney function in rats with established chronic kidney disease. 2012 , 7, e38746	151
1618	Stem Cell-Derived Microvesicles: A Cell Free Therapy Approach to the Regenerative Medicine. 2012 , 1, 11-22	2
1617	The Role of Mesenchymal Stem Cells in the Tumor Microenvironment. 2012 ,	
1616	The Biology and Regenerative Potential of Stem Cells and Their Mesenchymal Progeny. 2012 , 143-160	
1615	Secreted factors of human liver-derived mesenchymal stem cells promote liver regeneration early after partial hepatectomy. 2012 , 21, 2410-9	79
1614	Tumor cell-derived exosomes: a message in a bottle. 2012 , 1826, 103-11	179
1613	Classification, functions, and clinical relevance of extracellular vesicles. 2012 , 64, 676-705	1123
1612	Comprehensive transcriptome and immunophenotype analysis of renal and cardiac MSC-like populations supports strong congruence with bone marrow MSC despite maintenance of distinct identities. <i>Stem Cell Research</i> , 2012 , 8, 58-73	1.6 99
1611	Pretreating mesenchymal stem cells with interleukin-1 and transforming growth factor-β synergistically increases vascular endothelial growth factor production and improves mesenchymal stem cell-mediated myocardial protection after acute ischemia. 2012 , 151, 353-63	38
1610	Mesenchymal stem cell therapy for heart disease. 2012 , 57, 48-55	117
1609	Optimization of the cardiovascular therapeutic properties of mesenchymal stromal/stem cells-taking the next step. 2013 , 9, 281-302	26
1608	Exosomes released by human umbilical cord mesenchymal stem cells protect against cisplatin-induced renal oxidative stress and apoptosis in vivo and in vitro. 2013 , 4, 34	430
1607	Mesenchymal stem cell-derived secretome and microvesicles as a cell-free therapeutics for neurodegenerative disorders. 2013 , 10, 93-101	74

1606	Exosomes from human adipose-derived mesenchymal stem cells promote migration through Wnt signaling pathway in a breast cancer cell model. 2013 , 383, 13-20	186
1605	Mesenchymal Stem Cells - Basics and Clinical Application I. 2013 ,	
1604	Unveiling the effects of the secretome of mesenchymal progenitors from the umbilical cord in different neuronal cell populations. 2013 , 95, 2297-303	36
1603	Mesenchymal stem cell therapy in skin: why and what for?. 2013 , 22, 307-10	36
1602	MiR-133b promotes neural plasticity and functional recovery after treatment of stroke with multipotent mesenchymal stromal cells in rats via transfer of exosome-enriched extracellular particles. 2013 , 31, 2737-46	470
1601	Human adipose tissue-derived mesenchymal stem cells secrete functional neprilysin-bound exosomes. 2013 , 3, 1197	329
1600	Tumor Exosomes and Their Impact on Immunity and Cancer Progression. 2013 , 517-535	
1599	Mesenchymal Stem Cells - Basics and Clinical Application II. 2013 ,	
1598	Synthetic nucleic acids delivered by exosomes: a potential therapeutic for generelated metabolic brain diseases. 2013 , 28, 551-62	22
1597	Plasma extracellular vesicle protein content for diagnosis and prognosis of global cardiovascular disease. 2013 , 21, 467-71	20
1596	Mesenchymal stem cell derived microvesicles: trophic shuttles for enhancement of sperm quality parameters. 2013 , 42, 78-84	24
1595	Exosomes for targeted siRNA delivery across biological barriers. 2013 , 65, 391-7	338
1594	Applying horizontal gene transfer phenomena to enhance non-viral gene therapy. 2013 , 172, 246-257	6
1593	Uncovering the secretes of mesenchymal stem cells. 2013 , 95, 2212-21	131
1592	Tissue engineering and regenerative medicine: past, present, and future. 2013 , 108, 1-33	69
1591	Regenerating the injured kidney with human umbilical cord mesenchymal stem cell-derived exosomes. 2013 , 4, 39	56
1590	Therapeutic effects of mesenchymal stem cells on renal ischemia-reperfusion injury: a matter of genetic transfer?. 2013 , 4, 55	9
1589	Cardiac stem cell therapy to modulate inflammation upon myocardial infarction. 2013 , 1830, 2449-58	72

1588	The potential role of microvesicles in mesenchymal stem cell-based therapy. 2013 , 22, 841-4	17
1587	Exosomes as nano-theranostic delivery platforms for gene therapy. 2013 , 65, 357-67	166
1586	Tissue engineering and regenerative medicine: recent innovations and the transition to translation. 2013 , 19, 1-13	181
1585	Mesenchymal Stem Cell Therapy for Heart Disease. 2013 , 241-270	4
1584	Mesenchymal Stromal Cells in the Clinic: What Do the Clinical Trials Say?. 2013 , 423-433	
1583	Exosomes are endogenous nanoparticles that can deliver biological information between cells. 2013 , 65, 342-7	170
1582	Mesenchymal Stem Cell Therapy. 2013 ,	4
1581	Engraftment patterns of human adult mesenchymal stem cells expose electrotonic and paracrine proarrhythmic mechanisms in myocardial cell cultures. 2013 , 6, 380-91	27
1580	Exosomes as intercellular signaling organelles involved in health and disease: basic science and clinical applications. 2013 , 14, 5338-66	266
1579	Mesenchymal stem cell exosome ameliorates reperfusion injury through proteomic complementation. 2013 , 8, 197-209	90
1578	Exosomes for drug delivery - a novel application for the mesenchymal stem cell. 2013 , 31, 543-51	335
1577	Exosomes derived from human umbilical cord mesenchymal stem cells alleviate liver fibrosis. 2013 , 22, 845-54	554
1576	Mesenchymal stem cells secretome: a new paradigm for central nervous system regeneration?. 2013 , 70, 3871-82	217
1575	Mesenchymal stem cell-derived exosomes increase ATP levels, decrease oxidative stress and activate PI3K/Akt pathway to enhance myocardial viability and prevent adverse remodeling after myocardial ischemia/reperfusion injury. <i>Stem Cell Research</i> , 2013 , 10, 301-12	1.6 748
1574	The therapeutic potential of mesenchymal stem cell-derived extracellular vesicles. 2013 , 13, 1637-53	270
1573	Extracellular vesicles: biology and emerging therapeutic opportunities. 2013 , 12, 347-57	1894
1572	Mesenchymal Stem Cell Exosomes: The Future MSC-Based Therapy?. 2013 , 39-61	25
1571	Role of mesenchymal stem cell-derived microvesicles in tissue repair. 2013 , 28, 2249-54	58

1570	Targeting cell death in the reperfused heart: pharmacological approaches for cardioprotection. 2013 , 165, 410-22	98
1569	The cardiovascular exosome: current perspectives and potential. 2013 , 13, 1654-9	42
1568	How stem cells speak with host immune cells in inflammatory brain diseases. 2013 , 61, 1379-401	96
1567	Measurement of precursor miRNA in exosomes from human ESC-derived mesenchymal stem cells. 2013 , 1024, 69-86	23
1566	The stem cell secretome and its role in brain repair. 2013 , 95, 2271-85	248
1565	Mesenchymal stem cell: an efficient mass producer of exosomes for drug delivery. 2013 , 65, 336-41	478
1564	Ciliated micropillars for the microfluidic-based isolation of nanoscale lipid vesicles. 2013 , 13, 2879-82	224
1563	The role of antioxidation and immunomodulation in postnatal multipotent stem cell-mediated cardiac repair. 2013 , 14, 16258-79	19
1562	Two distinct populations of exosomes are released from LIM1863 colon carcinoma cell-derived organoids. 2013 , 12, 587-98	287
1561	Ischemia-reperfusion injury: beneficial effects of mesenchymal stromal cells. 2013 , 18, 34-43	65
1560	The Regenerative Role of the Fetal and Adult Stem Cell Secretome. 2013 , 2, 302-27	46
1559	Exosomes: the ideal nanovectors for biodelivery. 2013 , 394, 1-15	66
1558	Human cardiospheres as a source of multipotent stem and progenitor cells. 2013 , 2013, 916837	26
1557	Microvascular Obstruction After Primary Percutaneous Coronary Intervention: Pathogenesis, Diagnosis and Prognostic Significance. 2013 , 11, 245-262	1
1556	Exosome: A Novel and Safer Therapeutic Refinement of Mesenchymal Stem Cell. 2013 , 1	23
1555	Extracellular membrane vesicles from umbilical cord blood-derived MSC protect against ischemic acute kidney injury, a feature that is lost after inflammatory conditioning. 2013 , 2,	101
1554	Therapeutic MSC exosomes are derived from lipid raft microdomains in the plasma membrane. 2013 , 2,	117
1553	Perspectives on the Potential Therapeutic Uses of Vesicles. 2013 , 1,	11

1552	Monocyte exosomes stimulate the osteogenic gene expression of mesenchymal stem cells. 2013 , 8, e75227	140
1551	Fibroblasts derived from human pluripotent stem cells activate angiogenic responses in vitro and in vivo. 2013 , 8, e83755	18
1550	Signaling pathways in exosomes biogenesis, secretion and fate. 2013 , 4, 152-70	225
1549	Mesenchymal Stem Cells as Gene Delivery Vehicles. 2013 ,	
1548	17 Mesenchymal stem cells and the tumor microenvironment.	
1547	Exosomes/miRNAs as mediating cell-based therapy of stroke. 2014 , 8, 377	197
1546	Micro/Nano-Engineering of Cells for Delivery of Therapeutics. 2014 , 253-279	1
1545	Neuroprotektion bei Frühgeborenen. 2014 , 47, 856-864	2
1544	Extracellular vesicles: potential roles in regenerative medicine. 2014 , 5, 608	212
1543	Implication of human endogenous retrovirus envelope proteins in placental functions. 2014 , 6, 4609-27	64
1542	Exosomes derived from mesenchymal stem cells. 2014 , 15, 4142-57	415
1541	Immunotherapeutic potential of extracellular vesicles. 2014 , 5, 518	119
1540	Mesenchymal stem cell-derived microparticles: a promising therapeutic strategy. 2014 , 15, 14348-63	24
1539	Exosomes: a potential key target in cardio-renal syndrome. 2014 , 5, 465	33
1538	The promising potential of menstrual stem cells for antenatal diagnosis and cell therapy. 2014 , 5, 205	56
1537	iPSC-derived human mesenchymal stem cells improve myocardial strain of infarcted myocardium. 2014 , 18, 1644-54	35
1536	Potential application of extracellular vesicles of human adipose tissue-derived mesenchymal stem cells in Alzheimer's disease therapeutics. 2015 , 1212, 171-81	33
1535	Evaluation of desialylation effect on zeta potential of extracellular vesicles secreted from human prostate cancer cells by on-chip microcapillary electrophoresis. 2014 , 53, 06JL01	43

1534	Observed changes in the morphology and phenotype of breast cancer cells in direct co-culture with adipose-derived stem cells. 2014 , 134, 414-423	22
1533	Extracellular Vesicles in Heart Disease: Excitement for the Future ?. 2014 , 2,	28
1532	Exosomes and autophagy: coordinated mechanisms for the maintenance of cellular fitness. 2014 , 5, 403	275
1531	Extracellular vesicles as therapeutic tools in cardiovascular diseases. 2014 , 5, 370	86
1530	Creation of a federated database of blood proteins: a powerful new tool for finding and characterizing biomarkers in serum. 2014 , 11, 3	14
1529	The mesenchymal stem cell-derived microvesicles enhance sciatic nerve regeneration in rat: a novel approach in peripheral nerve cell therapy. 2014 , 76, 991-7	41
1528	How close are we to using stem cells in routine cardiac therapy?. 2014 , 30, 1265-9	1
1527	Exosomes: a new weapon to treat the central nervous system. 2014 , 49, 113-9	39
1526	Role of extracellular vesicles in remote ischemic preconditioning: 'good things come in small packages'?. 2014 , 69, 83-4	4
1525	Exosomes: an overview of biogenesis, composition and role in ovarian cancer. 2014 , 7, 14	137
1524	The potential of exosomes in diagnosis and treatment of inborn errors of metabolism. 2014 , 37, 497-504	2
1523	Regulation of immune responses by extracellular vesicles. 2014 , 14, 195-208	1294
1522	Stromal cells-are they really useful for GVHD?. 2014 , 49, 737-43	30
1521	Novel therapeutic strategies for cardioprotection. 2014 , 144, 60-70	57
1520	Concise review: MicroRNA function in multipotent mesenchymal stromal cells. 2014 , 32, 1074-82	107
1519	Microvesicles and exosomes for intracardiac communication. 2014 , 102, 302-11	176
1518	Novel approaches to lupus drug discovery using stem cell therapy. Role of mesenchymal-stem-cell-secreted factors. 2014 , 9, 555-66	13
1517	Regenerative medicine in orthopedics using cells, scaffold, and microRNA. 2014 , 19, 521-8	15

1516	Role of exosomes in myocardial remodeling. 2014 , 114, 315-24	98
1515	Extracellular vesicles derived from human bone marrow mesenchymal stem cells promote angiogenesis in a rat myocardial infarction model. 2014 , 92, 387-97	444
1514	Cell based therapies for ischemic stroke: from basic science to bedside. 2014 , 115, 92-115	145
1513	Interactions of mesenchymal stem cells with endothelial cells. 2014 , 23, 319-32	74
1512	Exosomes: nanoparticles involved in cardioprotection?. 2014 , 114, 325-32	132
1511	MSC-derived exosomes: a novel tool to treat therapy-refractory graft-versus-host disease. 2014 , 28, 970-3	650
1510	Cardioprotection by remote ischemic preconditioning of the rat heart is mediated by extracellular vesicles. 2014 , 68, 75-8	204
1509	Extracellular membrane vesicles as a mechanism of cell-to-cell communication: advantages and disadvantages. 2014 , 306, C621-33	297
1508	Mesenchymal stem cells secrete immunologically active exosomes. 2014 , 23, 1233-44	426
1507	Microvesicles as mediators of tissue regeneration. 2014 , 163, 286-95	60
1506	MSC microvesicles for the treatment of lung disease: a new paradigm for cell-free therapy. 2014 , 21, 1905-15	65
1505	The combination of hyper-CVAD plus nelarabine as frontline therapy in adult T-cell acute lymphoblastic leukemia and T-lymphoblastic lymphoma: MD Anderson Cancer Center experience. 2014 , 28, 973-5	37
1504	Molecular and dimensional profiling of highly purified extracellular vesicles by fluorescence fluctuation spectroscopy. 2014 , 86, 7229-33	31
1503	Stem cell therapy for bone repair: a systematic review and meta-analysis of preclinical studies with large animal models. 2014 , 78, 718-26	32
1502	Adult Stem Cell Therapies: Alternatives to Plasticity. 2014 ,	3
1501	Autologous bone marrow mononuclear cell therapy improves symptoms in patients with end-stage peripheral arterial disease and reduces inflammation-associated parameters. 2014 , 16, 1270-9	14
1500	Extracellular vesicles as drug delivery systems: lessons from the liposome field. 2014 , 195, 72-85	287
1499	Mesenchymal stem cell-derived exosomes promote hepatic regeneration in drug-induced liver injury models. 2014 , 5, 76	346

1498	Atorvastatin treatment improves the effects of mesenchymal stem cell transplantation on acute myocardial infarction: the role of the RhoA/ROCK/ERK pathway. 2014 , 176, 670-9	33
1497	Bone marrow mesenchymal stem cell-derived microvesicles protect rat pheochromocytoma PC12 cells from glutamate-induced injury via a PI3K/Akt dependent pathway. 2014 , 39, 922-31	34
1496	Heart regeneration, stem cells, and cytokines. 2014 , 2, 6	18
1495	A comprehensive overview of exosomes as drug delivery vehicles - endogenous nanocarriers for targeted cancer therapy. 2014 , 1846, 75-87	342
1494	Extracellular vesicles from human cardiac progenitor cells inhibit cardiomyocyte apoptosis and improve cardiac function after myocardial infarction. 2014 , 103, 530-41	482
1493	Exploration on mechanism of a new type of melatonin receptor agonist Neu-p11 in hypoxia-reoxygenation injury of myocardial cells. 2014 , 70, 999-1003	10
1492	miRNA Expression in Mesenchymal Stem Cells. 2014 , 2, 101-107	3
1491	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
1490	Could bioengineered exosome-mimetic nanovesicles be an efficient strategy for the delivery of chemotherapeutics?. 2014 , 9, 177-80	32
1489	Extracellular vesicles: specialized bone messengers. 2014 , 561, 38-45	20
1488	Diabetes, microRNAs and exosomes: Les liaisons dangereuses. 2014 , 74, 196-8	8
1487	The Development of Stem Cell-Derived Exosomes as a Cell-Free Regenerative Medicine. 2014 , 3, 2	46
1486	Extracellular vesicles from a muscle cell line (C2C12) enhance cell survival and neurite outgrowth of a motor neuron cell line (NSC-34). 2014 , 3,	32
1485	Paracrine mechanisms of mesenchymal stem cell-based therapy: current status and perspectives. 2014 , 23, 1045-59	492
1484	Fms-related tyrosine kinase 3 ligand promotes proliferation of placenta amnion and chorion mesenchymal stem cells in vitro. 2014 , 10, 322-8	2
1483	Therapeutisches Potenzial von extrazellulären Vesikeln aus mesenchymalen Stamm- bzw. Stromazellen. 2015 , 5, 131-137	
1482	Telocytes transfer extracellular vesicles loaded with microRNAs to stem cells. 2015 , 19, 351-8	65
1481	Role of exosomes and microvesicles in hypoxia-associated tumour development and cardiovascular disease. 2015 , 278, 251-63	40

1480	Exosomal miR-223 Contributes to Mesenchymal Stem Cell-Elicited Cardioprotection in Polymicrobial Sepsis. 2015 , 5, 13721	191
1479	Biological properties of extracellular vesicles and their physiological functions. 2015 , 4, 27066	2611
1478	Applying extracellular vesicles based therapeutics in clinical trials - an ISEV position paper. 2015 , 4, 30087	722
1477	Neuroprotection in preterm infants. 2015 , 2015, 257139	20
1476	Potential functional applications of extracellular vesicles: a report by the NIH Common Fund Extracellular RNA Communication Consortium. 2015 , 4, 27575	22
1475	Influence of erythropoietin on microvesicles derived from mesenchymal stem cells protecting renal function of chronic kidney disease. 2015 , 6, 100	50
1474	Recent advances in mesenchymal stem cell immunomodulation: the role of microvesicles. 2015 , 24, 133-49	79
1473	Bone Marrow-Derived Mesenchymal Stem Cells and Their Conditioned Medium Attenuate Fibrosis in an Irreversible Model of Unilateral Ureteral Obstruction. 2015 , 24, 2657-66	30
1472	6. Mikrovesikel, Exosomen und andere extrazelluläre Vesikel.	
1471	11. Zelluläre Analyse mesenchymaler Stammund Progenitorzellen.	
1470	Exosome Function in miRNA-Mediated Paracrine Effects. 2015 , 37-62	4
1469	Stem Cell Extracellular Vesicles: A Novel Cell-Based Therapy for Cardiovascular Diseases. 2015 , 93-117	2
1468	Therapeutic Potential of Stem Cell-Derived Extracellular Vesicles in Cardioprotection and Myocardium Repair. 2015 , 119-138	
1467	Exosome-Based Translational Nanomedicine: The Therapeutic Potential for Drug Delivery. 2015 , 161-176	2
1466	Exosomes and Their Role in the Life Cycle and Pathogenesis of RNA Viruses. 2015 , 7, 3204-25	145
1465	Engineered/Hypoxia-Preconditioned MSC-Derived Exosome: Its Potential Therapeutic Applications. 2015 , 139-159	
1464	miRNA therapeutics in cardiovascular diseases: promises and problems. 2015 , 6, 232	71
1463	Exosomes for Bone Diseases. 2015 , 207-221	3

1462	Advanced Strategies for End-Stage Heart Failure: Combining Regenerative Approaches with LVAD, a New Horizon?. 2015 , 2, 10	8
1461	An Overview of the Proteomic and miRNA Cargo in MSC-Derived Exosomes. 2015 , 21-36	6
1460	Exosomes Secreted from CXCR4 Overexpressing Mesenchymal Stem Cells Promote Cardioprotection via Akt Signaling Pathway following Myocardial Infarction. 2015 , 2015, 659890	138
1459	Antibody-Based Assays for Phenotyping of Extracellular Vesicles. 2015 , 2015, 524817	18
1458	A New Paradigm in Cardiac Regeneration: The Mesenchymal Stem Cell Secretome. 2015 , 2015, 765846	90
1457	The Role of Microvesicles Derived from Mesenchymal Stem Cells in Lung Diseases. 2015 , 2015, 985814	37
1456	Exosomes Derived from Human Umbilical Cord Mesenchymal Stem Cells Relieve Acute Myocardial Ischemic Injury. 2015 , 2015, 761643	165
1455	Role and Function of MicroRNAs in Extracellular Vesicles in Cardiovascular Biology. 2015 , 2015, 161393	43
1454	Mesenchymal Stromal Cell-Derived Factors Promote Tissue Repair in a Small-for-Size Ischemic Liver Model but Do Not Protect against Early Effects of Ischemia and Reperfusion Injury. 2015 , 2015, 202975	7
1453	Strategies for isolation of exosomes. 2015 , 2015, 319-23	191
1452	Emerging roles of exosomes in normal and pathological conditions: new insights for diagnosis and therapeutic applications. 2015 , 6, 203	377
1451	Evaluating early and delayed cardioprotection by plasma exosomes in simulated ischaemia/reperfusion injury. 2015 , 8,	1
1450	Human umbilical cord mesenchymal stem cell exosomes enhance angiogenesis through the Wnt4/Eatenin pathway. 2015 , 4, 513-22	251
1449	Conditioned medium from human amniotic mesenchymal stromal cells limits infarct size and enhances angiogenesis. 2015 , 4, 448-58	78
1448	Exosomes as drug delivery vehicles for Parkinson's disease therapy. 2015 , 207, 18-30	889
1447	Exosomes in mesenchymal stem cells, a new therapeutic strategy for cardiovascular diseases?. 2015 , 11, 238-45	96
1446	Exosomes derived from miR-122-modified adipose tissue-derived MSCs increase chemosensitivity of hepatocellular carcinoma. 2015 , 8, 122	380
1445	Extracellular microRNAs in Membrane Vesicles and Non-vesicular Carriers. 2015 , 106, 31-53	6

1444	Circulating microRNAs in Disease Diagnostics and their Potential Biological Relevance. 2015,	7
1443	Mononuclear cell secretome protects from experimental autoimmune myocarditis. 2015, 36, 676-85	34
1442	Roll over Weismann: extracellular vesicles in the transgenerational transmission of environmental effects. 2015, 7, 1165-71	51
1441	Acellular approaches for regenerative medicine: on the verge of clinical trials with extracellular membrane vesicles?. 2015, 6, 227	43
1440	Molecular signatures of mesenchymal stem cell-derived extracellular vesicle-mediated tissue repair. 2015, 6, 212	67
1439	Mesenchymal Stem Cells. 2015, 415-437	
1438	Exosomes and their Therapeutic Applications. 2015, 477-501	4
1437	Mesenchymal Stem Cell-Derived Exosomes Improve the Microenvironment of Infarcted Myocardium Contributing to Angiogenesis and Anti-Inflammation. 2015, 37, 2415-24	315
1436	Exosome and its roles in cardiovascular diseases. 2015, 20, 337-48	31
1435	Exosomes secreted from GATA-4 overexpressing mesenchymal stem cells serve as a reservoir of anti-apoptotic microRNAs for cardioprotection. 2015, 182, 349-60	330
1434	Direct evaluation of myocardial viability and stem cell engraftment demonstrates salvage of the injured myocardium. 2015, 116, e40-50	43
1433	The role of extracellular vesicles in placental vascular complications. 2015, 135 Suppl 1, S23-5	12
1432	EVpedia: a community web portal for extracellular vesicles research. 2015, 31, 933-9	256
1431	Bone marrow-derived mesenchymal stromal cells harness purinergic signaling to tolerize human Th1 cells in vivo. 2015, 33, 1200-12	85
1430	EVpedia: A community web resource for prokaryotic and eukaryotic extracellular vesicles research. 2015, 40, 4-7	72
1429	Spatial and temporal dynamics of the cardiac mitochondrial proteome. 2015, 12, 133-46	9
1428	Mesenchymal stem cell exosomes. 2015, 40, 82-8	306
1427	Mesenchymal stromal cells improve cardiac function and left ventricular remodeling in a heart transplantation model. 2015, 34, 1481-8	17

1426	Using exosomes, naturally-equipped nanocarriers, for drug delivery. 2015 , 219, 396-405	491
1425	Stem Cell Aging: Mechanisms, Consequences, Rejuvenation. 2015 ,	
1424	Therapeutic Potential of Multipotent Mesenchymal Stromal Cells and Their Extracellular Vesicles. 2015 , 26, 506-17	105
1423	Organ-specific migration of mesenchymal stromal cells: Who, when, where and why?. 2015 , 168, 159-69	45
1422	Preface. Stem Cell Renewal and Cell-Cell Communication. 2015 , 1212, v	
1421	Stem Cell Therapy for Myocardial Infarction 2001-2013 Revisited. 2015 , 11, 743-51	10
1420	Exosomes and exosomal miRNAs in cardiovascular protection and repair. 2015 , 71, 24-30	169
1419	Mesenchymal Stem Cell Exosomes Induce Proliferation and Migration of Normal and Chronic Wound Fibroblasts, and Enhance Angiogenesis In Vitro. 2015 , 24, 1635-47	366
1418	Plasma exosomes protect the myocardium from ischemia-reperfusion injury. 2015 , 65, 1525-36	323
1417	Highly-purified exosomes and shed microvesicles isolated from the human colon cancer cell line LIM1863 by sequential centrifugal ultrafiltration are biochemically and functionally distinct. 2015 , 87, 11-25	161
1416	Buyang Huanwu Decoction (BYHWD) Enhances Angiogenic Effect of Mesenchymal Stem Cell by Upregulating VEGF Expression After Focal Cerebral Ischemia. 2015 , 56, 898-906	49
1415	Exosomal microRNA clusters are important for the therapeutic effect of cardiac progenitor cells. 2015 , 116, 219-21	23
1414	Exosomes released from human induced pluripotent stem cells-derived MSCs facilitate cutaneous wound healing by promoting collagen synthesis and angiogenesis. 2015 , 13, 49	373
1413	Transfer of microRNAs by extracellular membrane microvesicles: a nascent crosstalk model in tumor pathogenesis, especially tumor cell-microenvironment interactions. 2015 , 8, 14	28
1412	Extracellular vesicles and atherosclerotic disease. 2015 , 72, 2697-708	54
1411	The mesmiRizing complexity of microRNAs for striated muscle tissue engineering. 2015 , 88, 37-52	20
1410	Platelet-derived growth factor-BB enhances MSC-mediated cardioprotection via suppression of miR-320 expression. 2015 , 308, H980-9	22
1409	MicroRNAs in vascular tissue engineering and post-ischemic neovascularization. 2015 , 88, 78-91	24

1408	Diffuse and persistent blood-spinal cord barrier disruption after contusive spinal cord injury rapidly recovers following intravenous infusion of bone marrow mesenchymal stem cells. 2015 , 267, 152-64	61
1407	The Immunomodulatory and Therapeutic Effects of Mesenchymal Stromal Cells for Acute Lung Injury and Sepsis. 2015 , 230, 2606-17	65
1406	Stem cells in the management of advanced heart failure. 2015 , 30, 179-185	9
1405	Mesenchymal Stem Cell-derived Extracellular Vesicles: Toward Cell-free Therapeutic Applications. 2015 , 23, 812-823	602
1404	Use of mesenchymal stem cells for therapy of cardiac disease. 2015 , 116, 1413-30	284
1403	Response to letter regarding article, "Cross talk of combined gene and cell therapy in ischemic heart disease: role of exosomal microRNA transfer". 2015 , 131, e385	0
1402	Mesenchymal-stem-cell-derived exosomes accelerate skeletal muscle regeneration. 2015 , 589, 1257-65	316
1401	Stem cells for the treatment of heart failure. 2015 , 370, 20140373	6
1400	Effect of Exosomes from Mesenchymal Stem Cells on Angiogenesis. 2015 , 177-205	
1399	Gap junctional shuttling of miRNA--A novel pathway of intercellular gene regulation and its prospects in clinical application. 2015 , 27, 2506-14	36
1398	The Use of Mesenchymal Stem Cells for Treating Neurodegenerative Diseases. 2015 , 3-20	2
1397	Mesenchymal stem cell treatment for hemophilia: a review of current knowledge. 2015 , 13 Suppl 1, S161-6	10
1396	On-chip immunoelectrophoresis of extracellular vesicles released from human breast cancer cells. 2015 , 10, e0123603	54
1395	Mesenchymal stem cells use extracellular vesicles to outsource mitophagy and shuttle microRNAs. 2015 , 6, 8472	490
1394	Human bone marrow- and adipose-mesenchymal stem cells secrete exosomes enriched in distinctive miRNA and tRNA species. 2015 , 6, 127	430
1393	Extracellular Vesicles Improve Post-Stroke Neuroregeneration and Prevent Postischemic Immunosuppression. 2015 , 4, 1131-43	418
1392	In Vivo Effects of Mesenchymal Stromal Cells in Two Patients With Severe Acute Respiratory Distress Syndrome. 2015 , 4, 1199-213	90
1391	Cellular Therapy for Stroke and CNS Injuries. 2015 ,	

