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Mesenchymal stem cells injection in degenerated intervertebral disc: cell leakage may induce osteophyte formation

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#	Paper	IF	Citations
216	Stem cell regeneration of the intervertebral disk. 2011 , 42, 555-62, viii-ix		33
215	T1-weighted magnetic resonance imaging quantification of early lumbar intervertebral disc degeneration in healthy young adults. 2012 , 37, 1224-30		57
214	Ex vivo observation of human intervertebral disc tissue and cells isolated from degenerated intervertebral discs. 2012 , 21 Suppl 1, S10-9		32
213	Bioactive electrospun scaffold for annulus fibrosus repair and regeneration. 2012 , 21 Suppl 1, S20-6		55
212	Strategies towards injectable, load-bearing materials for the intervertebral disc: a review and outlook. 2013 , 24, 1-10		5
211	Stem cell regeneration of degenerated intervertebral discs: current status (update). 2013 , 17, 377		19
210	Pathogenesis of hyperostosis: a key role for mesenchymatous cells?. 2013 , 80, 592-6		17
209	Advances in Lentiviral Vector-based Cell Therapy with Mesenchymal Stem Cells. 2013 , 271-320		
208	Photochemically crosslinked collagen annulus plug: a potential solution solving the leakage problem of cell-based therapies for disc degeneration. 2013 , 9, 8128-39		26
207	Thermoreversible hyaluronan-based hydrogel supports in vitro and ex vivo disc-like differentiation of human mesenchymal stem cells. 2013 , 13, 1627-39		70
206	Dual release of dexamethasone and TGF- β from polymeric microspheres for stem cell matrix accumulation in a rat disc degeneration model. 2013 , 9, 9423-33		50
205	The effects of microenvironment in mesenchymal stem cell-based regeneration of intervertebral disc. 2013 , 13, 352-62		116
204	The transpedicular approach for the study of intervertebral disc regeneration strategies: in vivo characterization. 2013 , 22 Suppl 6, S972-8		36
203	The transpedicular approach as an alternative route for intervertebral disc regeneration. 2013 , 38, E319-24		38
202	MR monitoring of minimally invasive delivery of mesenchymal stem cells into the porcine intervertebral disc. 2013 , 8, e74658		24
201	Fluoroscopy assisted minimally invasive transplantation of allogenic mesenchymal stromal cells embedded in HyStem reduces the progression of nucleus pulposus degeneration in the damaged intervertebral [corrected] disc: a preliminary study in rabbits. 2014 , 2014, 818502		9
200	Editorial paper New directions in the treatment of degenerative disc disease. 2014 , 5, 289-291		1

199	Mesenchymal progenitor cells combined with pentosan polysulfate mediating disc regeneration at the time of microdiscectomy: a preliminary study in an ovine model. 2014 , 20, 657-69	51
198	Delivering mesenchymal stem cells in collagen microsphere carriers to rabbit degenerative disc: reduced risk of osteophyte formation. 2014 , 20, 1379-91	31
197	Primed 3D injectable microniches enabling low-dosage cell therapy for critical limb ischemia. 2014 , 111, 13511-6	100
196	Potential regenerative treatment strategies for intervertebral disc degeneration in dogs. 2014 , 10, 3	32
195	In vivo biofunctional evaluation of hydrogels for disc regeneration. 2014 , 23, 19-26	29
194	Cell sources for nucleus pulposus regeneration. 2014 , 23 Suppl 3, S364-74	40
193	Using notochordal cells of developmental origin to stimulate nucleus pulposus cells and bone marrow stromal cells for intervertebral disc regeneration. 2014 , 23, 679-88	15
192	Disc cell therapies: critical issues. 2014 , 23 Suppl 3, S375-84	15
191	Pathologie des hyperostoses: rôle des cellules mésenchymateuses?. 2014 , 81, 29-34	
190	A systematic review of the safety and efficacy of mesenchymal stem cells for disc degeneration: insights and future directions for regenerative therapeutics. 2014 , 23, 2553-67	67
189	Link N and mesenchymal stem cells can induce regeneration of the early degenerate intervertebral disc. 2014 , 20, 2942-9	37
