Arnold Caplan

List of Publications by Year
in descending order

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359 papers	56,882 citations	1980 101 h-index	1131 230 g-index
384 all docs	384 docs citations	384 times ranked	37102 citing authors

#	Article	IF	Citations
1	Mesenchymal stem cells. Journal of Orthopaedic Research, 1991, 9, 641-650.	1.2	4,258
2	Mesenchymal stem cells as trophic mediators. Journal of Cellular Biochemistry, 2006, 98, 1076-1084.	1.2	2,613
3	In VitroChondrogenesis of Bone Marrow-Derived Mesenchymal Progenitor Cells. Experimental Cell Research, 1998, 238, 265-272.	1.2	2,169
4	Osteogenic differentiation of purified, culture-expanded human mesenchymal stem cells in vitro. Journal of Cellular Biochemistry, 1997, 64, 295-312.	1.2	1,934
5	Adult mesenchymal stem cells for tissue engineering versus regenerative medicine. Journal of Cellular Physiology, 2007, 213, 341-347.	2.0	1,731
6	The MSC: An Injury Drugstore. Cell Stem Cell, 2011, 9, 11-15.	5.2	1,412
7	Mechanisms involved in the therapeutic properties of mesenchymal stem cells. Cytokine and Growth Factor Reviews, 2009, 20, 419-427.	3.2	1,241
8	Mesenchymal stem cell perspective: cell biology to clinical progress. Npj Regenerative Medicine, 2019, 4, 22.	2.5	1,113
9	Rapid Hematopoietic Recovery After Coinfusion of Autologous-Blood Stem Cells and Culture-Expanded Marrow Mesenchymal Stem Cells in Advanced Breast Cancer Patients Receiving High-Dose Chemotherapy. Journal of Clinical Oncology, 2000, 18, 307-307.	0.8	1,043
10	Mesenchymal stem cells: building blocks for molecular medicine in the 21st century. Trends in Molecular Medicine, 2001, 7, 259-264.	3.5	1,020
11	Myogenic cells derived from rat bone marrow mesenchymal stem cells exposed to 5-azacytidine. Muscle and Nerve, 1995, 18, 1417-1426.	1.0	1,006
12	Why are MSCs therapeutic? New data: new insight. Journal of Pathology, 2009, 217, 318-324.	2.1	996
13	A New Human Somatic Stem Cell from Placental Cord Blood with Intrinsic Pluripotent Differentiation Potential. Journal of Experimental Medicine, 2004, 200, 123-135.	4.2	968
14	Mesenchymal stem cells: environmentally responsive therapeutics for regenerative medicine. Experimental and Molecular Medicine, 2013, 45, e54-e54.	3.2	954
15	In Search of the In Vivo Identity of Mesenchymal Stem Cells. Stem Cells, 2008, 26, 2287-2299.	1.4	953
16	The Dynamic in vivo Distribution of Bone Marrow-Derived Mesenchymal Stem Cells after Infusion. Cells Tissues Organs, 2001, 169, 12-20.	1.3	849
17	Mesenchymal Stem Cells: Time to Change the Name!. Stem Cells Translational Medicine, 2017, 6, 1445-1451.	1.6	761
18	The Chondrogenic Potential of Human Bone-Marrow-Derived Mesenchymal Progenitor Cells*. Journal of Bone and Joint Surgery - Series A, 1998, 80, 1745-57.	1.4	751

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19	Review: Mesenchymal Stem Cells: Cellâ€“Based Reconstructive Therapy in Orthopedics. Tissue Engineering, 2005, 11, 1198-1211.	4.9	728
20	Mesenchymal Stem Cells: Mechanisms of Inflammation. Annual Review of Pathology: Mechanisms of Disease, 2011, 6, 457-478.	9.6	715
21	Mesenchymal stem cells in bone development, bone repair, and skeletal regenaration therapy. Journal of Cellular Biochemistry, 1994, 56, 283-294.	1.2	712
22	Sulfated proteoglycans in astroglial barriers inhibit neurite outgrowth in vitro. Experimental Neurology, 1990, 109, 111-130.	2.0	709
