

CITATION REPORT

List of articles citing

Exosomes derived from human embryonic mesenchymal stem cells promote osteochondral regeneration

DOI: 10.1016/j.joca.2016.06.022

Osteoarthritis and Cartilage, 2016, 24, 2135-2140.

Source: <https://exaly.com/paper-pdf/63372970/citation-report.pdf>

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
416	Cellular senescence in aging and osteoarthritis. 2016 , 87, 6-14		66
415	Cartilage extracellular matrix as a biomaterial for cartilage regeneration. 2016 , 1383, 139-159		38
414	Re-Engineering Extracellular Vesicles as Smart Nanoscale Therapeutics. 2017 , 11, 69-83		286
413	Review: Extracellular Vesicles in Joint Inflammation. 2017 , 69, 1350-1362		15
412	Concise Review: MSC-Derived Exosomes for Cell-Free Therapy. 2017 , 35, 851-858		761
411	Integration of stem cell-derived exosomes with in situ hydrogel glue as a promising tissue patch for articular cartilage regeneration. 2017 , 9, 4430-4438		217
410	Effect of the Microenvironment on Mesenchymal Stem Cell Paracrine Signaling: Opportunities to Engineer the Therapeutic Effect. 2017 , 26, 617-631		204
409	A new approach in stem cell research-Exosomes: Their mechanism of action via cellular pathways. 2017 , 41, 466-475		35
408	Trophic Effects of Mesenchymal Stem Cells in Tissue Regeneration. 2017 , 23, 515-528		142
407	Mesenchymal stem cells for the management of rheumatoid arthritis: immune modulation, repair or both?. 2017 , 29, 201-207		62
406	Cartilage repair by mesenchymal stem cells: Clinical trial update and perspectives. 2017 , 9, 76-88		115
405	Mesenchymal Stem Cells: Potential Role in the Treatment of Osteochondral Lesions of the Ankle. 2017 , 12, 1700070		5
404	Concise Review: Biomimetic Functionalization of Biomaterials to Stimulate the Endogenous Healing Process of Cartilage and Bone Tissue. 2017 , 6, 2186-2196		24
403	Exosomes Derived from Embryonic Stem Cells as Potential Treatment for Cardiovascular Diseases. 2017 , 998, 187-206		10
402	Concise Review: Extracellular Vesicles Overcoming Limitations of Cell Therapies in Ischemic Stroke. 2017 , 6, 2044-2052		25
401	Stem cell-derived exosomes: A promising strategy for fracture healing. 2017 , 50,		52
400	Concise Review: Developing Best-Practice Models for the Therapeutic Use of Extracellular Vesicles. 2017 , 6, 1730-1739		177

399	Impact of cell culture parameters on production and vascularization bioactivity of mesenchymal stem cell-derived extracellular vesicles. 2017 , 2, 170-179	82
398	Exosomes: biology, therapeutic potential, and emerging role in musculoskeletal repair and regeneration. 2017 , 1410, 57-67	33
397	MSC exosome as a cell-free MSC therapy for cartilage regeneration: Implications for osteoarthritis treatment. 2017 , 67, 56-64	234
396	Extracellular Vesicles: Immunomodulatory messengers in the context of tissue repair/regeneration. 2017 , 98, 86-95	63
395	Pathogenic or Therapeutic Extracellular Vesicles in Rheumatic Diseases: Role of Mesenchymal Stem Cell-Derived Vesicles. 2017 , 18,	54
394	Manufacturing of Human Extracellular Vesicle-Based Therapeutics for Clinical Use. 2017 , 18,	142
393	Therapeutic Development of Mesenchymal Stem Cells or Their Extracellular Vesicles to Inhibit Autoimmune-Mediated Inflammatory Processes in Systemic Lupus Erythematosus. 2017 , 8, 526	34
392	MSCs-Derived Exosomes and Neuroinflammation, Neurogenesis and Therapy of Traumatic Brain Injury. 2017 , 11, 55	104
391	Mesenchymal Stem Cells for Cartilage Regeneration of TMJ Osteoarthritis. 2017 , 2017, 5979741	24
390	6.12 Tissue Engineering Approaches to Regeneration of Anterior Cruciate Ligament ?. 2017 , 194-215	1
389	Reprogramming Malignant Cancer Cells toward a Benign Phenotype following Exposure to Human Embryonic Stem Cell Microenvironment. 2017 , 12, e0169899	31
388	Exosomes from embryonic mesenchymal stem cells alleviate osteoarthritis through balancing synthesis and degradation of cartilage extracellular matrix. 2017 , 8, 189	216
387	Exosomes and Stem Cells in Degenerative Disease Diagnosis and Therapy. 2018 , 27, 349-363	69
386	Stem cell-based therapeutic strategies for cartilage defects and osteoarthritis. 2018 , 40, 74-80	89
385	Exosomes and regenerative medicine: state of the art and perspectives. 2018 , 196, 1-16	71
384	Exosomes in Extracellular Matrix Bone Biology. 2018 , 16, 58-64	30
383	Extracellular vesicles: A new therapeutic strategy for joint conditions. 2018 , 153, 134-146	27
382	Applications of stem cell-derived exosomes in tissue engineering and neurological diseases. 2018 , 29, 531-546	20

381	Dietary exosome-miR-23b may be a novel therapeutic measure for preventing Kashin-Beck disease. 2018 , 15, 3680-3686	5
380	Extracellular vesicles in cartilage homeostasis and osteoarthritis. 2018 , 30, 129-135	40
379	Gene therapy for chondral and osteochondral regeneration: is the future now?. 2018 , 75, 649-667	31
378	Comparison of Arthroscopic and Conservative Treatments for Knee Osteoarthritis: A 5-Year Retrospective Comparative Study. 2018 , 34, 652-659	13
377	MSC exosomes mediate cartilage repair by enhancing proliferation, attenuating apoptosis and modulating immune reactivity. 2018 , 156, 16-27	384
376	Extracellular vesicles, exosomes and shedding vesicles in regenerative medicine - a new paradigm for tissue repair. 2017 , 6, 60-78	142
375	Adipose mesenchymal stem cells-derived exosomes attenuate retina degeneration of streptozotocin-induced diabetes in rabbits. 2018 , 7, 1849454418807827	47
374	Exosomes derived from mature chondrocytes facilitate subcutaneous stable ectopic chondrogenesis of cartilage progenitor cells. 2018 , 9, 318	51
373	THE EFFECT OF MESENCHYMAL STEM CELL DERIVED MICROVESICLES IN REPAIR OF FEMORAL CHONDRAL DEFECTS IN DOGS. 2018 , 21, 1850006	8
372	Osteogenic effect of bone marrow mesenchymal stem cell-derived exosomes on steroid-induced osteonecrosis of the femoral head. 2019 , 13, 45-55	42
371	Roles and Regulation of Extracellular Vesicles in Cardiovascular Mineral Metabolism. 2018 , 5, 187	51
370	Exosomes derived from miR-92a-3p-overexpressing human mesenchymal stem cells enhance chondrogenesis and suppress cartilage degradation via targeting WNT5A. 2018 , 9, 247	181
369	Lab-on-Chip for Exosomes and Microvesicles Detection and Characterization. 2018 , 18,	86
368	Bioprocessing of Mesenchymal Stem Cells and Their Derivatives: Toward Cell-Free Therapeutics. 2018 , 2018, 9415367	73
367	Extracellular vesicles: intelligent delivery strategies for therapeutic applications. 2018 , 289, 56-69	58
366	Extracellular Vesicles in Joint Disease and Therapy. 2018 , 9, 2575	21
365	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
364	NANOmetric BIO-Banked MSC-Derived Exosome (NANOBIOME) as a Novel Approach to Regenerative Medicine. 2018 , 7,	27