1390	Emerging roles for extracellular vesicles in tissue engineering and regenerative medicine. 2015 , 21, 45-54	144
1389	Pathologic function and therapeutic potential of exosomes in cardiovascular disease. 2015 , 1852, 1-11	165
1388	Exosomes: vehicles of intercellular signaling, biomarkers, and vectors of cell therapy. 2015 , 77, 13-27	418
1387	A systematic review of preclinical studies on the therapeutic potential of mesenchymal stromal cell-derived microvesicles. 2015 , 11, 150-60	204
1386	Pluripotent Stem Cells: Differentiation Potential and Therapeutic Efficacy for Cartilage Repair. 2016 ,	
1385	Microvesicles as Mediators of Tissue Regeneration. 2016 , 215-224	1
1384	Therapeutic Potential of Human Mesenchymal Stomal Cells Secretome. 2016 , 05,	1
1383	Exosomes. 2016 , 179-209	8
1382	Mesenchymal Stem Cell-Derived Exosomes: New Opportunity in Cell-Free Therapy. 2016 , 6, 293-299	85
1381	Harnessing the Angiogenic Potential of Stem Cell-Derived Exosomes for Vascular Regeneration. 2016 , 2016, 3409169	45
1380	Exosomes and Their Therapeutic Potentials of Stem Cells. 2016 , 2016, 7653489	105
1379	CCR2 Positive Exosome Released by Mesenchymal Stem Cells Suppresses Macrophage Functions and Alleviates Ischemia/Reperfusion-Induced Renal Injury. 2016 , 2016, 1240301	107
1378	Proangiogenic Features of Mesenchymal Stem Cells and Their Therapeutic Applications. 2016 , 2016, 1314709	142
1377	Therapeutic Potential of Stem Cells Strategy for Cardiovascular Diseases. 2016 , 2016, 4285938	17
1376	Inhibition of Myocardial Ischemia/Reperfusion Injury by Exosomes Secreted from Mesenchymal Stem Cells. 2016 , 2016, 4328362	33
1375	Mesenchymal Stem Cells as a Prospective Therapy for the Diabetic Foot. 2016 , 2016, 4612167	20
1374	Towards Therapeutic Delivery of Extracellular Vesicles: Strategies for Tracking and Biodistribution Analysis. 2016 , 2016, 5029619	87
1373	Mesenchymal Stem Cell-Derived Microvesicles Support Ex Vivo Expansion of Cord Blood-Derived CD34(+) Cells. 2016 , 2016, 6493241	32

1372	Exosomes isolation protocols: facts and artifacts for cardiac regeneration. 2016 , 8, 303-11	8
1371	Cell Therapy in Ischemic Heart Disease: Interventions That Modulate Cardiac Regeneration. 2016 , 2016, 2171035	19
1370	Cellular Therapy for Heart Failure. 2016 , 12, 195-215	20
1369	Epigenetic Reprogramming of Muscle Progenitors: Inspiration for Clinical Therapies. 2016 , 2016, 6093601	15
1368	Exosomes: The Messengers of Health and Disease. 2017 , 15, 157-165	100
1367	Extracellular vesicle isolation and characterization: toward clinical application. 2016 , 126, 1152-62	467
1366	Stem Cell-Derived Extracellular Vesicles and Immune-Modulation. 2016 , 4, 83	154
1365	Recent Developments in Cellular Immunotherapy for HSCT-Associated Complications. 2016 , 7, 500	28
1364	Focus on Extracellular Vesicles: Introducing the Next Small Big Thing. 2016 , 17, 170	432
1363	Focus on Extracellular Vesicles: Therapeutic Potential of Stem Cell-Derived Extracellular Vesicles. 2016 , 17, 174	49
1362	Stem cell drugs: the next generation of pharmaceutical products. 2016 , 3,	1
1361	DNA Content in Extracellular Vesicles Isolated from Porcine Coronary Venous Blood Directly after Myocardial Ischemic Preconditioning. 2016 , 11, e0159105	6
1360	Indication of Horizontal DNA Gene Transfer by Extracellular Vesicles. 2016 , 11, e0163665	61
1359	Exosomes Secreted by Human-Induced Pluripotent Stem Cell-Derived Mesenchymal Stem Cells Repair Critical-Sized Bone Defects through Enhanced Angiogenesis and Osteogenesis in Osteoporotic Rats. 2016 , 12, 836-49	269
1358	MSCs-Derived Exosomes: Cell-Secreted Nanovesicles with Regenerative Potential. 2016 , 7, 231	149
1357	Mesenchymal Stem Cell-Derived Extracellular Vesicles Promote Angiogenesis: Potencial Clinical Application. 2016 , 7, 24	134
1356	Focus on Extracellular Vesicles: Physiological Role and Signalling Properties of Extracellular Membrane Vesicles. 2016 , 17, 171	162
1355	Exosomes derived from human embryonic mesenchymal stem cells promote osteochondral regeneration. 2016 , 24, 2135-2140	354

1354	Placenta Mesenchymal Stem Cell Derived Exosomes Confer Plasticity on Fibroblasts. 2016 , 117, 1658-70	31
1353	Development and regulation of exosome-based therapy products. 2016 , 8, 744-57	40
1352	Extracellular vesicles in cardiovascular disease: are they Jedi or Sith?. 2016 , 594, 2881-94	36
1351	The evolving concept of mesenchymal stromal cells in regenerative medicine. 2016 , 222-235	
1350	Mesenchymal stromal cell extracellular vesicles/exosomes. 2016 , 250-263	
1349	The relationship between mesenchymal stromal cells and endothelial cells. 2016 , 366-390	
1348	The role of mesenchymal stromal cells in the repair of acute organ injury. 2016 , 496-523	1
1347	Treatment of lung disease by mesenchymal stromal cell extracellular vesicles. 2016 , 553-572	1
1346	The use of mesenchymal stromal cells in acute and chronic heart disease. 2016 , 645-660	
1345	The role of mesenchymal stromal cells in skin wound healing. 2016 , 845-856	0
1344	Reconciling the stem cell and paracrine paradigms of mesenchymal stem cell function. 2016 , 912-926	
1343	MSC secretes at least 3 EV types each with a unique permutation of membrane lipid, protein and RNA. 2016 , 5, 29828	136
1342	Frühe Hirnschäden verhindern. 2016 , 28, 26-34	
1341	Differential and transferable modulatory effects of mesenchymal stromal cell-derived extracellular vesicles on T, B and NK cell functions. 2016 , 6, 24120	168
1340	Isolation and Characterization of Exosome from Human Embryonic Stem Cell-Derived C-Myc-Immortalized Mesenchymal Stem Cells. 2016 , 1416, 477-94	28
1339	Tips on How to Collect and Administer the Mesenchymal Stem Cell Secretome for Central Nervous System Applications. 2016 , 1416, 457-65	0
1338	Paracrine Mechanisms of Mesenchymal Stem Cells in Tissue Repair. 2016 , 1416, 123-46	221
1337	Mesenchymal Stem Cells. 2016 ,	9

1336	Can heart function lost to disease be regenerated by therapeutic targeting of cardiac scar tissue?. 2016 , 58, 41-54	13
1335	Effective isolation of exosomes with polyethylene glycol from cell culture supernatant for in-depth proteome profiling. 2016 , 141, 4640-6	111
1334	Extracellular Vesicles: Satellites of Information Transfer in Cancer and Stem Cell Biology. 2016 , 37, 301-309	123
1333	Empowering Adult Stem Cells for Myocardial Regeneration V2.0: Success in Small Steps. 2016 , 118, 867-80	39
1332	Organ Preservation: Cryobiology and Beyond. 2016 , 2, 104-117	1
1331	Illuminating the physiology of extracellular vesicles. 2016 , 7, 55	62
1330	Mesenchymal stromal cell-derived extracellular vesicles rescue radiation damage to murine marrow hematopoietic cells. 2016 , 30, 2221-2231	129
1329	Oxygen cycling to improve survival of stem cells for myocardial repair: A review. 2016 , 153, 124-31	9
1328	Mechanisms of mesenchymal stem/stromal cell function. 2016 , 7, 125	411
1327	Umbilical cord mesenchymal stem cells derived extracellular vesicles can safely ameliorate the progression of chronic kidney diseases. 2016 , 20, 21	211
1326	Hepatoprotective effect of exosomes from human-induced pluripotent stem cell-derived mesenchymal stromal cells against hepatic ischemia-reperfusion injury in rats. 2016 , 18, 1548-1559	92
1325	Extracellular Vesicles and Vascular Injury: New Insights for Radiation Exposure. 2016 , 186, 203-18	28
1324	Extracellular Vesicles Released from Human Umbilical Cord-Derived Mesenchymal Stromal Cells Prevent Life-Threatening Acute Graft-Versus-Host Disease in a Mouse Model of Allogeneic Hematopoietic Stem Cell Transplantation. 2016 , 25, 1874-1883	83
1323	Exosomes/tricalcium phosphate combination scaffolds can enhance bone regeneration by activating the PI3K/Akt signaling pathway. 2016 , 7, 136	206
1322	Applying 3D-FRAP microscopy to analyse gap junction-dependent shuttling of small antisense RNAs between cardiomyocytes. 2016 , 98, 117-27	11
1321	Elucidating diversity of exosomes: biophysical and molecular characterization methods. 2016 , 11, 2359-77	52
1320	Lectin-induced agglutination method of urinary exosomes isolation followed by mi-RNA analysis: Application for prostate cancer diagnostic. 2016 , 76, 68-79	105
1319	Comprehensive Proteomic Analysis of Mesenchymal Stem Cell Exosomes Reveals Modulation of Angiogenesis via Nuclear Factor-KappaB Signaling. 2016 , 34, 601-13	304

1318	Concise Review: Cellular Therapies: The Potential to Regenerate and Restore Tolerance in Immune-Mediated Intestinal Diseases. 2016 , 34, 1474-86	10
1317	Mesenchymal stem cells as novel micro-ribonucleic acid delivery vehicles in kidney disease. 2016 , 21, 363-71	11
1316	Mesenchymal stem/stromal cell-derived extracellular vesicles as a new approach in stem cell therapy. 2016 , 11, 228-234	7
1315	Mesenchymal Stromal Cell-Derived Extracellular Vesicles Protect the Fetal Brain After Hypoxia-Ischemia. 2016 , 5, 754-63	162
1314	Exosomes from Cardiomyocyte Progenitor Cells and Mesenchymal Stem Cells Stimulate Angiogenesis Via EMMPRIN. 2016 , 5, 2555-2565	123
1313	Exosomal MicroRNAs Derived From Umbilical Mesenchymal Stem Cells Inhibit Hepatitis C Virus Infection. 2016 , 5, 1190-203	91
1312	Mesenchymal Stem Cell-Derived Exosomes Promote Fracture Healing in a Mouse Model. 2016 , 5, 1620-1630	236
1311	Exosomes: Generation, structure, transport, biological activity, and diagnostic application. 2016 , 10, 163-173	20
1310	Comparative proteomic analysis of extracellular vesicles isolated from porcine adipose tissue-derived mesenchymal stem/stromal cells. 2016 , 6, 36120	91
1309	New strategies for improving stem cell therapy in ischemic heart disease. 2016 , 21, 737-752	31
1308	Mesenchymal stromal cells as multifunctional cellular therapeutics - a potential role for extracellular vesicles. 2016 , 55, 62-9	26
1307	Exosomes derived from human adipose mesenchymal stem cells accelerates cutaneous wound healing via optimizing the characteristics of fibroblasts. 2016 , 6, 32993	283
1306	Exosomes derived from MSCs ameliorate retinal laser injury partially by inhibition of MCP-1. 2016 , 6, 34562	106
1305	Immunosuppressive effect of mesenchymal stem cell-derived exosomes on a concanavalin A-induced liver injury model. 2016 , 36, 26	78
1304	Paracrine effects of TLR4-polarised mesenchymal stromal cells are mediated by extracellular vesicles. 2016 , 14, 34	8
1303	Rebuilding the Damaged Heart: Mesenchymal Stem Cells, Cell-Based Therapy, and Engineered Heart Tissue. 2016 , 96, 1127-68	190
1302	Plasma-derived Extracellular Vesicles Contain Predictive Biomarkers and Potential Therapeutic Targets for Myocardial Ischemic (MI) Injury. 2016 , 15, 2628-40	78
1301	From DNA damage to functional changes of the trabecular meshwork in aging and glaucoma. 2016 , 29, 26-41	67

1300	Exosomes secreted by mesenchymal stem cells promote endothelial cell angiogenesis by transferring miR-125a. 2016 , 129, 2182-9	290
1299	More Than Tiny Sacks: Stem Cell Exosomes as Cell-Free Modality for Cardiac Repair. 2016 , 118, 330-43	122
1298	Pretreatment of Cardiac Stem Cells With Exosomes Derived From Mesenchymal Stem Cells Enhances Myocardial Repair. 2016 , 5,	153
1297	Fibroblast-myocyte coupling in the heart: Potential relevance for therapeutic interventions. 2016 , 91, 238-46	54
1296	Microvesicles and exosomes: new players in metabolic and cardiovascular disease. 2016 , 228, R57-71	220
1295	Emerging Concepts in Paracrine Mechanisms in Regenerative Cardiovascular Medicine and Biology. 2016 , 118, 95-107	167
1294	Cardiovascular progenitor-derived extracellular vesicles recapitulate the beneficial effects of their parent cells in the treatment of chronic heart failure. 2016 , 35, 795-807	121
1293	The current landscape of the mesenchymal stromal cell secretome: A new paradigm for cell-free regeneration. 2016 , 18, 13-24	277
1292	Stem cell-based therapies for the newborn lung and brain: Possibilities and challenges. 2016 , 40, 138-51	46
1291	Extracellular vesicles as new players in angiogenesis. 2016 , 86, 64-70	57
1290	Mesenchymal stem cell derived secretome and extracellular vesicles for acute lung injury and other inflammatory lung diseases. 2016 , 16, 859-71	115
1289	Fibronectin-Containing Extracellular Vesicles Protect Melanocytes against Ultraviolet Radiation-Induced Cytotoxicity. 2016 , 136, 957-966	23
1288	Mesenchymal stem cell-derived exosomes from different sources selectively promote neuritic outgrowth. 2016 , 320, 129-39	119
1287	Electrical stimulation to optimize cardioprotective exosomes from cardiac stem cells. 2016 , 88, 6-9	16
1286	Tiny Shuttles for Information Transfer: Exosomes in Cardiac Health and Disease. 2016 , 9, 169-175	25
1285	Exosomes as therapeutics: The implications of molecular composition and exosomal heterogeneity. 2016 , 228, 179-190	193
1284	Adipose-Derived Stem Cells Induce Angiogenesis via Microvesicle Transport of miRNA-31. 2016 , 5, 440-50	112
1283	Exosomes for repair, regeneration and rejuvenation. 2016 , 16, 489-506	99

1282	Exosomes in Cancer Disease. 2016 , 1381, 111-49	38
1281	Exosomes: Fundamental Biology and Roles in Cardiovascular Physiology. 2016 , 78, 67-83	170
1280	Profiling the Secretome of Human Stem Cells from Dental Apical Papilla. 2016 , 25, 499-508	37
1279	Microvesicles and Exosomes in Local and Distant Communication with the Heart. 2016 , 143-162	0
1278	Stem Cells and Cardiac Regeneration. 2016 ,	0
1277	Exosomes from differentiating human skeletal muscle cells trigger myogenesis of stem cells and provide biochemical cues for skeletal muscle regeneration. 2016 , 222, 107-15	87
1276	Treatment of dilated cardiomyopathy in rabbits with mesenchymal stem cell transplantation and platelet-rich plasma. 2016 , 209, 180-5	7
1275	Microvesicles but Not Exosomes from Pathfinder Cells Stimulate Functional Recovery of the Pancreas in a Mouse Streptozotocin-Induced Diabetes Model. 2016 , 19, 223-32	7
1274	Effect of exosome isolation methods on physicochemical properties of exosomes and clearance of exosomes from the blood circulation. 2016 , 98, 1-8	100
1273	Function and Therapeutic Potential of Noncoding RNAs in Cardiac Fibrosis. 2016 , 118, 108-18	70
1272	Retracted: Exosomes secreted by human urine-derived stem cells accelerate skin wound healing by promoting angiogenesis in rat by Yuan H, Guan J, Zhang J, Zhang R, Li M. 2017 , 41, 933	15
1271	3D Printed Stem-Cell-Laden, Microchanneled Hydrogel Patch for the Enhanced Release of Cell-Secreting Factors and Treatment of Myocardial Infarctions. 2017 , 3, 1980-1987	29
1270	Neurological Regeneration. 2017 ,	1
1269	Exosomes Generated From iPSC-Derivatives: New Direction for Stem Cell Therapy in Human Heart Diseases. 2017 , 120, 407-417	90
1268	Mesenchymal Stromal Cell Therapy for Neonatal Hypoxic-Ischemic Encephalopathy. 2017 , 105-120	2
1267	Human Retrotransposons in Health and Disease. 2017 ,	
1266	The Protein Content of Extracellular Vesicles Derived from Expanded Human Umbilical Cord Blood-Derived CD133 and Human Bone Marrow-Derived Mesenchymal Stem Cells Partially Explains Why both Sources are Advantageous for Regenerative Medicine. 2017 , 13, 244-257	37
1265	Re-Engineering Extracellular Vesicles as Smart Nanoscale Therapeutics. 2017 , 11, 69-83	286

1264	Exosome and Microvesicle-Enriched Fractions Isolated from Mesenchymal Stem Cells by Gradient Separation Showed Different Molecular Signatures and Functions on Renal Tubular Epithelial Cells. 2017 , 13, 226-243	99
1263	Extracellular vesicles in coronary artery disease. 2017 , 14, 259-272	276
1262	Characteristics and Roles of Exosomes in Cardiovascular Disease. 2017 , 36, 202-211	70
1261	Exosomes derived from human menstrual blood-derived stem cells alleviate fulminant hepatic failure. 2017 , 8, 9	105
1260	Bone Marrow-Derived Mesenchymal Stem Cells-Derived Exosomes Promote Survival of Retinal Ganglion Cells Through miRNA-Dependent Mechanisms. 2017 ,	3
1259	Exosomes derived from human amniotic epithelial cells accelerate wound healing and inhibit scar formation. 2017 , 48, 121-132	102
1258	Bone Marrow-Derived Mesenchymal Stem Cells-Derived Exosomes Promote Survival of Retinal Ganglion Cells Through miRNA-Dependent Mechanisms. 2017 , 6, 1273-1285	191
1257	TRAIL delivery by MSC-derived extracellular vesicles is an effective anticancer therapy. 2017 , 6, 1265291	90
1256	First Characterization of Human Amniotic Fluid Stem Cell Extracellular Vesicles as a Powerful Paracrine Tool Endowed with Regenerative Potential. 2017 , 6, 1340-1355	73
1255	Concise Review: MSC-Derived Exosomes for Cell-Free Therapy. 2017 , 35, 851-858	761
1254	Comparison of exosomes secreted by induced pluripotent stem cell-derived mesenchymal stem cells and synovial membrane-derived mesenchymal stem cells for the treatment of osteoarthritis. 2017 , 8, 64	195
1253	Pharmacokinetics of Exosomes-An Important Factor for Elucidating the Biological Roles of Exosomes and for the Development of Exosome-Based Therapeutics. 2017 , 106, 2265-2269	108
1252	Exosomes: Therapy delivery tools and biomarkers of diseases. 2017 , 174, 63-78	524
1251	Fetal and perinatal stem cells in cardiac regeneration: Moving forward to the paracrine era. 2017 , 59, 96-106	26
1250	Extracellular vesicles from bone marrow-derived mesenchymal stem cells protect against murine hepatic ischemia/reperfusion injury. 2017 , 23, 791-803	64
1249	Extracellular Vesicles: Isolation Methods. 2017 , 1, e1700040	22
1248	Designing Acellular Injectable Biomaterial Therapeutics for Treating Myocardial Infarction and Peripheral Artery Disease. 2017 , 2, 212-226	45
1247	Identification of exosomes and its signature miRNAs of male and female <i>Cynoglossus semilaevis</i> . 2017 , 7, 860	16

1246	Advances of stem cell based-therapeutic approaches for tendon repair. 2017 , 9, 69-75	17
1245	Trophic Effects of Mesenchymal Stem Cells in Tissue Regeneration. 2017 , 23, 515-528	142
1244	Stem Cell Technologies in Neuroscience. 2017 ,	
1243	Human mesenchymal stem cells secrete hyaluronan-coated extracellular vesicles. 2017 , 64, 54-68	37
1242	Augmented liver targeting of exosomes by surface modification with cationized pullulan. 2017 , 57, 274-284	68
1241	Exosome-Like Vesicles Derived from Adipose Tissue Provide Biochemical Cues for Adipose Tissue Regeneration. 2017 , 23, 1221-1230	28
1240	Isolation and characterization of equine dental pulp stem cells derived from Thoroughbred wolf teeth. 2017 , 79, 47-51	3
1239	Cartilage repair by mesenchymal stem cells: Clinical trial update and perspectives. 2017 , 9, 76-88	115
1238	Mesenchymal stem cell-derived exosomes as a new therapeutic strategy for liver diseases. 2017 , 49, e346	258
1237	Mesenchymal Stem/Stromal Cells in Regenerative Medicine: Past, Present, and Future. 2017 , 19, 217-224	60
1236	Exosomes in Cardiovascular Medicine. 2017 , 6, 225-237	16
1235	Bone marrow mesenchymal stem cell-derived exosomes enhance osteoclastogenesis during alveolar bone deterioration in rats. 2017 , 7, 21153-21163	15
1234	Protective Effect of Intravitreal Administration of Exosomes Derived from Mesenchymal Stem Cells on Retinal Ischemia. 2017 , 42, 1358-1367	52
1233	Exosomes as Reconfigurable Therapeutic Systems. 2017 , 23, 636-650	132
1232	Liver-Directed Human Amniotic Epithelial Cell Transplantation Improves Systemic Disease Phenotype in Hurler Syndrome Mouse Model. 2017 , 6, 1583-1594	12
1231	A flow cytometry assay to quantify intercellular exchange of membrane components. 2017 , 8, 5585-5590	4
1230	Exosomes: A Valuable Biomedical Tool in Biomarker Discovery and Development. 2017 , 50-63	2
1229	Higher functionality of extracellular vesicles isolated using size-exclusion chromatography compared to ultracentrifugation. 2017 , 13, 2061-2065	162

1228	Liquid Biopsies in Solid Tumors. 2017 ,	
1227	Evaluation of the pro-angiogenic effect of nanoscale extracellular vesicles derived from human umbilical cord mesenchymal stem cells. 2017 , 28, S75-S79	2
1226	Exosomes: The Next Small Thing. 2017 , 139-155	
1225	Fabrication of Synthetic Mesenchymal Stem Cells for the Treatment of Acute Myocardial Infarction in Mice. 2017 , 120, 1768-1775	118
1224	Achieving the Promise of Therapeutic Extracellular Vesicles: The Devil is in Details of Therapeutic Loading. 2017 , 34, 1053-1066	62
1223	Extracellular vesicle mimetics: Novel alternatives to extracellular vesicle-based theranostics, drug delivery, and vaccines. 2017 , 67, 74-82	42
1222	Multifunctional Roles of Tumor-Associated Mesenchymal Stem Cells in Cancer Progression. 2017 , 335-368	2
1221	Look who's talking-the crosstalk between oxidative stress and autophagy supports exosomal-dependent release of HCV particles. 2017 , 33, 211-231	23
1220	A Protocol for Isolation and Proteomic Characterization of Distinct Extracellular Vesicle Subtypes by Sequential Centrifugal Ultrafiltration. 2017 , 1545, 91-116	48
1219	Cultured human amniocytes express hTERT, which is distributed between nucleus and cytoplasm and is secreted in extracellular vesicles. 2017 , 483, 706-711	20
1218	Concise Review: Multifaceted Characterization of Human Mesenchymal Stem Cells for Use in Regenerative Medicine. 2017 , 6, 2173-2185	321
1217	Exosomes From Adipose-derived Mesenchymal Stem Cells Protect the Myocardium Against Ischemia/Reperfusion Injury Through Wnt/ β Catenin Signaling Pathway. 2017 , 70, 225-231	101
1216	Autoimmune Responses to Exosomes and Candidate Antigens Contribute to Type 1 Diabetes in Non-Obese Diabetic Mice. 2017 , 17, 130	12
1215	Extracellular Vesicles. 2017 ,	7
1214	Mesenchymal Stromal Cell-Derived Extracellular Vesicles Provide Long-Term Survival After Total Body Irradiation Without Additional Hematopoietic Stem Cell Support. 2017 , 35, 2379-2389	35
1213	Human Mesenchymal Stem Cell (hMSC) -Derived Exosomes/Exosome Mimetics as a Potential Novel Therapeutic Tool for Regenerative Medicine. 2017 , 81-97	2
1212	Cardioprotective Effects of Exosomes and Their Potential Therapeutic Use. 2017 , 998, 163-177	2
1211	Cardiac Progenitor-Cell Derived Exosomes as Cell-Free Therapeutic for Cardiac Repair. 2017 , 998, 207-219	15

1210	Clinical Trials of Cardiac Regeneration Using Adult Stem Cells: Current and Future Prospects. 2017 , 359-379	1
1209	Mesenchymal stem cell therapy: A promising cell-based therapy for treatment of myocardial infarction. 2017 , 19, e2995	78
1208	Mesenchymal stem cell-derived extracellular vesicles: a glimmer of hope in treating Alzheimer's disease. 2017 , 29, 11-19	41
1207	Concise Review: Mesenchymal Stem Cells in Cardiovascular Regeneration: Emerging Research Directions and Clinical Applications. 2017 , 6, 1859-1867	67
1206	Magnetic nanoparticle-enhanced surface plasmon resonance biosensor for extracellular vesicle analysis. 2017 , 142, 3913-3921	34
1205	Therapeutic Applications of Extracellular Vesicles: Perspectives from Newborn Medicine. 2017 , 1660, 409-432	25
1204	Three-dimensional cell culture of human mesenchymal stem cells in nanofibrillar cellulose hydrogels. 2017 , 7, 458-465	24
1203	Exosomes Derived from Mesenchymal Stem Cells Rescue Myocardial Ischaemia/Reperfusion Injury by Inducing Cardiomyocyte Autophagy Via AMPK and Akt Pathways. 2017 , 43, 52-68	192
1202	Cellular uptake of extracellular vesicles is mediated by clathrin-independent endocytosis and macropinocytosis. 2017 , 266, 100-108	208
1201	UBR2 Enriched in p53 Deficient Mouse Bone Marrow Mesenchymal Stem Cell-Exosome Promoted Gastric Cancer Progression via Wnt/ECatenin Pathway. 2017 , 35, 2267-2279	54
1200	Exosomes derived from bone marrow stromal cells decrease the sensitivity of leukemic cells to etoposide. 2017 , 14, 3082-3088	8
1199	Therapeutic Effects of Mesenchymal Stem Cell-Derived Exosomes in Cardiovascular Disease. 2017 , 998, 179-185	37
1198	Cardiac Telocyte-Derived Exosomes and Their Possible Implications in Cardiovascular Pathophysiology. 2017 , 998, 237-254	27
1197	Exosomes: Outlook for Future Cell-Free Cardiovascular Disease Therapy. 2017 , 998, 285-307	12
1196	Concise Review: Extracellular Vesicles Overcoming Limitations of Cell Therapies in Ischemic Stroke. 2017 , 6, 2044-2052	25
1195	Raman spectroscopy uncovers biochemical tissue-related features of extracellular vesicles from mesenchymal stromal cells. 2017 , 7, 9820	60
1194	Schwann cells secrete extracellular vesicles to promote and maintain the proliferation and multipotency of hDPCs. 2017 , 50,	13
1193	Low active loading of cargo into engineered extracellular vesicles results in inefficient miRNA mimic delivery. 2017 , 6, 1333882	47