188	Intradiscal application of rhBMP-7 does not induce regeneration in a canine model of spontaneous intervertebral disc degeneration. 2015 , 17, 137	39
187	Current understanding of safety and efficacy of stem cell therapy for discogenic pain: a systematic review of human studies. 2015 , 19, 32-37	2
186	Treatment of annular disc tears and [leaky disc syndrome] with fibrin sealant. 2015 , 19, 45-49	2
185	Biological approaches to treating intervertebral disk degeneration: devising stem cell therapies. 2015 , 24, 2197-208	21
184	Cell-Based Therapies Used to Treat Lumbar Degenerative Disc Disease: A Systematic Review of Animal Studies and Human Clinical Trials. 2015 , 2015, 946031	55
183	A Nucleotomy Model with Intact Annulus Fibrosus to Test Intervertebral Disc Regeneration Strategies. 2015 , 21, 1117-24	20
182	Injectable microcryogels reinforced alginate encapsulation of mesenchymal stromal cells for leak-proof delivery and alleviation of canine disc degeneration. <i>Biomaterials</i> , 2015 , 59, 53-65	15.6 68

181	Three-Dimensional Microgel Platform for the Production of Cell Factories Tailored for the Nucleus Pulposus. 2015 , 26, 1297-306		11
180	Stem cell therapy for intervertebral disc regeneration: obstacles and solutions. <i>Nature Reviews Rheumatology</i> , 2015 , 11, 243-56	8.1	259
179	Molecular basis of intervertebral disc degeneration and herniations: what are the important translational questions?. 2015 , 473, 1903-12		136
178	Endogenous cell homing for intervertebral disk regeneration. 2015 , 23, 264-6		6
177	Stem Cell Approaches to Intervertebral Disc Regeneration: Obstacles from the Disc Microenvironment. 2015 , 24, 2479-95		49
176	Transplantation of human Wharton's jelly-derived mesenchymal stem cells highly expressing TGF β receptors in a rabbit model of disc degeneration. 2015 , 6, 190		28
175	TGF- β and IGF-1 synergy ameliorates nucleus pulposus mesenchymal stem cell differentiation towards the nucleus pulposus cell type through MAPK/ERK signaling. 2015 , 33, 326-36		36
174	Intervertebral disc regeneration: from the degenerative cascade to molecular therapy and tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015 , 9, 679-90	4.4	60
173	In vitro characterization and in vivo behavior of human nucleus pulposus and annulus fibrosus cells in clinical-grade fibrin and collagen-enriched fibrin gels. 2015 , 21, 793-802		15
172	Percutaneous injection of autologous bone marrow concentrate cells significantly reduces lumbar discogenic pain through 12 months. 2015 , 33, 146-56		113
171	Advancing the cellular and molecular therapy for intervertebral disc disease. 2015 , 84, 159-71		164
170	Current trends in biologics delivery to restore intervertebral disc anabolism. 2015 , 84, 146-58		84
169	Multipotent Mesenchymal Stem Cell Treatment for Discogenic Low Back Pain and Disc Degeneration. 2016 , 2016, 3908389		34
168	Stem cell therapy: a promising biological strategy for tendon-bone healing after anterior cruciate ligament reconstruction. 2016 , 49, 154-62		45
167	TGF- β and GDF5 Act Synergistically to Drive the Differentiation of Human Adipose Stromal Cells toward Nucleus Pulposus-like Cells. 2016 , 34, 653-67		50
166	Influence of mononuclear cell therapy on disc degeneration in rabbits. 2016 , 51, 707-715		1
165	Influência da terapia celular mononuclear sobre a degeneração discal em coelhos. 2016 , 51, 707-715		2
164	Regenerative Treatments for Spinal Conditions. 2016 , 27, 1003-1017		7

163	Mesenchymal Stem/Stromal Cells seeded on cartilaginous endplates promote Intervertebral Disc Regeneration through Extracellular Matrix Remodeling. 2016 , 6, 33836	28
162	Minimal invasive annulotomy for induction of disc degeneration and implantation of poly (lactic-co-glycolic acid) (PLGA) plugs for annular repair in a rabbit model. 2016 , 21, 7	10