363	Exosomal KLF3-AS1 from hMSCs promoted cartilage repair and chondrocyte proliferation in osteoarthritis. 2018 , 475, 3629-3638	86
362	Immune regulatory targets of mesenchymal stromal cell exosomes/small extracellular vesicles in tissue regeneration. 2018 , 20, 1419-1426	33
361	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
360	Microvesicles from Human Adipose Tissue-Derived Mesenchymal Stem Cells as a New Protective Strategy in Osteoarthritic Chondrocytes. 2018 , 47, 11-25	113
359	Lipid, Protein, and MicroRNA Composition Within Mesenchymal Stem Cell-Derived Exosomes. 2018 , 20, 178-186	59
358	Emerging Role of Exosomes in the Joint Diseases. 2018 , 47, 2008-2017	70
357	Stem Cells for Cartilage Repair: Preclinical Studies and Insights in Translational Animal Models and Outcome Measures. 2018 , 2018, 9079538	50
356	A novel role in skeletal segment regeneration of extracellular vesicles released from periodontal-ligament stem cells. 2018 , 13, 3805-3825	54
355	Harnessing extracellular vesicles to direct endochondral repair of large bone defects. 2018 , 7, 263-273	20
354	Vesicle-Mediated Control of Cell Function: The Role of Extracellular Matrix and Microenvironment. 2018 , 9, 651	49
353	Adipose-Derived Mesenchymal Stem Cells: Are They a Good Therapeutic Strategy for Osteoarthritis?. 2018 , 19,	36
352	Cartilage Regeneration in Humans with Adipose Tissue-Derived Stem Cells and Adipose Stromal Vascular Fraction Cells: Updated Status. 2018 , 19,	34
351	MSC exosome works through a protein-based mechanism of action. 2018 , 46, 843-853	137
350	Three-Dimensional Spheroid Culture Increases Exosome Secretion from Mesenchymal Stem Cells. 2018 , 15, 427-436	47
349	Mesenchymal Stromal/stem Cell-derived Extracellular Vesicles Promote Human Cartilage Regeneration. 2018 , 8, 906-920	162
348	Small Animal Models. 2018 , 1059, 423-439	11
347	Stem Cells for Osteochondral Regeneration. 2018 , 1059, 219-240	8
346	Engineered exosomes: A new promise for the management of musculoskeletal diseases. 2018 , 1862, 1893-1901	27

345	Comparative efficacy of stem cells and secretome in articular cartilage regeneration: a systematic review and meta-analysis. 2019 , 375, 329-344	15
344	Mesenchymal Stem Cells. 2019 , 205-218	5
343	Stem Cell Therapy for Musculoskeletal Diseases. 2019 , 953-970	2
342	The Challenges and Possibilities of Extracellular Vesicles as Therapeutic Vehicles. 2019 , 144, 50-56	27
341	Promoting Osteogenic Differentiation of Human Adipose-Derived Stem Cells by Altering the Expression of Exosomal miRNA. 2019 , 2019, 1351860	23
340	Transplantation of Aggregates of Autologous Synovial Mesenchymal Stem Cells for Treatment of Cartilage Defects in the Femoral Condyle and the Femoral Groove in Microminipigs. 2019 , 47, 2338-2347	20
339	The relationship between molecular content of mesenchymal stem cells derived exosomes and their potentials: Opening the way for exosomes based therapeutics. 2019 , 165, 76-89	22
338	Functional Biomolecule Delivery Systems and Bioengineering in Cartilage Regeneration. 2019 , 20, 32-46	18
337	Extracellular vesicles from human urine-derived stem cells prevent osteoporosis by transferring CTHRC1 and OPG. 2019 , 7, 18	37
336	Exosomes in intercellular communication and implications for osteoarthritis. 2020 , 59, 57-68	21
335	The State of Exosomes Research: A Global Visualized Analysis. 2019 , 2019, 1495130	18
334	Exosomes May Be the Potential New Direction of Research in Osteoarthritis Management. 2019 , 2019, 7695768	12
333	Secretome and Extracellular Vesicles as New Biological Therapies for Knee Osteoarthritis: A Systematic Review. 2019 , 8,	36
332	The Role of Exosomes in Bone Remodeling: Implications for Bone Physiology and Disease. 2019 , 2019, 9417914	18
331	Modeling trauma in rats: similarities to humans and potential pitfalls to consider. 2019 , 17, 305	23
330	Exosomes in the Repair of Bone Defects: Next-Generation Therapeutic Tools for the Treatment of Nonunion. 2019 , 2019, 1983131	13
329	Stem cell derived exosomes: microRNA therapy for age-related musculoskeletal disorders. 2019 , 224, 119492	28
328	Combined Bone Marrow Aspirate and Platelet-Rich Plasma for Cartilage Repair: Two-Year Clinical Results. 2019 , 1947603519876329	10

327	Role of Mesenchymal Stem Cell-Derived Extracellular Vesicles in Epithelial-Mesenchymal Transition. 2019 , 20,	16
326	Therapeutic effect of mesenchymal stem cells derived from human umbilical cord in rabbit temporomandibular joint model of osteoarthritis. 2019 , 9, 13854	18
325	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
324	Mesenchymal Stem Cell Therapy for Osteoarthritis: The Critical Role of the Cell Secretome. 2019 , 7, 9	92
323	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	
322	Desktop-stereolithography 3D printing of a radially oriented extracellular matrix/mesenchymal stem cell exosome bioink for osteochondral defect regeneration. 2019 , 9, 2439-2459	143
321	Exosomes from tendon stem cells promote injury tendon healing through balancing synthesis and degradation of the tendon extracellular matrix. 2019 , 23, 5475-5485	47
320	Molecular Mechanisms Responsible for Therapeutic Potential of Mesenchymal Stem Cell-Derived Secretome. 2019 , 8,	165
319	Advances in therapeutic applications of extracellular vesicles. 2019 , 11,	343
318	Extracellular vesicle identification in tooth movement models. 2019 , 22 Suppl 1, 101-106	6
317	Extracellular Vesicles and Prospects of Their Use for Tissue Regeneration. 2019 , 13, 1-11	1
316	Adaptive Neural Funnell Control for Nonlinear Two-Inertia Servo Mechanisms With Backlash. 2019 , 7, 33338-33345	4
315	miR-100-5p-abundant exosomes derived from infrapatellar fat pad MSCs protect articular cartilage and ameliorate gait abnormalities via inhibition of mTOR in osteoarthritis. 2019 , 206, 87-100	192
314	Identification of miRNA Reference Genes in Extracellular Vesicles from Adipose Derived Mesenchymal Stem Cells for Studying Osteoarthritis. 2019 , 20,	25
313	Exosome-based nanocarriers as bio-inspired and versatile vehicles for drug delivery: recent advances and challenges. 2019 , 7, 2421-2433	50
312	Chondrocyte dedifferentiation and osteoarthritis (OA). 2019 , 165, 49-65	117
311	Mesenchymal stem cell exosomes enhance periodontal ligament cell functions and promote periodontal regeneration. 2019 , 89, 252-264	87
310	Extracellular vesicle-based therapeutics: natural versus engineered targeting and trafficking. 2019 , 51, 1-12	224