1192	Differences in Stem Cell Processing Lead to Distinct Secretomes Secretion-Implications for Differential Results of Previous Clinical Trials of Stem Cell Therapy for Myocardial Infarction. 2017 , 12, 1600732	6
1191	Stem cell-derived exosomes: A promising strategy for fracture healing. 2017 , 50,	52
1190	Comparison of isolation methods of exosomes and exosomal RNA from cell culture medium and serum. 2017 , 40, 834-844	231
1189	Glioblastoma Exosomes for Therapeutic Angiogenesis in Peripheral Ischemia. 2017 , 23, 1251-1261	21
1188	The Distinct Role of Extracellular Vesicles Derived from Normal and Cancer Stem Cells. 2017 , 3, 218-224	2
1187	Proteomic characterisation reveals active Wnt-signalling by human multipotent stromal cells as a key regulator of beta cell survival and proliferation. 2017 , 60, 1987-1998	19
1186	Stem cell therapy for abrogating stroke-induced neuroinflammation and relevant secondary cell death mechanisms. 2017 , 158, 94-131	143
1185	Impact of cell culture parameters on production and vascularization bioactivity of mesenchymal stem cell-derived extracellular vesicles. 2017 , 2, 170-179	82
1184	Adipose-Derived Stem Cell-Derived Exosomes Ameliorate Erectile Dysfunction in a Rat Model of Type 2 Diabetes. 2017 , 14, 1084-1094	45
1183	The Safety of Non-Expanded Multipotential Stromal Cell Therapies. 2017 , 91-118	3
1182	Exosomes as agents of change in the cardiovascular system. 2017 , 111, 40-50	29
1181	Safety, Ethics and Regulations. 2017 ,	
1180	Mesenchymal Stem Cells for Frailty?. 2017 , 20, 525-529	4
1179	Extracellular vesicles derived from MSCs activates dermal papilla cell in vitro and promotes hair follicle conversion from telogen to anagen in mice. 2017 , 7, 15560	76
1178	Myocardial reparative functions of exosomes from mesenchymal stem cells are enhanced by hypoxia treatment of the cells via transferring microRNA-210 in an nSMase2-dependent way. 2018 , 46, 1659-1670	109
1177	Extracellular Vesicles in Neurodegenerative Diseases: A Double-Edged Sword. 2017 , 14, 667-678	24
1176	Exosomes: biology, therapeutic potential, and emerging role in musculoskeletal repair and regeneration. 2017 , 1410, 57-67	33
1175	A Combination of Allogeneic Stem Cells Promotes Cardiac Regeneration. 2017 , 70, 2504-2515	58

1174	Exosomes: promising sacks for treating ischemic heart disease?. 2017 , 313, H508-H523	19
1173	Effects of Mesenchymal Stem Cell-Derived Exosomes on Experimental Autoimmune Uveitis. 2017 , 7, 4323	141
1172	Stem Cell-Derived Exosomes, Autophagy, Extracellular Matrix Turnover, and miRNAs in Cardiac Regeneration during Stem Cell Therapy. 2017 , 13, 79-91	46
1171	The double life of cardiac mesenchymal cells: Epimetabolic sensors and therapeutic assets for heart regeneration. 2017 , 171, 43-55	9
1170	Mesenchymal stem cell-derived extracellular vesicles ameliorate inflammation-induced preterm brain injury. 2017 , 60, 220-232	152
1169	Current Trends in Regenerative Medicine: From Cell to Cell-Free Therapy. 2017 , 7, 240-245	34
1168	Exosomes and Cardiovascular Protection. 2017 , 31, 77-86	60
1167	Advances in bone marrow stem cell therapy for retinal dysfunction. 2017 , 56, 148-165	69
1166	Emerging role of exosomes in liver physiology and pathology. 2017 , 47, 194-203	33
1165	Hepatocyte growth factor-modified mesenchymal stem cells improve ischemia/reperfusion-induced acute lung injury in rats. 2017 , 24, 3-11	33
1164	Overexpression of Gremlin1 in Mesenchymal Stem Cells Improves Hindlimb Ischemia in Mice by Enhancing Cell Survival. 2017 , 232, 996-1007	18
1163	Exosomes Derived from Akt-Modified Human Umbilical Cord Mesenchymal Stem Cells Improve Cardiac Regeneration and Promote Angiogenesis via Activating Platelet-Derived Growth Factor D. 2017 , 6, 51-59	174
1162	MSC exosome as a cell-free MSC therapy for cartilage regeneration: Implications for osteoarthritis treatment. 2017 , 67, 56-64	234
1161	Concise Review: Mesenchymal Stem (Stromal) Cells: Biology and Preclinical Evidence for Therapeutic Potential for Organ Dysfunction Following Trauma or Sepsis. 2017 , 35, 316-324	91
1160	Diverse impact of xeno-free conditions on biological and regenerative properties of hUC-MSCs and their extracellular vesicles. 2017 , 95, 205-220	34
1159	Endothelial- and Immune Cell-Derived Extracellular Vesicles in the Regulation of Cardiovascular Health and Disease. 2017 , 2, 790-807	77
1158	Isolation of equine peripheral blood stem cells from a Japanese native horse. 2017 , 28, 153-158	5
1157	8. Paracrine of the heart with stem cells. 2017 ,	1

1156	Endothelial Extracellular Vesicles-Promises and Challenges. 2017 , 8, 275	58
1155	Exosomes: A Rising Star in Falling Hearts. 2017 , 8, 494	31
1154	Mesenchymal Stem Cell-Derived Exosomes: Immunomodulatory Evaluation in an Antigen-Induced Synovitis Porcine Model. 2017 , 4, 39	35
1153	Nanosized UCMSC-derived extracellular vesicles but not conditioned medium exclusively inhibit the inflammatory response of stimulated T cells: implications for nanomedicine. 2017 , 7, 270-284	108
1152	Progress in Exosome Isolation Techniques. 2017 , 7, 789-804	826
1151	Mesenchymal Stem/Stromal Cells as Biological Factories. 2017 , 121-154	1
1150	Extracellular Vesicles in Cardiovascular Theranostics. 2017 , 7, 4168-4182	87
1149	Insights Into Signaling in Cell-Based Therapy for Heart Disease. 2017 , 6, 117864341771768	
1148	Mesenchymal Stem Cell Secretome: Toward Cell-Free Therapeutic Strategies in Regenerative Medicine. 2017 , 18,	501
1147	Insights into the Diagnostic Potential of Extracellular Vesicles and Their miRNA Signature from Liquid Biopsy as Early Biomarkers of Diabetic Micro/Macrovascular Complications. 2017 , 18,	28
1146	Challenges and Strategies for Improving the Regenerative Effects of Mesenchymal Stromal Cell-Based Therapies. 2017 , 18,	103
1145	Extracellular Vesicles as Therapeutic Agents in Systemic Lupus Erythematosus. 2017 , 18,	37
1144	Diverging Concepts and Novel Perspectives in Regenerative Medicine. 2017 , 18,	15
1143	Manufacturing of Human Extracellular Vesicle-Based Therapeutics for Clinical Use. 2017 , 18,	142
1142	An In Vitro Potency Assay for Monitoring the Immunomodulatory Potential of Stromal Cell-Derived Extracellular Vesicles. 2017 , 18,	50
1141	Mesenchymal Stem/Stromal Cell-Derived Extracellular Vesicles and Their Potential as Novel Immunomodulatory Therapeutic Agents. 2017 , 18,	194
1140	Toward Exosome-Based Therapeutics: Isolation, Heterogeneity, and Fit-for-Purpose Potency. 2017 , 4, 63	126
1139	A Regulatory miRNA-mRNA Network Is Associated with Tissue Repair Induced by Mesenchymal Stromal Cells in Acute Kidney Injury. 2016 , 7, 645	27

1138	Antimicrobial Activity of Mesenchymal Stem Cells: Current Status and New Perspectives of Antimicrobial Peptide-Based Therapies. 2017 , 8, 339	127
1137	Therapeutic Development of Mesenchymal Stem Cells or Their Extracellular Vesicles to Inhibit Autoimmune-Mediated Inflammatory Processes in Systemic Lupus Erythematosus. 2017 , 8, 526	34
1136	MSCs-Derived Exosomes and Neuroinflammation, Neurogenesis and Therapy of Traumatic Brain Injury. 2017 , 11, 55	104
1135	MiRNA-Sequence Indicates That Mesenchymal Stem Cells and Exosomes Have Similar Mechanism to Enhance Cardiac Repair. 2017 , 2017, 4150705	158
1134	Exosomes Derived from Human Umbilical Cord Mesenchymal Stem Cells Relieve Inflammatory Bowel Disease in Mice. 2017 , 2017, 5356760	111
1133	Potential Role of Exosomes in Mending a Broken Heart: Nanoshuttles Propelling Future Clinical Therapeutics Forward. 2017 , 2017, 5785436	29
1132	Mesenchymal Stem Cells for Cartilage Regeneration of TMJ Osteoarthritis. 2017 , 2017, 5979741	24
1131	Myocardial Regeneration via Progenitor Cell-Derived Exosomes. 2017 , 2017, 7849851	12
1130	Mesenchymal stem cells and their therapeutic applications in inflammatory bowel disease. 2017 , 8, 38008-38021	30
1129	6.12 Tissue Engineering Approaches to Regeneration of Anterior Cruciate Ligament ?. 2017 , 194-215	1
1128	Exosomes of human placenta-derived mesenchymal stem cells stimulate angiogenesis. 2017 , 8, 219	90
1127	En el Infarto agudo al miocardio los niveles plasmáticos de microvesículas extracelulares se elevan más precozmente que el aumento de la Troponina-I. 2017 , 36, 24-33	
1126	Differentiation Potential of Mesenchymal Stem Cells Derived from Adipose Tissue vs Bone Marrow Toward Annulus Fibrosus Cells In vitro. 2017 , 12, 432-439	6
1125	Protective effects of fentanyl preconditioning on cardiomyocyte apoptosis induced by ischemia-reperfusion in rats. 2017 , 50, e5286	6
1124	Extracellular vesicles and aging. 2017 , 4, 98	43
1123	Beneficial effects of exosomes secreted by cardiac-derived progenitor cells and other cell types in myocardial ischemia. 2017 , 4, 93	43
1122	Exosomes of human mesenchymal stem/stromal/medicinal signaling cells. 2017 , 64, 809-815	13
1121	Cytochalasin B-induced membrane vesicles convey angiogenic activity of parental cells. 2017 , 8, 70496-70507	21

1120	Extracellular vesicles and cardiovascular disease therapy. 2017 , 4, 102	14
1119	Clinical potential of mesenchymal stem/stromal cell-derived extracellular vesicles. 2017 , 4, 84	85
1118	Engineering of extracellular vesicles as drug delivery vehicles. 2017 , 4, 74	43
1117	Label-free extraction of extracellular vesicles using centrifugal microfluidics. 2018 , 12, 024103	27
1116	Stem cell-derived exosomes and the failing heart: Small cause, big effect. 2018 , 156, 1089-1092	5
1115	Cholesterol and the journey of extracellular vesicles. 2018 , 59, 2255-2261	59
1114	MicroRNAs of Equine Amniotic Mesenchymal Cell-derived Microvesicles and Their Involvement in Anti-inflammatory Processes. 2018 , 27, 45-54	18
1113	Mesenchymal Stem Cells on Horizon: A New Arsenal of Therapeutic Agents. 2018 , 14, 484-499	55
1112	Concise Review: Rational Use of Mesenchymal Stem Cells in the Treatment of Ischemic Heart Disease. 2018 , 7, 543-550	50
1111	Cardiac-specific delivery by cardiac tissue-targeting peptide-expressing exosomes. 2018 , 499, 803-808	62
1110	Mesenchymal stromal cell exosome-enhanced regulatory T-cell production through an antigen-presenting cell-mediated pathway. 2018 , 20, 687-696	94
1109	Adipose mesenchymal stem cell-derived exosomes stimulated by hydrogen peroxide enhanced skin flap recovery in ischemia-reperfusion injury. 2018 , 500, 310-317	71
1108	Recent treatment modalities for cardiovascular diseases with a focus on stem cells, aptamers, exosomes and nanomedicine. 2018 , 46, 831-840	7
1107	Exosomal microRNA-21-5p Mediates Mesenchymal Stem Cell Paracrine Effects on Human Cardiac Tissue Contractility. 2018 , 122, 933-944	86
1106	Proceedings of the signature series event of the international society for cellular therapy: "Advancements in cellular therapies and regenerative medicine in digestive diseases," London, United Kingdom, May 3, 2017. 2018 , 20, 461-476	3
1105	Subpopulations of extracellular vesicles and their therapeutic potential. 2018 , 60, 1-14	85
1104	Manufacturing Exosomes: A Promising Therapeutic Platform. 2018 , 24, 242-256	172
1103	Current status of stem cells in cardiac repair. 2018 , 14, 181-192	7

1102	Human umbilical cord mesenchymal stem cell-derived extracellular vesicles promote lung adenocarcinoma growth by transferring miR-410. 2018 , 9, 218	73
1101	Conditioned Medium Obtained from Amnion-Derived Mesenchymal Stem Cell Culture Prevents Activation of Keloid Fibroblasts. 2018 , 141, 390-398	15
1100	The extracellular vesicles-derived from mesenchymal stromal cells: A new therapeutic option in regenerative medicine. 2018 , 119, 8048-8073	60
1099	Non-coding RNAs as therapeutic targets for preventing myocardial ischemia-reperfusion injury. 2018 , 22, 247-261	62
1098	Acellular therapeutic approach for heart failure: in vitro production of extracellular vesicles from human cardiovascular progenitors. 2018 , 39, 1835-1847	84
1097	Extracellular vesicles: A new therapeutic strategy for joint conditions. 2018 , 153, 134-146	27
1096	The microRNA regulatory landscape of MSC-derived exosomes: a systems view. 2018 , 8, 1419	193
1095	Applications of stem cell-derived exosomes in tissue engineering and neurological diseases. 2018 , 29, 531-546	20
1094	Mechanistic effects of mesenchymal and hematopoietic stem cells: New therapeutic targets in myocardial infarction. 2018 , 119, 5274-5286	14
1093	Biological Functions and Current Advances in Isolation and Detection Strategies for Exosome Nanovesicles. 2018 , 14, 1702153	217
1092	Exosome and mesenchymal stem cell cross-talk in the tumor microenvironment. 2018 , 35, 69-79	134
1091	Extracellular vesicles in diagnostics and therapy of the ischaemic heart: Position Paper from the Working Group on Cellular Biology of the Heart of the European Society of Cardiology. 2018 , 114, 19-34	198
1090	The Secret Life of Exosomes: What Bees Can Teach Us About Next-Generation Therapeutics. 2018 , 71, 193-200	59
1089	Physiologic, Pathologic, and Therapeutic Paracrine Modulation of Cardiac Excitation-Contraction Coupling. 2018 , 122, 167-183	42
1088	The Phenotypic Effects of Exosomes Secreted from Distinct Cellular Sources: a Comparative Study Based on miRNA Composition. 2018 , 20, 67	16
1087	The decade of exosomal long RNA species: an emerging cancer antagonist. 2018 , 17, 75	89
1086	Mesenchymal stem cell-derived extracellular vesicles: novel frontiers in regenerative medicine. 2018 , 9, 63	282
1085	Current understanding of neuroinflammation after traumatic brain injury and cell-based therapeutic opportunities. 2018 , 21, 137-151	92

1084	Exosomal miR-21a-5p mediates cardioprotection by mesenchymal stem cells. 2018 , 119, 125-137	91
1083	Autophagy regulates exosomal release of prions in neuronal cells. 2018 , 293, 8956-8968	65
1082	Preclinical Studies of Stem Cell Therapy for Heart Disease. 2018 , 122, 1006-1020	72
1081	The Fas/Fap-1/Cav-1 complex regulates IL-1RA secretion in mesenchymal stem cells to accelerate wound healing. 2018 , 10,	68
1080	Therapeutic Potential of Engineered Extracellular Vesicles. 2018 , 20, 50	94
1079	Tissue Engineering and Regenerative Medicine 2017: A Year in Review. 2018 , 24, 327-344	36
1078	Insights into cell-free therapeutic approach: Role of stem cell "soup-ernatant". 2018 , 65, 104-118	16
1077	Exosomes promote restoration after an experimental animal model of intracerebral hemorrhage. 2018 , 38, 767-779	101
1076	Human umbilical cord-derived mesenchymal stem cells conditioned medium attenuate interstitial fibrosis and stimulate the repair of tubular epithelial cells in an irreversible model of unilateral ureteral obstruction. 2018 , 23, 728-736	25
1075	Phosphorylation of connexin 43 induced by traumatic brain injury promotes exosome release. 2018 , 119, 305-311	18
1074	Nucleic acid loading and fluorescent labeling of isolated extracellular vesicles requires adequate purification. 2018 , 548, 783-792	15
1073	Isolation, cultivation, and characterization of human mesenchymal stem cells. 2018 , 93, 19-31	195
1072	Fracture Healing and the Underexposed Role of Extracellular Vesicle-Based Cross Talk. 2018 , 49, 486-496	8
1071	Exosome-based Therapy for Bronchopulmonary Dysplasia. 2018 , 197, 10-12	10
1070	Extracellular vesicles in cartilage homeostasis and osteoarthritis. 2018 , 30, 129-135	40
1069	Extracellular vesicles as novel therapeutics in hepatic failure. 2018 , 67, 1158-1160	2
1068	Exosomes from human adipose-derived stem cells promote proliferation and migration of skin fibroblasts. 2018 , 27, 1170-1172	47
1067	Non-invasive strategies for stimulating endogenous repair and regenerative mechanisms in the damaged heart. 2018 , 127, 33-40	9

1066	Critical View on Mesenchymal Stromal Cells in Regenerative Medicine. 2018 , 29, 169-190	25
1065	Preservation of neuronal functions by exosomes derived from different human neural cell types under ischemic conditions. 2018 , 47, 150-157	19
1064	Graft-Versus-Host Disease Amelioration by Human Bone Marrow Mesenchymal Stromal/Stem Cell-Derived Extracellular Vesicles Is Associated with Peripheral Preservation of Naive T Cell Populations. 2018 , 36, 434-445	96
1063	Exosomes: new molecular targets of diseases. 2018 , 39, 501-513	164
1062	Induced Pluripotent Stem Cell (iPSC)-Derived Extracellular Vesicles Are Safer and More Effective for Cardiac Repair Than iPSCs. 2018 , 122, 296-309	140
1061	Exosomes and cardioprotection - A critical analysis. 2018 , 60, 104-114	61
1060	MSC exosomes mediate cartilage repair by enhancing proliferation, attenuating apoptosis and modulating immune reactivity. 2018 , 156, 16-27	384
1059	Exosomes From Adipose-Derived Stem Cells Attenuate Adipose Inflammation and Obesity Through Polarizing M2 Macrophages and Beiging in White Adipose Tissue. 2018 , 67, 235-247	260
1058	Extracellular vesicles, exosomes and shedding vesicles in regenerative medicine - a new paradigm for tissue repair. 2017 , 6, 60-78	142
1057	Oxidative Stress in Mesenchymal Stem Cell Senescence: Regulation by Coding and Noncoding RNAs. 2018 , 29, 864-879	47
1056	Immune modulation by a cellular network of mesenchymal stem cells and breast cancer cell subsets: Implication for cancer therapy. 2018 , 326, 33-41	8
1055	Adiponectin/T-cadherin system enhances exosome biogenesis and decreases cellular ceramides by exosomal release. 2018 , 3,	68
1054	Extracellular Vesicles from Amnion-Derived Mesenchymal Stem Cells Ameliorate Hepatic Inflammation and Fibrosis in Rats. 2018 , 2018, 3212643	46
1053	Cell-Free Therapeutics From Components Secreted by Mesenchymal Stromal Cells as a Novel Class of Biopharmaceuticals. 2018 ,	8
1052	Traumatic Penumbra: Opportunities for Neuroprotective and Neurorestorative Processes. 2018 ,	2
1051	Adipose mesenchymal stem cells-derived exosomes attenuate retina degeneration of streptozotocin-induced diabetes in rabbits. 2018 , 7, 1849454418807827	47
1050	Exosomes exert cardioprotection in dystrophin-deficient cardiomyocytes via ERK1/2-p38/MAPK signaling. 2018 , 8, 16519	22
1049	Therapeutic potential of products derived from mesenchymal stem/stromal cells in pulmonary disease. 2018 , 19, 218	60

1048	Minimal information for studies of extracellular vesicles 2018 (MISEV2018): a position statement of the International Society for Extracellular Vesicles and update of the MISEV2014 guidelines. 2018 , 7, 1535750	3642
1047	Extracellular Vesicle-Mediated Immune Regulation of Tissue Remodeling and Angiogenesis After Myocardial Infarction. 2018 , 9, 2799	16
1046	Mesenchymal Stromal Cell-Derived Extracellular Vesicles Attenuate Dendritic Cell Maturation and Function. 2018 , 9, 2538	104
1045	The role of extracellular vesicles in biomineralisation: current perspective and application in regenerative medicine. 2018 , 9, 2041731418810130	26
1044	Extracellular Vesicles Released by Human Induced-Pluripotent Stem Cell-Derived Cardiomyocytes Promote Angiogenesis. 2018 , 9, 1794	30
1043	Different pro-angiogenic potential of γ -irradiated PBMC-derived secretome and its subfractions. 2018 , 8, 18016	22
1042	Osteogenic effect of bone marrow mesenchymal stem cell-derived exosomes on steroid-induced osteonecrosis of the femoral head. 2019 , 13, 45-55	42
1041	A potent immunomodulatory role of exosomes derived from mesenchymal stromal cells in preventing cGVHD. 2018 , 11, 135	72
1040	Roles and Regulation of Extracellular Vesicles in Cardiovascular Mineral Metabolism. 2018 , 5, 187	51
1039	Mesenchymal Stromal Cell Secretome: Influencing Therapeutic Potential by Cellular Pre-conditioning. 2018 , 9, 2837	203
1038	The Winding Road of Cardiac Regeneration-Stem Cell Omics in the Spotlight. 2018 , 7,	5
1037	A Role of Tumor-Released Exosomes in Paracrine Dissemination and Metastasis. 2018 , 19,	31
1036	Engineered Exosomes With Ischemic Myocardium-Targeting Peptide for Targeted Therapy in Myocardial Infarction. 2018 , 7, e008737	125
1035	Mesenchymal stem cells overexpressing IL-35: a novel immunosuppressive strategy and therapeutic target for inducing transplant tolerance. 2018 , 9, 254	12
1034	Exosomes derived from miR-92a-3p-overexpressing human mesenchymal stem cells enhance chondrogenesis and suppress cartilage degradation via targeting WNT5A. 2018 , 9, 247	181
1033	The potential role of exosomes in the diagnosis and therapy of ischemic diseases. 2018 , 20, 1204-1219	18
1032	Bioprocessing of Mesenchymal Stem Cells and Their Derivatives: Toward Cell-Free Therapeutics. 2018 , 2018, 9415367	73
1031	Extracellular vesicles: intelligent delivery strategies for therapeutic applications. 2018 , 289, 56-69	58

1030	Exosomes Derived From Mesenchymal Stromal Cells Pretreated With Advanced Glycation End Product-Bovine Serum Albumin Inhibit Calcification of Vascular Smooth Muscle Cells. 2018 , 9, 524	21
1029	Evaluation of the cardioprotective potential of extracellular vesicles - a systematic review and meta-analysis. 2018 , 8, 15702	23
1028	Exosomes in cancer: small vesicular transporters for cancer progression and metastasis, biomarkers in cancer therapeutics. 2018 , 6, e4763	39
1027	Endocytosis Pathways of Endothelial Cell Derived Exosomes. 2018 , 15, 5585-5590	16
1026	Extracellular Vesicles in Joint Disease and Therapy. 2018 , 9, 2575	21
1025	Precipitation with polyethylene glycol followed by washing and pelleting by ultracentrifugation enriches extracellular vesicles from tissue culture supernatants in small and large scales. 2018 , 7, 1528109	92
1024	Exosome Isolation: Cyclical Electrical Field Flow Fractionation in Low-Ionic-Strength Fluids. 2018 , 90, 12783-12790	27
1023	Potential Effects of MSC-Derived Exosomes in Neuroplasticity in Alzheimer's Disease. 2018 , 12, 317	75
1022	Stem cell-derived exosomes - an emerging tool for myocardial regeneration. 2018 , 10, 106-115	37
1021	MSC-derived exosomes promote proliferation and inhibit apoptosis of chondrocytes via lncRNA-KLF3-AS1/miR-206/GIT1 axis in osteoarthritis. 2018 , 17, 2411-2422	134
1020	Extracellular Vesicles: How Drug and Pathology Interfere With Their Biogenesis and Function. 2018 , 9, 1394	18
1019	Clinical Application of Mesenchymal Stem Cell-Derived Extracellular Vesicle-Based Therapeutics for Inflammatory Lung Diseases. 2018 , 7,	84
1018	NANOmetric BIO-Banked MSC-Derived Exosome (NANOBIOME) as a Novel Approach to Regenerative Medicine. 2018 , 7,	27
1017	Mesenchymal Stem Cell-Derived Exosomes Reduce A1 Astrocytes via Downregulation of Phosphorylated NFB P65 Subunit in Spinal Cord Injury. 2018 , 50, 1535-1559	93
1016	Using Stem Cell-Derived Microvesicles in Regenerative Medicine: A New Paradigm for Cell-Based-Cell-Free Therapy. 2018 , 3-16	
1015	Immune regulatory targets of mesenchymal stromal cell exosomes/small extracellular vesicles in tissue regeneration. 2018 , 20, 1419-1426	33
1014	Towards rationally designed biomanufacturing of therapeutic extracellular vesicles: impact of the bioproduction microenvironment. 2018 , 36, 2051-2059	51
1013	Therapeutic Potential of Mesenchymal Cell-Derived miRNA-150-5p-Expressing Exosomes in Rheumatoid Arthritis Mediated by the Modulation of MMP14 and VEGF. 2018 , 201, 2472-2482	122

1012	Thermoresponsive Gel Embedded with Adipose Stem-Cell-Derived Extracellular Vesicles Promotes Esophageal Fistula Healing in a Thermo-Actuated Delivery Strategy. 2018 , 12, 9800-9814	43
1011	Extracellular vesicles from pluripotent stem cell-derived mesenchymal stem cells acquire a stromal modulatory proteomic pattern during differentiation. 2018 , 50, 1-12	31
1010	Analysis of differentially expressed microRNA of TNF- β -stimulated mesenchymal stem cells and exosomes from their culture supernatant. 2018 , 14, 1102-1111	17
1009	Effects of Mesenchymal Stem Cell-Derived Exosomes on Angiogenesis in Regenerative Medicine. 2018 , 7, 46-53	4
1008	Exosome Research and Co-culture Study. 2018 , 41, 1311-1321	15
1007	Macrophage Immunomodulation: The Gatekeeper for Mesenchymal Stem Cell Derived-Exosomes in Pulmonary Arterial Hypertension?. 2018 , 19,	34
1006	Exosomes Derived from miR-214-Enriched Bone Marrow-Derived Mesenchymal Stem Cells Regulate Oxidative Damage in Cardiac Stem Cells by Targeting CaMKII. 2018 , 2018, 4971261	55
1005	Therapeutic Potential of Mesenchymal Stem Cell-Derived Exosomes in the Treatment of Eye Diseases. 2018 , 1089, 47-57	45
1004	Lipid, Protein, and MicroRNA Composition Within Mesenchymal Stem Cell-Derived Exosomes. 2018 , 20, 178-186	59
1003	Adipose-derived mesenchymal stem cells release microvesicles with procoagulant activity. 2018 , 100, 49-53	13
1002	Endogenous Radionanomedicine: Extracellular Vesicles. 2018 , 127-140	1
1001	Endogenous Radionanomedicine: Validation of Therapeutic Potential. 2018 , 167-182	1
1000	A Novel Secretory Vesicle from Deer Antlerogenic Mesenchymal Stem Cell-Conditioned Media (DaMSC-CM) Promotes Tissue Regeneration. 2018 , 2018, 3891404	7
999	The Amniotic Fluid Stem Cell Secretome. 2018 , 21-37	
998	Therapeutic Effect of Extracellular Vesicles Derived From Adult/Perinatal Human Mesenchymal Stem Cells. 2018 , 201-215	1
997	Regeneration of Anti-Hypoxic Myocardial Cells by Transduction of Mesenchymal Stem Cell-Derived Exosomes Containing Tat-Metallothionein Fusion Proteins. 2018 , 26, 709-716	1
996	Plasma exosomes regulate systemic blood pressure in rats. 2018 , 503, 776-783	28
995	Emerging roles of extracellular vesicles in cardiac repair and rejuvenation. 2018 , 315, H733-H744	24