161	Biologic Treatments in Intervertebral Disc Degeneration: Protein-Based and Cell-Based Therapies. 2016 , 26, 189-197	1
160	Effect of perfluorotributylamine-enriched alginate on nucleus pulposus cell: Implications for intervertebral disc regeneration. <i>Biomaterials</i> , 2016 , 82, 34-47	15.6 30
159	Accelerated Chondrogenic Differentiation of Human Perivascular Stem Cells with NELL-1. 2016 , 22, 272-85	20
158	Mesenchymal stem cells in regenerative medicine: Focus on articular cartilage and intervertebral disc regeneration. 2016 , 99, 69-80	263
157	Timing of mesenchymal stem cell delivery impacts the fate and therapeutic potential in intervertebral disc repair. 2017 , 35, 32-40	17
156	Preconditioning of mesenchymal stromal cells toward nucleus pulposus-like cells by microcryogels-based 3D cell culture and syringe-based pressure loading system. 2017 , 105, 507-520	12
155	Thermally triggered hydrogel injection into bovine intervertebral disc tissue explants induces differentiation of mesenchymal stem cells and restores mechanical function. 2017 , 54, 212-226	38
154	A new in vivo method to retard progression of intervertebral disc degeneration through stimulation of endogenous stem cells with simvastatin. 2017 , 101, 65-66	10
153	The fabrication of cryogel scaffolds incorporated with poloxamer 407 for potential use in the regeneration of the nucleus pulposus. 2017 , 28, 36	8
152	An interpenetrating network-strengthened and toughened hydrogel that supports cell-based nucleus pulposus regeneration. <i>Biomaterials</i> , 2017 , 136, 12-28	15.6 63
151	Bone Marrow-Derived Mesenchymal Stem Cells as Autologous Therapy in Dogs with Naturally Occurring Intervertebral Disc Disease: Feasibility, Safety, and Preliminary Results. 2017 , 23, 643-651	19
150	Bedside to bench and back to bedside: Translational implications of targeted intervertebral disc therapeutics. 2017 , 10, 18-27	6
149	Biomechanical Evaluation of Transpedicular Nucleotomy With Intact Annulus Fibrosus. 2017 , 42, E193-E201	18
148	Intervertebral disc response to stem cell treatment is conditioned by disc state and cell carrier: An study. 2017 , 9, 43-51	12
147	Cell therapy for intervertebral disc repair: Clinical perspective. 2017 , 9, 8-18	69
146	The Paracrine Effect of Degenerated Disc Cells on Healthy Human Nucleus Pulposus Cells Is Mediated by MAPK and NF- κ B Pathways and Can Be Reduced by TGF- β . 2017 , 36, 143-158	23

145	Clinically relevant hydrogel-based on hyaluronic acid and platelet rich plasma as a carrier for mesenchymal stem cells: Rheological and biological characterization. 2017 , 35, 2109-2116	23
144	Cell therapy for the degenerating intervertebral disc. 2017 , 181, 49-58	43
143	Weak bones in diabetes mellitus - an update on pharmaceutical treatment options. 2018 , 70, 1-17	9
142	The transpedicular surgical approach for the development of intervertebral disc targeting regenerative strategies in an ovine model. 2017 , 26, 2072-2083	11
141	One-Stage Positron Emission Tomography and Magnetic Resonance Imaging to Assess Mesenchymal Stem Cell Survival in a Canine Model of Intervertebral Disc Degeneration. 2017 , 26, 1334-1343	16
140	Systemic Delivery of Bone Marrow Mesenchymal Stem Cells for In Situ Intervertebral Disc Regeneration. 2017 , 6, 1029-1039	23
139	A Histopathological Scheme for the Quantitative Scoring of Intervertebral Disc Degeneration and the Therapeutic Utility of Adult Mesenchymal Stem Cells for Intervertebral Disc Regeneration. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3 25
138	Safety and tolerability of intradiscal implantation of combined autologous adipose-derived mesenchymal stem cells and hyaluronic acid in patients with chronic discogenic low back pain: 1-year follow-up of a phase I study. 2017 , 8, 262	84
137	Mesenchymal Stem Cell in the Intervertebral Disc. 2017 ,	3
136	Transplantation of allogenic nucleus pulposus cells attenuates intervertebral disc degeneration by inhibiting apoptosis and increasing migration. 2018 , 41, 2553-2564	11