309	Regenerative Medicine: A Review of the Evolution of Autologous Chondrocyte Implantation (ACI) Therapy. 2019 , 6,	56
308	Mesenchymal Stromal Cell Derived Extracellular Vesicles Reduce Hypoxia-Ischaemia Induced Perinatal Brain Injury. 2019 , 10, 282	32
307	Extracellular Vesicle-Educated Macrophages Promote Early Achilles Tendon Healing. 2019 , 37, 652-662	73
306	Stem Cell-Derived Extracellular Vesicles for Treating Joint Injury and Osteoarthritis. 2019 , 9,	36
305	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
304	MSC exosomes alleviate temporomandibular joint osteoarthritis by attenuating inflammation and restoring matrix homeostasis. 2019 , 200, 35-47	171
303	Mesenchymal stem cell-derived exosomes: a new therapeutic approach to osteoarthritis?. 2019 , 10, 340	113
302	Adipose-Derived Stem Cells in Bone Tissue Engineering: Useful Tools with New Applications. 2019 , 2019, 3673857	41
301	Mesenchymal stem cells in the treatment of articular cartilage degeneration: New biological insights for an old-timer cell. 2019 , 21, 1179-1197	35
300	Exosomes: A Novel Therapeutic Agent for Cartilage and Bone Tissue Regeneration. 2019 , 17, 1559325819892702	70
299	Mesenchymal Stromal Cell-Based Bone Regeneration Therapies: From Cell Transplantation and Tissue Engineering to Therapeutic Secretomes and Extracellular Vesicles. 2019 , 7, 352	54
298	Exosomes derived from human umbilical cord mesenchymal stem cells accelerate growth of VK2 vaginal epithelial cells through MicroRNAs in vitro. 2019 , 34, 248-260	33
297	Extracellular vesicles for personalized medicine: The input of physically triggered production, loading and theranostic properties. 2019 , 138, 247-258	54
296	Articular fibrocartilage - Why does hyaline cartilage fail to repair?. 2019 , 146, 289-305	100
295	Exosomes in inflammation and role as biomarkers. 2019 , 488, 165-171	92
294	Characterization and Therapeutic Uses of Exosomes: A New Potential Tool in Orthopedics. 2019 , 28, 141-150	5
293	Minimally Invasive and Regenerative Therapeutics. 2019 , 31, e1804041	80
292	Extracellular vesicles in synovial fluid from juvenile horses: No age-related changes in the quantitative profile. 2019 , 244, 91-93	1

291	On the Choice of the Extracellular Vesicles for Therapeutic Purposes. 2019 , 20,	53
290	Osteoarthritis year in review 2018: biology. <i>Osteoarthritis and Cartilage</i> , 2019 , 27, 365-370	6.2 30
289	Extracellular vesicle and mesenchymal stem cells in bone regeneration: recent progress and perspectives. 2019 , 107, 243-250	24
288	Extracellular vesicles are integral and functional components of the extracellular matrix. 2019 , 75-76, 201-219	84
287	Strategies for MSC expansion and MSC-based microtissue for bone regeneration. 2019 , 196, 67-79	48
286	Mesenchymal Stem Cell (MSC)-Derived Extracellular Vesicles: Potential Therapeutics as MSC Trophic Mediators in Regenerative Medicine. 2020 , 303, 1735-1742	13
285	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
284	Exosomes influence the behavior of human mesenchymal stem cells on titanium surfaces. 2020 , 230, 119571	34
283	Exosomes: Current use and future applications. 2020 , 500, 226-232	49
282	MSC-exosomes in regenerative medicine. 2020 , 433-465	3
281	Extracellular Vesicles from Mesenchymal Stem Cells as Novel Treatments for Musculoskeletal Diseases. 2019 , 9,	32
280	Methods for loading therapeutics into extracellular vesicles and generating extracellular vesicles mimetic-nanovesicles. 2020 , 177, 103-113	30
279	Kartogenin enhances the therapeutic effect of bone marrow mesenchymal stem cells derived exosomes in cartilage repair. 2020 , 15, 273-288	27
278	Exosomes produced from 3D cultures of umbilical cord mesenchymal stem cells in a hollow-fiber bioreactor show improved osteochondral regeneration activity. 2020 , 36, 165-178	62
277	Mesenchymal Stem Cell-Derived Exosomes: A Potential Therapeutic Avenue in Knee Osteoarthritis. 2020 , 1947603520962567	6
276	Mesenchymal Stem Cell Secretome as an Emerging Cell-Free Alternative for Improving Wound Repair. 2020 , 21,	34
275	In vitro controlled release of extracellular vesicles for cardiac repair from poly(glycerol sebacate) acrylate-based polymers. 2020 , 115, 92-103	12
274	Nanoparticles from Equine Fetal Bone Marrow-Derived Cells Enhance the Survival of Injured Chondrocytes. 2020 , 10,	4

273	Potential Therapeutic Effects of Exosomes in Regenerative Endodontics. 2020 , 120, 104946	7
272	Compositional Variation and Functional Mechanism of Exosomes in the Articular Microenvironment in Knee Osteoarthritis. 2020 , 29, 963689720968495	3
271	Recent advances in treatments of cartilage regeneration for knee osteoarthritis. 2020 , 60, 102014	4
270	Mesenchymal Stromal Cell Immunology for Efficient and Safe Treatment of Osteoarthritis. 2020 , 8, 567813	12
269	Isolation and Characterization of Human Synovial Fluid-Derived Mesenchymal Stromal Cells from Popliteal Cyst. 2020 , 2020, 7416493	0
268	Gold nanoparticles change small extracellular vesicle attributes of mouse embryonic stem cells. 2020 , 12, 15631-15637	5
267	Endogenous cell recruitment strategy for articular cartilage regeneration. 2020 , 114, 31-52	24
266	Nanoengineering of stem cells for musculoskeletal regeneration. 2020 , 159-196	0
265	Macrophage-derived small extracellular vesicles promote biomimetic mineralized collagen-mediated endogenous bone regeneration. 2020 , 12, 33	10
264	In Vitro Study of Extracellular Vesicles Migration in Cartilage-Derived Osteoarthritis Samples Using Real-Time Quantitative Multimodal Nonlinear Optics Imaging. 2020 , 12,	3
263	The Application of MSCs-Derived Extracellular Vesicles in Bone Disorders: Novel Cell-Free Therapeutic Strategy. 2020 , 8, 619	14
262	Extracellular Vesicles-Based Drug Delivery Systems: A New Challenge and the Exemplum of Malignant Pleural Mesothelioma. 2020 , 21,	17
261	Mesenchymal Stem Cell Therapy in Chondral Defects of Knee: Current Concept Review. 2020 , 54, 1-9	5
260	The Emerging Potential of Extracellular Vesicles in Cell-Free Tissue Engineering and Regenerative Medicine. 2021 , 27, 530-538	4
259	Degenerative osteoarthritis a reversible chronic disease. 2020 , 15, 149-160	14
258	Reply: Exosomes Are Comparable to Source Adipose Stem Cells in Fat Graft Retention with Up-Regulating Early Inflammation and Angiogenesis. 2020 , 146, 504e-505e	1
257	Engineered Extracellular Vesicles: Tailored-Made Nanomaterials for Medical Applications. 2020 , 10,	38
256	A New Self-Healing Hydrogel Containing hucMSC-Derived Exosomes Promotes Bone Regeneration. 2020 , 8, 564731	20