994	Imaging of extracellular vesicles derived from human bone marrow mesenchymal stem cells using fluorescent and magnetic labels. 2018 , 13, 1653-1664	40
993	Revisiting the Advances in Isolation, Characterization and Secretome of Adipose-Derived Stromal/Stem Cells. 2018 , 19,	49
992	Exosomes of Endothelial Progenitor Cells Inhibit Neointima Formation After Carotid Artery Injury. 2018 , 232, 398-407	19
991	Exosomes and cardiovascular cell-cell communication. 2018 , 62, 193-204	19
990	Mesenchymal Stem Cell-Derived Small Extracellular Vesicles Promote Neuroprotection in Rodent Models of Glaucoma. 2018 , 59, 702-714	54
989	Stem Cell-Derived Exosome in Cardiovascular Diseases: Macro Roles of Micro Particles. 2018 , 9, 547	52
988	Mitochondria in Cardiac Postconditioning. 2018 , 9, 287	14
987	Cartilage Regeneration in Humans with Adipose Tissue-Derived Stem Cells and Adipose Stromal Vascular Fraction Cells: Updated Status. 2018 , 19,	34
986	Immunological and non-immunological effects of stem cell-derived extracellular vesicles on the ischaemic brain. 2018 , 11, 1756286418789326	22
985	Exosome Theranostics: Biology and Translational Medicine. 2018 , 8, 237-255	371
984	Future Perspectives on the Role of Stem Cells and Extracellular Vesicles in Vascular Tissue Regeneration. 2018 , 5, 86	28
983	Mesenchymal Stromal Cells and Their Extracellular Vesicles Enhance the Anti-Inflammatory Phenotype of Regulatory Macrophages by Downregulating the Production of Interleukin (IL)-23 and IL-22. 2018 , 9, 771	50
982	Recent Advances: Decoding Alzheimer's Disease With Stem Cells. 2018 , 10, 77	22
981	Exosomes from acellular Wharton's jelly of the human umbilical cord promotes skin wound healing. 2018 , 9, 193	38
980	MSC exosome works through a protein-based mechanism of action. 2018 , 46, 843-853	137
979	Extracellular Vesicles Derived from Hypoxic Human Mesenchymal Stem Cells Attenuate GSK3 β Expression via miRNA-26a in an Ischemia-Reperfusion Injury Model. 2018 , 59, 736-745	39
978	Three-Dimensional Spheroid Culture Increases Exosome Secretion from Mesenchymal Stem Cells. 2018 , 15, 427-436	47
977	Bone marrow mesenchymal stem cells reduce ureteral stricture formation in a rat model via the paracrine effect of extracellular vesicles. 2018 , 22, 4449-4459	22

976	Exosomes secreted by adipose-derived mesenchymal stem cells regulate type I collagen metabolism in fibroblasts from women with stress urinary incontinence. 2018 , 9, 159	25
975	Mesenchymal Stromal/stem Cell-derived Extracellular Vesicles Promote Human Cartilage Regeneration. 2018 , 8, 906-920	162
974	Mesenchymal stromal cells attenuate sevoflurane-induced apoptosis in human neuroglioma H4 cells. 2018 , 18, 84	7
973	Intermediate filaments in cardiomyopathy. 2018 , 10, 1007-1031	33
972	Targeting miRNA for Therapy of Juvenile and Adult Diabetic Cardiomyopathy. 2018 , 1056, 47-59	10
971	Human umbilical cord mesenchymal stem cell conditioned medium attenuates renal fibrosis by reducing inflammation and epithelial-to-mesenchymal transition via the TLR4/NF- κ B signaling pathway in vivo and in vitro. 2018 , 9, 7	62
970	Nanovesicles from adipose-derived mesenchymal stem cells inhibit T lymphocyte trafficking and ameliorate chronic experimental autoimmune encephalomyelitis. 2018 , 8, 7473	36
969	Mesenchymal Stem Cell Microvesicles Restore Protein Permeability Across Primary Cultures of Injured Human Lung Microvascular Endothelial Cells. 2018 , 7, 615-624	59
968	Enhanced Therapeutic Effects of Mesenchymal Stem Cell-Derived Exosomes with an Injectable Hydrogel for Hindlimb Ischemia Treatment. 2018 , 10, 30081-30091	165
967	Role of White Blood Cells in Blood- and Bone Marrow-Based Autologous Therapies. 2018 , 2018, 6510842	17
966	Stem cell and gene-based approaches for cardiac repair. 2018 , 31-96	0
965	Advances of exosome in the development of ovarian cancer and its diagnostic and therapeutic prospect. 2018 , 11, 2831-2841	20
964	Exosomes: Basic Biology and Technological Advancements Suggesting Their Potential as Ischemic Heart Disease Therapeutics. 2018 , 9, 1159	29
963	The potential theragnostic (diagnostic+therapeutic) application of exosomes in diverse biomedical fields. 2018 , 22, 113-125	23
962	Single-Vesicle Assays Using Liposomes and Cell-Derived Vesicles: From Modeling Complex Membrane Processes to Synthetic Biology and Biomedical Applications. 2018 , 118, 8598-8654	74
961	Mesenchymal Stem Cell Derived Exosomes in Cancer Progression, Metastasis and Drug Delivery: A Comprehensive Review. 2018 , 9, 3129-3137	56
960	Secretome within the bone marrow microenvironment: A basis for mesenchymal stem cell treatment and role in cancer dormancy. 2018 , 155, 92-103	17
959	Examining the Paracrine Effects of Exosomes in Cardiovascular Disease and Repair. 2018 , 7,	48

958	Possibility of Exosome-Based Therapeutics and Challenges in Production of Exosomes Eligible for Therapeutic Application. 2018 , 41, 835-842	137
957	Intravenously delivered mesenchymal stem cell-derived exosomes target M2-type macrophages in the injured spinal cord. 2018 , 13, e0190358	114
956	Bone marrow mesenchymal stem cell-derived exosomal miR-21 protects C-kit ⁺ cardiac stem cells from oxidative injury through the PTEN/PI3K/Akt axis. 2018 , 13, e0191616	69
955	Engineered exosomes: A new promise for the management of musculoskeletal diseases. 2018 , 1862, 1893-1901	27
954	Methods and Technologies for Exosome Isolation and Characterization. 2018 , 2, 1800021	56
953	Age-Related Impaired Efficacy of Bone Marrow Cell Therapy for Myocardial Infarction Reflects a Decrease in B Lymphocytes. 2018 , 26, 1685-1693	3
952	GATA-4-expressing mouse bone marrow mesenchymal stem cells improve cardiac function after myocardial infarction via secreted exosomes. 2018 , 8, 9047	38
951	Therapeutic effects of human mesenchymal stem cell microvesicles in an ex vivo perfused human lung injured with severe pneumonia. 2019 , 74, 43-50	108
950	Effect of Exosomes from Rat Adipose-Derived Mesenchymal Stem Cells on Neurite Outgrowth and Sciatic Nerve Regeneration After Crush Injury. 2019 , 56, 1812-1824	93
949	Scientific Basis for Stem Cell Therapy. 2019 , 715-726	
948	The synergistic effect of electroacupuncture and bone mesenchymal stem cell transplantation on repairing thin endometrial injury in rats. 2019 , 10, 244	19
947	Stem Cell Transplantation for Autoimmune Diseases and Inflammation. 2019 ,	1
946	Biophysical Characterization and Drug Delivery Potential of Exosomes from Human Wharton's Jelly-Derived Mesenchymal Stem Cells. 2019 , 4, 13143-13152	15
945	The Challenges and Possibilities of Extracellular Vesicles as Therapeutic Vehicles. 2019 , 144, 50-56	27
944	Brief update on endocytosis of nanomedicines. 2019 , 144, 90-111	134
943	Bone marrow mesenchymal stem cell-derived exosome uptake and retrograde transport can occur at peripheral nerve endings. 2019 , 47, 2918-2929	13
942	Urine-Derived Stem Cells Facilitate Endogenous Spermatogenesis Restoration of Busulfan-Induced Nonobstructive Azoospermic Mice by Paracrine Exosomes. 2019 , 28, 1322-1333	15
941	Exosomes and non-coding RNA, the healers of the heart?. 2020 , 116, 258-259	3

940	Biological Function of Exosomes as Diagnostic Markers and Therapeutic Delivery Vehicles in Carcinogenesis and Infectious Diseases. 2019,	13
939	Personalized medicine: From diagnostic to adaptive.. 2022, 45, 132-142	2
938	New insight into isolation, identification techniques and medical applications of exosomes. 2019, 308, 119-129	74
937	Extracellular Vesicles in Cardiovascular Diseases: Alternative Biomarker Sources, Therapeutic Agents, and Drug Delivery Carriers. 2019, 20,	53
936	Functional Biomolecule Delivery Systems and Bioengineering in Cartilage Regeneration. 2019, 20, 32-46	18
935	Recent advances in microfluidic methods in cancer liquid biopsy. 2019, 13, 041503	26
934	Immunoregulatory role of exosomes derived from differentiating mesenchymal stromal cells on inflammation and osteogenesis. 2019, 13, 1978-1991	23
933	Extracellular Vesicles Promote Arteriogenesis in Chronically Ischemic Myocardium in the Setting of Metabolic Syndrome. 2019, 8, e012617	13
932	Exosomes of stem cells from human exfoliated deciduous teeth as an anti-inflammatory agent in temporomandibular joint chondrocytes via miR-100-5p/mTOR. 2019, 10, 216	40
931	Ischemia Reperfusion Injury: Mechanisms of Damage/Protection and Novel Strategies for Cardiac Recovery/Regeneration. 2019, 20,	33
930	Mesenchymal stem cell-derived extracellular vesicles improve the molecular phenotype of isolated rat lungs during ischemia/reperfusion injury. 2019, 38, 1306-1316	23
929	Combinatorial treatment of acute myocardial infarction using stem cells and their derived exosomes resulted in improved heart performance. 2019, 10, 300	60
928	Potential Mechanisms Underlying Therapeutic Benefits of Stem Cell for Heart Failure. 2019, 09, 1941004	
927	The State of Exosomes Research: A Global Visualized Analysis. 2019, 2019, 1495130	18
926	MicroRNA-21 Mediates the Protective Effect of Cardiomyocyte-Derived Conditioned Medium on Ameliorating Myocardial Infarction in Rats. 2019, 8,	19
925	Exosomes Released by Bone Marrow Mesenchymal Stem Cells Attenuate Lung Injury Induced by Intestinal Ischemia Reperfusion via the TLR4/NF- κ B Pathway. 2019, 16, 1238-1244	44
924	Exosomal non-coding RNAs (Exo-ncRNAs) in cardiovascular health. 2019, 137, 143-151	12
923	Application of "Primed" Mesenchymal Stromal Cells in Hematopoietic Stem Cell Transplantation: Current Status and Future Prospects. 2019, 28, 1473-1479	12

922	Exosomes: Biogenesis, Composition, Functions, and Their Role in Pre-metastatic Niche Formation. 2019 , 24, 689-701	27
921	Optically Transparent Anionic Nanofibrillar Cellulose Is Cytocompatible with Human Adipose Tissue-Derived Stem Cells and Allows Simple Imaging in 3D. 2019 , 2019, 3106929	12
920	Targeting the Immune System With Mesenchymal Stromal Cell-Derived Extracellular Vesicles: What Is the Cargo's Mechanism of Action?. 2019 , 7, 308	23
919	Fabrication of Cell-Derived Biomimetic Drug Delivery System. 2019 , 5, 1-18	4
918	Exosomes derived from pro-inflammatory bone marrow-derived mesenchymal stem cells reduce inflammation and myocardial injury via mediating macrophage polarization. 2019 , 23, 7617-7631	89
917	Maintenance and Acceleration of Pericellular Matrix Formation within 3D Cartilage Cell Culture Models. 2019 , 1947603519870839	3
916	Extracellular vesicles-based drug delivery system for cancer treatment. 2019 , 6, 1635806	30
915	Exosomes in the Repair of Bone Defects: Next-Generation Therapeutic Tools for the Treatment of Nonunion. 2019 , 2019, 1983131	13
914	Stem cell derived exosomes: microRNA therapy for age-related musculoskeletal disorders. 2019 , 224, 119492	28
913	MSC-Derived Exosomes-Based Therapy for Peripheral Nerve Injury: A Novel Therapeutic Strategy. 2019 , 2019, 6458237	50
912	MiR-21 derived from the exosomes of MSCs regulates the death and differentiation of neurons in patients with spinal cord injury. 2019 , 26, 491-503	26
911	Stem Cells, Cell Therapies, and Bioengineering in Lung Biology and Diseases 2017. An Official American Thoracic Society Workshop Report. 2019 , 61, 429-439	7
910	Enhancement of therapeutic potential of mesenchymal stem cell-derived extracellular vesicles. 2019 , 10, 288	106
909	Systematic characterization of extracellular vesicle sorting domains and quantification at the single molecule - single vesicle level by fluorescence correlation spectroscopy and single particle imaging. 2019 , 8, 1663043	51
908	Bone marrow mesenchymal stem cell-derived exosomes protect against myocardial infarction by promoting autophagy. 2019 , 18, 2574-2582	25
907	Dielectrophoretic manipulation of exosomes in a multi-section microfluidic device. 2019 , 13, 332-340	8
906	Exosomes from human umbilical cord mesenchymal stem cells enhance fracture healing through HIF-1 β -mediated promotion of angiogenesis in a rat model of stabilized fracture. 2019 , 52, e12570	88
905	Exosomal Expression of CXCR4 Targets Cardioprotective Vesicles to Myocardial Infarction and Improves Outcome after Systemic Administration. 2019 , 20,	46

904	Manufacturing of primed mesenchymal stromal cells for therapy. 2019 , 3, 90-104	126
903	Macrophage Assay Predicts the Anti-inflammatory Potential of Exosomes from Human Mesenchymal Stromal Cells. 2019 , 13, 67-76	26
902	Mesenchymal Stem Cell Therapy for Osteoarthritis: The Critical Role of the Cell Secretome. 2019 , 7, 9	92
901	Stem cell exosomes inhibit angiogenesis and tumor growth of oral squamous cell carcinoma. 2019 , 9, 663	56
900	Functional recovery in photo-damaged human dermal fibroblasts by human adipose-derived stem cell extracellular vesicles. 2019 , 8, 1565885	29
899	Mesenchymal stromal cells-derived exosomes alleviate ischemia/reperfusion injury in mouse lung by transporting anti-apoptotic miR-21-5p. 2019 , 852, 68-76	76
898	The Contribution of the 20S Proteasome to Proteostasis. 2019 , 9,	54
897	Mesenchymal stem cell therapy for the treatment of traumatic brain injury: progress and prospects. 2019 , 30, 839-855	30
896	Conditioned medium of mesenchymal stem cells delays osteoarthritis progression in a rat model by protecting subchondral bone, maintaining matrix homeostasis, and enhancing autophagy. 2019 , 13, 1618-1628 ³⁰	30
895	The Necrobiology of Mesenchymal Stromal Cells Affects Therapeutic Efficacy. 2019 , 10, 1228	39
894	Nomenclature and heterogeneity: consequences for the use of mesenchymal stem cells in regenerative medicine. 2019 , 14, 595-611	36
893	Cardioprotective role of extracellular vesicles: A highlight on exosome beneficial effects in cardiovascular diseases. 2019 , 234, 21732-21745	43
892	Exosomes Secreted by Stem Cells from Human Exfoliated Deciduous Teeth Promote Alveolar Bone Defect Repair through the Regulation of Angiogenesis and Osteogenesis. 2019 , 5, 3561-3571	23
891	Biodistribution of gadolinium- and near infrared-labeled human umbilical cord mesenchymal stromal cell-derived exosomes in tumor bearing mice. 2019 , 9, 2325-2345	50
890	Therapeutic angiogenesis using stem cell-derived extracellular vesicles: an emerging approach for treatment of ischemic diseases. 2019 , 10, 158	45
889	The Incorporation of Extracellular Vesicles from Mesenchymal Stromal Cells Into CD34 Cells Increases Their Clonogenic Capacity and Bone Marrow Lodging Ability. 2019 , 37, 1357-1368	9
888	Exosomes Derived from TIMP2-Modified Human Umbilical Cord Mesenchymal Stem Cells Enhance the Repair Effect in Rat Model with Myocardial Infarction Possibly by the Akt/Sfrp2 Pathway. 2019 , 2019, 1958941	46
887	Exosomes from Human Gingiva-Derived Mesenchymal Stem Cells Combined with Biodegradable Chitin Conduits Promote Rat Sciatic Nerve Regeneration. 2019 , 2019, 2546367	42

886	Cell Biology and Translational Medicine, Volume 5. 2019 ,	1
885	Preliminary Characterization of Extracellular Vesicles From Auditory HEI-OC1 Cells. 2019 , 128, 52S-60S	6
884	Atorvastatin enhances the therapeutic efficacy of mesenchymal stem cells-derived exosomes in acute myocardial infarction via up-regulating long non-coding RNA H19. 2020 , 116, 353-367	110
883	Molecular Mechanisms Responsible for Therapeutic Potential of Mesenchymal Stem Cell-Derived Secretome. 2019 , 8,	165
882	Mesenchymal Stem Cells Modulate the Immune System in Developing Therapeutic Interventions. 2019 ,	13
881	Advances in therapeutic applications of extracellular vesicles. 2019 , 11,	343
880	Basics and applications of tumor-derived extracellular vesicles. 2019 , 26, 35	27
879	Therapeutic Potential of Extracellular Vesicles for the Treatment of Nerve Disorders. 2019 , 13, 163	45
878	Individual Immune-Modulatory Capabilities of MSC-Derived Extracellular Vesicle (EV) Preparations and Recipient-Dependent Responsiveness. 2019 , 20,	16
877	Conditioned Medium from Human Mesenchymal Stromal Cells: Towards the Clinical Translation. 2019 , 20,	46
876	Potential of stem cell-derived exosomes to regenerate β islets through Pdx-1 dependent mechanism in a rat model of type 1 diabetes. 2019 , 234, 20310-20321	36
875	Microfluidic Approaches Toward the Isolation and Detection of Exosome Nanovesicles. 2019 , 7, 45080-45098	14
874	Extracellular Vesicles as Biological Shuttles for Targeted Therapies. 2019 , 20,	44
873	Extracellular vesicles derived from bone marrow mesenchymal stem cells attenuate dextran sodium sulfate-induced ulcerative colitis by promoting M2 macrophage polarization. 2019 , 72, 264-274	46
872	Exosomes Derived From Pericytes Improve Microcirculation and Protect Blood-Spinal Cord Barrier After Spinal Cord Injury in Mice. 2019 , 13, 319	44
871	Rescue of degenerating neurons and cells by stem cell released molecules: using a physiological renormalization strategy. 2019 , 7, e14072	7
870	Exosomal miR-301 derived from mesenchymal stem cells protects myocardial infarction by inhibiting myocardial autophagy. 2019 , 514, 323-328	32
869	Human umbilical cord mesenchymal stem cells derived exosomes exert antiapoptosis effect via activating PI3K/Akt/mTOR pathway on H9C2 cells. 2019 , 120, 14455-14464	38

868	Review of the Isolation, Characterization, Biological Function, and Multifarious Therapeutic Approaches of Exosomes. 2019 , 8,	386
867	Adaptive Neural Funnel Control for Nonlinear Two-Inertia Servo Mechanisms With Backlash. 2019 , 7, 33338-33345	4
866	Regenerative Cardiovascular Therapies: Stem Cells and Beyond. 2019 , 20,	31
865	Exosomes Derived from Human Umbilical Cord Mesenchymal Stem Cells Promote Fibroblast-to-Myofibroblast Differentiation in Inflammatory Environments and Benefit Cardioprotective Effects. 2019 , 28, 799-811	17
864	Extracellular vesicles in bone and tooth: A state-of-art paradigm in skeletal regeneration. 2019 , 234, 14838	4
863	Bone marrow mesenchymal stem cell-derived exosomes alleviate high phosphorus-induced vascular smooth muscle cells calcification by modifying microRNA profiles. 2019 , 19, 633-643	21
862	Exosomes: biogenesis, biologic function and clinical potential. 2019 , 9, 19	578
861	Enhancement of Functionality and Therapeutic Efficacy of Cell-Based Therapy Using Mesenchymal Stem Cells for Cardiovascular Disease. 2019 , 20,	31
860	Beneficial effects of mesenchymal stem cell delivery via a novel cardiac bioscaffold on right ventricles of pulmonary arterial hypertensive rats. 2019 , 316, H1005-H1013	13
859	Cardioprotective microRNAs: Lessons from stem cell-derived exosomal microRNAs to treat cardiovascular disease. 2019 , 285, 1-9	93
858	Harnessing the mesenchymal stem cell secretome for regenerative urology. 2019 , 16, 363-375	33
857	Extracellular Vesicles from Mesenchymal Stem Cells Exert Pleiotropic Effects on Amyloid- β Inflammation, and Regeneration: A Spark of Hope for Alzheimer's Disease from Tiny Structures?. 2019 , 41, e1800199	18
856	Exosomes secreted by urine-derived stem cells improve stress urinary incontinence by promoting repair of pubococcygeus muscle injury in rats. 2019 , 10, 80	29
855	Mesenchymal stem cell exosomes enhance periodontal ligament cell functions and promote periodontal regeneration. 2019 , 89, 252-264	87
854	Perinatal Stem Cells. 2019 ,	1
853	Extracellular Vesicles as Diagnostics and Therapeutics for Structural Epilepsies. 2019 , 20,	12
852	Extracellular vesicle-based therapeutics: natural versus engineered targeting and trafficking. 2019 , 51, 1-12	224
851	Regenerative Medicine: A Review of the Evolution of Autologous Chondrocyte Implantation (ACI) Therapy. 2019 , 6,	56

850	Stem Cell-Derived Exosomes Prevent Aging-Induced Cardiac Dysfunction through a Novel Exosome/lncRNA MALAT1/NF-B/TNF- Signaling Pathway. 2019 , 2019, 9739258	45
849	Self-assembling peptide modified with QHREDGS as a novel delivery system for mesenchymal stem cell transplantation after myocardial infarction. 2019 , 33, 8306-8320	18
848	Exosomes derived from human dermal papilla cells promote hair growth in cultured human hair follicles and augment the hair-inductive capacity of cultured dermal papilla spheres. 2019 , 28, 854-857	42
847	Perspective in Nuclear Theranostics Using Exosome for the Brain. 2019 , 53, 108-114	2
846	Secretome of Mesenchymal Stem Cells and Its Potential Protective Effects on Brain Pathologies. 2019 , 56, 6902-6927	23
845	Proangiogenic Features of Perinatal Tissue-Derived Stem Cells in Cardiovascular Disease Therapy. 2019 , 121-139	
844	Bone marrow mesenchymal stem cells-derived conditioned medium protects cardiomyocytes from hypoxia/reoxygenation-induced injury through Notch2/mTOR/autophagy signaling. 2019 , 234, 18906-18916	15
843	Exosomes from adipose-derived mesenchymal stem cells prevent cardiomyocyte apoptosis induced by oxidative stress. 2019 , 5, 79	49
842	Extracellular Vesicle-Educated Macrophages Promote Early Achilles Tendon Healing. 2019 , 37, 652-662	73
841	Mesenchymal Stem Cells-derived Exosomes: A New Possible Therapeutic Strategy for Parkinson's Disease?. 2019 , 8,	54
840	Mitochondrial Dysfunction and Aging: Insights from the Analysis of Extracellular Vesicles. 2019 , 20,	62
839	Exosomes of bone-marrow stromal cells inhibit cardiomyocyte apoptosis under ischemic and hypoxic conditions via miR-486-5p targeting the PTEN/PI3K/AKT signaling pathway. 2019 , 177, 23-32	65
838	The MicroRNA Family Both in Normal Development and in Different Diseases: The miR-17-92 Cluster. 2019 , 2019, 9450240	16
837	Stem Cell-Derived Extracellular Vesicles for Treating Joint Injury and Osteoarthritis. 2019 , 9,	36
836	A Novel Virtue in Stem Cell Research: Exosomes and Their Role in Differentiation. 2019 , 1144, 133-146	2
835	Exploring the roles of MSCs in infections: focus on bacterial diseases. 2019 , 97, 437-450	29
834	Exosomes derived from mesenchymal stem cells attenuate the progression of atherosclerosis in ApoE mice via miR-let7 mediated infiltration and polarization of M2 macrophage. 2019 , 510, 565-572	82
833	MSC exosomes alleviate temporomandibular joint osteoarthritis by attenuating inflammation and restoring matrix homeostasis. 2019 , 200, 35-47	171

832	Stem cell therapy: A novel approach for myocardial infarction. 2019 , 234, 16904-16912	17
831	Interplay between Exosomes and Autophagy in Cardiovascular Diseases: Novel Promising Target for Diagnostic and Therapeutic Application. 2019 , 10, 1302-1310	20
830	Paracrine Mechanisms of Redox Signalling for Postmitotic Cell and Tissue Regeneration. 2019 , 29, 514-530	11
829	Raman spectroscopy as a quick tool to assess purity of extracellular vesicle preparations and predict their functionality. 2019 , 8, 1568780	46
828	Exosomes derived from mesenchymal stem cells inhibit mitochondrial dysfunction-induced apoptosis of chondrocytes via p38, ERK, and Akt pathways. 2019 , 55, 203-210	56
827	Size-dependent sub-proteome analysis of urinary exosomes. 2019 , 411, 4141-4149	3
826	Interorgan communication by exosomes, adipose tissue, and adiponectin in metabolic syndrome. 2019 , 129, 4041-4049	83
825	Paracrine Proangiogenic Function of Human Bone Marrow-Derived Mesenchymal Stem Cells Is Not Affected by Chronic Kidney Disease. 2019 , 2019, 1232810	9
824	The Contrasting Role of Extracellular Vesicles in Vascular Inflammation and Tissue Repair. 2019 , 10, 1479	45
823	Protective effects of human umbilical cord blood-derived mesenchymal stem cells against dexamethasone-induced apoptotic cell death in hair follicles. 2020 , 45, 556-568	2
822	Marrow Fat-Secreted Factors as Biomarkers for Osteoporosis. 2019 , 17, 429-437	8
821	Mesenchymal stem cell-derived exosomes: a new therapeutic approach to osteoarthritis?. 2019 , 10, 340	113
820	Differentially expressed miRNAs in circulating exosomes between atrial fibrillation and sinus rhythm. 2019 , 11, 4337-4348	18
819	Conditioned Medium of Mesenchymal Stromal Cells: A New Class of Therapeutics. 2019 , 84, 1375-1389	25
818	Exosomes derived from platelet-rich plasma present a novel potential in alleviating knee osteoarthritis by promoting proliferation and inhibiting apoptosis of chondrocyte via Wnt/ β catenin signaling pathway. 2019 , 14, 470	38
817	Exposure to blue light stimulates the proangiogenic capability of exosomes derived from human umbilical cord mesenchymal stem cells. 2019 , 10, 358	27
816	Tissue Engineering in Oral and Maxillofacial Surgery. 2019 ,	
815	Exosomes from conditioned media of bone marrow-derived mesenchymal stem cells promote bone regeneration by enhancing angiogenesis. 2019 , 14, e0225472	73