23	Use of mesenchymal stem cells in a collagen matrix for achilles tendon repair. Journal of Orthopaedic Research, 1998, 16, 406-413.	1.2	672
24	All MSCs Are Pericytes?. Cell Stem Cell, 2008, 3, 229-230.	5.2	647
25	Cytokine expression by human marrow-derived mesenchymal progenitor cells in vitro: Effects of dexamethasone and IL-1Î±. , 1996, 166, 585-592.		567
26	The Mesengenic Process. Clinics in Plastic Surgery, 1994, 21, 429-435.	0.7	561
27	Stem cell technology and bioceramics: From cell to gene engineering. , 1999, 48, 913-927.		513
28	Autologous Mesenchymal Stem Cell-Mediated Repair of Tendon. Tissue Engineering, 1999, 5, 267-277.	4.9	496
29	Human bone marrowâ€derived mesenchymal stem cells induce Th2â€polarized immune response and promote endogenous repair in animal models of multiple sclerosis. Glia, 2009, 57, 1192-1203.	2.5	478
30	FGF-2 enhances the mitotic and chondrogenic potentials of human adult bone marrow-derived mesenchymal stem cells. Journal of Cellular Physiology, 2005, 203, 398-409.	2.0	443
31	Isolation and Characterization of a Population of Immature Dental Pulp Stem Cells Expressing OCT-4 and Other Embryonic Stem Cell Markers. Cells Tissues Organs, 2006, 184, 105-116.	1.3	421
32	Fibroblast heterogeneity: more than skin deep. Journal of Cell Science, 2004, 117, 667-675.	1.2	400
33	Exploring the Transâ€Cleavage Activity of CRISPRâ€Cas12a (cpf1) for the Development of a Universal Electrochemical Biosensor. Angewandte Chemie - International Edition, 2019, 58, 17399-17405.	7.2	399
34	Cultivation of rat marrow-derived mesenchymal stem cells in reduced oxygen tension: Effects on in vitro and in vivo osteochondrogenesis. Journal of Cellular Physiology, 2001, 187, 345-355.	2.0	379
35	A Quadripotential Mesenchymal Progenitor Cell Isolated from the Marrow of an Adult Mouse. Journal of Bone and Mineral Research, 1999, 14, 700-709.	3.1	372
36	Hyaluronic acid-based polymers as cell carriers for tissue-engineered repair of bone and cartilage. Journal of Orthopaedic Research, 1999, 17, 205-213.	1.2	365

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37	Hepatocyte growth factor mediates mesenchymal stem cellâ€“induced recovery in multiple sclerosis models. Nature Neuroscience, 2012, 15, 862-870.	7.1	365
38	Mesenchymal Stem Cells in Tissue Repair. Frontiers in Immunology, 2013, 4, 201.	2.2	365
39	MSCs: Delivery Routes and Engraftment, Cell-Targeting Strategies, and Immune Modulation. Stem Cells International, 2013, 2013, 1-13.	1.2	346
40	Repair of bone defects with marrow cells and porous ceramic: Experiments in rats. Acta Orthopaedica, 1989, 60, 334-339.	1.4	341
41	Stimulatory Effects of Basic Fibroblast Growth Factor and Bone Morphogenetic Protein-2 on Osteogenic Differentiation of Rat Bone Marrow-Derived Mesenchymal Stem Cells. Journal of Bone and Mineral Research, 1997, 12, 1606-1614.	3.1	333
42	Heterotopic osteogenesis in porous ceramics induced by marrow cells. Journal of Orthopaedic Research, 1989, 7, 568-578.	1.2	332
43	Injectable biodegradable hydrogel composites for rabbit marrow mesenchymal stem cell and growth factor delivery for cartilage tissue engineering. Biomaterials, 2007, 28, 3217-3227.	5.7	320
44	Effect of Swelling Ratio of Injectable Hydrogel Composites on Chondrogenic Differentiation of Encapsulated Rabbit Marrow Mesenchymal Stem Cells In Vitro. Biomacromolecules, 2009, 10, 541-546.	2.6	319