255	Mesenchymal Stem Cell-Derived Extracellular Vesicles and Their Therapeutic Potential. 2020 , 2020, 8825771	23
254	Human ESC-sEVs alleviate age-related bone loss by rejuvenating senescent bone marrow-derived mesenchymal stem cells. 2020 , 9, 1800971	11
253	Molecular Crosstalk Between Macrophages and Mesenchymal Stromal Cells. 2020 , 8, 600160	12
252	Mesenchymal Stromal Cell-Derived Extracellular Vesicles - Silver Linings for Cartilage Regeneration?. 2020 , 8, 593386	5
251	Roles of Exosomes from Mesenchymal Stem Cells in Treating Osteoarthritis. 2020 , 22, 107-117	9
250	Extracellular vesicles derived from different sources of mesenchymal stem cells: therapeutic effects and translational potential. 2020 , 10, 69	39
249	Exosomes: roles and therapeutic potential in osteoarthritis. 2020 , 8, 25	64
248	Mesenchymal Stromal Cell Transplantation Induces Regeneration of Large and Full-Thickness Cartilage Defect of the Temporomandibular Joint. 2020 , 1947603520926711	6
247	The Efficacy of Stem Cells Secretome Application in Osteoarthritis: A Systematic Review of In Vivo Studies. 2020 , 16, 1222-1241	5
246	Mesenchymal Stem Cell-Derived Exosomes for Effective Cartilage Tissue Repair and Treatment of Osteoarthritis. 2020 , 15, e2000082	26
245	Small extracellular vesicles from human adipose-derived stem cells attenuate cartilage degeneration. 2020 , 9, 1735249	77
244	Biomaterials functionalized with MSC secreted extracellular vesicles and soluble factors for tissue regeneration. 2020 , 30, 1909125	78
243	Mesenchymal Stem Cell-Derived Extracellular Vesicles in Tissue Regeneration. 2020 , 29, 963689720908500	24
242	Could the Enrichment of a Biomaterial with Conditioned Medium or Extracellular Vesicles Modify Bone-Remodeling Kinetics during a Defect Healing? Evaluations on Rat Calvaria with Synchrotron-Based Microtomography. 2020 , 10, 2336	1
241	Exosomes Could Offer New Options to Combat the Long-Term Complications Inflicted by Gestational Diabetes Mellitus. 2020 , 9,	11
240	Intra-articular delivery of extracellular vesicles secreted by chondrogenic progenitor cells from MRL/MpJ superhealer mice enhances articular cartilage repair in a mouse injury model. 2020 , 11, 93	25
239	The Treatment of Cartilage Damage Using Human Mesenchymal Stem Cell-Derived Extracellular Vesicles: A Systematic Review of Studies. 2020 , 8, 580	8
238	Biogenesis, Biologic Function and Clinical Potential of Exosomes in Different Diseases. 2020 , 10, 4428	7

237	Mesenchymal stem cell exosomes in bone regenerative strategies-a systematic review of preclinical studies. 2020 , 7, 100067	40
236	Tendon Homeostasis: Overview. 2020 , 270-293	
235	Emerging Potential of Exosomes in Regenerative Medicine for Temporomandibular Joint Osteoarthritis. 2020 , 21,	19
234	Chicken-or-egg question: Which came first, extracellular vesicles or autoimmune diseases?. 2020 , 108, 601-616	10
233	Free and hydrogel encapsulated exosome-based therapies in regenerative medicine. 2020 , 249, 117447	47
232	Exosomes Derived from Human Umbilical Cord Mesenchymal Stem Cells Promote Proliferation of Allogeneic Endometrial Stromal Cells. 2020 , 27, 1372-1381	11
231	Pulsed electromagnetic fields potentiate the paracrine function of mesenchymal stem cells for cartilage regeneration. 2020 , 11, 46	26
230	A Role for Exosomes in Craniofacial Tissue Engineering and Regeneration. 2019 , 10, 1569	28
229	The dual character of exosomes in osteoarthritis: Antagonists and therapeutic agents. 2020 , 105, 15-25	17
228	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
227	Exosomal miRNAs in osteoarthritis. 2020 , 47, 4737-4748	5
226	Interplay between genetics and epigenetics in osteoarthritis. 2020 , 16, 268-281	38
225	Exosomes in osteoarthritis and cartilage injury: advanced development and potential therapeutic strategies. 2020 , 16, 1811-1820	17
224	Mesenchymal Stem Cell Derived Extracellular Vesicles for Tissue Engineering and Regenerative Medicine Applications. 2020 , 9,	93
223	Extracellular vesicles as drug delivery systems: Why and how?. 2020 , 159, 332-343	229
222	Therapeutic potential of stem cell-derived extracellular vesicles in osteoarthritis: preclinical study findings. 2020 , 36, 10	5
221	Adipose Stem Cell-Derived Exosomes Decrease Fatty Infiltration and Enhance Rotator Cuff Healing in a Rabbit Model of Chronic Tears. 2020 , 48, 1456-1464	19
220	Mesenchymal Stem Cell Exosomes for Cartilage Regeneration: A Systematic Review of Preclinical Studies. 2021 , 27, 1-13	24

219	Engineered-extracellular vesicles as an optimistic tool for microRNA delivery for osteoarthritis treatment. 2021 , 78, 79-91	11
218	Therapeutic application of extracellular vesicles for musculoskeletal repair & regeneration. 2021 , 62, 99-114	1
217	Mesenchymal stem cell-derived small extracellular vesicles and bone regeneration. 2021 , 128, 18-36	14
216	Exosomes: A Tool for Bone Tissue Engineering. 2021 ,	2
215	Hypoxic pretreatment of small extracellular vesicles mediates cartilage repair in osteoarthritis by delivering miR-216a-5p. 2021 , 122, 325-342	17
214	RNA Therapy in Bone Diseases. 2021 , 159-184	
213	Exosomes targeted towards applications in regenerative medicine. 2021 , 2, 880-908	7
212	Hydrogel Encapsulation of Mesenchymal Stem Cells and Their Derived Exosomes for Tissue Engineering. 2021 , 22,	25
211	Cartilage Repair by Mesenchymal Stem Cell-Derived Exosomes: Preclinical and Clinical Trial Update and Perspectives. 2021 , 1326, 73-93	5
210	Extracellular vesicles in bone and periodontal regeneration: current and potential therapeutic applications. 2021 , 11, 16	18
209	Characterization of exosomal long non-coding RNAs in chondrogenic differentiation of human adipose-derived stem cells. 2021 , 476, 1411-1420	3
208	Temporomandibular Joint Osteoarthritis: Regenerative Treatment by a Stem Cell Containing Advanced Therapy Medicinal Product (ATMP)-An In Vivo Animal Trial. 2021 , 22,	3
207	Cell-free exosome-laden scaffolds for tissue repair. 2021 , 13, 8740-8750	19
206	Extracellular Vesicles in Musculoskeletal Pathologies and Regeneration. 2020 , 8, 624096	10
205	Osteoarthritic Subchondral Bone Release Exosomes That Promote Cartilage Degeneration. 2021 , 10,	10
204	The use of hydrogel-delivered extracellular vesicles in recovery of motor function in stroke: a testable experimental hypothesis for clinical translation including behavioral and neuroimaging assessment approaches. 2021 , 16, 605-613	7
203	Current Progress in the Endogenous Repair of Intervertebral Disk Degeneration Based on Progenitor Cells. 2020 , 8, 629088	3
202	Analysis of Aggregates and Particles. 2021 , 199-226	