814	Extracellular Vesicles-Connecting Kingdoms. 2019 , 20,	102
813	Stem Cell-Based Therapy for Lung Disease. 2019 ,	3
812	Therapeutic Application of Mesenchymal Stem Cells Derived Extracellular Vesicles for Immunomodulation. 2019 , 10, 2663	60
811	Sustained Delivery System for Stem Cell-Derived Exosomes. 2019 , 10, 1368	61
810	Mesenchymal Stem Cell-Derived Exosomes and Other Extracellular Vesicles as New Remedies in the Therapy of Inflammatory Diseases. 2019 , 8,	190
809	Addressing the Manufacturing Challenges of Cell-Based Therapies. 2020 , 171, 225-278	7
808	Exosomes Are Comparable to Source Adipose Stem Cells in Fat Graft Retention with Up-Regulating Early Inflammation and Angiogenesis. 2019 , 144, 816e-827e	30
807	Advanced liquid biopsy technologies for circulating biomarker detection. 2019 , 7, 6670-6704	74
806	Exosomes in Cancer: Circulating Immune-Related Biomarkers. 2019 , 2019, 1628029	24
805	Membrane lipids define small extracellular vesicle subtypes secreted by mesenchymal stromal cells. 2019 , 60, 318-322	11
804	New Insights into the Role of Exosomes in the Heart After Myocardial Infarction. 2019 , 12, 18-27	19
803	Exosomes: The next generation of endogenous nanomaterials for advanced drug delivery and therapy. 2019 , 86, 1-14	148
802	Extracellular micro/nanovesicles rescue kidney from ischemia-reperfusion injury. 2019 , 234, 12290-12300	17
801	Noncoding RNAs regulating cardiac muscle mass. 2019 , 127, 633-644	6
800	Screening of key candidate genes and pathways for osteocytes involved in the differential response to different types of mechanical stimulation using a bioinformatics analysis. 2019 , 37, 614-626	3
799	Proteomic Signature of Mesenchymal Stromal Cell-Derived Small Extracellular Vesicles. 2019 , 19, e1800163	45
798	In Vitro Wound Healing Activity of Wheat-Derived Nanovesicles. 2019 , 188, 381-394	20
797	Exosomes Derived from Human Primed Mesenchymal Stem Cells Induce Mitosis and Potentiate Growth Factor Secretion. 2019 , 28, 398-409	25

796	On the Choice of the Extracellular Vesicles for Therapeutic Purposes. 2019 , 20,	53
795	The therapeutic and diagnostic role of exosomes in cardiovascular diseases. 2019 , 29, 313-323	62
794	Immunomodulation by Exosomes in Myocardial Infarction. 2019 , 12, 28-36	21
793	Exosomes in tuberculosis: Still terra incognita?. 2019 , 234, 2104-2111	9
792	Exosomes in perspective: a potential surrogate for stem cell therapy. 2019 , 107, 271-284	32
791	Human Fetal Liver Mesenchymal Stem Cell-Derived Exosomes Impair Natural Killer Cell Function. 2019 , 28, 44-55	42
790	MicroRNAs in the Migration of Mesenchymal Stem Cells. 2019 , 15, 3-12	11
789	The clinical impact of exosomes in cardiovascular disorders: From basic science to clinical application. 2019 , 234, 12226-12236	13
788	Exosomes as a novel cell-free therapeutic approach in gastrointestinal diseases. 2019 , 234, 9910-9926	24
787	Mesenchymal stromal cell therapy: progress in manufacturing and assessments of potency. 2019 , 21, 289-306	56
786	Downregulated microRNA-330 suppresses left ventricular remodeling via the TGF- β /Smad3 signaling pathway by targeting SRY in mice with myocardial ischemia-reperfusion injury. 2019 , 234, 11440-11450	50
785	Exosomes from mesenchymal stem cells expressing miR-125b inhibit neointimal hyperplasia via myosin I α . 2019 , 23, 1528-1540	23
784	Guided evaluation and standardisation of mesenchymal stem cell culture conditions to generate conditioned medium favourable to cardiac c-kit cell growth. 2019 , 375, 383-396	1
783	Exosomes and their importance in metastasis, diagnosis, and therapy of colorectal cancer. 2018 , 120, 2671	34
782	Myocardial Infarction. 2019 , 223-249	
781	A comparison of clinically relevant sources of mesenchymal stem cell-derived exosomes: Bone marrow and amniotic fluid. 2019 , 54, 86-90	25
780	The Exosome: a New Player in Diabetic Cardiomyopathy. 2019 , 12, 62-67	9
779	Mesenchymal Stem Cell-Derived Exosomes Provide Neuroprotection and Improve Long-Term Neurologic Outcomes in a Swine Model of Traumatic Brain Injury and Hemorrhagic Shock. 2019 , 36, 54-60	65

778	Exosomal biomarkers in oral diseases. 2019 , 25, 10-15	9
777	Autophagy: a potential key contributor to the therapeutic action of mesenchymal stem cells. 2020 , 16, 28-37	36
776	Mesenchymal Stem Cell (MSC)-Derived Extracellular Vesicles: Potential Therapeutics as MSC Trophic Mediators in Regenerative Medicine. 2020 , 303, 1735-1742	13
775	Comparison of the therapeutic effect of amniotic fluid stem cells and their exosomes on monoiodoacetate-induced animal model of osteoarthritis. 2020 , 46, 106-117	43
774	Exosomes as intercellular communication messengers for cardiovascular and cerebrovascular diseases. 2020 , 199-238	3
773	Extracellular vesicles in fibrotic diseases: New applications for fibrosis diagnosis and treatment. 2020 , 307-323	
772	Mesenchymal stromal cell-derived extracellular vesicles for regenerative therapy and immune modulation: Progress and challenges toward clinical application. 2020 , 9, 39-46	41
771	Knockout of beta-2 microglobulin enhances cardiac repair by modulating exosome imprinting and inhibiting stem cell-induced immune rejection. 2020 , 77, 937-952	23
770	Effect of miR-499a-5p on damage of cardiomyocyte induced by hypoxia-reoxygenation via downregulating CD38 protein. 2020 , 121, 996-1004	5
769	Therapeutic potential of mesenchymal stem/stromal cell-derived secretome and vesicles for lung injury and disease. 2020 , 20, 125-140	25
768	MiR-20a-containing exosomes from umbilical cord mesenchymal stem cells alleviates liver ischemia/reperfusion injury. 2020 , 235, 3698-3710	39
767	An overview of current knowledge in biological functions and potential theragnostic applications of exosomes. 2020 , 226, 104836	24
766	Exosomes: Current use and future applications. 2020 , 500, 226-232	49
765	Broadband Filtering Magneto-electronic Dipole Antenna With Quasi-Elliptic Gain Response. 2020 , 68, 3225-3230	15
764	Extracellular vesicles as a novel therapeutic tool for cell-free regenerative medicine in oral rehabilitation. 2020 , 47 Suppl 1, 29-54	6
763	MSC-exosomes in regenerative medicine. 2020 , 433-465	3
762	Infarct Zone: a Novel Platform for Exosome Trade in Cardiac Tissue Regeneration. 2020 , 13, 686-701	10
761	Immunoregulatory properties of mesenchymal stem cells: Micro-RNAs. 2020 , 219, 34-45	8

760	Methods for loading therapeutics into extracellular vesicles and generating extracellular vesicles mimetic-nanovesicles. 2020 , 177, 103-113	30
759	Small extracellular vesicles from rat plasma promote migration and proliferation of vascular smooth muscle cells. 2020 , 82, 299-306	2
758	CXCR2 specific endocytosis of immunomodulatory peptide LL-37 in human monocytes and formation of LL-37 positive large vesicles in differentiated monoosteophils. 2020 , 12, 100237	4
757	Therapeutic effects of mesenchymal stem cell-derived exosomes on retinal detachment. 2020 , 191, 107899	30
756	Knockout of beta-2 microglobulin reduces stem cell-induced immune rejection and enhances ischaemic hindlimb repair via exosome/miR-24/Bim pathway. 2020 , 24, 695-710	14
755	Extracellular blebs: Artificially-induced extracellular vesicles for facile production and clinical translation. 2020 , 177, 135-145	12
754	Essential Current Concepts in Stem Cell Biology. 2020 ,	0
753	Human ucMSCs seeded in a decellularized kidney scaffold attenuate renal fibrosis by reducing epithelial-mesenchymal transition via the TGF- β /Smad signaling pathway. 2020 , 88, 192-201	1
752	Biomimetic cell-derived nanocarriers for modulating immune responses. 2020 , 8, 530-543	13
751	Extracellular vesicles and their roles in stem cell biology. 2020 , 38, 469-476	20
750	Evaluating nuclear translocation of surface receptors: recommendations arising from analysis of CD44. 2020 , 153, 77-87	6
749	The Unsettling Ambiguity of Therapeutic Extracellular Vesicles from Mesenchymal Stromal Cells. 2020 , 62, 539-540	2
748	Kartogenin enhances the therapeutic effect of bone marrow mesenchymal stem cells derived exosomes in cartilage repair. 2020 , 15, 273-288	27
747	Role of gingival mesenchymal stem cell exosomes in macrophage polarization under inflammatory conditions. 2020 , 81, 106030	26
746	Human bone mesenchymal stem cells-derived exosomes overexpressing microRNA-26a-5p alleviate osteoarthritis via down-regulation of PTGS2. 2020 , 78, 105946	75
745	Lights and Shadows in the Use of Mesenchymal Stem Cells in Lung Inflammation, a Poorly Investigated Topic in Cystic Fibrosis. 2019 , 9,	9
744	Conditioned Medium from Human Adipose-Derived Mesenchymal Stem Cell Culture Prevents UVB-Induced Skin Aging in Human Keratinocytes and Dermal Fibroblasts. 2019 , 21,	21
743	Bone marrow mesenchymal stem cell-secreted exosomes carrying microRNA-125b protect against myocardial ischemia reperfusion injury via targeting SIRT7. 2020 , 465, 103-114	49

742	MiR-29a in mesenchymal stem cells inhibits FSTL1 secretion and promotes cardiac myocyte apoptosis in hypoxia-reoxygenation injury. 2020 , 46, 107180	4
741	Administration of glycyrrhetic acid reinforces therapeutic effects of mesenchymal stem cell-derived exosome against acute liver ischemia-reperfusion injury. 2020 , 24, 11211-11220	6
740	Exosomes in disease and regeneration: biological functions, diagnostics, and beneficial effects. 2020 , 319, H1162-H1180	14
739	Mesenchymal Stem Cell-Derived Exosomes: A Potential Therapeutic Avenue in Knee Osteoarthritis. 2020 , 1947603520962567	6
738	UBA2 activates Wnt/ β -catenin signaling pathway during protection of R28 retinal precursor cells from hypoxia by extracellular vesicles derived from placental mesenchymal stem cells. 2020 , 11, 428	6
737	Cardiac Fibroblast-Induced Pluripotent Stem Cell-Derived Exosomes as a Potential Therapeutic Mean for Heart Failure. 2020 , 21,	7
736	Mesenchymal Stem Cells in Cardiac Repair: Effects on Myocytes, Vasculature, and Fibroblasts. 2020 , 42, 1880-1891	7
735	Endothelial extracellular vesicles contain protective proteins and rescue ischemia-reperfusion injury in a human heart-on-chip. 2020 , 12,	29
734	In vitro controlled release of extracellular vesicles for cardiac repair from poly(glycerol sebacate) acrylate-based polymers. 2020 , 115, 92-103	12
733	Mesenchymal stem cell secretions improve donor heart function following ex vivo cold storage. 2020 ,	12
732	Potential Therapeutic Effects of Exosomes in Regenerative Endodontics. 2020 , 120, 104946	7
731	Effect of Mesenchymal Stem Cell-Derived Exosomes on Retinal Injury: A Review of Current Findings. 2020 , 2020, 8883616	12
730	Proteomics of Extracellular Vesicles: Update on Their Composition, Biological Roles and Potential Use as Diagnostic Tools in Atherosclerotic Cardiovascular Diseases. 2020 , 10,	7
729	Strategies for scalable manufacturing and translation of MSC-derived extracellular vesicles. <i>Stem Cell Research</i> , 2020 , 48, 101978	1.6 16
728	Analysis of mesenchymal stem cell proteomes in the ischemic heart. 2020 , 10, 11324-11338	3
727	Harnessing the Secretome of Mesenchymal Stromal Cells for Traumatic Spinal Cord Injury: Multicell Comparison and Assessment of In Vivo Efficacy. 2020 , 29, 1429-1443	4
726	Extracellular vesicle signalling in atherosclerosis. 2020 , 75, 109751	11
725	Emerging local delivery strategies to enhance bone regeneration. 2020 , 15, 062001	5

724	Adiponectin Stimulates Exosome Release to Enhance Mesenchymal Stem-Cell-Driven Therapy of Heart Failure in Mice. 2020 , 28, 2203-2219	24
723	Emerging Function and Clinical Significance of Exosomal circRNAs in Cancer. 2020 , 21, 367-383	29
722	Astrocyte-derived exosome-transported microRNA-34c is neuroprotective against cerebral ischemia/reperfusion injury via TLR7 and the NF- κ B/MAPK pathways. 2020 , 163, 84-94	15
721	Duchenne muscular dystrophy (DMD) cardiomyocyte-secreted exosomes promote the pathogenesis of DMD-associated cardiomyopathy. 2020 , 13,	4
720	Scalable Production of Human Mesenchymal Stromal Cell-Derived Extracellular Vesicles Under Serum-/Xeno-Free Conditions in a Microcarrier-Based Bioreactor Culture System. 2020 , 8, 553444	18
719	Human umbilical cord mesenchymal stem cells-derived exosomal microRNA-451a represses epithelial-mesenchymal transition of hepatocellular carcinoma cells by inhibiting ADAM10. 2021 , 18, 1408-1423	13
718	In vivo Monitoring and Assessment of Exogenous Mesenchymal Stem Cell-Derived Exosomes in Mice with Ischemic Stroke by Molecular Imaging. 2020 , 15, 9011-9023	8
717	Comprehensive proteomic analysis of exosomes derived from human bone marrow, adipose tissue, and umbilical cord mesenchymal stem cells. 2020 , 11, 511	28
716	Exosomes in Cardiovascular Diseases. 2020 , 10,	12
715	Extracellular vesicles in cardiovascular disease. 2021 , 103, 47-95	10
714	Full Issue PDF. 2020 , 5, I-CIX	
713	Extracellular vesicles derived from human dental pulp stem cells promote osteogenesis of adipose-derived stem cells via the MAPK pathway. 2020 , 11, 2041731420975569	17
712	Human mesenchymal stromal cells and derived extracellular vesicles: Translational strategies to increase their proangiogenic potential for the treatment of cardiovascular disease. 2020 , 9, 1558-1569	11
711	Exosomes: Beyond stem cells for cardiac protection and repair. 2020 , 38, 1387-1399	19
710	Biomimetic nanovesicle design for cardiac tissue repair. 2020 , 15, 1873-1896	6
709	Advances in oligonucleotide drug delivery. 2020 , 19, 673-694	407
708	Self-assembly of stem cell membrane-camouflaged nanocomplex for microRNA-mediated repair of myocardial infarction injury. 2020 , 257, 120256	25
707	Advances in Exosomes Derived from Different Cell Sources and Cardiovascular Diseases. 2020 , 2020, 7298687	3

706	The Application of MSCs-Derived Extracellular Vesicles in Bone Disorders: Novel Cell-Free Therapeutic Strategy. 2020 , 8, 619	14
705	Cell-Based Therapeutic Approaches for Cystic Fibrosis. 2020 , 21,	9
704	Extracellular vesicles in cardiovascular diseases. 2020 , 6, 68	36
703	Designer Exosomes: A New Platform for Biotechnology Therapeutics. 2020 , 34, 567-586	56
702	Protective Role of Astrocyte-Derived Exosomal in Cerebral Ischemic-Reperfusion Injury by Regulating the Signaling Pathway and Targeting. 2020 , 16, 1863-1877	10
701	Preterm Brain Injury, Antenatal Triggers, and Therapeutics: Timing Is Key. 2020 , 9,	19
700	Human urine-derived stem cells protect against renal ischemia/reperfusion injury in a rat model via exosomal which targets. 2020 , 10, 9561-9578	28
699	Application of peptides with an affinity for phospholipid membranes during the automated purification of extracellular vesicles. 2020 , 10, 18718	6
698	Exosome-Delivered LncHEIH Promotes Gastric Cancer Progression by Upregulating EZH2 and Stimulating Methylation of the GSDME Promoter. 2020 , 8, 571297	14
697	Mesenchymal Stromal Cells in Pediatric Hematopoietic Cell Transplantation a Review and a Pilot Study in Children Treated With Decidua Stromal Cells for Acute Graft-versus-Host Disease. 2020 , 11, 567210	6
696	Extracellular Vesicle-Based Nucleic Acid Delivery: Current Cancer Therapeutic Strategies. 2020 , 12,	11
695	Tumor Microenvironment. 2020 ,	
694	Exploiting the Natural Properties of Extracellular Vesicles in Targeted Delivery towards Specific Cells and Tissues. 2020 , 12,	14
693	Lung Carcinoma Cells Secrete Exosomal MALAT1 to Inhibit Dendritic Cell Phagocytosis, Inflammatory Response, Costimulatory Molecule Expression and Promote Dendritic Cell Autophagy via AKT/mTOR Pathway. 2020 , 13, 10693-10705	6
692	Experimental limitations of extracellular vesicle-based therapies for the treatment of myocardial infarction. 2021 , 31, 405-415	8
691	Extracellular vesicles derived from mesenchymal stromal cells mitigate intestinal toxicity in a mouse model of acute radiation syndrome. 2020 , 11, 371	12
690	Highly purified extracellular vesicles from human cardiomyocytes demonstrate preferential uptake by human endothelial cells. 2020 , 12, 19844-19854	8
689	Mesenchymal Stem Cell-Derived Extracellular Vesicles: Opportunities and Challenges for Clinical Translation. 2020 , 8, 997	30

688	Progress in exosome associated tumor markers and their detection methods.. 2020 , 1, 3	12
687	The Antitumor Effect of Gene-Engineered Exosomes in the Treatment of Brain Metastasis of Breast Cancer. 2020 , 10, 1453	18
686	Experimental artefacts can lead to misattribution of bioactivity from soluble mesenchymal stem cell paracrine factors to extracellular vesicles. 2020 , 9, 1807674	30
685	Could Mesenchymal Stem Cell-Derived Exosomes Be a Therapeutic Option for Critically Ill COVID-19 Patients?. 2020 , 9,	11
684	Mesenchymal stem cell-derived exosome: a promising alternative in the therapy of Alzheimer's disease. 2020 , 12, 109	23
683	Preparing the Bone Tissue Regeneration Ground by Exosomes: From Diagnosis to Therapy. 2020 , 25,	5
682	Mesenchymal Stem Cell-Derived Extracellular Vesicles and Their Therapeutic Potential. 2020 , 2020, 8825771	23
681	Engineering Smart Targeting Nanovesicles and Their Combination with Hydrogels for Controlled Drug Delivery. 2020 , 12,	31
680	Intravenous injection of extracellular vesicles to treat chronic myocardial ischemia. 2020 , 15, e0238879	5
679	Quantification of extracellular vesicles and using sensitive bioluminescence imaging. 2020 , 9, 1800222	45
678	The future of Extracellular Vesicles as Theranostics - an ISEV meeting report. 2020 , 9, 1809766	23
677	Human ESC-sEVs alleviate age-related bone loss by rejuvenating senescent bone marrow-derived mesenchymal stem cells. 2020 , 9, 1800971	11
676	Dose-effect relationship and molecular mechanism by which BMSC-derived exosomes promote peripheral nerve regeneration after crush injury. 2020 , 11, 360	15
675	Cell-Free Extracellular Vesicles Derived from Human Bone Marrow Endothelial Progenitor Cells as Potential Therapeutics for Microvascular Endothelium Restoration in ALS. 2020 , 22, 503-516	9
674	Therapeutic Potential of Exosomes in Pulmonary Fibrosis. 2020 , 11, 590972	6
673	Similar Repair Effects of Human Placenta, Bone Marrow Mesenchymal Stem Cells, and Their Exosomes for Damaged SVOG Ovarian Granulosa Cells. 2020 , 2020, 8861557	2
672	MicroRNA-221/222 Mediates ADSC-Exosome-Induced Cardioprotection Against Ischemia/Reperfusion by Targeting PUMA and ETS-1. 2020 , 8, 569150	11
671	Mesenchymal Stromal Cell-Derived Extracellular Vesicles - Silver Linings for Cartilage Regeneration?. 2020 , 8, 593386	5

670	Human multipotent mesenchymal stromal cells cytokine priming promotes RAB27B-regulated secretion of small extracellular vesicles with immunomodulatory cargo. 2020 , 11, 539	13
669	Delivery of vascular endothelial growth factor (VEGFC) via engineered exosomes improves lymphedema. 2020 , 8, 1498	3
668	Exosomal circRNAs: Sorting Mechanisms, Roles and Clinical Applications in Tumors. 2020 , 8, 581558	6
667	Scaffolds and Extracellular Vesicles as a Promising Approach for Cardiac Regeneration after Myocardial Infarction. 2020 , 12,	2
666	The Paracrine Effect of Adipose-Derived Stem Cells Orchestrates Competition between Different Damaged Dermal Fibroblasts to Repair UVB-Induced Skin Aging. 2020 , 2020, 8878370	4
665	The Functional Heterogeneity of Neutrophil-Derived Extracellular Vesicles Reflects the Status of the Parent Cell. 2020 , 9,	15
664	Rejuvenation of Senescent Endothelial Progenitor Cells by Extracellular Vesicles Derived From Mesenchymal Stromal Cells. 2020 , 5, 1127-1141	7
663	Functional assays to assess the therapeutic potential of extracellular vesicles. 2020 , 10, e12033	20
662	Extracellular Vesicle Therapeutics in Regenerative Medicine. 2021 , 1312, 131-138	1
661	Systemic Mesenchymal Stem Cell-Derived Exosomes Reduce Myocardial Infarct Size: Characterization With MRI in a Porcine Model. 2020 , 7, 601990	20
660	Mesenchymal Stromal Cells' Therapy for Polyglutamine Disorders: Where Do We Stand and Where Should We Go?. 2020 , 14, 584277	2
659	Novel Applications of Mesenchymal Stem Cell-derived Exosomes for Myocardial Infarction Therapeutics. 2020 , 10,	34
658	Scale-up manufacturing of gelatin-based microcarriers for cell therapy. 2020 , 108, 2937-2949	7
657	Controlled Release of Stem Cell Secretome Attenuates Inflammatory Response against Implanted Biomaterials. 2020 , 9, e1901874	5
656	Exosomes derived from umbilical cord mesenchymal stem cells alleviate viral myocarditis through activating AMPK/mTOR-mediated autophagy flux pathway. 2020 , 24, 7515-7530	23
655	Extracellular Vesicles in Cancer. 2020 ,	3
654	Exosomes Derived from Bone Marrow Mesenchymal Stem Cells as Treatment for Severe COVID-19. 2020 , 29, 747-754	244
653	Mesenchymal Stem/Stromal Cell-Derived Exosomes for Immunomodulatory Therapeutics and Skin Regeneration. 2020 , 9,	91

652	Mesenchymal stromal/stem cell-derived extracellular vesicles in tissue repair: challenges and opportunities. 2020 , 10, 5979-5997	61
651	Native and bioengineered extracellular vesicles for cardiovascular therapeutics. 2020 , 17, 685-697	80
650	Extracellular Vesicles Attenuate Nitrofen-Mediated Human Pulmonary Artery Endothelial Dysfunction: Implications for Congenital Diaphragmatic Hernia. 2020 , 29, 967-980	2
649	Extracellular vesicles derived from different sources of mesenchymal stem cells: therapeutic effects and translational potential. 2020 , 10, 69	39
648	Three-dimensional culture of dental pulp pluripotent-like stem cells (DPPSCs) enhances expression and provides a serum-free condition for exosome isolation. 2020 , 2, 419-433	8
647	Mesenchymal and Induced Pluripotent Stem Cells-Derived Extracellular Vesicles: The New Frontier for Regenerative Medicine?. 2020 , 9,	22
646	Promising Scaffold-Free Approaches in Translational Dentistry. 2020 , 17,	2
645	Exosome-like vesicles derived from Hertwig's epithelial root sheath cells promote the regeneration of dentin-pulp tissue. 2020 , 10, 5914-5931	16
644	Extracellular Vesicles, Apoptotic Bodies and Mitochondria: Stem Cell Bioproducts for Organ Regeneration. 2020 , 7, 105-113	13
643	The Proosteogenic and Proangiogenic Effects of Small Extracellular Vesicles Derived from Bone Marrow Mesenchymal Stem Cells Are Attenuated in Steroid-Induced Osteonecrosis of the Femoral Head. 2020 , 2020, 4176926	5
642	Extracellular vesicles influence the pulmonary arterial extracellular matrix in congenital diaphragmatic hernia. 2020 , 55, 2402-2411	5
641	Extracellular vesicles derived from macrophage promote angiogenesis In vitro and accelerate new vasculature formation In vivo. 2020 , 394, 112146	11
640	Cross talk between mesenchymal and glioblastoma stem cells: Communication beyond controversies. 2020 , 9, 1310-1330	13
639	Exosomes Isolated From Platelet-Rich Plasma and Mesenchymal Stem Cells Promote Recovery of Function After Muscle Injury. 2020 , 48, 2277-2286	17
638	High-throughput single-cell analysis of exosome mediated dual drug delivery, in vivo fate and synergistic tumor therapy. 2020 , 12, 13742-13756	12
637	Targeted Delivery of Mesenchymal Stem Cell-Derived Nanovesicles for Spinal Cord Injury Treatment. 2020 , 21,	10
636	Mesenchymal Stem Cell-Derived Exosomes for Effective Cartilage Tissue Repair and Treatment of Osteoarthritis. 2020 , 15, e2000082	26
635	Extracellular Vesicles as Therapeutic Agents for Cardiac Fibrosis. 2020 , 11, 479	12

634	Exosomal miRNA-128-3p from mesenchymal stem cells of aged rats regulates osteogenesis and bone fracture healing by targeting Smad5. 2020 , 18, 47	48
633	The inhibition by human MSCs-derived miRNA-124a overexpression exosomes in the proliferation and migration of rheumatoid arthritis-related fibroblast-like synoviocyte cell. 2020 , 21, 150	19
632	Five Decades Later, Are Mesenchymal Stem Cells Still Relevant?. 2020 , 8, 148	53
631	Small extracellular vesicles secreted from human amniotic fluid mesenchymal stromal cells possess cardioprotective and promigratory potential. 2020 , 115, 26	38
630	Biomaterials functionalized with MSC secreted extracellular vesicles and soluble factors for tissue regeneration. 2020 , 30, 1909125	78
629	Exosomes From Induced Pluripotent Stem Cell-Derived Cardiomyocytes Promote Autophagy for Myocardial Repair. 2020 , 9, e014345	33
628	Evaluating the Endocytosis and Lineage-Specification Properties of Mesenchymal Stem Cell Derived Extracellular Vesicles for Targeted Therapeutic Applications. 2020 , 11, 163	12
627	Paracrine Mechanisms of Mesenchymal Stromal Cells in Angiogenesis. 2020 , 2020, 4356359	75
626	Mesenchymal Stem Cell-Derived Extracellular Vesicles in Tissue Regeneration. 2020 , 29, 963689720908500	24
625	Human Cardiac Progenitor Cells Enhance Exosome Release and Promote Angiogenesis Under Physoxia. 2020 , 8, 130	13
624	Exosomes-carried microRNA-26b-5p regulates microglia M1 polarization after cerebral ischemia/reperfusion. 2020 , 19, 1022-1035	22
623	miR-210 in Exosomes Derived from Macrophages under High Glucose Promotes Mouse Diabetic Obesity Pathogenesis by Suppressing NDUFA4 Expression. 2020 , 2020, 6894684	22
622	Exosomes from Human Adipose Tissue-Derived Mesenchymal Stem Cells Promote Epidermal Barrier Repair by Inducing de Novo Synthesis of Ceramides in Atopic Dermatitis. 2020 , 9,	36
621	Utilization of Human Induced Pluripotent Stem Cells for Cardiac Repair. 2020 , 8, 36	16
620	Clinical applications of exosome membrane proteins. 2020 , 3, 54-66	44
619	Role of mesenchymal stem cells in central nervous system regenerative medicine: past, present, and future. 2020 , 539-570	
618	Extracellular vesicles for treatment of solid organ ischemia-reperfusion injury. 2020 , 20, 3294-3307	14
617	Mesenchymal stem cell derived extracellular vesicles: promising immunomodulators against autoimmune, autoinflammatory disorders and SARS-CoV-2 infection. 2020 , 44, 273-282	15