45	A point mutation in KINDLIN3 ablates activation of three integrin subfamilies in humans. Nature Medicine, 2009, 15, 313-318.	15.2	314
46	The STRO-1+ Marrow Cell Population Is Multipotential. Cells Tissues Organs, 2002, 170, 73-82.	1.3	301
47	A Chemically Defined Medium Supports in Vitro Proliferation and Maintains the Osteochondral Potential of Rat Marrow-Derived Mesenchymal Stem Cells. Experimental Cell Research, 1995, 219, 211-222.	1.2	281
48	Umbilical cord mesenchymal stem cells for COVID-19 acute respiratory distress syndrome: A double-blind, phase 1/2a, randomized controlled trial. Stem Cells Translational Medicine, 2021, 10, 660-673.	1.6	281
49	Chondrogenic Differentiation of Mesenchymal Stem Cells: Challenges and Unfulfilled Expectations. Tissue Engineering - Part B: Reviews, 2014, 20, 596-608.	2.5	269
50	Tissue-Engineered Fabrication of an Osteochondral Composite Graft Using Rat Bone Marrow-Derived Mesenchymal Stem Cells. Tissue Engineering, 2001, 7, 363-371.	4.9	262
51	Osteogenesis in Marrow-Derived Mesenchymal Cell Porous Ceramic Composites Transplanted Subcutaneously: Effect of Fibronectin and Laminin on Cell Retention and Rate of Osteogenic Expression. Cell Transplantation, 1992, 1, 23-32.	1.2	260
52	PDGF in bone formation and regeneration: New insights into a novel mechanism involving MSCs. Journal of Orthopaedic Research, 2011, 29, 1795-1803.	1.2	255
53	Culture-expanded human periosteal-derived cells exhibit osteochondral potential in vivo. Journal of Orthopaedic Research, 1991, 9, 465-476.	1.2	253
54	Repair of Large Full-Thickness Articular Cartilage Defects with Allograft Articular Chondrocytes Embedded in a Collagen Gel. Tissue Engineering, 1998, 4, 429-444.	4.9	242

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55	Human and animal mesenchymal progenitor cells from bone marrow: Identification of serum for optimal selection and proliferation. In Vitro Cellular and Developmental Biology - Animal, 1996, 32, 602-611.	0.7	240
56	Bone marrowâ€“derived mesenchymal stem cells remain host-derived despite successful hematopoietic engraftment after allogeneic transplantation in patients with lysosomal and peroxisomal storage diseases. Experimental Hematology, 1999, 27, 1675-1681.	0.2	233
57	Chondrogenesis of Adult Stem Cells from Adipose Tissue and Bone Marrow: Induction by Growth Factors and Cartilage-Derived Matrix. Tissue Engineering - Part A, 2010, 16, 523-533.	1.6	223
58	Effects of Initial Seeding Density and Fluid Perfusion Rate on Formation of Tissue-Engineered Bone. Tissue Engineering - Part A, 2008, 14, 1809-1820.	1.6	213
59	Bioreactors mediate the effectiveness of tissue engineering scaffolds. FASEB Journal, 2002, 16, 1691-1694.	0.2	207
60	Cancer Stem Cells: Targeting the Roots of Cancer, Seeds of Metastasis, and Sources of Therapy Resistance. Cancer Research, 2015, 75, 924-929.	0.4	203
61	In vitro differentiation of bone and hypertrophic cartilage from periosteal-derived cells*1. Experimental Cell Research, 1991, 195, 492-503.	1.2	202
62	Marrow cell induced osteogenesis in porous hydroxyapatite and tricalcium phosphate: A comparative histomorphometric study of ectopic bone formation. Journal of Biomedical Materials Research Part B, 1990, 24, 1563-1570.	3.0	201