201	Hypoxic ADSCs-derived EVs promote the proliferation and chondrogenic differentiation of cartilage stem/progenitor cells. 2021 , 10, 322-337	3
200	Small extracellular vesicles-based cell-free strategies for therapy. 2021 , 2, 17-26	2
199	Exosome-Encapsulated microRNA-127-3p Released from Bone Marrow-Derived Mesenchymal Stem Cells Alleviates Osteoarthritis Through Regulating CDH11-Mediated Wnt/ECatenin Pathway. 2021 , 14, 297-310	12
198	Immunomodulatory and Regenerative Effects of Mesenchymal Stem Cells and Extracellular Vesicles: Therapeutic Outlook for Inflammatory and Degenerative Diseases. 2020 , 11, 591065	29
197	Therapeutic Features and Updated Clinical Trials of Mesenchymal Stem Cell (MSC)-Derived Exosomes. 2021 , 10,	23
196	Electrospun fibers enhanced the paracrine signaling of mesenchymal stem cells for cartilage regeneration. 2021 , 12, 100	7
195	Therapeutic potential of mesenchymal stem cell-derived exosomes as a cell-free therapy approach for the treatment of skin, bone, and cartilage defects. 2021 , 1-14	3
194	Extracellular Vesicles from Mesenchymal Stromal Cells for the Treatment of Inflammation-Related Conditions. 2021 , 22,	11
193	The Current Status of Mesenchymal Stromal Cells: Controversies, Unresolved Issues and Some Promising Solutions to Improve Their Therapeutic Efficacy. 2021 , 9, 650664	24
192	Exosomes from Kartogenin-Pretreated Infrapatellar Fat Pad Mesenchymal Stem Cells Enhance Chondrocyte Anabolism and Articular Cartilage Regeneration. 2021 , 2021, 6624874	9
191	Mesenchymal stem cell-derived extracellular vesicles reduce senescence and extend health span in mouse models of aging. 2021 , 20, e13337	19
190	Fatty Acids and Oxylipins in Osteoarthritis and Rheumatoid Arthritis-a Complex Field with Significant Potential for Future Treatments. 2021 , 23, 41	7
189	An Update on Mesenchymal Stem Cell-Centered Therapies in Temporomandibular Joint Osteoarthritis. 2021 , 2021, 6619527	3
188	Is Extracellular Vesicle-Based Therapy the Next Answer for Cartilage Regeneration?. 2021 , 9, 645039	2
187	Fibrocartilage Stem Cells in the Temporomandibular Joint: Insights From Animal and Human Studies. 2021 , 9, 665995	1
186	Advances on gradient scaffolds for osteochondral tissue engineering.	3
185	Multipotent Stromal Cell Extracellular Vesicle Distribution in Distant Organs after Introduction into a Bone Tissue Defect of a Limb. 2021 , 11,	0
184	Biomaterial-based extracellular vesicle delivery for therapeutic applications. 2021 , 124, 88-107	12

183	Mesenchymal Stem Cell-Derived Exosomes and Their Therapeutic Potential for Osteoarthritis. 2021 , 10,	8
182	Extracellular Vesicles and Their Potential Significance in the Pathogenesis and Treatment of Osteoarthritis. 2021 , 14,	6
181	Exosomes derived from miR-26a-modified MSCs promote axonal regeneration via the PTEN/AKT/mTOR pathway following spinal cord injury. 2021 , 12, 224	10
180	The tissue origin effect of extracellular vesicles on cartilage and bone regeneration. 2021 , 125, 253-266	19
179	Crosstalk Between Mesenchymal Stromal Cells and Chondrocytes: The Hidden Therapeutic Potential for Cartilage Regeneration. 2021 , 17, 1647-1665	4
178	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
177	Anti-Inflammatory Effects of Conditioned Medium of Periodontal Ligament-Derived Stem Cells on Chondrocytes, Synoviocytes, and Meniscus Cells. 2021 , 30, 537-547	1
176	Extracellular Vesicles from Mesenchymal Stem Cells as Potential Treatments for Osteoarthritis. 2021 , 10,	6
175	The Research Progress of Exosomes in Osteoarthritis, With Particular Emphasis on the Mediating Roles of miRNAs and lncRNAs. 2021 , 12, 685623	7
174	Exosomes Derived from Non-Classic Sources for Treatment of Post-Traumatic Osteoarthritis and Cartilage Injury of the Knee: In Vivo Review. 2021 , 10,	3
173	Extracellular Vesicles: An Emerging Regenerative Treatment for Oral Disease. 2021 , 9, 669011	1
172	Extracellular Vesicles in chondrogenesis and Cartilage regeneration. 2021 , 25, 4883-4892	6
171	Progress in the use of mesenchymal stromal cells for osteoarthritis treatment. 2021 , 23, 459-470	2
170	Efficacy of extracellular vesicles from mesenchymal stem cells on osteoarthritis in animal models: a systematic review and meta-analysis. 2021 , 16, 1297-1310	4
169	MicroRNA engineered umbilical cord stem cell-derived exosomes direct tendon regeneration by mTOR signaling. 2021 , 19, 169	7
168	The Potential Use of Mesenchymal Stem Cells and Their Derived Exosomes for Orthopedic Diseases Treatment. 2021 , 1	11
167	Mesenchymal stem cell-derived extracellular vesicles prevent the development of osteoarthritis via the circHIPK3/miR-124-3p/MYH9 axis. 2021 , 19, 194	10
166	Characterization of extracellular vesicles derived from mesenchymal stromal cells by surface-enhanced Raman spectroscopy. 2021 , 413, 5013-5024	6

165	Mesenchymal Stem Cell Extracellular Vesicles as Adjuvant to Bone Marrow Stimulation in Chondral Defect Repair in a Minipig Model. 2021 , 19476035211029707	0
164	Functional Duality of Chondrocyte Hypertrophy and Biomedical Application Trends in Osteoarthritis. 2021 , 13,	5
163	Bone-a-Petite: Engineering Exosomes towards Bone, Osteochondral, and Cartilage Repair. 2021 , e2101741	21
162	Controlled release of MSC-derived small extracellular vesicles by an injectable Diels-Alder crosslinked hyaluronic acid/PEG hydrogel for osteoarthritis improvement. 2021 , 128, 163-174	13
161	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
160	The Role of Extracellular Vesicles in the Pathogenesis, Diagnosis, and Treatment of Osteoarthritis. 2021 , 26,	3
159	Low-intensity pulsed ultrasound promotes osteoarthritic cartilage regeneration by BMSC-derived exosomes via modulating the NF- κ B signaling pathway. 2021 , 97, 107824	11
158	Mesenchymal Stem Cell-Derived Exosomes: Applications in Regenerative Medicine. 2021 , 10,	25
157	First Experimental Study of the Influence of Extracellular Vesicles Derived from Multipotent Stromal Cells on Osseointegration of Dental Implants. 2021 , 22,	0
156	Diagnostic and Therapeutic Role of Extracellular Vesicles in Articular Cartilage Lesions and Degenerative Joint Diseases. 2021 , 9, 698614	2
155	Molecular basis for new approaches to therapy of osteoarthritis (part I). 2021 , 15, 7-12	
154	In Vivo Study of Osteochondral Defect Regeneration Using Innovative Composite Calcium Phosphate Biocement in a Sheep Model. 2021 , 14,	1
153	The Mechanistic Effects and Clinical Applications of Various Derived Mesenchymal Stem Cells in Immune Thrombocytopenia. 2021 , 1-9	0
152	Extracellular vesicles from mesenchymal stromal cells: Therapeutic perspectives for targeting senescence in osteoarthritis. 2021 , 175, 113836	8
151	Stem Cell-Derived Exosomes Potential Therapeutic Roles in Cardiovascular Diseases. 2021 , 8, 723236	4
150	Cell Interplay in Osteoarthritis. 2021 , 9, 720477	4
149	An and Comparison of Osteogenic Differentiation of Human Mesenchymal Stromal/Stem Cells. 2021 , 2021, 9919361	1
148	An artificial membrane binding protein-polymer surfactant nanocomplex facilitates stem cell adhesion to the cartilage extracellular matrix. 2021 , 276, 120996	2