616	The Angiogenic Paracrine Potential of Mesenchymal Stem Cells. 2020,	5
615	State-of-the-art exosome loading and functionalization techniques for enhanced therapeutics: a review. 2020, 40, 804-820	26
614	MSC-derived exosomal miR-34a/c-5p and miR-29b-3p improve intestinal barrier function by targeting the Snail/Claudins signaling pathway. 2020, 257, 118017	7
613	Immunosuppressive properties of cytochalasin B-induced membrane vesicles of mesenchymal stem cells: comparing with extracellular vesicles derived from mesenchymal stem cells. 2020, 10, 10740	16
612	Small but significant: Insights and new perspectives of exosomes in cardiovascular disease. 2020, 24, 8291-8303	17
611	Overexpression of GATA4 enhances the antiapoptotic effect of exosomes secreted from cardiac colony-forming unit fibroblasts via miRNA221-mediated targeting of the PTEN/PI3K/AKT signaling pathway. 2020, 11, 251	6
610	Mesenchymal stem cell exosomes in bone regenerative strategies-a systematic review of preclinical studies. 2020, 7, 100067	40
609	Bone Marrow Mesenchymal Stem Cell-Derived Exosomal miRNA-29c Decreases Cardiac Ischemia/Reperfusion Injury Through Inhibition of Excessive Autophagy via the PTEN/Akt/mTOR Signaling Pathway. 2020, 84, 1304-1311	21
608	Cross talk between exosomes and pancreatic β cells in diabetes. 2020, 1-10	1
607	Concepts and Applications of Stem Cell Biology. 2020,	
606	BMSC-derived exosomes alleviate smoke inhalation lung injury through blockade of the HMGB1/NF- κ B pathway. 2020, 257, 118042	17
605	Reproducible Large-Scale Isolation of Exosomes from Adipose Tissue-Derived Mesenchymal Stem/Stromal Cells and Their Application in Acute Kidney Injury. 2020, 21,	29
604	Mesenchymal Stromal Cells and Exosomes: Progress and Challenges. 2020, 8, 665	33
603	Exosomes: Salivary Biomarkers?. 2020, 19, 667-672	1
602	Exosomes as Drug Delivery Vehicles for Cancer Treatment. 2020, 16, 15-26	4
601	Oxidative stress-induced RAC autophagy can improve the HUVEC functions by releasing exosomes. 2020, 235, 7392-7409	14
600	Purity Determines the Effect of Extracellular Vesicles Derived from Mesenchymal Stromal Cells. 2020, 9,	5
599	Free and hydrogel encapsulated exosome-based therapies in regenerative medicine. 2020, 249, 117447	47

- 598 M2 macrophage-derived exosomes carry microRNA-148a to alleviate myocardial ischemia/reperfusion injury via inhibiting TXNIP and the TLR4/NF- κ B/NLRP3 inflammasome signaling pathway. **2020**, 142, 65-79 65
- 597 Bone marrow mesenchymal stem cells-derived exosomes improve injury of hippocampal neurons in rats with depression by upregulating microRNA-26a expression. **2020**, 82, 106285 15
- 596 Mesenchymal Stromal Cell Therapies **The Next Frontiers**. **2020**, 435-448
- 595 Extracellular vesicles isolated from patients undergoing remote ischemic preconditioning decrease hypoxia-evoked apoptosis of cardiomyoblasts after isoflurane but not propofol exposure. **2020**, 15, e0228948 16
- 594 Characterization of a purified exosome product and its effects on canine flexor tenocyte biology. **2020**, 38, 1845-1855 15
- 593 Exosomes derived from human bone marrow mesenchymal stem cells transfer miR-222-3p to suppress acute myeloid leukemia cell proliferation by targeting IRF2/INPP4B. **2020**, 51, 101513 19
- 592 LncRNA-NEAT1 from the competing endogenous RNA network promotes cardioprotective efficacy of mesenchymal stem cell-derived exosomes induced by macrophage migration inhibitory factor via the miR-142-3p/FOXO1 signaling pathway. **2020**, 11, 31 25
- 591 Mesenchymal stem cell-derived exosomes ameliorate cardiomyocyte apoptosis in hypoxic conditions through microRNA144 by targeting the PTEN/AKT pathway. **2020**, 11, 36 39
- 590 Exosomes derived from human umbilical cord mesenchymal stem cells ameliorate IL-6-induced acute liver injury through miR-455-3p. **2020**, 11, 37 59
- 589 Phenotypic analysis of extracellular vesicles: a review on the applications of fluorescence. **2020**, 9, 1710020 38
- 588 Derivation of Cell-Engineered Nanovesicles from Human Induced Pluripotent Stem Cells and Their Protective Effect on the Senescence of Dermal Fibroblasts. **2020**, 21, 13
- 587 Exosomes derived from human umbilical cord mesenchymal stem cells repair injured endometrial epithelial cells. **2020**, 37, 395-403 7
- 586 Human umbilical cord mesenchymal stem cells-derived exosomes transfers microRNA-19a to protect cardiomyocytes from acute myocardial infarction by targeting SOX6. **2020**, 19, 339-353 27
- 585 A Role for Exosomes in Craniofacial Tissue Engineering and Regeneration. **2019**, 10, 1569 28
- 584 Harnessing the anti-inflammatory properties of stem cells for transplant therapy in hemorrhagic stroke. **2020**, 1, 24-33 4
- 583 Mesenchymal Stem Cell-Derived Extracellular Vesicles: A Novel Cell-Free Therapy for Sepsis. **2020**, 11, 647 16
- 582 Downregulated PEG3 ameliorates cardiac fibrosis and myocardial injury in mice with ischemia/reperfusion through the NF- κ B signaling pathway. **2020**, 52, 143-154 1
- 581 Nanovesicles derived from iron oxide nanoparticles-incorporated mesenchymal stem cells for cardiac repair. **2020**, 6, eaaz0952 49

580	Intra-Articular Injections of Mesenchymal Stem Cell Exosomes and Hyaluronic Acid Improve Structural and Mechanical Properties of Repaired Cartilage in a Rabbit Model. 2020 , 36, 2215-2228.e2	30
579	MiR-101a loaded extracellular nanovesicles as bioactive carriers for cardiac repair. 2020 , 27, 102201	13
578	Tumor circulome in the liquid biopsies for cancer diagnosis and prognosis. 2020 , 10, 4544-4556	43
577	Mesenchymal stromal cells and their derivatives - putative therapeutics in the management of autoimmune pancreatitis. 2020 , 10, 969-978	2
576	Therapeutic effects of extracellular vesicles from human adipose-derived mesenchymal stem cells on chronic experimental autoimmune encephalomyelitis. 2020 , 235, 8779-8790	18
575	Exosomes: Cell-Free Therapy for Cardiovascular Diseases. 2020 , 13, 713-721	6
574	Mending a broken heart: current strategies and limitations of cell-based therapy. 2020 , 11, 138	21
573	Functionally engineered extracellular vesicles improve bone regeneration. 2020 , 109, 182-194	46
572	Emerging Therapeutic Potential of Mesenchymal Stem/Stromal Cells in Preeclampsia. 2020 , 22, 37	16
571	Mesenchymal Stem Cell Derived Extracellular Vesicles for Tissue Engineering and Regenerative Medicine Applications. 2020 , 9,	93
570	Impact of exosome-loaded chitosan hydrogel in wound repair and layered dermal reconstitution in mice animal model. 2020 , 108, 2138-2149	37
569	Extracellular vesicles as drug delivery systems: Why and how?. 2020 , 159, 332-343	229
568	Enhanced therapeutic effects of MSC-derived extracellular vesicles with an injectable collagen matrix for experimental acute kidney injury treatment. 2020 , 11, 161	31
567	Mesenchymal Stem Cell-Derived Extracellular Vesicles: Challenges in Clinical Applications. 2020 , 8, 149	94
566	Exosomes derived from GIT1-overexpressing bone marrow mesenchymal stem cells promote traumatic spinal cord injury recovery in a rat model. 2021 , 131, 170-182	12
565	Extracellular Vesicles Derived from Neural Progenitor Cells--a Preclinical Evaluation for Stroke Treatment in Mice. 2021 , 12, 185-203	28
564	Circulating extracellular vesicles from patients with acute chest syndrome disrupt adherens junctions between endothelial cells. 2021 , 89, 776-784	2
563	Therapeutic angiogenesis with exosomal microRNAs: an effectual approach for the treatment of myocardial ischemia. 2021 , 26, 205-213	21

562	Extracellular vesicles from human cardiovascular progenitors trigger a reparative immune response in infarcted hearts. 2021 , 117, 292-307	27
561	Mesenchymal stem-cell-derived exosomal miR-145 inhibits atherosclerosis by targeting JAM-A. 2021 , 23, 119-131	12
560	The pivotal roles of exosomes derived from endogenous immune cells and exogenous stem cells in myocardial repair after acute myocardial infarction. 2021 , 11, 1046-1058	23
559	Hiding in plain sight: an encapsulated approach to cardiac cell therapy. 2021 , 117, 648-650	1
558	Mesenchymal Stem Cell Derived Exosomes: a Nano Platform for Therapeutics and Drug Delivery in Combating COVID-19. 2021 , 17, 33-43	51
557	Extracellular vesicles in hepatology: Physiological role, involvement in pathogenesis, and therapeutic opportunities. 2021 , 218, 107683	5
556	Stimulation of exosome biogenesis by adiponectin, a circulating factor secreted from adipocytes. 2021 , 169, 173-179	7
555	Engineered extracellular vesicle decoy receptor-mediated modulation of the IL6 trans-signalling pathway in muscle. 2021 , 266, 120435	8
554	Biological role and clinical relevance of extracellular vesicles as key mediators of cell communication in cancer. 2021 , 33, 37-117	2
553	Role of Exosomes in Biological Communication Systems. 2021 ,	2
552	MSCs-extracellular vesicles attenuated neuroinflammation, synapse damage and microglial phagocytosis after hypoxia-ischemia injury by preventing osteopontin expression. 2021 , 164, 105322	7
551	Local administration of stem cell-derived extracellular vesicles in a thermoresponsive hydrogel promotes a pro-healing effect in a rat model of colo-cutaneous post-surgical fistula. 2021 , 13, 218-232	12
550	Umbilical cord mesenchymal stem cells as well as their released exosomes suppress proliferation of activated PBMCs in multiple sclerosis. 2021 , 93, e13013	5
549	Immunomodulatory effects of mesenchymal stem cells for the treatment of cardiac allograft rejection. 2021 , 246, 851-860	1
548	Exosome Derived from ADSCs Attenuates Ultraviolet B-mediated Photoaging in Human Dermal Fibroblasts. 2021 , 97, 795-804	4
547	Point of care, bone marrow mononuclear cell therapy in ischemic heart failure patients personalized for cell potency: 12-month feasibility results from CardiAMP heart failure roll-in cohort. 2021 , 326, 131-138	5
546	Small extracellular vesicles (sEVs): discovery, functions, applications, detection methods and various engineered forms. 2021 , 21, 371-394	5
545	The emerging role of exosomes as novel therapeutics: Biology, technologies, clinical applications, and the next. 2021 , 85, e13329	22

544	The mechanisms of cellular crosstalk between mesenchymal stem cells and natural killer cells: Therapeutic implications. 2021 , 236, 2413-2429	9
543	Therapeutic Applications of Stem Cells and Extracellular Vesicles in Emergency Care: Futuristic Perspectives. 2021 , 17, 390-410	8
542	Extracellular vesicle-based therapy for amyotrophic lateral sclerosis. 2021 , 7, 23-28	2
541	Neglected No More: Emerging Cellular Therapies in Traumatic Injury. 2021 , 17, 1194-1214	2
540	Role of miRNAs shuttled by mesenchymal stem cell-derived small extracellular vesicles in modulating neuroinflammation. 2021 , 11, 1740	21
539	Rapid isolation of extracellular vesicles from diverse biofluid matrices capillary-channeled polymer fiber solid-phase extraction micropipette tips. 2021 , 146, 4314-4325	3
538	Exosomes targeted towards applications in regenerative medicine. 2021 , 2, 880-908	7
537	Human umbilical cord mesenchymal stem cell-derived extracellular vesicles ameliorate airway inflammation in a rat model of chronic obstructive pulmonary disease (COPD). 2021 , 12, 54	12
536	Mesenchymal Stem Cell-Derived Exosomes: A Promising Biological Tool in Nanomedicine. 2020 , 11, 590470	40
535	Extracellular vesicles in bone and periodontal regeneration: current and potential therapeutic applications. 2021 , 11, 16	18
534	The Future of Regenerative Medicine: Cell Therapy Using Pluripotent Stem Cells and Acellular Therapies Based on Extracellular Vesicles. 2021 , 10,	15
533	Extracellular vesicles from adipose stromal cells combined with a thermoresponsive hydrogel prevent esophageal stricture after extensive endoscopic submucosal dissection in a porcine model. 2021 , 13, 14866-14878	1
532	Extracellular vesicles from three dimensional culture of human placental mesenchymal stem cells ameliorated renal ischemia/reperfusion injury. 2021 , 391398820986809	4
531	Cell-free exosome-laden scaffolds for tissue repair. 2021 , 13, 8740-8750	19
530	Extracellular Vesicles in Viral Pathogenesis: A Case of Dr. Jekyll and Mr. Hyde. 2021 , 11,	5
529	Exosomes derived from human induced pluripotent stem cell-derived neural progenitor cells protect neuronal function under ischemic conditions. 2021 , 16, 2064-2070	5
528	Impact of 3D cell culture on bone regeneration potential of mesenchymal stromal cells. 2021 , 12, 31	6
527	Topical Application of Mesenchymal Stem Cell Exosomes Alleviates the Imiquimod Induced Psoriasis-Like Inflammation. 2021 , 22,	10

526	The role of small extracellular vesicles in cerebral and myocardial ischemia-Molecular signals, treatment targets, and future clinical translation. 2021 , 39, 403-413	13
525	Determination of Cholesterol and Triglyceride Concentrations in Serum Extracellular Vesicles Using Commercial Kits. 2021 , 4, e00148	
524	Biomimetic Culture Strategies for the Clinical Expansion of Mesenchymal Stromal Cells. 2021 ,	1
523	Small extracellular vesicles-based cell-free strategies for therapy. 2021 , 2, 17-26	2
522	Mesenchymal Stem Cell-Derived Extracellular Vesicles: Regenerative Potential and Challenges. 2021 , 10,	6
521	Immunomodulatory and Regenerative Effects of Mesenchymal Stem Cells and Extracellular Vesicles: Therapeutic Outlook for Inflammatory and Degenerative Diseases. 2020 , 11, 591065	29
520	Interleukin-1 β Treated Mesenchymal Stem Cells Inhibit Inflammation in Hippocampal Astrocytes Through Exosome-Activated Nrf-2 Signaling. 2021 , 16, 1423-1434	4
519	Exosomes and exosomal RNAs in breast cancer: A status update. 2021 , 144, 252-268	21
518	The Chemokine Receptors Ccr5 and Cxcr6 Enhance Migration of Mesenchymal Stem Cells into the Degenerating Retina. 2021 , 29, 804-821	6
517	Uptake of circulating extracellular vesicles from rectal cancer patients and differential responses by human monocyte cultures. 2021 , 11, 724-740	1
516	Mesenchymal stem cell-derived exosomes for organ development and cell-free therapy. 2021 , 2, 1291-1325	1
515	Application of Cell, Tissue, and Biomaterial Delivery in Cardiac Regenerative Therapy. 2021 , 7, 1000-1021	3
514	Treatment of Oxidative Stress with Exosomes in Myocardial Ischemia. 2021 , 22,	11
513	A Comprehensive Review on Factors Influences Biogenesis, Functions, Therapeutic and Clinical Implications of Exosomes. 2021 , 16, 1281-1312	36
512	Regenerative potential of epicardium-derived extracellular vesicles mediated by conserved miRNA transfer. 2021 ,	9
511	Exosomes and cancer: from molecular mechanisms to clinical applications. 2021 , 38, 45	15
510	CT imaging of gold nanoparticle-labeled exosomes in a myocardial infarction mouse model. 2021 , 9, 504	4
509	Exosomes derived from human placental mesenchymal stem cells enhanced the recovery of spinal cord injury by activating endogenous neurogenesis. 2021 , 12, 174	5

508	Aptamer-Based Detection of Circulating Targets for Precision Medicine. 2021 , 121, 12035-12105	61
507	Cardiac Cell Therapy for Heart Repair: Should the Cells Be Left Out?. 2021 , 10,	9
506	Human placenta mesenchymal stem cell-derived exosomes delay HO-induced aging in mouse cholangioids. 2021 , 12, 201	4
505	A First Phenotypic and Functional Characterization of Placental Extracellular Vesicles from Women with Multiple Sclerosis. 2021 , 22,	0
504	Adipose-derived mesenchymal stem cell-secreted exosome alleviates dextran sulfate sodium-induced acute colitis by Treg cell induction and inflammatory cytokine reduction. 2021 , 236, 5906-5920 ²³	
503	Development of immunotherapy using extracellular vesicles. 2021 , 36, 100-107	
502	Improvement of Cerebral Ischemia-Reperfusion Injury via Regulation of Apoptosis by Exosomes Derived from BDNF-Overexpressing HEK293. 2021 , 2021, 6613510	4
501	Myocardial Infarction: The Protective Role of MiRNAs in Myocardium Pathology. 2021 , 8, 631817	6
500	Biological Aspects and Clinical Applications of Mesenchymal Stem Cells: Key Features You Need to be Aware of. 2021 , 22, 200-215	5
499	Mesenchymal Stem Cell-Derived Exosomes Exhibit Promising Potential for Treating SARS-CoV-2-Infected Patients. 2021 , 10,	15
498	Nano-Medicine in the Cardiovascular System. 2021 , 12, 640182	3
497	Identification of Angiogenic Cargo in Extracellular Vesicles Secreted from Human Adipose Tissue-Derived Stem Cells and Induction of Angiogenesis In Vitro and In Vivo. 2021 , 13,	4
496	Exosomal therapy-a new frontier in regenerative medicine. 2021 , 8, 7	7
495	An Update on Mesenchymal Stem Cell-Centered Therapies in Temporomandibular Joint Osteoarthritis. 2021 , 2021, 6619527	3
494	Exosomal lncRNA-p21 derived from mesenchymal stem cells protects epithelial cells during LPS-induced acute lung injury by sponging miR-181. 2021 , 53, 748-757	8
493	Cellhesion VP enhances the immunomodulating potential of human mesenchymal stem cell-derived extracellular vesicles. 2021 , 271, 120742	0
492	Exosomes from neuronal stem cells may protect the heart from ischaemia/reperfusion injury via JAK1/2 and gp130. 2021 , 25, 4455-4465	4
491	Exosomes as new therapeutic vectors for pancreatic cancer treatment. 2021 , 161, 4-14	3

490	MSC-derived exosomes carrying a cocktail of exogenous interfering RNAs an unprecedented therapy in era of COVID-19 outbreak. 2021 , 19, 164	7
489	Extracellular Vesicles as Biomarkers and Therapeutic Tools: From Pre-Clinical to Clinical Applications. 2021 , 10,	20
488	Stem cell therapy for heart failure: Medical breakthrough, or dead end?. 2021 , 13, 236-259	4
487	Assessment of Tumorigenic Potential in Mesenchymal-Stem/Stromal-Cell-Derived Small Extracellular Vesicles (MSC-sEV). 2021 , 14,	5
486	Connexins in the Heart: Regulation, Function and Involvement in Cardiac Disease. 2021 , 22,	8
485	Adipose-Derived Mesenchymal Stem Cells-Derived Exosomes Carry MicroRNA-671 to Alleviate Myocardial Infarction Through Inactivating the TGFBR2/Smad2 Axis. 2021 , 44, 1815-1830	10
484	Multiplexed targeting of miRNA-210 in stem cell-derived extracellular vesicles promotes selective regeneration in ischemic hearts. 2021 , 53, 695-708	4
483	Efficacy of extracellular vesicles from dental pulp stem cells for bone regeneration in rat calvarial bone defects. 2021 , 41, 12	10
482	Biomaterial-based extracellular vesicle delivery for therapeutic applications. 2021 , 124, 88-107	12
481	Exosomes derived from miR-26a-modified MSCs promote axonal regeneration via the PTEN/AKT/mTOR pathway following spinal cord injury. 2021 , 12, 224	10
480	The Role of Exosomes Derived From Mesenchymal Stromal Cells in Dermatology. 2021 , 9, 647012	5
479	Cellular signaling cross-talk between different cardiac cell populations: an insight into the role of exosomes in the heart diseases and therapy. 2021 , 320, H1213-H1234	6
478	miR-543 in human mesenchymal stem cell-derived exosomes promotes cardiac microvascular endothelial cell angiogenesis after myocardial infarction through COL4A1. 2021 , 73, 927-940	3
477	New therapeutic approaches of mesenchymal stem cells-derived exosomes. 2021 , 28, 39	13
476	Optimized BMSC-derived osteoinductive exosomes immobilized in hierarchical scaffold via lyophilization for bone repair through Bmpr2/Acvr2b competitive receptor-activated Smad pathway. 2021 , 272, 120718	24
475	hAECs and their exosomes improve cardiac function after acute myocardial infarction in rats. 2021 , 13, 15032-15043	1
474	Mesenchymal stem cell alongside exosomes as a novel cell-based therapy for COVID-19: A review study. 2021 , 226, 108712	10
473	Critical considerations for the development of potency tests for therapeutic applications of mesenchymal stromal cell-derived small extracellular vesicles. 2021 , 23, 373-380	41

472	Exosomes derived from MSC pre-treated with oridonin alleviates myocardial IR injury by suppressing apoptosis via regulating autophagy activation. 2021 , 25, 5486-5496	4
471	3D Encapsulation and tethering of functionally engineered extracellular vesicles to hydrogels. 2021 , 126, 199-210	15
470	Extracellular vesicle interplay in cardiovascular pathophysiology. 2021 , 320, H1749-H1761	7
469	Mesenchymal stromal cell secretome in liver failure: Perspectives on COVID-19 infection treatment. 2021 , 27, 1905-1919	4
468	Potential Use of Exosomes as Diagnostic Biomarkers and in Targeted Drug Delivery: Progress in Clinical and Preclinical Applications. 2021 , 7, 2106-2149	15
467	Human amniotic membrane as a delivery vehicle for stem cell-based therapies. 2021 , 272, 119157	2
466	Extracellular Vesicle Application as a Novel Therapeutic Strategy for Ischemic Stroke. 2021 , 1	2
465	Biogenesis, Membrane Trafficking, Functions, and Next Generation Nanotherapeutics Medicine of Extracellular Vesicles. 2021 , 16, 3357-3383	11
464	Unravelling the mechanisms driving multimorbidity in COPD to develop holistic approaches to patient-centred care. 2021 , 30,	4
463	The Vital Roles of Mesenchymal Stem Cells and the Derived Extracellular Vesicles in Promoting Angiogenesis After Acute Myocardial Infarction. 2021 , 30, 561-577	6
462	Identification of small compounds regulating the secretion of extracellular vesicles via a TIM4-affinity ELISA. 2021 , 11, 13471	1
461	Exosomes: A Friend or Foe for Osteoporotic Fracture?. 2021 , 12, 679914	3
460	The Role of Extracellular Vesicles Secreted From Thermal Stress-Induced Adipose-Derived Stem Cells on Bone Regeneration. 2021 , 32, 2245-2250	1
459	First-in-human intracochlear application of human stromal cell-derived extracellular vesicles. 2021 , 10, e12094	11
458	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
457	Bioactives from Bee Products and Accompanying Extracellular Vesicles as Novel Bioactive Components for Wound Healing. 2021 , 26,	3
456	Cell Death and Exosomes Regulation After Myocardial Infarction and Ischemia-Reperfusion. 2021 , 9, 673677	7
455	iPSCs and Exosomes: Partners in Crime Fighting Cardiovascular Diseases. 2021 , 11,	2

454	Mesenchymal stem cells and extracellular vesicles for the treatment of pain: Current status and perspectives. 2021 ,	0
453	Emerging roles of exosomal miRNAs in diabetes mellitus. 2021 , 11, e468	17
452	Emerging Potential of Exosomes on Adipogenic Differentiation of Mesenchymal Stem Cells. 2021 , 9, 649552	2
451	Effects of mesenchymal stem cell-derived exosomes on oxidative stress responses in skin cells. 2021 , 48, 4527-4535	1
450	Mesenchymal Stem Cell Extracellular Vesicles as Adjuvant to Bone Marrow Stimulation in Chondral Defect Repair in a Minipig Model. 2021 , 19476035211029707	0
449	The role of extracellular vesicles in the physiological and pathological regulation of the blood-brain barrier. 2021 , 3, 665-675	9
448	Lyophilization Preserves the Intrinsic Cardioprotective Activity of Bioinspired Cell-Derived Nanovesicles. 2021 , 13,	2
447	Research Progress in the Repair of Peripheral Nerve Injury with Adipose-Derived Stem Cell Exosomes. 2021 , 2, 618-623	
446	Emerging technologies and commercial products in exosome-based cancer diagnosis and prognosis. 2021 , 183, 113176	16
445	Small extracellular vesicles from young mice prevent frailty and improve healthspan in old mice.	
444	The Effects of Mesenchymal Stem Cell on Colorectal Cancer. 2021 , 2021, 9136583	1
443	Mesenchymal Stem Cell-Derived Small Extracellular Vesicles Protect Cardiomyocytes from Doxorubicin-Induced Cardiomyopathy by Upregulating Survivin Expression via the miR-199a-3p-Akt-Sp1/p53 Signaling Pathway. 2021 , 22,	3
442	Exosomes in Atherosclerosis, a Double-Edged Sword: Their Role in Disease Pathogenesis and Their Potential as Novel Therapeutics. 2021 , 23, 95	2
441	Targeting Inflammation after Myocardial Infarction: A Therapeutic Opportunity for Extracellular Vesicles?. 2021 , 22,	5
440	Current status of myocardial restoration via the paracrine function of mesenchymal stromal cells. 2021 , 321, H112-H127	0
439	Exosomes in atrial fibrillation: therapeutic potential and role as clinical biomarkers. 2021 , 1	2
438	Bioinspired artificial exosomes based on lipid nanoparticles carrying let-7b-5p promote angiogenesis in vitro and in vivo. 2021 , 29, 2239-2252	12
437	From Mesenchymal Stromal Cells to Engineered Extracellular Vesicles: A New Therapeutic Paradigm. 2021 , 9, 705676	9

436	The Emerging Role of Exosomes in the Treatment of Human Disorders With a Special Focus on Mesenchymal Stem Cells-Derived Exosomes. 2021 , 9, 653296	9
435	Extracellular Vesicles: A New Paradigm for Cellular Communication in Perioperative Medicine, Critical Care, and Pain Management. 2021 , 133, 1162-1179	
434	miR-100-5p in human umbilical cord mesenchymal stem cell-derived exosomes mediates eosinophilic inflammation to alleviate atherosclerosis via the FZD5/Wnt/ β catenin pathway. 2021 , 53, 1166-1176	1
433	The Role of MSC in Wound Healing, Scarring and Regeneration. 2021 , 10,	20
432	Friends and foes: Extracellular vesicles in aging and rejuvenation. 2021 , 3, 787-801	6
431	Injection-Free Delivery of MSC-Derived Extracellular Vesicles for Myocardial Infarction Therapeutics. 2021 , e2100312	7
430	Mechanisms underlying the therapeutic potential of mesenchymal stem cells in atherosclerosis. 2021 , 16, 669-682	4
429	Proteomic Analysis of Estrogen-Mediated Enhancement of Mesenchymal Stem Cell-Induced Angiogenesis In Vivo. 2021 , 10,	0
428	Exosomes as cell-derivative carriers in the diagnosis and treatment of central nervous system diseases. 2021 , 1	2
427	Optimizing extracellular vesicles' isolation from chronic lymphocytic leukemia patient plasma and cell line supernatant. 2021 , 6,	1
426	Priming of MSCs with inflammation-relevant signals affects extracellular vesicle biogenesis, surface markers, and modulation of T cell subsets. 2021 , 13, 100036	3
425	Mesenchymal Stem Cell-Derived Exosomes: Applications in Regenerative Medicine. 2021 , 10,	25
424	Mesenchymal Stem Cell-Derived Exosomes as an Emerging Paradigm for Regenerative Therapy and Nano-Medicine: A Comprehensive Review. 2021 , 11,	5
423	Proteomic basis of modulation of postischemic fibrosis by MSC exosomes. 2021 , 321, R639-R654	1
422	Extracellular vesicles for tissue repair and regeneration: Evidence, challenges and opportunities. 2021 , 175, 113775	21
421	Extracellular vesicles, stem cells and the role of miRNAs in neurodegeneration. 2021 ,	0
420	miR-4732-3p in Extracellular Vesicles From Mesenchymal Stromal Cells Is Cardioprotective During Myocardial Ischemia. 2021 , 9, 734143	5
419	Exosomes in Dogs and Cats: An Innovative Approach to Neoplastic and Non-Neoplastic Diseases. 2021 , 14,	1