135	Priming and cryopreservation of microencapsulated marrow stromal cells as a strategy for intervertebral disc regeneration. 2018 , 13, 034106	6
134	Cell-Seeded Adhesive Biomaterial for Repair of Annulus Fibrosus Defects in Intervertebral Discs. 2018 , 24, 187-198	28
133	Novel stepwise model of intervertebral disc degeneration with intact annulus fibrosus to test regeneration strategies. 2018 , 36, 2460-2468	9
132	Novel therapeutic strategies for degenerative disc disease: Review of cell biology and intervertebral disc cell therapy. 2018 , 6, 2050312118761674	29
131	Stromal cell-derived factor-1-encapsulated albumin/heparin nanoparticles for induced stem cell migration and intervertebral disc regeneration in vivo. 2018 , 72, 217-227	24
130	Understanding the molecular biology of intervertebral disc degeneration and potential gene therapy strategies for regeneration: a review. 2018 , 25, 67-82	78
129	Cell-Based Therapies for Lumbar Discogenic Low Back Pain: Systematic Review and Single-Arm Meta-analysis. 2018 , 43, 49-57	16
128	Mesenchymal Stem Cell Levels of Human Spinal Tissues. 2018 , 43, E545-E550	4

127	Stem cell-based gene delivery mediated by cationic niosomes for bone regeneration. 2018 , 14, 521-531	28
126	Intervertebral Disc-Derived Stem/Progenitor Cells as a Promising Cell Source for Intervertebral Disc Regeneration. 2018 , 2018, 7412304	22
125	Biologic canine and human intervertebral disc repair by notochordal cell-derived matrix: from bench towards bedside. 2018 , 9, 26507-26526	20
124	Advancing cell therapies for intervertebral disc regeneration from the lab to the clinic: Recommendations of the ORS spine section. 2018 , 1, e1036	45
123	Injectable, redox-polymerized carboxymethylcellulose hydrogels promote nucleus pulposus-like extracellular matrix elaboration by human MSCs in a cell density-dependent manner. 2018 , 33, 576-589	7
122	Intradiscal Biologic Treatments: Intra-annular Fibrin Disc Sealant. 2018 , 525-536	
121	Transplantation of Hypoxic-Preconditioned Bone Mesenchymal Stem Cells Retards Intervertebral Disc Degeneration via Enhancing Implanted Cell Survival and Migration in Rats. 2018 , 2018, 7564159	25
120	safety and efficacy testing of a thermally triggered injectable hydrogel scaffold for bone regeneration and augmentation in a rat model. 2018 , 9, 18277-18295	15
119	In vivo annular repair using high-density collagen gel seeded with annulus fibrosus cells. 2018 , 79, 230-238	26
118	A novel in vivo porcine model of intervertebral disc degeneration induced by cryoinjury. 2018 , 42, 2263-2272	5
117	Disc cell therapy with bone-marrow-derived autologous mesenchymal stromal cells in a large porcine disc degeneration model. 2018 , 27, 2639-2649	12
116	Evaluation of Lumbar Intervertebral Disc Degeneration Using T1 and T2 Magnetic Resonance Imaging in a Rabbit Disc Injury Model. 2018 , 12, 317-324	7
115	Influence of key processing parameters and seeding density effects of microencapsulated chondrocytes fabricated using electrohydrodynamic spraying. 2018 , 10, 035011	11
114	Overview on Percutaneous Therapies of Disc Diseases. 2019 , 55,	3
113	Differential Effector Response of Amnion- and Adipose-Derived Mesenchymal Stem Cells to Inflammation; Implications for Intradiscal Therapy. 2019 , 37, 2445-2456	12
112	Slow depressurization following intradiscal injection leads to injectate leakage in a large animal model. 2019 , 2, e1061	6
111	Co-culture of the bone and bone marrow: a novel way to obtain mesenchymal stem cells with enhanced osteogenic ability for fracture healing in SD rats. 2019 , 14, 293	4
110	Interaction between Mesenchymal Stem Cells and Intervertebral Disc Microenvironment: From Cell Therapy to Tissue Engineering. 2019 , 2019, 2376172	38

109	Efficacy of HYADD \square 4-G single intra-discal injections in a rabbit model of intervertebral disc degeneration. 2019 , 30, 403-417		1