63	Hyaluronan-based polymers in the treatment of osteochondral defects. Journal of Orthopaedic Research, 2000, 18, 773-780.	1.2	198
64	Fibroblast Growth Factor-2 Enhances Proliferation and Delays Loss of Chondrogenic Potential in Human Adult Bone-Marrow-Derived Mesenchymal Stem Cells. Tissue Engineering - Part A, 2010, 16, 1009-1019.	1.6	181
65	Chapter 4 Fibroblastsâ€”A Diverse Population at the Center of It All. International Review of Cell and Molecular Biology, 2009, 276, 161-214.	1.6	176
66	Biomineralization and Eggshells: Cell-Mediated Acellular Compartments of Mineralized Extracellular Matrix. International Review of Cytology, 1993, 145, 217-250.	6.2	175
67	Mesenchymal Stem Cells Current Clinical Applications: A Systematic Review. Archives of Medical Research, 2021, 52, 93-101.	1.5	174
68	Repair of osteochondral defects with hyaluronan- and polyester-based scaffolds. Osteoarthritis and Cartilage, 2005, 13, 297-309.	0.6	172
69	Adult Stem Cell Driven Genesis of Human-Shaped Articular Condyle. Annals of Biomedical Engineering, 2004, 32, 911-923.	1.3	169
70	Human mesenchymal stem cells suppress chronic airway inflammation in the murine ovalbumin asthma model. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2010, 299, L760-L770.	1.3	169
71	Chondroprogenitor cells of synovial tissue. Arthritis and Rheumatism, 1999, 42, 2631-2637.	6.7	165
72	Isolation of human marrow-derived mesenchymal stem cells. Experimental Hematology, 2006, 34, 1604-1605.	0.2	164

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73	The effects of crosslinking of scaffolds engineered from cartilage ECM on the chondrogenic differentiation of MSCs. Biomaterials, 2013, 34, 5802-5812.	5.7	163
74	Treatment of Osteochondral Defects with Autologous Bone Marrow in a Hyaluronan-Based Delivery Vehicle. Tissue Engineering, 2002, 8, 333-347.	4.9	162
75	LacZ and Interleukin-3 ExpressionIn Vivoafter Retroviral Transduction of Marrow-Derived Human Osteogenic Mesenchymal Progenitors. Human Gene Therapy, 1997, 8, 1417-1427.	1.4	161
76	Optimizing mesenchymal stem cell-based therapeutics. Current Opinion in Biotechnology, 2009, 20, 531-536.	3.3	161
77	Adult Mesenchymal Stem Cells: When, Where, and How. Stem Cells International, 2015, 2015, 1-6.	1.2	160
78	BMP-2 induction and TGF-?1 modulation of rat periosteal cell chondrogenesis. Journal of Cellular Biochemistry, 2001, 81, 284-294.	1.2	156
79	Osteochondrogenic potential of marrow mesenchymal progenitor cells exposed to TGF-Î²1 or PDGF-BB as assayed in vivo and in vitro. Journal of Bone and Mineral Research, 1996, 11, 1264-1273.	3.1	154
80	Articular cartilage repair: Rabbit experiments with a collagen gel-biomatrix and chondrocytes cultured in it. Acta Orthopaedica, 1998, 69, 56-62.	1.4	151
81	In Vivo Osteochondrogenic Potential of Cultured Cells Derived From the Periosteum. Clinical Orthopaedics and Related Research, 1990, &NA;, 223???232.	0.7	144
82	Immunochemical and Mechanical Characterization of Cartilage Subtypes in Rabbit. Journal of Histochemistry and Cytochemistry, 2002, 50, 1049-1058.	1.3	142
83	Osteogenic potential of culture-expanded rat marrow cells as assayed in vivo with porous calcium phosphate ceramic. Biomaterials, 1991, 12, 253-258.	5.7	141
84	Influence of Adult Mesenchymal Stem Cells onIn VitroVascular Formation. Tissue Engineering - Part A, 2009, 15, 1751-1761.	1.6	141
85	What's in a Name?. Tissue Engineering - Part A, 2010, 16, 2415-2417.	1.6	139