418	Mesenchymal stem cell-derived exosomes: An emerging therapeutic strategy for normal and chronic wound healing. 2021 , 9, 6218-6233	3
417	Mesenchymal stem cell-derived exosomes: therapeutic implications for rotator cuff injury. 2021 , 16, 803-815	1
416	Wharton's Jelly Mesenchymal Stromal Cells and Derived Extracellular Vesicles as Post-Myocardial Infarction Therapeutic Toolkit: An Experienced View. 2021 , 13,	0
415	Stem Cell-Derived Exosomes Potential Therapeutic Roles in Cardiovascular Diseases. 2021 , 8, 723236	4
414	Small extracellular vesicles from menstrual blood-derived mesenchymal stem cells (MenSCs) as a novel therapeutic impetus in regenerative medicine. 2021 , 12, 433	10
413	Extracellular Vehicles of Oxygen-Depleted Mesenchymal Stromal Cells: Route to Off-Shelf Cellular Therapeutics?. 2021 , 10,	1
412	What we know on the potential use of exosomes for nanodelivery. 2021 ,	4
411	Extracellular vesicles as novel approaches for the treatment of osteoarthritis: a narrative review on potential mechanisms. 2021 , 52, 879-891	2
410	Impact of allogeneic feline uterine-derived mesenchymal stromal cell intravenous treatment on renal function of nephrectomized cats with chronic kidney disease. 2021 , 141, 33-41	1
409	Extracellular vesicles in the treatment of neurological disorders. 2021 , 157, 105445	3
408	Effect of Melatonin for Regulating Mesenchymal Stromal Cells and Derived Extracellular Vesicles. 2021 , 9, 717913	2
407	Interest of extracellular vesicles in regards to lipid nanoparticle based systems for intracellular protein delivery. 2021 , 176, 113837	7
406	Epicardial Transplantation of Autologous Cardiac Micrografts During Coronary Artery Bypass Surgery. 2021 , 8, 726889	0
405	A Comparative Study on the Effect of Exosomes Secreted by Mesenchymal Stem Cells Derived from Adipose and Bone Marrow Tissues in the Treatment of Osteoarthritis-Induced Mouse Model. 2021 , 2021, 9688138	2
404	Role of extracellular vesicles in atherosclerosis: An update. 2021 ,	3
403	Insight into the Exosomal Membrane: From Viewpoints of Membrane Fluidity and Polarity. 2021 , 37, 11195-11202	2
402	Therapeutic Potential of Mesenchymal Stromal Cell-Derived Extracellular Vesicles in the Prevention of Organ Injuries Induced by Traumatic Hemorrhagic Shock. 2021 , 12, 749659	1
401	Extracellular Vesicles from Adipose-Derived Stem Cells Promote Diabetic Wound Healing via the PI3K-AKT-mTOR-HIF-1 β Signaling Pathway. 2021 , 18, 1035-1044	4

400	Mesenchymal Stem Cell-Derived Exosomes and Their Potential Agents in Hematological Diseases. 2021 , 2021, 4539453	2
399	Mesenchymal Stem Cells in the Treatment of COVID-19, a Promising Future. 2021 , 10,	0
398	Cyclical endometrial repair and regeneration. 2021 , 148,	4
397	Sustained Released of Bioactive Mesenchymal Stromal Cell-Derived Extracellular Vesicles from 3D-Printed Gelatin Methacrylate Hydrogels.	0
396	Hypoxic Stem Cell-Derived Extracellular Vesicles for Cardiac Repair in Preclinical Animal Models of Myocardial Infarction: A Meta-Analysis. 2021 , 30, 891-907	3
395	Nanomaterials Application in Endodontics. 2021 , 14,	2
394	Stem cells characterization: OMICS reinforcing analytics. 2021 , 71, 175-181	1
393	Recent Insight on the Non-coding RNAs in Mesenchymal Stem Cell-Derived Exosomes: Regulatory and Therapeutic Role in Regenerative Medicine and Tissue Engineering. 2021 , 8, 737512	3
392	Potential of Exosomes as Cell-Free Therapy in Articular Cartilage Regeneration: A Review. 2021 , 16, 6749-67813	
391	Extracellular Vesicle-Based Therapy for COVID-19: Promises, Challenges and Future Prospects. 2021 , 9,	3
390	Scaled preparation of extracellular vesicles from conditioned media. 2021 , 177, 113940	13
389	Targeted Drug Delivery for Cardiovascular Disease: Modeling of Modulated Extracellular Vesicle Release Rates. 2021 , 20, 444-454	1
388	Dosing extracellular vesicles. 2021 , 178, 113961	15
387	Enhancing Stroke Recovery With Cellular Therapies. 2022 , 900-911.e5	
386	MSC exosome-mediated cardioprotection in ischemic mouse heart comparative proteomics of infarct and peri-infarct areas. 2021 , 476, 1691-1704	5
385	Research Progresses in the Inhibitory Effect of Bone Mesenchymal Stem Cell-Derived Exosome on Blood-Brain Barrier Disruption following Intracerebral Hemorrhage in Rats. 2021 , 09, 125-137	0
384	Engineered exosomes: desirable target-tracking characteristics for cerebrovascular and neurodegenerative disease therapies. 2021 , 11, 8926-8944	9
383	Cardiomyocyte Induction and Regeneration for Myocardial Infarction Treatment: Cell Sources and Administration Strategies. 2020 , 9, e2001175	9

382	RNAi Therapeutic Delivery by Exosomes. 2013 , 185-205	3
381	Isolation and Characterization of Extracellular Vesicles in Stem Cell-Related Studies. 2017 , 205-223	1
380	Paving the Road for Mesenchymal Stem Cell-Derived Exosome Therapy in Bronchopulmonary Dysplasia and Pulmonary Hypertension. 2019 , 131-152	10
379	Cellular Therapy for Ischemic Heart Disease: An Update. 2019 , 1201, 195-213	11
378	The Role of Extracellular Vesicles as Paracrine Effectors in Stem Cell-Based Therapies. 2019 , 1201, 175-193	15
377	Extracellular Vesicles. 2020 , 219-229	2
376	Exosomes: Novel Players of Therapy Resistance in Neuroblastoma. 2020 , 1277, 75-85	3
375	Mesenchymal Stromal Cell Secretome for Tissue Repair. 2020 , 641-666	1
374	Roles of Endogenous Retrovirus-Encoded Syncytins in Human Placentation. 2017 , 215-238	1
373	Mesenchymal Stem Cells in Wound Repair, Tissue Homeostasis, and Aging. 2015 , 287-318	3
372	Prenatal Mesenchymal Stem Cell Secretome and Its Clinical Implication. 2019 , 167-173	1
371	Exosomes in Drug Delivery. 2021 , 337-360	2
370	Exosomes and Supported Lipid Layers as Advanced Naturally Derived Drug Delivery Systems. 2021 , 361-373	1
369	Extracellular vesicles in regenerative medicine. 2020 , 29-58	1
368	Bioactive factors for cartilage repair and regeneration: Improving delivery, retention, and activity. 2019 , 93, 222-238	64
367	A comparison of exosome purification methods using serum of Marek's disease virus (MDV)-vaccinated and -tumor-bearing chickens. 2020 , 6, e05669	2
366	Biomaterials and extracellular vesicles in cell-free therapy for bone repair and regeneration: Future line of treatment in regenerative medicine. 2020 , 12, 100736	7
365	"Good things come in small packages": application of exosome-based therapeutics in neonatal lung injury. 2018 , 83, 298-307	40

364	Identification of exosomes and its signature miRNAs of male and female <i>Cynoglossus semilaevis</i> .	1
363	Mesenchymal Stem Cell-Derived Extracellular Vesicles: A Novel Cell-Free Therapy. 2020 , 49, 758-780	27
362	Exosomes derived from clinical-grade oral mucosal epithelial cell sheets promote wound healing. 2019 , 8, 1565264	40
361	MiR-101a loaded Extracellular Nanovesicles as Bioactive Carriers for Cardiac Repair.	2
360	Priming of MSCs with inflammation-relevant signals affects extracellular vesicle biogenesis, surface markers, and modulation of T cell subsets.	0
359	Antiviral effects of miRNAs in extracellular vesicles against severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) and mutations in SARS-CoV-2 RNA virus.	4
358	Stem cell basis of a host driven transmission of antigen packed aerosols: a novel mechanism of natural vaccination for tuberculosis.	2
357	The complex landscape of microRNAs in articular cartilage: biology, pathology, and therapeutic targets. 2018 , 3,	48
356	Regulation of chronic inflammatory and immune processes by extracellular vesicles. 2016 , 126, 1173-80	166
355	Exosomal signaling during hypoxia mediates microvascular endothelial cell migration and vasculogenesis. 2013 , 8, e68451	224
354	In vivo fluorescence imaging reveals the promotion of mammary tumorigenesis by mesenchymal stromal cells. 2013 , 8, e69658	27
353	Extracellular vesicles derived from mesenchymal stem cells: A platform that can be engineered. 2021 , 36, 615-632	3
352	The Effect of Mesenchymal Stem Cell-Derived Extracellular Vesicles on Hematopoietic Stem Cells Fate. 2017 , 7, 531-546	13
351	Mesenchymal Stem Cell-Derived Exosomes: A Promising Therapeutic Ace Card to Address Autoimmune Diseases. 2020 , 13, 13-23	26
350	Exosomes secreted from miRNA-29b-modified mesenchymal stem cells repaired spinal cord injury in rats. 2019 , 52, e8735	49
349	Extracellular vesicles derived from microRNA-150-5p-overexpressing mesenchymal stem cells protect rat hearts against ischemia/reperfusion. 2020 , 12, 12669-12683	14
348	Circulating exosomes potentiate tumor malignant properties in a mouse model of chronic sleep fragmentation. 2016 , 7, 54676-54690	45
347	Protein dysregulation in graft versus host disease. 2018 , 9, 1483-1491	9

346	Cellular evidence for nano-scale exosome secretion and interactions with spermatozoa in the epididymis of the Chinese soft-shelled turtle, <i>Pelodiscus sinensis</i> . 2016 , 7, 19242-50	13
345	Down-regulation of microRNA-320 suppresses cardiomyocyte apoptosis and protects against myocardial ischemia and reperfusion injury by targeting IGF-1. 2016 , 7, 39740-39757	55
344	Identification of the right cell sources for the production of therapeutically active extracellular vesicles in ischemic stroke. 2019 , 7, 188	16
343	Human Mesenchymal Stem Cell-derived Exosomes Reduce Ischemia/Reperfusion Injury by the Inhibitions of Apoptosis and Autophagy. 2018 , 24, 5334-5341	29
342	Exosomes in Therapy: Engineering, Pharmacokinetics and Future Applications. 2019 , 20, 87-95	22
341	Exosome: An Emerging Source of Biomarkers for Human Diseases. 2019 , 19, 387-394	15
340	Mesenchymal Stem Cell-derived Exosomes Rescue Oxygen-Glucose Deprivation-induced Injury in Endothelial Cells. 2020 , 17, 155-163	4
339	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
338	Emerging Role of Mesenchymal Stem Cell-derived Exosomes in Regenerative Medicine. 2019 , 14, 482-494	58
337	Effects of Extracellular Vesicles Derived from Mesenchymal Stem/Stromal Cells on Liver Diseases. 2019 , 14, 442-452	4
336	Recent Approaches for Angiogenesis in Search of Successful Tissue Engineering and Regeneration. 2020 , 15, 111-134	10
335	New Strategies to Enhance Myocardial Regeneration: Expectations and Challenges from Preclinical Evidence. 2020 , 15, 696-710	3
334	The Use of Mesenchymal Stem Cells and their Derived Extracellular Vesicles in Cardiovascular Disease Treatment. 2020 , 15, 623-638	8
333	Exosomes Function in Pro- and Anti-Angiogenesis. 2013 , 2, 54-59	112
332	Extracellular Vesicles Derived from Human Umbilical Cord Perivascular Cells Improve Functional Recovery in Brain Ischemic Rat via the Inhibition of Apoptosis. 2020 , 24, 347-60	2
331	The role of exosomes in peripheral nerve regeneration. 2015 , 10, 743-7	36
330	Emerging potential of exosomes for treatment of traumatic brain injury. 2017 , 12, 19-22	87
329	Multifunctional role of microRNAs in mesenchymal stem cell-derived exosomes in treatment of diseases. 2020 , 12, 1276-1294	16

328	Mesenchymal stem cells secretome: The cornerstone of cell-free regenerative medicine. 2020 , 12, 1529-1552	16
327	Mesenchymal stem cell-derived extracellular vesicles as a new therapeutic strategy for ocular diseases. 2020 , 12, 178-187	14
326	Stem cell therapy for COVID-19 and other respiratory diseases: Global trends of clinical trials. 2020 , 12, 471-480	6
325	Mesenchymal stem cells and mesenchymal stem cell-derived extracellular vesicles: Potential roles in rheumatic diseases. 2020 , 12, 688-705	6
324	Mesenchymal stem cell-derived exosomes: Toward cell-free therapeutic strategies in regenerative medicine. 2020 , 12, 814-840	18
323	Role of mesenchymal stem cell derived extracellular vesicles in autoimmunity: A systematic review. 2020 , 12, 879-896	12
322	Systems biology approach to developing S(2)RM-based "systems therapeutics" and naturally induced pluripotent stem cells. 2015 , 7, 745-56	5
321	Stem cell-derived exosomes as a therapeutic tool for cardiovascular disease. 2016 , 8, 297-305	37
320	Clinical-based Cell Therapies for Heart Disease-Current and Future State. 2020 , 11,	10
319	Extracellular Vesicles as a Source of Urological Biomarkers: Lessons Learned From Advances and Challenges in Clinical Applications to Major Diseases. 2017 , 21, 83-96	10
318	Impact of mesenchymal stem cell senescence on inflammaging. 2020 , 53, 65-73	22
317	Biomaterials-based Approaches for Cardiac Regeneration. 2021 , 51, 943-960	4
316	Blood derived extracellular vesicles as regenerative medicine therapeutics. 2021 ,	0
315	Exosomes Derived from miR-146a-5p-Enriched Mesenchymal Stem Cells Protect the Cardiomyocytes and Myocardial Tissues in the Polymicrobial Sepsis through Regulating MYBL1. 2021 , 2021, 1530445	1
314	Comparison of Surface Functionalization of PLGA Composite to Immobilize Extracellular Vesicles. 2021 , 13,	1
313	Novel Mechanisms of Exosome-Mediated Phagocytosis of Dead Cells in Injured Heart. 2021 , 129, 1006-1020	8
312	Cerebral derailment after myocardial infarct: mechanisms and effects of the signaling from the ischemic heart to brain. 2021 , 1	0
311	Diabetes complications and extracellular vesicle therapy. 2021 , 1	4

- 310 Extracellular vesicles in cardiovascular disease: Biological functions and therapeutic implications. **2021**, 108025 8
- 309 Current Status of Stem Cell Therapy and Nanofibrous Scaffolds in Cardiovascular Tissue Engineering. 1 0
- 308 Epicardial transplantation of autologous atrial appendage micrografts—evaluation of safety and feasibility in pigs after coronary artery occlusion.
- 307 Techniques for increasing the yield of stem cell-derived exosomes: what factors may be involved?. **2021**, 1 4
- 306 Development of extracellular vesicle-based medicinal products: A position paper of the group "Extracellular Vesicle translation to clinical perspectives - EVOLVE France". **2021**, 179, 114001 8
- 305 Role of Extracellular Vesicles in Tissue/Organ Regeneration. **2014**, 231-244 1
- 304 Overview of Extracellular Vesicles in Health and Disease. **2014**, 1-46
- 303 The Contribution of Mesenchymal Stromal Cells in Traumatic Brain Injury. **2015**, 221-259 1
- 302 Treating Hemophilia by Gene Therapy. **2016**, 179-201
- 301 Vésicules extra cellulaires : nouveaux agents thérapeutiques pour la réparation cardiaque ?. **2018**, 202, 755-769
- 300 Role of Mesenchymal Stem Cells-Derived Exosomes in Osteoarthritis Treatment. **2018**, 62, 19-23
- 299 EXTRACELLULAR MICROVESICULAR PARTICLES IN THE PATHOGENESIS OF TUBERCULOSIS. **2019**, 97, 41-51 1
- 298 Mesenchymal Stem Cell-Derived Extracellular Vesicles as Mediators of Anti-inflammatory Effects. **2019**, 89-123 1
- 297 Mesenchymal Stem (Stromal) Cell Communications in Their Niche and Beyond: The Role of Extracellular Vesicles and Organelle Transfer in Lung Regeneration. **2019**, 229-229
- 296 Mesenchymal Stromal Cell Secretome for Tissue Repair. **2019**, 1-26
- 295 Research Progress of Exosomes in Cardiovascular Diseases. **2019**, 09, 42-50
- 294 Future Perspectives of Bone Tissue Engineering with Special Emphasis on Extracellular Vesicles. **2019**, 159-169
- 293 Role of extracellular vesicles in diagnosis and treatment of liver fibrosis. **2019**, 27, 515-520

292	Oral cavity-derived exosomes as promising tool in chronic wound healing. 2019 , 7, 100-104	0
291	From mesenchymal stem cells and stromal cells - from bench to bedside. 2019 , 1, 36-39	
290	The role of tumor-derived exosomes in tumor angiogenesis and tumor progression. 2019 , 32, 193-202	5
289	Exosomes of Multipotent Mesenchymal Stem Cells: Prospects for Clinical Application. 2020 , 34-51	
288	Engineered extracellular vesicle decoy receptor-mediated modulation of the IL6 trans-signalling pathway in muscle.	
287	The advances in human oral biology and biotechnology. 2020 , 8, 88-94	
286	Novel Players and a Target of Stem Cell Therapy for the Heart. 2020 , 84, 1230-1231	
285	Latest Trend of Milk Derived Exosomes: Cargos, Functions, and Applications. 2021 , 8, 747294	7
284	Insights of Extracellular Vesicles of Mesenchymal Stem Cells: a Prospective Cell-Free Regenerative Medicine for Neurodegenerative Disorders. 2021 , 1	3
283	Mesenchymal Stem Cell-Derived Exosomes and MicroRNAs in Cartilage Regeneration: Biogenesis, Efficacy, miRNA Enrichment and Delivery. 2021 , 14,	3
282	Advances in extracellular vesicles analysis. 2020 , 97, 73-116	2
281	Isolation and characterization of exosomes from adipose tissue-derived mesenchymal stem cells. 2021 , 238, 1203-1217	6
280	Exosome as a novel nanocarriers for therapeutic delivery. 2020 , 35, 35-46	0
279	Mesenchymal Stem Cells for Cutaneous Wound Healing. 2020 , 247-267	0
278	Extracellular Vesicles Derived From Regeneration Associated Cells Preserve Heart Function After Ischemia-Induced Injury. 2021 , 8, 754254	0
277	Cardiomyocytes Cellular Phenotypes After Myocardial Infarction. 2021 , 8, 750510	3
276	Stem Cell Therapy to Improve Acute Myocardial Infarction Remodeling. 2021 , 299-329	
275	The Effect of Human Umbilical Cord Blood- Mesenchymal Stem Cells-Derived Secretome on the Proliferation and Migration of Endothelial Progenitor Cells. 2021 , 622-630	

274	Effect of mesenchymal stem cells on Doxorubicin-induced fibrosis. 2012 , 14, 142-51	23
273	The role of microvesicles derived from mesenchymal stem cells in tissue regeneration; a dream for tendon repair?. 2012 , 2, 212-21	20
272	Platelet-derived microvesicles are involved in cardio-protective effects of remote preconditioning. 2015 , 8, 10832-9	21
271	Mesenchymal Stem Cell Derived Exosomes: A New Hope for the Treatment of Cardiovascular Disease?. 2014 , 30, 395-400	15
270	Let-7a inhibits migration of melanoma cells via down-regulation of HMGA2 expression. 2016 , 8, 3656-3665	6
269	HucMSC exosomes-delivered 14-3-3 ζ enhanced autophagy via modulation of ATG16L in preventing cisplatin-induced acute kidney injury. 2018 , 10, 101-113	32
268	Mesenchymal Stromal Stem Cell-Derived Microvesicles Enhance Tumor Lysate Pulsed Dendritic Cell Stimulated Autologous T lymphocyte Cytotoxicity. 2018 , 19, 1895-1902	2
267	A Simplified Protocol for the Purification of Schwann Cells and Exosome Isolation from C57BL/6 Mice. 2018 , 7, 9-15	2
266	Potential role of exosomes in the pathophysiology, diagnosis, and treatment of hypoxic diseases. 2019 , 11, 1184-1201	20
265	Focus on exosomes: novel pathogenic components of leukemia. 2019 , 9, 1815-1829	15
264	Mesenchymal stem cell-derived exosomes do not promote the proliferation of cancer cells. 2019 , 11, 177-189	7
263	Mesenchymal stem cell related therapies for cartilage lesions and osteoarthritis. 2019 , 11, 6275-6289	54
262	The effects of local injection of exosomes derived from BMSCs on random skin flap in rats. 2019 , 11, 7063-7073	5
261	Mesenchymal stem cell-derived extracellular vesicles promote apoptosis in RSC96 Schwann cells through the activation of the ERK pathway. 2018 , 11, 5157-5170	4
260	The Antiangiogenic Properties of Adipose-Derived Mesenchymal Stem/Stromal Cells in Corneal Neovascularization in a Rabbit Model. 2020 , 9, 74-84	2
259	Exosomes released by human umbilical cord mesenchymal stem cells protect against renal interstitial fibrosis through ROS-mediated P38MAPK/ERK signaling pathway. 2020 , 12, 4998-5014	8
258	Extracellular vesicles - mediating and delivering cardioprotection in acute myocardial infarction and heart failure. 2020 , 3, 227-238	0
257	Technological Advances of 3D Scaffold-Based Stem Cell/Exosome Therapy in Tissues and Organs. 2021 , 9, 709204	1

256	Harnessing Tissue-derived Extracellular Vesicles for Osteoarthritis Theranostics.. 2022 , 12, 207-231	4
255	Secretome, Extracellular Vesicles, Exosomes. 2022 , 155-166	
254	Bone marrow- or adipose-mesenchymal stromal cell secretome preserves myocardial transcriptome profile and ameliorates cardiac damage following ex vivo cold storage. 2021 , 164, 1-12	0
253	Technological Advances of 3D Scaffold-Based Stem Cell/Exosome Therapy in Tissues and Organs. 2021 , 9, 709204	4
252	Proteomic Analysis of Mesenchymal Stromal Cell-Derived Extracellular Vesicles and Reconstructed Membrane Particles. 2021 , 22,	1
251	Impact of the Main Cardiovascular Risk Factors on Plasma Extracellular Vesicles and Their Influence on the Heart's Vulnerability to Ischemia-Reperfusion Injury.. 2021 , 10,	2
250	Restoring Cardiac Functions after Myocardial Infarction-Ischemia/Reperfusion via an Exosome Anchoring Conductive Hydrogel. 2021 , 13, 56892-56908	5
249	Chondrogenic differentiation induced by extracellular vesicles bound to a nanofibrous substrate. 2021 , 6, 79	2
248	Extracellular Vesicles Generated Using Bioreactors and their Therapeutic Effect on the Acute Kidney Injury Model. 2021 , e2101606	2
247	Emerging Antioxidant Paradigm of Mesenchymal Stem Cell-Derived Exosome Therapy.. 2021 , 12, 727272	4
246	The anti-inflammatory effects of equine bone marrow stem cell-derived extracellular vesicles on autologous chondrocytes. 2021 , 8, e22	2
245	Extracellular Vesicles in Lung Cancer Metastasis and Their Clinical Applications. 2021 , 13,	3
244	Enhancing the Therapeutic Potential of Extracellular Vesicles Using Peptide Technology. 2022 , 2383, 119-141	1
243	Extracellular Vesicles Released from Neprilysin Gene-Modified Human Umbilical Cord-Derived Mesenchymal Stem Cell Enhance Therapeutic Effects in an Alzheimer's Disease Animal Model.. 2021 , 2021, 5548630	0
242	Extracellular vesicles in pharmacology: Novel approaches in diagnostics and therapy. 2021 , 175, 105980	1
241	Extracellular vesicles derived from head and neck squamous cells carcinoma inhibit NLRP3 inflammasomes.. 2021 , 2, 175-183	2
240	Practical considerations in transforming MSC therapy for neurological diseases from cell to EV.. 2021 , 349, 113953	0
239	Plasma-derived extracellular vesicles from myocardial infarction patients inhibits tumor necrosis factor-alpha induced cardiac cell death.. 2021 , 70, 103323	0

- 238 Mesenchymal Stromal Cell Exosomes in Cardiac Repair.. **2022**, 24, 405
- 237 Tetraspanins as Potential Modulators of Glutamatergic Synaptic Function.. **2021**, 14, 801882 2
- 236 Exosomes Derived from Human Umbilical Cord Mesenchymal Stem Cells Alleviate Psoriasis-like Skin Inflammation.. **2022**, 42, 8-18 0
- 235 Stem Cell and Exosome Therapy in Pulmonary Hypertension.. **2022**, 52, 110-122 1
- 234 Integrated view of molecular diagnosis and prognosis of dengue viral infection: future prospect of exosomes biomarkers.. **2022**, 477, 815 0
- 233 Exosomes in cancer immunoediting and immunotherapy.. **2022**, 17, 193-205 0
- 232 The roles and therapeutic approaches of MSC-derived exosomes in colorectal cancer.. **2022**, 1 0
- 231 Mesenchymal Stem Cell Exosomes Promote Functional Osteochondral Repair in a Clinically Relevant Porcine Model.. **2022**, 3635465211068129 1
- 230 3D-MSCs A151 ODN-Loaded Exosomes Are Immunomodulatory And Reveal A Proteomic Cargo That Sustains Wound Resolution. **2022**, 0
- 229 The versatility of mesenchymal stem cells: From regenerative medicine to COVID, what is next?. **2022**, 46, 913-922 1
- 228 Targeted Delivery of Exosomes Armed with Anti-Cancer Therapeutics.. **2022**, 12, 5
- 227 The Anti-Angiogenic Effect of Atorvastatin Loaded Exosomes on Glioblastoma Tumor Cells: An in Vitro 3D Culture Model. 0
- 226 Mesenchymal stem cell-derived exosome: The likely game-changer in stem cell research. **2022**, 46, 1169-1172 0
- 225 Sustained released of bioactive mesenchymal stromal cell-derived extracellular vesicles from 3D-printed gelatin methacrylate hydrogels.. **2022**, 1
- 224 Hypoxia pretreatment improves the therapeutic potential of bone marrow mesenchymal stem cells in hindlimb ischemia via upregulation of NRG-1.. **2022**, 388, 105 0
- 223 MSC therapy in livestock models.. **2022**, 6, txac012 0
- 222 Exosomes and exosome-mimetics as targeted drug carriers: Where we stand and what the future holds?. **2022**, 68, 103057 0
- 221 Infiltration of the Hoffa's fat pad with stromal vascular fraction in patients with osteoarthritis of the knee -Results after one year of follow-up-. **2022**, 16, 101168 0