108	Controversies in regenerative medicine: Should intervertebral disc degeneration be treated with mesenchymal stem cells?. 2019 , 2, e1043		41
107	The effect of intervertebral disc degenerative change on biological characteristics of nucleus pulposus mesenchymal stem cell: an study in rats. 2019 , 60, 376-388		10
106	Cell Therapy for Treatment of Intervertebral Disc Degeneration: A Systematic Review. 2019 , 9, 39S-52S		25
105	In vitro and in vivo evaluation of an electrospun-aligned microfibrinous implant for Annulus fibrosus repair. <i>Biomaterials</i> , 2019 , 205, 81-93	15.6	35
104	Collagen Peptide Presenting Nanofibrous Scaffold for Intervertebral Disc Regeneration.. 2019 , 2, 1686-1695		11
103	Discogenic Back Pain: Literature Review of Definition, Diagnosis, and Treatment. 2019 , 3, e10180		51
102	Photo-crosslinked gelatin-hyaluronic acid methacrylate hydrogel-committed nucleus pulposus-like differentiation of adipose stromal cells for intervertebral disc repair. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019 , 13, 682-693	4.4	19
101	Latest Advances in Cryogel Technology for Biomedical Applications. 2019 , 2, 1800114		105
100	Stem cell therapy in discogenic back pain. 2019 , 5, 561-583		14
99	Photopolymerizable biogel scaffold seeded with mesenchymal stem cells: safety and efficacy evaluation of novel treatment for intervertebral disc degeneration. 2019 , 37, 1451-1459		11
98	Controlled immobilization-traction based on intervertebral stability is conducive to the regeneration or repair of the degenerative disc: an in vivo study on the rat coccygeal model. 2019 , 19, 920-930		7
97	Mesenchymal Stem Cell-Seeded High-Density Collagen Gel for Annular Repair: 6-Week Results From In Vivo Sheep Models. 2019 , 85, E350-E359		25
96	IVD progenitor cells: a new horizon for understanding disc homeostasis and repair. <i>Nature Reviews Rheumatology</i> , 2019 , 15, 102-112	8.1	49
95	The future of disc surgery and regeneration. 2019 , 43, 995-1002		10
94	Treatment of Naturally Degenerated Canine Lumbosacral Intervertebral Discs with Autologous Mesenchymal Stromal Cells and Collagen Microcarriers: A Prospective Clinical Study. 2019 , 28, 201-211		9
93	Cell therapy for intervertebral disc herniation and degenerative disc disease: clinical trials. 2019 , 43, 1011-1025		32
92	Intervertebral disc regeneration: From cell therapy to the development of novel bioinspired endogenous repair strategies. 2019 , 146, 306-324		59

91	Construction of Microunits by Adipose-Derived Mesenchymal Stem Cells Laden with Porous Microcryogels for Repairing an Acute Achilles Tendon Rupture in a Rat Model. 2020 , 15, 7155-7171		4
90	Advanced Strategies for the Regeneration of Lumbar Disc Annulus Fibrosus. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	12
89	Characterization of biomaterials intended for use in the nucleus pulposus of degenerated intervertebral discs. 2020 , 114, 1-15		11
88	Intervertebral Disc Regeneration Using Stem Cell/Growth Factor-Loaded Porous Particles with a Leaf-Stacked Structure. 2020 , 21, 4795-4805		7
87	Efficacy of matrilin-3-primed adipose-derived mesenchymal stem cell spheroids in a rabbit model of disc degeneration. 2020 , 11, 363		9
86	Putting the Pieces in Place: Mobilizing Cellular Players to Improve Annulus Fibrosus Repair. 2021 , 27, 295-312		4
85	Controlled release of biological factors for endogenous progenitor cell migration and intervertebral disc extracellular matrix remodelling. <i>Biomaterials</i> , 2020 , 253, 120107	15.6	9
84	Bone marrow mesenchymal stem cells combined with ultra-purified alginate gel as a regenerative therapeutic strategy after discectomy for degenerated intervertebral discs. 2020 , 53, 102698		10
83	Reduced nucleotomy-induced intervertebral disc disruption through spontaneous spheroid formation by the Low Adhesive Scaffold Collagen (LASCOL). <i>Biomaterials</i> , 2020 , 235, 119781	15.6	9