147	Extracellular vesicles as novel approaches for the treatment of osteoarthritis: a narrative review on potential mechanisms. 2021 , 52, 879-891	2
146	Enhancement of acellular cartilage matrix scaffold by Wharton's jelly mesenchymal stem cell-derived exosomes to promote osteochondral regeneration. 2021 , 6, 2711-2728	23
145	Effect of Melatonin for Regulating Mesenchymal Stromal Cells and Derived Extracellular Vesicles. 2021 , 9, 717913	2
144	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
143	Stem Cells in Autologous Microfragmented Adipose Tissue: Current Perspectives in Osteoarthritis Disease. 2021 , 22,	5
142	Application of Exosomes-Derived Mesenchymal Stem Cells in Treatment of Fungal Diseases: From Basic to Clinical Sciences. 2021 , 2,	1
141	Exosomes miR-15a promotes nucleus pulposus-mesenchymal stem cells chondrogenic differentiation by targeting MMP-3. 2021 , 86, 110083	5
140	Novel approaches of the nanotechnology-based drug delivery systems for knee joint injuries: A review. 2021 , 608, 121051	4
139	Potential of Exosomes as Cell-Free Therapy in Articular Cartilage Regeneration: A Review. 2021 , 16, 6749-67813	
138	Enhancing extracellular vesicles for therapeutic treatment of arthritic joints. 2021 , 175, 80-94	1
137	The Role of Extracellular Vesicles as Paracrine Effectors in Stem Cell-Based Therapies. 2019 , 1201, 175-193	15
136	Prenatal Mesenchymal Stem Cell Secretome and Its Clinical Implication. 2019 , 167-173	1
135	Biomaterials and extracellular vesicles in cell-free therapy for bone repair and regeneration: Future line of treatment in regenerative medicine. 2020 , 12, 100736	7
134	Insulin Resistance in Osteoarthritis: Similar Mechanisms to Type 2 Diabetes Mellitus. 2020 , 2020, 4143802	9
133	The complex landscape of microRNAs in articular cartilage: biology, pathology, and therapeutic targets. 2018 , 3,	48
132	Effectiveness of mesenchymal stem cell-conditioned medium in bone regeneration in animal and human models: a systematic review and meta-analysis. 2020 , 9, 5	7
131	Extracellular vesicles derived from mesenchymal stem cells: A platform that can be engineered. 2021 , 36, 615-632	3
130	Extracellular vesicles: small bricks for tissue repair/regeneration. 2017 , 5, 83	32

129	The Emerging Role of Exosomal Non-coding RNAs in Musculoskeletal Diseases. 2019 , 25, 4523-4535	16
128	Exosomes and Bone Disease. 2019 , 25, 4536-4549	16
127	Exosomes in Therapy: Engineering, Pharmacokinetics and Future Applications. 2019 , 20, 87-95	22
126	Emerging Role of Mesenchymal Stem Cell-derived Exosomes in Regenerative Medicine. 2019 , 14, 482-494	58
125	Recent Approaches for Angiogenesis in Search of Successful Tissue Engineering and Regeneration. 2020 , 15, 111-134	10
124	Stem-Cell Derived Exosomes for the Treatment of Osteoarthritis. 2020 , 15, 597-601	3
123	Targeted Drug Delivery in Lipid-like Nanocages and Extracellular Vesicles. 2019 , 11, 28-41	10
122	Characterization and Chondroprotective Effects of Extracellular Vesicles From Plasma- and Serum-Based Autologous Blood-Derived Products for Osteoarthritis Therapy. 2020 , 8, 584050	16
121	Exosomes as Drug Delivery Systems: Endogenous Nanovehicles for Treatment of Systemic Lupus Erythematosus. 2020 , 13,	21
120	Taking central nervous system regenerative therapies to the clinic: curing rodents nonhuman primates humans. 2020 , 15, 425-437	20
119	Mesenchymal stem cells and mesenchymal stem cell-derived extracellular vesicles: Potential roles in rheumatic diseases. 2020 , 12, 688-705	6
118	Exosomes derived from stem cells as an emerging therapeutic strategy for intervertebral disc degeneration. 2020 , 12, 803-813	9
117	Update on mesenchymal stem cell therapies for cartilage disorders. 2017 , 8, 853-860	12
116	Extracellular Vesicles in the Synovial Joint: Is there a Role in the Pathophysiology of Osteoarthritis?. 2019 , 13, 1-7	6
115	[Research progress in treatment of knee osteoarthritis by paracrine effect of stem cells]. 2019 , 33, 1446-1451	1
114	Platelet-rich plasma-derived extracellular vesicles: A superior alternative in regenerative medicine?. 2021 , 54, e13123	3
113	Skeletal Muscle Regeneration by the Exosomes of Adipose Tissue-Derived Mesenchymal Stem Cells. 2021 , 43, 1473-1488	5
112	Extracellular vesicle release and uptake by the liver under normo- and hyperlipidemia. 2021 , 78, 7589-7604	4