86	Human Bone Marrow-Derived Mesenchymal (Stromal) Progenitor Cells (MPCs) Cannot Be Recovered from Peripheral Blood Progenitor Cell Collections. Stem Cells and Development, 1997, 6, 447-455.	1.0	138
87	Repair of Osteochondral Defect with Tissue-Engineered Two-Phase Composite Material of Injectable Calcium Phosphate and Hyaluronan Sponge. Tissue Engineering, 2002, 8, 827-837.	4.9	137
88	Collagens of the Chicken Eggshell Membranes. Connective Tissue Research, 1991, 26, 37-45.	1.1	132
89	Osteogenesis in cultures of limb mesenchymal cells. Developmental Biology, 1979, 73, 84-102.	0.9	130
90	Stem Cells in Dental Pulp of Deciduous Teeth. Tissue Engineering - Part B: Reviews, 2012, 18, 129-138.	2.5	129

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91	MSCs: The Sentinel and Safe-Guards of Injury. Journal of Cellular Physiology, 2016, 231, 1413-1416.	2.0	124
92	Cartilage Regeneration Using Principles of Tissue Engineering. Clinical Orthopaedics and Related Research, 2001, 391, S161-S170.	0.7	123
93	Age-related Changes in the Proteoglycans of Human Skin. Archives of Biochemistry and Biophysics, 2000, 373, 91-101.	1.4	121
94	New MSC: MSCs as pericytes are Sentinels and gatekeepers. Journal of Orthopaedic Research, 2017, 35, 1151-1159.	1.2	119
95	Antimicrobial Properties of Mesenchymal Stem Cells: Therapeutic Potential for Cystic Fibrosis Infection, and Treatment. Stem Cells International, 2016, 2016, 1-12.	1.2	117
96	Hyaluronic acid bonded to cell culture surfaces inhibits the program of myogenesis. Developmental Biology, 1986, 113, 10-16.	0.9	114
97	Isolation of rat marrow-derived mesenchymal stem cells. Experimental Hematology, 2006, 34, 1606-1607.	0.2	113
98	ION-INDUCED ULTRASTRUCTURAL TRANSFORMATIONS IN ISOLATED MITOCHONDRIA. Journal of Cell Biology, 1969, 42, 221-234.	2.3	111
99	Tissue Engineering Designs for the Future: New Logics, Old Molecules. Tissue Engineering, 2000, 6, 1-8.	4.9	111
100	Myogenic Expression of Mesenchymal Stem Cells within Myotubes of mdx Mice in Vitro and in Vivo. Tissue Engineering, 1995, 1, 327-343.	4.9	110
101	In vitro generation of mechanically functional cartilage grafts based on adult human stem cells and 3D-woven poly(É›-caprolactone) scaffolds. Biomaterials, 2010, 31, 2193-2200.	5.7	107
102	Meniscus Regeneration in a Rabbit Partial Meniscectomy Model. Tissue Engineering, 1999, 5, 327-337.	4.9	106
103	Topical delivery of mesenchymal stem cells and their function in wounds. Stem Cell Research and Therapy, 2010, 1, 30.	2.4	106
104	Sequential exposure to fibroblast growth factors (FGF) 2, 9 and 18 enhances hMSC chondrogenic differentiation. Osteoarthritis and Cartilage, 2015, 23, 443-453.	0.6	106
105	New Era of Cell-Based Orthopedic Therapies. Tissue Engineering - Part B: Reviews, 2009, 15, 195-200.	2.5	104
106	Microstructure of matrix and mineral components of eggshells from White Leghorn chickens (Gallus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf		103
107	Human bone marrow stromal cells express an osteoblastic phenotype in culture. In Vitro Cellular & Developmental Biology, 1993, 29, 699-707.	1.0	102
108	A Self-Assembled Fibroblast-Endothelial Cell Co-Culture System That Supports in vitro Vasculogenesis by both Human Umbilical Vein Endothelial Cells and Human Dermal Microvascular Endothelial Cells. Cells Tissues Organs, 2007, 186, 157-168.	1.3	102