82	Biomaterials-Induced Stem Cells Specific Differentiation Into Intervertebral Disc Lineage Cells. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 56	5.8	4
81	Thermosensitive hydrogels loaded with human-induced pluripotent stem cells overexpressing growth differentiation factor-5 ameliorate intervertebral disc degeneration in rats. 2020 , 108, 2005-2016		11
80	Spine Disorders and Regenerative Rehabilitation. 2020 , 8, 30-36		1
79	Localization of drilling tool position through bone tissue identification during surgical drilling. 2020 , 67, 102342		2
78	Stable mechanical environments created by a low-tension traction device is beneficial for the regeneration and repair of degenerated intervertebral discs. 2020 , 20, 1503-1516		4
77	Collateral effects of targeting the nucleus pulposus via a transpedicular or transannular surgical route: a combined X-ray, MRI, and histological long-term descriptive study in sheep. 2021 , 30, 585-595		3
76	Biological Treatment Approaches for Degenerative Disc Disease: Injectable Biomaterials and Bioartificial Disc Replacement. 2021 , 171-195		
75	Current Progress in the Endogenous Repair of Intervertebral Disk Degeneration Based on Progenitor Cells. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 629088	5.8	3
74	Advances in Tissue Engineering for Disc Repair. 2021 , 11, 1919		1

73	Cell-based strategies for IVD repair: clinical progress and translational obstacles. <i>Nature Reviews Rheumatology</i> , 2021 , 17, 158-175	8.1	22
72	The Application of Mesenchymal Stromal Cells and Their Homing Capabilities to Regenerate the Intervertebral Disc. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	19
71	Using embedded alginate microparticles to tune the properties of in situ forming poly(N-isopropylacrylamide)-graft-chondroitin sulfate bioadhesive hydrogels for replacement and repair of the nucleus pulposus of the intervertebral disc.		
70	Stem Cells and Intervertebral Disc Regeneration Overview-What They Can and Can't Do. 2021 , 15, 40-53		6
69	Long-term pre-clinical evaluation of an injectable chitosan nanocellulose hydrogel with encapsulated adipose-derived stem cells in an ovine model for IVD regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2021 , 15, 660-673	4.4	3
68	Using embedded alginate microparticles to tune the properties of in situ forming poly(-isopropylacrylamide)-graft-chondroitin sulfate bioadhesive hydrogels for replacement and repair of the nucleus pulposus of the intervertebral disc. 2021 , 4, e1161		2
67	A comprehensive tool box for large animal studies of intervertebral disc degeneration. 2021 , 4, e1162		3
66	Intervertebral Disc Stem/Progenitor Cells: A Promising "Seed" for Intervertebral Disc Regeneration. 2021 , 2021, 2130727		6
65	Extracellular Vesicles as an Emerging Treatment Option for Intervertebral Disc Degeneration: Therapeutic Potential, Translational Pathways, and Regulatory Considerations. 2021 , e2100596		5
64	Nose to Spine: spheroids generated by human nasal chondrocytes for scaffold-free nucleus pulposus augmentation. 2021 , 134, 240-251		3
63	Mesenchymal Stem Cell Applications in Spine Disorders: A Comprehensive Review. 2021 , 11, 7966		
62	Applications of Functionalized Hydrogels in the Regeneration of the Intervertebral Disc. 2021 , 2021, 2818624		1
61	Bioactive in situ crosslinkable polymer-peptide hydrogel for cell delivery to the intervertebral disc in a rat model. 2021 , 131, 117-127		5
60	Therapeutic Strategies for IVD Regeneration through Hyaluronan/SDF-1-Based Hydrogel and Intravenous Administration of MSCs. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	0
59	Injectable nanostructured colloidal gels resembling native nucleus pulposus as carriers of mesenchymal stem cells for the repair of degenerated intervertebral discs. 2021 , 128, 112343		5
58	Use of Stem Cells for Regeneration of the Intervertebral Disc. 2014 , 373-383		2