111	Bone marrow mesenchymal stem cell-derived exosomes inhibit chondrocyte apoptosis and the expression of MMPs by regulating Drp1-mediated mitophagy. 2021 , 123, 151796	5
110	Role of Mesenchymal Stem CellsDerived Exosomes in Osteoarthritis Treatment. 2018 , 62, 19-23	
109	Nanotechnology in gene therapy for musculoskeletal regeneration. 2020 , 105-136	1
108	Diabetes mellitus and osteoarthritis. 2020 , 285-315	
107	Mesenchymal Stem Cell-Derived Exosomes and MicroRNAs in Cartilage Regeneration: Biogenesis, Efficacy, miRNA Enrichment and Delivery. 2021 , 14,	3
106	Challenges and strategy in treatment with exosomes for cell-free-based tissue engineering in dentistry. 2021 , 7, FSO751	2
105	Mesenchymal Stem Cell-Derived Extracellular Vesicles for Osteoarthritis Treatment: Extracellular Matrix Protection, Chondrocyte and Osteocyte Physiology, Pain and Inflammation Management. 2021 , 10,	3
104	Reversing the surface charge of MSC-derived small extracellular vesicles by PL-PEG-DSPE for enhanced osteoarthritis treatment. 2021 , 10, e12160	4
103	Narrative review of the choices of stem cell sources and hydrogels for cartilage tissue engineering. 2020 , 8, 1598	3
102	Orthobiologics in Foot and Ankle Applications. 2020 , 523-540	
101	Joint Homeostasis of the Knee: Role of Senescence, Hormones, Cells, and Biological Factors in Maintaining Joint Health. 2022 , 43-61	
100	Pre-incubation with human umbilical cord derived mesenchymal stem cells-exosomes prevents cisplatin-induced renal tubular epithelial cell injury. 2020 , 12, 18008-18018	1
99	Mesenchymal stem cell related therapies for cartilage lesions and osteoarthritis. 2019 , 11, 6275-6289	54
98	Secretome, Extracellular Vesicles, Exosomes. 2022 , 155-166	
97	Morphology of the Myocardium after Experimental Bone Tissue Trauma and the Use of Extracellular Vesicles Derived from Mesenchymal Multipotent Stromal Cells. 2021 , 11,	
96	Instructive cartilage regeneration modalities with advanced therapeutic implantations under abnormal conditions.. 2022 , 11, 317-338	13
95	Requirement of direct contact between chondrocytes and macrophages for the maturation of regenerative cartilage. 2021 , 11, 22476	
94	Enhancing the Therapeutic Potential of Extracellular Vesicles Using Peptide Technology. 2022 , 2383, 119-141	1

93	microRNA-136-5p from bone marrow mesenchymal stem cell-derived exosomes facilitates fracture healing by targeting LRP4 to activate the Wnt/ β -catenin pathway. 2021 , 10, 744-758	1
92	Engineering pro-angiogenic biomaterials via chemoselective extracellular vesicle immobilization.. 2021 , 281, 121357	3
91	miR-30b-5p inhibits osteoblast differentiation through targeting BCL6.. 2022 , 1-11	1
90	New Insights into Cartilage Tissue Engineering: Improvement of Tissue-Scaffold Integration to Enhance Cartilage Regeneration.. 2022 , 2022, 7638245	3
89	Anti-inflammatory and immunomodulatory effects of the extracellular vesicles derived from human umbilical cord mesenchymal stem cells on osteoarthritis via M2 macrophages.. 2022 , 20, 38	4
88	Overview of current technologies for tissue engineering and regenerative medicine. 2022 , 11-31	
87	State of the Art: The Immunomodulatory Role of MSCs for Osteoarthritis.. 2022 , 23,	2
86	The role of mesenchymal stem cells in the treatment of osteochondral lesions and osteoarthritis of the ankle. 2022 , 72,	0
85	Controlled Release of Epigenetically-Enhanced Extracellular Vesicles from a GelMA/Nanoclay Composite Hydrogel to Promote Bone Repair.. 2022 , 23,	3
84	OUP accepted manuscript.	0
83	Mesenchymal Stem Cell Exosomes Promote Functional Osteochondral Repair in a Clinically Relevant Porcine Model.. 2022 , 3635465211068129	1
82	Extracellular vesicles: a promising cell-free therapy for cartilage repair.. 2022 , 8, FSO774	1
81	Advances in Mesenchymal Stem Cell-Derived Exosomes as Drug Delivery Vehicles.. 2021 , 9, 797359	4
80	Higher Chondrogenic Potential of Extracellular Vesicles Derived from Mesenchymal Stem Cells Compared to Chondrocytes-EVs In Vitro.. 2021 , 2021, 9011548	1
79	The Role of Extracellular Vesicles in Osteoarthritis Treatment Via Microenvironment Regulation.	
78	Implication of Mesenchymal Stem Cells and Their Derivates for Osteochondral Regeneration.. 2022 , 23,	0
77	Mesenchymal Stem Cell Exosomes Promote Growth Plate Repair and Reduce Limb-Length Discrepancy in Young Rats.. 2022 ,	
76	Mechanism for the attenuation of neutrophil and complement hyperactivity by MSC exosomes.. 2022 ,	2

75	Engineering strategies for customizing extracellular vesicle uptake in a therapeutic context.. 2022 , 13, 129	1
74	Congenital microtia patients: the genetically engineered exosomes released from porous gelatin methacryloyl hydrogel for downstream small RNA profiling, functional modulation of microtia chondrocytes and tissue-engineered ear cartilage regeneration.. 2022 , 20, 164	1
73	Cancer-Derived Extracellular Vesicles: Their Role in Sarcoma.. 2022 , 12,	1
72	The Research Progress of Exosomes in Osteoarthritis, With Particular Emphasis on the Therapeutic Effect.. 2022 , 13, 731756	0
71	Mesenchymal Stem Cell-Derived Extracellular Vesicles as Non-Coding RNA Therapeutic Vehicles in Autoimmune Diseases.. 2022 , 14,	2
70	Potential of Using Infrapatellar-Fat-Pad-Derived Mesenchymal Stem Cells for Therapy in Degenerative Arthritis: Chondrogenesis, Exosomes, and Transcription Regulation.. 2022 , 12,	1
69	Characteristics of Extracellular Vesicles and Preclinical Testing Considerations Prior to Clinical Applications.. 2022 , 10,	1
68	Regenerative medicine 2.0: extracellular vesicle-based therapeutics for musculoskeletal tissue regeneration.. 2022 , 1-7	0
67	Small Extracellular Vesicles Derived from Human Chorionic MSCs as Modern Perspective towards Cell-Free Therapy.. 2021 , 22,	1
66	Strategies for Engineering Exosomes and Their Applications in Drug Delivery.. 2021 , 17, 2271-2297	3
65	Comparison of Curative Effect of Human Umbilical Cord-Derived Mesenchymal Stem Cells and Their Small Extracellular Vesicles in Treating Osteoarthritis.. 2021 , 16, 8185-8202	3
64	Enhancing Stem Cell Therapy for Cartilage Repair in Osteoarthritis-A Hydrogel Focused Approach.. 2021 , 7,	0
63	Mesenchymal stem cell-derived exosome mediated long non-coding RNA KLF3-AS1 represses autophagy and apoptosis of chondrocytes in osteoarthritis.. 2021 , 1-15	3
62	Low-Intensity Pulsed Ultrasound Enhances the Efficacy of Bone Marrow-Derived MSCs in Osteoarthritis Cartilage Repair by Regulating Autophagy-Mediated Exosome Release.. 2022 , 13, 19476035221093060	0
61	Engineered extracellular vesicles for bone therapy. 2022 , 44, 101487	2
60	Image_1.TIF. 2020 ,	
59	Image_2.TIF. 2020 ,	
58	Image_3.TIF. 2020 ,	