220	Advances in Mesenchymal Stem Cell-Derived Exosomes as Drug Delivery Vehicles.. 2021 , 9, 797359	4
219	Biogenesis and Function of Extracellular Vesicles in Pathophysiological Processes Skeletal Muscle Atrophy.. 2022 , 114954	0
218	Enzymatic self-assembly nanofibers anchoring mesenchymal stem cells induce cell spheroids and amplify paracrine function for myocardial infarction therapy. 2022 , 135224	0
217	Mesenchymal Stem Cell-Derived Extracellular Vesicles: The Novel Therapeutic Option for Regenerative Dentistry.. 2022 , 1	
216	The promising role of autologous and allogeneic mesenchymal stromal cells in managing knee osteoarthritis. What is beyond Mesenchymal stromal cells?. 2022 , 26, 101804	0
215	Prospects of Mesenchymal Stem Cell Secretome in Veterinary Regenerative Therapy. 2021 , 271-287	1
214	Mesenchymal Stem Cell (MSCs) Therapy for Ischemic Heart Disease: A Promising Frontier.. 2022 , 17, 19	0
213	Stem Cells Storage, Packaging, and Transportation. 2022 , 233-255	
212	Mesenchymal stem cell secretome and nanotechnology: Combining therapeutic strategies. 2022 , 46, 1-7	1
211	Extraction of Exosomes and Exosomal miRNA from Mesenchymal Stem Cells.. 2022 , 2455, 333-341	1
210	Stem Cell Therapy: Significance and Applications of Stem Cell Products in Tissue Engineering and Regenerative Medicine. 2022 , 1-21	
209	Modified Exosomes: a Good Transporter for miRNAs within Stem Cells to Treat Ischemic Heart Disease.. 2022 , 1	2
208	Human adipose mesenchymal stem cells modulate inflammation and angiogenesis through exosomes.. 2022 , 12, 2776	2
207	Comparison of Yield, Purity, and Functional Properties of Large-Volume Exosome Isolation Using Ultrafiltration and Polymer-Based Precipitation.. 2022 , 149, 638-649	0
206	Chemical Advances in Therapeutic Application of Exosomes and Liposomes.. 2022 ,	1
205	Exosomes from tendon derived stem cells promote tendon repair through miR-144-3p-regulated tenocyte proliferation and migration.. 2022 , 13, 80	3
204	Mesenchymal Stem Cell-Derived Extracellular Vesicles: Immunomodulatory Effects and Potential Applications in Intervertebral Disc Degeneration.. 2022 , 2022, 7538025	1
203	Implication of Mesenchymal Stem Cells and Their Derivates for Osteochondral Regeneration.. 2022 , 23,	0

202	Mesenchymal Stem Cell Exosomes Promote Growth Plate Repair and Reduce Limb-Length Discrepancy in Young Rats.. 2022,	
201	Mechanism for the attenuation of neutrophil and complement hyperactivity by MSC exosomes.. 2022,	2
200	Functional Extracellular Vesicles for Regenerative Medicine.. 2022, e2106569	1
199	Liquid biopsy: a step closer to transform diagnosis, prognosis and future of cancer treatments.. 2022, 21, 79	15
198	Extracellular Vesicles and Acute Kidney Injury: Potential Therapeutic Avenue for Renal Repair and Regeneration.. 2022, 23,	0
197	Strategies for Targeted Delivery of Exosomes to the Brain: Advantages and Challenges.. 2022, 14,	3
196	Transforming growth factor- β -family and stem cell-derived exosome therapeutic treatment in osteoarthritis (Review).. 2022, 49,	0
195	Bionanoparticles in cancer imaging, diagnosis, and treatment. 20200027	2
194	Effects of exosomes on adult hippocampal neurogenesis and neuropsychiatric disorders.. 2022, 1	0
193	Human Bone Marrow Stromal Cell Exosomes Ameliorate Periodontitis.. 2022, 220345221084975	2
192	Recent Advances in the Application of Mesenchymal Stem Cell-Derived Exosomes for Cardiovascular and Neurodegenerative Disease Therapies.. 2022, 14,	0
191	A Novel 3D Culture System Using a Chitin-Based Polysaccharide Material Produces High-Quality Allogeneic Human UCMSCs with Dispersed Sphere Morphology.. 2022, 11,	
190	Exosomes as bio-inspired nanocarriers for RNA delivery: preparation and applications.. 2022, 20, 125	6
189	Therapeutically harnessing extracellular vesicles.. 2022,	17
188	Methods for the identification and characterization of extracellular vesicles in cardiovascular studies - from exosomes to microvesicles.. 2022,	4
187	New advances in exosome-based targeted drug delivery systems.. 2022, 172, 103628	5
186	Mesenchymal Stem Cell-Derived Extracellular Vesicles in the Management of COVID19-Associated Lung Injury: A Review on Publications, Clinical Trials and Patent Landscape.. 2022, 1	1
185	Therapeutic properties of stem cell-derived exosomes in ischemic heart disease.. 2022, 920, 174839	1

184	A systematic review on the role of MSC-derived exosomal miRNAs in the treatment of heart failure.. 2022 , 1	0
183	Autophagy Reprogramming Stem Cell Pluripotency and Multiple-lineage Differentiation.. 2022 ,	0
182	Regenerative medicine 2.0: extracellular vesicle-based therapeutics for musculoskeletal tissue regeneration.. 2022 , 1-7	0
181	MiR-183-5p overexpression in bone mesenchymal stem cell-derived exosomes protects against myocardial ischemia/reperfusion injury by targeting FOXO1.. 2022 , 227, 152204	1
180	Comparative analysis of extracellular vesicles isolated from human mesenchymal stem cells by different isolation methods and visualisation of their uptake.. 2022 , 414, 113097	2
179	Exosomes derived from differentiated human ADMSC with the Schwann cell phenotype modulate peripheral nerve-related cellular functions.. 2022 , 14, 61-75	5
178	Therapeutic Effects of Hypoxic and Pro-Inflammatory Priming of Mesenchymal Stem Cell-Derived Extracellular Vesicles in Inflammatory Arthritis.. 2021 , 23,	1
177	Mesenchymal stromal cell-derived small extracellular vesicles modulate macrophage polarization and enhance angio-osteogenesis to promote bone healing. 2021 , 9, 841-841	1
176	Extracellular Vesicles in Musculoskeletal Regeneration: Modulating the Therapy of the Future.. 2021 , 11,	2
175	Evaluation of bone marrow-derived cell-based therapies in the hindlimb ischaemia model: a protocol for a systematic review and meta-analysis.. 2021 , 5, e100209	
174	Mesenchymal Stem Cell-Derived Exosomes Modulate Chondrocyte Glutamine Metabolism to Alleviate Osteoarthritis Progression.. 2021 , 2021, 2979124	0
173	A systematic review on the modifications of extracellular vesicles: a revolutionized tool of nano-biotechnology.. 2021 , 19, 459	3
172	Anti-Inflammatory Mesenchymal Stromal Cell-Derived Extracellular Vesicles Improve Pathology in Niemann-Pick Type C Disease.. 2021 , 9,	1
171	Modern Approaches to Acellular Therapy in Bone and Dental Regeneration.. 2021 , 22,	0
170	Regeneration and Diagnosis of Kidney Disease Using Exosomes. 2021 , 12,	
169	[Therapeutic applications of extracellular vesicles].. 2021 , 37, 1146-1157	0
168	Therapeutic applications of exosomes in various diseases: A review.. 2021 , 112579	0
167	Potential Applications and Functional Roles of Exosomes in Cardiometabolic Disease.. 2021 , 13,	0

166	Modulation of Mesenchymal Stem Cells for Enhanced Therapeutic Utility in Ischemic Vascular Diseases.. 2021 , 23,	3
165	LncRNA TUG1 aggravates cardiomyocyte apoptosis and myocardial ischemia/reperfusion injury. 2021 , 18381	1
164	Leveraging Extracellular Non-coding RNAs to Diagnose and Treat Heart Diseases.. 2022 , 1	0
163	Mesenchymal stem cell-derived exosomal microRNA-182-5p alleviates myocardial ischemia/reperfusion injury by targeting GSDMD in mice.. 2022 , 8, 202	0
162	The implications of exosomes in pregnancy: emerging as new diagnostic markers and therapeutics targets.. 2022 , 20, 51	3
161	Table_1.DOCX. 2020 ,	
160	Data_Sheet_1.PDF. 2020 ,	
159	Data_Sheet_1.docx. 2018 ,	
158	Table_1.xlsx. 2018 ,	
157	Data_Sheet_1.PDF. 2020 ,	
156	Presentation_1.pdf. 2018 ,	
155	Table_1.DOCX. 2019 ,	
154	Data_Sheet_1.docx. 2018 ,	
153	Image_1.png. 2020 ,	
152	Data_Sheet_1.PDF. 2018 ,	
151	Isolation of Circulating Extracellular Vesicles by High-Performance Size-Exclusion Chromatography.. 2022 , 2504, 31-40	1
150	Juvenile Plasma Factors Improve Organ Function and Survival following Injury by Promoting Antioxidant Response.. 2022 , 13, 568-582	
149	Biology of the Extracellular Proteasome. 2022 , 12, 619	2

148	Engineering Injectable Anti-Inflammatory Hydrogels to Treat Acute Myocardial Infarction. 2200008	2
147	Musculoskeletal tissue engineering: Adipose derived stromal cell implementation for the treatment of osteoarthritis. 2022 , 121544	1
146	Current Understanding of Extracellular Vesicle Homing/Tropism. 2022 , 2,	2
145	Extracellular vesicles derived from human bone marrow mesenchymal stem cells protect rats against acute myocardial infarction-induced heart failure.. 2022 , 1	0
144	Engineering Extracellular Microenvironment for Tissue Regeneration. 2022 , 9, 202	1
143	Hypoxia-induced mesenchymal stem cells inhibit corneal fibroblast proliferation by regulating the WWP2/Notch1 axis.. 2022 ,	
142	Biomedical applications of three-dimensional bioprinted craniofacial tissue engineering.	1
141	Preconditioning and Engineering Strategies for Improving the Efficacy of Mesenchymal Stem Cell-Derived Exosomes in Cell-Free Therapy. 2022 , 2022, 1-18	2
140	Mesenchymal Stem Cells for Cardiac Repair. 2022 , 1-53	
139	Mesenchymal stromal cell-derived extracellular vesicles: novel approach in hematopoietic stem cell transplantation.. 2022 , 13, 202	0
138	Exosome Odyssey to Original Line in Dental Regeneration.. 2022 ,	0
137	Function and therapeutic development of exosomes for cancer therapy.	1
136	Cellular Crosstalk in the Vascular Wall Microenvironment: The Role of Exosomes in Vascular Calcification. 2022 , 9,	1
135	Extracellular vesicles: from bench to bedside. 2022 , 1,	0
134	Modulation of Tissue Microenvironment Following Myocardial Infarction. 2200005	
133	Quantitative Biodistribution and Pharmacokinetics Study of GMP-Grade Exosomes Labeled with ⁸⁹ Zr Radioisotope in Mice and Rats. 2022 , 14, 1118	2
132	Secondary Mechanisms of Neurotrauma: A Closer Look at the Evidence. 2022 , 10, 30	1
131	Extracellular Vesicles in Cardiovascular Diseases: Diagnosis and Therapy. 2022 , 10,	2

130	MSC-Derived Extracellular Vesicles Activate Mitophagy to Alleviate Renal Ischemia/Reperfusion Injury via the miR-223-3p/NLRP3 Axis. 2022 , 2022, 1-20	1
129	Exposure of intestinal explants to NX, but not to DON, enriches the secretome in mitochondrial proteins.	0
128	Stem cell membrane, stem cell-derived exosomes and hybrid stem cell camouflaged nanoparticles: A promising biomimetic nanoplatforms for cancer theranostics. 2022 , 348, 706-722	3
127	Well-orchestrated physico-chemical and biological factors for enhanced secretion of osteogenic and angiogenic extracellular vesicles by mesenchymal stem cells in a 3D culture format.	0
126	Mesenchymal Stem Cell Secretome: A Potential Biopharmaceutical Component to Regenerative Medicine?. 2022 , 1-33	
125	Mesenchymal Stem Cell-Derived Extracellular Vesicles: Progress and Remaining Hurdles in Developing Regulatory Compliant Quality Control Assays. 2022 ,	
124	Efficient engineering of human auricular cartilage through mesenchymal stem cell chaperoning.	1
123	Extracellular vesicles: Emerging frontiers in wound healing.	1
122	Stem Cell-Derived Exosomes: A New Method for Reversing Skin Aging.	0
121	Amyotrophic Lateral Sclerosis Proteomic Signature And Treatment With Mesenchymal Stem Cell-derived Extracellular Vesicles.	
120	Osteoporosis treatment by mesenchymal stromal/stem cells and their exosomes: Emphasis on signaling pathways and mechanisms. 2022 , 120717	0
119	iPSCs in NK Cell Manufacturing and NKEV Development. 13,	0
118	De novo DNA methylation induced by circulating extracellular vesicles from acute coronary syndrome patients. 2022 , 354, 41-52	1
117	Potential Cell-Based and Cell-Free Therapy for Patients with COVID-19. 2022 , 11, 2319	1
116	Review on the roles of specific cell-derived exosomes in Alzheimer's disease. 16,	1
115	Infarct-preconditioning exosomes of umbilical cord mesenchymal stem cells promoted vascular remodeling and neurological recovery after stroke in rats. 2022 , 13,	1
114	New Approaches for Enhancement of the Efficacy of Mesenchymal Stem Cell-Derived Exosomes in Cardiovascular Diseases.	4
113	The potential role of circulating exosomes in protecting myocardial injury in acute myocardial infarction via regulating miR-190a-3p/CXCR4/CXCL12 pathway.	

112	Extracellular Vesicles for Regenerative Medicine Applications. 2022 , 12, 7472	0
111	Shared and Divergent Epigenetic Mechanisms in Cachexia and Sarcopenia. 2022 , 11, 2293	2
110	Evaluation of the Therapeutic Potential of Mesenchymal Stem Cells (MSCs) in Preclinical Models of Autoimmune Diseases. 2022 , 2022, 1-8	1
109	Islet-1 Mesenchymal Stem Cells-Derived Exosome-Incorporated Angiogenin-1 Hydrogel for Enhanced Acute Myocardial Infarction Therapy. 2022 , 14, 36289-36303	1
108	Dynamic Culture of Mesenchymal Stromal/Stem Cell Spheroids and Secretion of Paracrine Factors. 10,	0
107	Exosomes in craniofacial tissue reconstruction. 2022 , 44,	
106	Exosomal circular RNAs: Biogenesis, effect, and application in cardiovascular diseases. 10,	2
105	A tailored bioactive 3D porous poly(lactic-acid)-exosome scaffold with osteo-immunomodulatory and osteogenic differentiation properties. 2022 , 16,	0
104	Human mesenchymal stromal cells release functional mitochondria in extracellular vesicles. 10,	4
103	Epicardial transplantation of autologous atrial appendage micrografts: evaluation of safety and feasibility in pigs after coronary artery occlusion. 2022 , 56, 352-360	0
102	A novel therapeutic strategy for alleviating atrial remodeling by targeting exosomal miRNAs in atrial fibrillation. 2022 , 1869, 119365	2
101	Exosomes in schizophrenia: Pathophysiological mechanisms, biomarkers, and therapeutic targets. 2022 , 65,	0
100	Cell secretomes for wound healing and tissue regeneration: Next generation acellular based tissue engineered products. 2022 , 13, 204173142211142	0
99	Stem Cell-Derived Exosomes: A Promising Therapeutic Role in Animal Models with Colorectal Cancer. 2022 , 1-19	0
98	Nanovesicles for drug codelivery. 2022 , 21-37	0
97	Perinatal derivatives: How to best validate their immunomodulatory functions. 10,	1
96	Microenvironmental cue-regulated exosomes as therapeutic strategies for improving chronic wound healing. 2022 , 14,	2
95	Role of adiponectin in osteoarthritis. 10,	0

94	Melatonin pretreatment on exosomes: Heterogeneity, therapeutic effects, and usage. 13,	1
93	Mesenchymal stem cell-derived exosomes in cancer therapy resistance: recent advances and therapeutic potential. 2022 , 21,	2
92	Effect of adipose-derived exosome and exosomal miRNA on glycolipid metabolism. 2022 , 2,	0
91	Study of immunomodulatory effects of mesenchymal stem cell-derived exosomes in mouse model of LPS induced systemic inflammation. 2022 , 120938	0
90	LPS preconditioning of MSC-CM improves protection against hypoxia/reoxygenation-induced damage in H9c2 cells partly via HMGB1 /Bach1 signalling.	0
89	3D-printed hydroxyapatite (HA) scaffolds combined with exos from BMSCs cultured in 3D HA scaffolds to repair bone defects. 2022 , 110315	0
88	Facile and scalable fabrication of exosome-mimicking nanovesicles through PEGylated lipid detergent-aided cell extrusion.	0
87	Small extracellular vesicles from young adipose-derived stem cells prevent frailty, improve health span, and decrease epigenetic age in old mice. 2022 , 8,	1
86	The role of miRNAs from mesenchymal stem/stromal cells-derived extracellular vesicles in neurological disorders.	1
85	Mesenchymal Stem Cell-Derived Extracellular Vesicles for Therapeutic Use and in Bioengineering Applications. 2022 , 11, 3366	1
84	Mesenchymal-Stem-Cell-Based Strategies for Retinal Diseases. 2022 , 13, 1901	0
83	Adipose-Derived Stem Cell Exosomes and Related microRNAs in Atherosclerotic Cardiovascular Disease.	0
82	Biomaterial-embedded extracellular vesicles improve recovery of the dysfunctional myocardium. 2022 , 121877	0
81	Current knowledge and future perspectives on exosomes in the field of regenerative medicine: a bibliometric analysis.	0
80	Next generation of Neurological Therapeutics: Native and Bioengineered Extracellular Vesicles Derived from Stem Cells. 2022 ,	0
79	The interactions between extracellular vesicles and mesenchymal stem cells: Their potential roles in osteoarthritis development and cartilage repair. 2022 , 1, 100011	0
78	Mesenchymal Stem Cell Secretome: A Potential Biopharmaceutical Component to Regenerative Medicine. 2022 , 973-1005	0
77	Mesenchymal Stem Cells for Cardiac Repair. 2022 , 269-321	0

76	Exosomes-Nature's Lipid Nanoparticles, a Rising Star in Drug Delivery and Diagnostics.	3
75	From Promise to Reality: Bioengineering Strategies to Enhance the Therapeutic Potential of Extracellular Vesicles. 2022 , 9, 675	0
74	Cell-based therapy in prophylaxis and treatment of chronic graft-versus-host disease. 13,	1
73	pSILAC-Based Determination of Cellular Protein Sorting into Extracellular Vesicles. 2023 , 43-58	0
72	Inflammation in myocardial infarction: roles of mesenchymal stem cells and their secretome. 2022 , 8,	1
71	Mesenchymal stromal cells as treatment for acute respiratory distress syndrome. Case Reports following hematopoietic cell transplantation and a review. 13,	1
70	Advances in Extracellular Vesicle Nanotechnology for Precision Theranostics. 2204814	0
69	Stem Cell-Niche Engineering via Multifunctional Hydrogel Potentiates Stem Cell Therapies for Inflammatory Bone Loss. 2209466	0
68	Mesenchymal Stem Cell Secreted-Extracellular Vesicles are Involved in Chondrocyte Production and Reduce Adipogenesis during Stem Cell Differentiation.	1
67	A human kidney and liver organoid-based multi-organ-on-a-chip model to study the therapeutic effects and biodistribution of mesenchymal stromal cell-derived extracellular vesicles. 2022 , 11, 12280	0
66	Mesenchymal Stem Cell-Derived Extracellular Vesicles Therapy for Pulmonary Hypertension: A Comprehensive Review of Preclinical Studies. 2022 , 2022, 1-11	1
65	Stem Cell-Derived Exosomes: A New Therapeutic Strategy in Regenerative Medicine. 2022 , 12, 11329-11337	0
64	Human Forebrain Organoid-Derived Extracellular Vesicle Labeling with Iron Oxides for In Vitro Magnetic Resonance Imaging. 2022 , 10, 3060	1
63	ADSC-derived exosomes attenuate myocardial infarction injury by promoting miR-205- mediated cardiac angiogenesis.	0
62	The Role of Extracellular Vesicles in Optic Nerve Injury: Neuroprotection and Mitochondrial Homeostasis. 2022 , 11, 3720	2
61	Therapeutic Potential of Extracellular Vesicles in Aging and Age-Related Diseases. 2022 , 23, 14632	1
60	Soluble components from mesenchymal stromal cell processing exert anti-inflammatory effects and facilitate ischemic muscle regeneration. 2022 ,	0
59	Combined Application of Exosomes and FPR2 Agonist LXA4 in Controlling Fetal Membrane Inflammation and Promoting Fetal Membrane Tissue Repair.	0

- 58 Anti-Inflammatory Drug Candidates for Prevention and Treatment of Cardiovascular Diseases. **2023**, 16, 78 ○
- 57 Evaluation of the Potential of Umbilical Cord Mesenchymal Stromal Cell-Derived Small Extracellular Vesicles to Improve Rotator Cuff Healing: A Pilot Ovine Study. 036354652211459 ○
- 56 Effects of mesenchymal stem cell-derived nanovesicles in experimental allergic airway inflammation. **2023**, 24, ○
- 55 Hypoxia-Elicited Mesenchymal Stem Cell-Derived Small Extracellular Vesicles Alleviate Myocardial Infarction by Promoting Angiogenesis through the miR-214/Sufu Pathway. **2023**, 2023, 1-14 ○
- 54 The potential therapeutic role of extracellular vesicles in critical-size bone defects: Spring of cell-free regenerative medicine is coming. 11, ○
- 53 Exosome therapies improve outcome in rodents with ischemic stroke; meta-analysis. **2023**, 1803, 148228 ○
- 52 Exosome-Based Cell Homing and Angiogenic Differentiation for Dental Pulp Regeneration. **2023**, 24, 466 ○
- 51 Exosomes derived from mesenchymal stem cells: A promising cell-free therapeutic tool for cutaneous wound healing. **2023**, ○
- 50 Extracellular Vesicles as New Players in Drug Delivery: A Focus on Red Blood Cells-Derived EVs. **2023**, 15, 365 1
- 49 Stem cells, organoids, and cellular therapy. **2023**, 233-263 ○
- 48 The potential value of exosomes as adjuvants for novel biologic local anesthetics. 14, ○
- 47 Stem cell- derived extracellular vesicles as new tools in regenerative medicine - Immunomodulatory role and future perspectives. 14, ○
- 46 Small Extracellular Vesicles as a New Class of Medicines. **2023**, 15, 325 1
- 45 Extracellular Vesicles from Mesenchymal Stem Cells: Towards Novel Therapeutic Strategies for Neurodegenerative Diseases. **2023**, 24, 2917 ○
- 44 Challenges and strategies: Scalable and efficient production of mesenchymal stem cells-derived exosomes for cell-free therapy. **2023**, 319, 121524 ○
- 43 Genetically Modified Mesenchymal Stromal Cells in Cartilage Regeneration. ○
- 42 Circulating extracellular vesicles promote recovery in a preclinical model of intracerebral hemorrhage. **2023**, 32, 247-262 ○
- 41 Administration of stem cells against cardiovascular diseases with a focus on molecular mechanisms: Current knowledge and prospects. **2023**, 81, 102030 ○

40	Extracellular vesicle-based therapeutics: Extracellular vesicles as therapeutic targets and agents. 2023 , 242, 108352	2
39	Stem Cell-Derived Exosomes: A Promising Therapeutic Role in Animal Models with Colorectal Cancer. 2023 , 757-775	0
38	Exosomal HSP90 induced by remote ischemic preconditioning alleviates myocardial ischemia/reperfusion injury by inhibiting complement activation and inflammation. 2023 , 23,	0
37	HuMSC-EV induce monocyte/macrophage mobilization to orchestrate neovascularization in wound healing process following radiation injury. 2023 , 9,	0
36	Microneedle Patch Loaded with Exosomes Containing MicroRNA-29b Prevents Cardiac Fibrosis after Myocardial Infarction. 2202959	1
35	Manufacture of extracellular vesicles derived from mesenchymal stromal cells. 2023 ,	0
34	Micro RNA based MSC EV engineering: Targeting the BMP2 cascade for bone repair. 11,	0
33	A compendium of single extracellular vesicle flow cytometry. 2023 , 12,	0
32	Extracellular vesicles and Duchenne muscular dystrophy pathology: Modulators of disease progression. 14,	0
31	Dermal Papilla Cell-Derived Exosomes Regulate Hair Follicle Stem Cell Proliferation via LEF1. 2023 , 24, 3961	0
30	Impact of extracellular vesicles on the pathogenesis, diagnosis, and potential therapy in cardiopulmonary disease. 14,	0
29	Mesenchymal stem cell-derived extracellular vesicles/exosome: A promising therapeutic strategy for intracerebral hemorrhage. 2023 , 22, 181-190	0
28	A novel purity analysis method of bovine milk-derived exosomes by two-dimensional high-performance liquid chromatography.	0
27	Role of Mesenchymal Stem/Stromal Cells in Modulating Ischemia/Reperfusion Injury: Current State of the Art and Future Perspectives. 2023 , 11, 689	0
26	Photodynamic Effects with 5-Aminolevulinic Acid on Cytokines and Exosomes in Human Peripheral Blood Mononuclear Cells from Patients with Crohn's Disease. 2023 , 24, 4554	0
25	Bioengineered MSC-derived exosomes in skin wound repair and regeneration. 11,	0
24	ADSC-derived exosomes attenuate myocardial infarction injury by promoting miR-205-mediated cardiac angiogenesis. 2023 , 18,	1
23	Effects of stem cell-derived exosome therapy on erectile dysfunction: a systematic review and meta-analysis of preclinical studies. 2023 , 11,	0

- 22 In Search of the Holy Grail: Stem Cell Therapy as a Novel Treatment of Heart Failure with Preserved Ejection Fraction. **2023**, 24, 4903 ○
- 21 Extracellular Vesicles as Drug Delivery Systems in Organ Transplantation: The Next Frontier. **2023**, 15, 891 ○
- 20 Apigenin reduces the suppressive effect of exosomes derived from irritable bowel syndrome patients on the autophagy of human colon epithelial cells by promoting ATG14. **2023**, 21, ○
- 19 Placental Extracellular Vesicles Can Be Loaded with Plasmid DNA. **2023**, 20, 1898-1913 ○
- 18 Exosomes in COVID-19 infection: Focus on role in diagnosis, pathogenesis, immunity, and clinical trials. ○
- 17 Exercise Improves Metabolism and Alleviates Atherosclerosis via Muscle-Derived Extracellular Vesicles. **2022**, 0 ○
- 16 Neural stem cell-derived extracellular vesicles favour neuronal differentiation and plasticity under stress conditions. 16, ○
- 15 LncRNA GHET1 from bone mesenchymal stem cell-derived exosomes improves doxorubicin-induced pyroptosis of cardiomyocytes by mediating NLRP3. ○
- 14 Non-Classical Intercellular Communications: Basic Mechanisms and Roles in Biology and Medicine. **2023**, 24, 6455 ○
- 13 Oncostatin M-Enriched Small Extracellular Vesicles Derived from Mesenchymal Stem Cells Prevent Isoproterenol-Induced Fibrosis and Enhance Angiogenesis. **2023**, 24, 6467 ○
- 12 Metabolomic analysis of bone-derived exosomes in osteonecrosis of the femoral head based on UPLC/MS/MS. **2023**, 19, ○
- 11 Exosomes Derived from Human Umbilical Cord Mesenchymal Stem Cells Enhance Angiogenesis Through Upregulation of the VWF and Flk1 Genes in Endothelial Cells. **2023**, ○
- 10 Enhancing the Effectiveness of Oligonucleotide Therapeutics Using Cell-Penetrating Peptide Conjugation, Chemical Modification, and Carrier-Based Delivery Strategies. **2023**, 15, 1130 ○
- 9 Exosomes. **2023**, 705-719 ○
- 8 Independent human mesenchymal stromal cell-derived extracellular vesicle preparations differentially attenuate symptoms in an advanced murine graft-versus-host disease model. **2023**, ○
- 7 Proteomic analysis of transcription factors involved in the alteration of ischemic mouse heart as modulated by MSC exosomes. **2023**, 34, 101463 ○
- 6 Reversible zwitterionic coordination enables rapid, high-yield, and high-purity isolation of extracellular vesicles from biofluids. **2023**, 9, ○
- 5 Extracellular vesicles from immortalized mesenchymal stromal cells protect against neonatal hypoxic-ischemic brain injury. **2023**, 43, ○

- 4 Mesenchymal Stem Cell Exosomes as Immunomodulatory Therapy for Corneal Scarring. **2023**, 24, 7456 ○
- 3 Extracellular Vesicles and Their Mimetics: A Comparative Study of Their Pharmacological Activities and Immunogenicity Profiles. **2023**, 15, 1290 ○
- 2 Examining the Link between CSRD and FP in Korean Companies: The Moderating Effect of Company Reputation. **2023**, 15, 6986 ○
- 1 A roadmap from research to clinical testing of mesenchymal stromal cell exosomes in the treatment of psoriasis. **2023**, ○