57	GDF5-GelMA injectable microspheres laden with adipose-derived stem cells for disc degeneration repair. 2020 ,		15
56	Sox9 gene transfer enhanced regenerative effect of bone marrow mesenchymal stem cells on the degenerated intervertebral disc in a rabbit model. 2014 , 9, e93570		22

55	Understanding nucleus pulposus cell phenotype: a prerequisite for stem cell based therapies to treat intervertebral disc degeneration. <i>Current Stem Cell Research and Therapy</i> , 2015 , 10, 307-16	3.6	43
54	Challenges and strategies in the repair of ruptured annulus fibrosus. 2013 , 25, 1-21		148
53	Cell therapy for intervertebral disc repair: advancing cell therapy from bench to clinics. 2014 , 27, 5-11		44
52	Balancing biological and biomechanical performance in intervertebral disc repair: a systematic review of injectable cell delivery biomaterials. 2020 , 40, 239-258		6
51	Stem cell injections for axial back pain: a systematic review of associated risks and complications with a case illustration of diffuse hyperplastic gliosis resulting in cauda equina syndrome. 2019 , 1-8		3
50	Stromal cell-derived factor-1 promotes recruitment and differentiation of nucleus pulposus-derived stem cells. 2019 , 11, 196-211		3
49	Insights of stem cell-based endogenous repair of intervertebral disc degeneration. 2020 , 12, 266-276		5
48	Mesenchymal stem cell tracking in the intervertebral disc. 2015 , 7, 65-74		9
47	Advances and Prospects in Biomaterials for Intervertebral Disk Regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 766087	5.8	1
46	Stem Cell Therapy and Exercise for Treatment of Intervertebral Disc Degeneration. 2021 , 2021, 7982333		3
45	Biologics for Disk Regeneration. 2014 , 1-25		
44	Differential Effector Response of Amnion- and Adipose-Derived Mesenchymal Stem Cells to Inflammation; Implications for Intradiscal Therapy.		
43	Biological Treatment Approaches for Degenerative Disc Disease: Injectable Biomaterials and Bioartificial Disc Replacement. 2020 , 1-25		
42	Use of regenerative treatments in treatment of lumbar Degenerative Disc Disease: A systematic review. 2020 , 195, 105916		0
41	Induction of notochordal differentiation of bone marrow mesenchymal-derived stem cells via the stimulation of notochordal cell-rich nucleus pulposus tissue. 2021 , 23,		3
40	New Biomaterials for Degenerative Disc Disease. 2020 , 273-309		
39	The ability to form cartilage of NPMSC and BMSC in SD rats. 2015 , 8, 4989-96		12
38	Evaluation of intervertebral disc regeneration with injection of mesenchymal stem cells encapsulated in PEGDA-microcryogel delivery system using quantitative T2 mapping: a study in canines. 2019 , 11, 2028-2041		6

37	[Research progress of endogenous repair strategy in intervertebral disc]. 2021 , 35, 636-641	
36	[Research progress of intervertebral disc endogenous stem cells for intervertebral disc regeneration]. 2017 , 31, 1267-1272	0
35	Cell sources proposed for nucleus pulposus regeneration.. 2021 , 4, e1175	2
34	Bone Marrow-Derived Mesenchymal Stem Cells Augment Regeneration of Intervertebral Disc in a Reproducible and Validated Mouse Intervertebral Disc Degeneration Model.. 2021 , 69, 1565-1570	0
33	Evaluation of injectable nucleus augmentation materials for the treatment of intervertebral disc degeneration.. 2021 ,	0
32	Effects of Growth Factor Combinations TGF β , GDF5 and GDF6 on the Matrix Synthesis of Nucleus Pulposus and Nasoseptal Chondrocyte Self-Assembled Microtissues. 2022 , 12, 1453	1
31	Extracellular vesicle and soluble fractions of adipose tissue-derived mesenchymal stem cells secretome induce inflammatory cytokines modulation in an in vitro model of discogenic pain.. 2022 ,	0
30	Mesenchymal stromal/stem cells and their exosomes application in the treatment of intervertebral disc disease: A promising frontier.. 2022 , 105, 108537	2
29	Application of stem cells in the repair of intervertebral disc degeneration.. 2022 , 13, 70	3