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109	Hyaluronic acid bonded to cell-culture surfaces stimulates chondrogenesis in stage 24 limb mesenchyme cell cultures. Developmental Biology, 1986, 114, 504-518.	0.9	99
110	Isolated osteoclasts and their presumed progenitor cells, the monocyte, in culture. The Journal of Experimental Zoology, 1982, 224, 331-344.	1.4	98
111	MSC Frequency Correlates with Blood Vessel Density in Equine Adipose Tissue. Tissue Engineering - Part A, 2009, 15, 221-229.	1.6	98
112	Principles of Tissue Engineered Regeneration of Skeletal Tissues. Clinical Orthopaedics and Related Research, 1999, 367, S12-S16.	0.7	95
113	A Rapid Seeding Technique for the Assembly of Large Cell/Scaffold Composite Constructs. Tissue Engineering, 2006, 12, 1851-1863.	4.9	94
114	Effect of dual growth factor delivery on chondrogenic differentiation of rabbit marrow mesenchymal stem cells encapsulated in injectable hydrogel composites. Journal of Biomedical Materials Research - Part A, 2009, 88A, 889-897.	2.1	93
115	Scaling-Up of Dental Pulp Stem Cells Isolated from Multiple Niches. PLoS ONE, 2012, 7, e39885.	1.1	92
116	Mesenchymal Stem Cells and Gene Therapy. Clinical Orthopaedics and Related Research, 2000, 379, S67-S70.	0.7	90
117	Hyaluronan-based polymer scaffold modulates the expression of inflammatory and degradative factors in mesenchymal stem cells: Involvement of Cd44 and Cd54. Journal of Cellular Physiology, 2006, 207, 364-373.	2.0	90
118	The MSC curtain that stops the immune system. Immunology Letters, 2015, 168, 136-139.	1.1	90
119	Cartilage. Scientific American, 1984, 251, 84-94.	1.0	89
120	BIOCHEMICAL AND ULTRASTRUCTURAL PROPERTIES OF OSMOTICALLY LYSED RAT-LIVER MITOCHONDRIA. Journal of Cell Biology, 1966, 31, 455-472.	2.3	87
121	Partial biochemical and immunochemical characterization of avian eggshell extracellular matrices. Archives of Biochemistry and Biophysics, 1992, 298, 293-302.	1.4	87
122	Cell-based therapy to reduce mortality from COVID-19: Systematic review and meta-analysis of human studies on acute respiratory distress syndrome. Stem Cells Translational Medicine, 2020, 9, 1007-1022.	1.6	85
123	Human Mesenchymal Stem Cells Signals Regulate Neural Stem Cell Fate. Neurochemical Research, 2007, 32, 353-362.	1.6	84
124	Dilution of human mesenchymal stem cells with dermal fibroblasts and the effects on in vitro and in vivo osteochondrogenesis. Developmental Dynamics, 2000, 219, 50-62.	0.8	83
125	Tissue Engineering of Autologous Cartilage Grafts in Three-Dimensionalin VitroMacroaggregate Culture System. Tissue Engineering, 2004, 10, 1695-1706.	4.9	83
126	Substrate-bonded hyaluronic acid exhibits a size-dependent stimulation of chondrogenic differentiation of stage 24 limb mesenchymal cells in culture. Developmental Biology, 1986, 114, 519-528.	0.9	81

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127	Ectopic induction of cartilage and bone by water-soluble proteins from bovine bone using a polyanhydride delivery vehicle. Journal of Biomedical Materials Research Part B, 1990, 24, 901-911.	3.0	81
128	Differentiation potential of conditionally immortalized mesenchymal progenitor cells from adult marrow of a H-2Kb-tsA58 transgenic mouse. , 1996, 167, 523-538.		79