57	Image_1.TIF. 2019 ,	
56	An ECM-Mimetic Hydrogel to Promote the Therapeutic Efficacy of Osteoblast-Derived Extracellular Vesicles for Bone Regeneration.. 2022 , 10, 829969	2
55	Biomaterials in Guided Bone and Tissue Regenerations: An Update. 2022 , 2022, 1-14	0
54	Effects of BMSC-Derived EVs on Bone Metabolism. 2022 , 14, 1012	2
53	Biodistribution of Intra-Arterial and Intravenous Delivery of Human Umbilical Cord Mesenchymal Stem Cell-Derived Extracellular Vesicles in a Rat Model to Guide Delivery Strategies for Diabetes Therapies. 2022 , 15, 595	2
52	Research Progress of Exosomes in Bone Diseases: Mechanism, Diagnosis and Therapy.. 2022 , 10, 866627	0
51	Umbilical cord mesenchymal stem cell-derived exosomes reverse endometrial fibrosis by miR-145-5p/ZEB2 axis in intrauterine adhesions. 2022 ,	
50	Circulating long noncoding RNAs as novel bio-tools: Focus on autoimmune diseases. 2022 ,	1
49	Mesenchymal Stem Cell Secretome: A Potential Biopharmaceutical Component to Regenerative Medicine?. 2022 , 1-33	
48	Mesenchymal Stem Cell-Derived Exosomes and Intervertebral Disc Regeneration: Review. 2022 , 23, 7306	3
47	BMSC-derived exosomes promote tendon-bone healing after anterior cruciate ligament reconstruction by regulating M1/M2 macrophage polarization in rats. 2022 , 13,	1
46	Research progress in the use of mesenchymal stem cells and their derived exosomes in the treatment of osteoarthritis. 2022 , 80, 101684	2
45	Current understanding of MSC-derived exosomes in the management of knee osteoarthritis. 2022 , 418, 113274	0
44	Use of MRI to Assess the Regenerative Effects of Adipose Tissue Derived Mesenchymal Stem Cells in a Rabbit Cartilaginous Laryngeal Defect Model. 2022 , 100682	1
43	Exosomes in osteoarthritis: Updated insights on pathogenesis, diagnosis, and treatment. 10,	0
42	Therapeutic perspectives of exosomes in glucocorticoid-induced osteoarthrosis. 9,	
41	Biomaterials constructed for MSC-derived extracellular vesicle loading and delivery—promising method for tissue regeneration. 10,	0
40	The Effect of Human Bone Marrow Mesenchymal Stem Cell-Derived Exosomes on Cartilage Repair in Rabbits. 2022 , 2022, 1-12	0

39	Small particles with large impact: Insights into the unresolved roles of innate immunity in extracellular vesicle-mediated cardiovascular calcification. 2022 , 312, 20-37	1
38	The potential therapeutic role of extracellular vesicles in osteoarthritis. 10,	1
37	Cellular therapy and tissue engineering for cartilage repair. 2022 ,	1
36	Mesenchymal stem cells-derived microvesicles versus platelet-rich plasma in the treatment of monoiodoacetate-induced temporomandibular joint osteoarthritis in Albino rats. 2022 , 8, e10857	1
35	The role of extracellular vesicles in osteoarthritis treatment via microenvironment regulation. 2022 , 26,	0
34	Advances of Mesenchymal Stem Cells Released Extracellular Vesicles in Periodontal Bone Remodeling.	2
33	Nanodevices for deep cartilage penetration. 2022 ,	0
32	Mesenchymal Stem Cell-Derived Extracellular Vesicles for Therapeutic Use and in Bioengineering Applications. 2022 , 11, 3366	1
31	Role of Mesenchymal Stem Cells and Their Paracrine Mediators in Macrophage Polarization: An Approach to Reduce Inflammation in Osteoarthritis. 2022 , 23, 13016	0
30	Current knowledge and future perspectives on Exosomes in the field of regenerative medicine: a bibliometric analysis.	0
29	Breakthrough of extracellular vesicles in pathogenesis, diagnosis and treatment of osteoarthritis. 2023 , 22, 423-452	2
28	Mesenchymal Stem Cell Secretome: A Potential Biopharmaceutical Component to Regenerative Medicine. 2022 , 973-1005	0
27	Exosome modification to better alleviates endoplasmic reticulum stress induced chondrocyte apoptosis and osteoarthritis. 2022 , 115343	0
26	MSC-EV therapy for bone/cartilage diseases. 2022 , 17, 101636	0
25	Co-aggregation of MSC/chondrocyte in a dynamic 3D culture elevates the therapeutic effect of secreted extracellular vesicles on osteoarthritis in a rat model. 2022 , 12,	0
24	The role of the immune microenvironment in bone, cartilage, and soft tissue regeneration: from mechanism to therapeutic opportunity. 2022 , 9,	0
23	Exploring the role of exosomes in rheumatoid arthritis.	0
22	Extracellular vesicles: A potential future strategy for dental and maxillofacial tissue repair and regeneration. 13,	0

- 21 Effect of condylar chondrocyte exosomes on condylar cartilage osteogenesis in rats under tensile stress. 10, ○
- 20 Osteoarthritis of the Temporomandibular Joint: A Narrative Overview. **2023**, 59, 8 ○
- 19 Potential of secretome of human fetal cartilage progenitor cells as disease modifying agent for osteoarthritis. ○
- 18 Adipose tissue-derived small extracellular vesicles modulate macrophages to improve the homing of adipocyte precursors and endothelial cells in adipose tissue regeneration. 10, ○
- 17 Evaluation of the Potential of Umbilical Cord Mesenchymal Stromal Cell-Derived Small Extracellular Vesicles to Improve Rotator Cuff Healing: A Pilot Ovine Study. 036354652211459 ○
- 16 The potential therapeutic role of extracellular vesicles in critical-size bone defects: Spring of cell-free regenerative medicine is coming. 11, ○
- 15 Combining Bone Collagen Material with hUC-MSCs for Application to Spina Bifida in a Rabbit Model. ○
- 14 Exosome-Based Cell Homing and Angiogenic Differentiation for Dental Pulp Regeneration. **2023**, 24, 466 ○
- 13 Extracellular Vesicles as Therapeutic Resources in the Clinical Environment. **2023**, 24, 2344 ○
- 12 The potential use of mesenchymal stem cells-derived exosomes as microRNAs delivery systems in different diseases. **2023**, 21, 2
- 11 Human adipose tissue-derived small extracellular vesicles promote soft tissue repair through modulating M1-to-M2 polarization of macrophages. **2023**, 14, ○
- 10 Challenges and strategies: Scalable and efficient production of mesenchymal stem cells-derived exosomes for cell-free therapy. **2023**, 319, 121524 ○
- 9 Role of exosomes in non-small cell lung cancer and EGFR-mutated lung cancer. 14, ○
- 8 Secretome derived from hypoxia preconditioned mesenchymal stem cells promote cartilage regeneration and mitigate joint inflammation via extracellular vesicles. **2023**, 27, 98-112 ○
- 7 Mesenchymal stem cells-derived secretome and extracellular vesicles: perspective and challenges in cancer therapy and clinical applications. ○
- 6 Treatment with Mesenchymal Stem Cell-Derived Nanovesicle-Containing Gelatin Methacryloyl Hydrogels Alleviates Osteoarthritis by Modulating Chondrogenesis and Macrophage Polarization. 2300315 ○
- 5 Novel biomaterials for stem cell engineering and bone regeneration. **2023**, 169-204 ○
- 4 Sustained released of microRNA-99b-3p abundant exosomes derived from adipose stem cell encapsulated with hydrogel microparticles (HMPs) for long-term osteoarthritis treatment. ○

- 3 Extracellular vesicles: From bone development to regenerative orthopedics. **2023**, ○
- 2 Extracellular Vesicles as Drug Delivery Systems in Organ Transplantation: The Next Frontier. **2023**, 15, 891 ○
- 1 Mesenchymal Stem Cell Exosomes as Immunomodulatory Therapy for Corneal Scarring. **2023**, 24, 7456 ○