28	Clinical Development of Regenerative Medicine Targeted for Intervertebral Disc Disease.. 2022 , 58,	1
27	Biomaterials and Cell-Based Regenerative Therapies for Intervertebral Disc Degeneration with a Focus on Biological and Biomechanical Functional Repair: Targeting Treatments for Disc Herniation.. 2022 , 11,	2
26	Small extracellular vesicles from hypoxic mesenchymal stem cells alleviate intervertebral disc degeneration by delivering miR-17-5p. 2021 ,	2
25	Intradiscal Injection of Autologous Discogenic Cells in Patients with Discectomy: A Prospective Clinical Study of Its Safety and Feasibility.. 2022 ,	1
24	Current Knowledge and Future Therapeutic Prospects in Symptomatic Intervertebral Disc Degeneration.. 2022 , 63, 199-210	1
23	Establishing a through-puncture model for assessing post-injection leakage in the intervertebral disc.. 2022 , 31, 865	0
22	Spheroid-Based Tissue Engineering Strategies for Regeneration of the Intervertebral Disc.. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3 0
21	Self-Assembling Peptide Hydrogels as Functional Tools to Tackle Intervertebral Disc Degeneration.. 2022 , 8,	0
20	1,25(OH)D Mitigates Oxidative Stress-Induced Damage to Nucleus Pulposus-Derived Mesenchymal Stem Cells through PI3K/Akt Pathway.. 2022 , 2022, 1427110	3

19	A biomechanical testing method to assess tissue adhesives for annulus closure.. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022 , 129, 105150	4.1	
18	Nanoscale treatment of intervertebral disc denervation: mesenchymal stem cell exosome transplantation.. <i>Current Stem Cell Research and Therapy</i> , 2022 ,	3.6	
17	Clinical safety of computed tomography-guided injection of autologous muscle-derived mesenchymal stem cells in the intervertebral disc in dogs.. <i>Journal of Stem Cells and Regenerative Medicine</i> , 2021 , 17, 43-48	0.8	
16	Mechanisms and clinical implications of intervertebral disc calcification.. <i>Nature Reviews Rheumatology</i> , 2022 ,	8.1	3
15	Developmental Morphogens Direct Human Induced Pluripotent Stem Cells Towards an Annulus Fibrosus-Like Cell Phenotype.		
14	Genipin-crosslinked fibrin seeded with oxidized alginate microbeads as a novel composite biomaterial strategy for intervertebral disc cell therapy. <i>Biomaterials</i> , 2022 , 287, 121641	15.6	2
13	Gene Therapy in Orthopaedics: Progress and Challenges in Pre-Clinical Development and Translation. <i>Frontiers in Bioengineering and Biotechnology</i> , 10,	5.8	1
12	Mesenchymal Stem Cell-Derived Exosomes and Intervertebral Disc Regeneration: Review. <i>International Journal of Molecular Sciences</i> , 2022 , 23, 7306	6.3	3
11	TGF- β -supplemented decellularized annulus fibrosus matrix hydrogels promote annulus fibrosus repair. <i>Bioactive Materials</i> , 2023 , 19, 581-593	16.7	1
10	New Hope for Treating Intervertebral Disc Degeneration: Microsphere-Based Delivery System. <i>Frontiers in Bioengineering and Biotechnology</i> , 10,	5.8	0
9	Regenerative Medicine Procedures Under Ultrasound Guidance. 2022 , 287-342		1
8	Hydrogel-Embedded Poly(Lactic-co-Glycolic Acid) Microspheres for the Delivery of hMSC-Derived Exosomes to Promote Bioactive Annulus Fibrosus Repair. 2022 , 13, 194760352211139		1
7	Intra-annular Fibrin Discseel \square . 2023 , 61-71		0
6	Development of 2-D and 3-D culture platforms derived from decellularized nucleus pulposus. 10,		0
5	Homing of vertebral-delivered mesenchymal stromal cells for degenerative intervertebral discs repair \square an in vivo proof-of-concept study.		0
4	Silk fibroin-based biomaterials for disc tissue engineering.		0
3	Novel Injectable Fluorescent Polymeric Nanocarriers for Intervertebral Disc Application. 2023 , 14, 52		0
2	Human 3D nucleus pulposus microtissue model to evaluate the potential of pre-conditioned nasal chondrocytes for the repair of degenerated intervertebral disc. 11,		0

- 1 Regenerative medicine for the treatment of chronic low back pain: a narrative review. **2023**, 51, 030006052311557