129	Chondrogenesis and Mineralization DuringIn VitroCulture of Human Mesenchymal Stem Cells on Three-Dimensional Woven Scaffolds. Tissue Engineering - Part A, 2010, 16, 3709-3718.	1.6	79
130	Targeted delivery of progenitor cells for cartilage repair. Journal of Orthopaedic Research, 2004, 22, 735-741.	1.2	78
131	In vitro dexamethasone pretreatment enhances bone formation of human mesenchymal stem cells in vivo. Journal of Orthopaedic Research, 2009, 27, 916-921.	1.2	78
132	Age-related Changes in the Proteoglycans of Human Skin. Journal of Biological Chemistry, 2003, 278, 17566-17572.	1.6	77
133	Marrow-derived progenitor cell injections enhance new bone formation during distraction. Journal of Orthopaedic Research, 1999, 17, 900-908.	1.2	74
134	Exploring the Transâ€Cleavage Activity of CRISPRâ€Cas12a (cpf1) for the Development of a Universal Electrochemical Biosensor. Angewandte Chemie, 2019, 131, 17560-17566.	1.6	74
135	Dermatan Sulfate Proteoglycans from the Mineralized Matrix of the Avian Eggshell. Connective Tissue Research, 1997, 36, 175-193.	1.1	73
136	Cell-based tissue engineering therapies: the influence of whole body physiology.. Advanced Drug Delivery Reviews, 1998, 33, 3-14.	6.6	73
137	In vivo osteogenesis assay: a rapid method for quantitative analysis. Biomaterials, 1998, 19, 1323-1328.	5.7	68
138	Effect of age and sampling site on the chondro-osteogenic potential of rabbit marrow-derived mesenchymal progenitor cells. Journal of Orthopaedic Research, 2000, 18, 18-24.	1.2	68
139	Human dermal fibroblast subpopulations; differential interactions with vascular endothelial cells in coculture: Nonsoluble factors in the extracellular matrix influence interactions. Wound Repair and Regeneration, 2008, 16, 300-309.	1.5	68
140	Defining human mesenchymal stem cell efficacy in vivo. Journal of Inflammation, 2010, 7, 51.	1.5	67
141	Bone development and repair. BioEssays, 1987, 6, 171-175.	1.2	66
142	Efficient Lentiviral Transduction of Human Mesenchymal Stem Cells That Preserves Proliferation and Differentiation Capabilities. Stem Cells Translational Medicine, 2012, 1, 886-897.	1.6	66
143	International Expert Consensus on a Cell Therapy Communication Tool: DOSES. Journal of Bone and Joint Surgery - Series A, 2019, 101, 904-911.	1.4	66
144	The Avian Eggshell Extracellular Matrix as a Model for Biomineralization. Connective Tissue Research, 1996, 35, 325-328.	1.1	65

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145	High Variability in Rabbit Bone Marrow-Derived Mesenchymal Cell Preparations. Cell Transplantation, 1999, 8, 511-519.	1.2	64
146	Bone morphogenetic protein 2 stimulates osteogenesis but does not affect chondrogenesis in osteochondrogenic differentiation of periosteum-derived cells. Journal of Bone and Mineral Research, 1994, 9, 1195-1204.	3.1	61
147	Platelet-Derived Growth Factor BB Enhances Osteogenesis of Adipose-Derived But Not Bone Marrow-Derived Mesenchymal Stromal/Stem Cells. Stem Cells, 2015, 33, 2773-2784.	1.4	61
148	Cartilage Tissue Engineering for Laryngotracheal Reconstruction: Comparison of Chondrocytes from Three Anatomic Locations in the Rabbit. Tissue Engineering, 2007, 13, 843-853.	4.9	60
149	Mesenchymal stem cells regulate melanoma cancer cells extravasation to bone and liver at their perivascular niche. International Journal of Cancer, 2016, 138, 417-427.	2.3	59
150	THE EFFECTS OF OSMOTIC LYSIS ON THE OXIDATIVE PHOSPHORYLATION AND COMPARTMENTATION OF RAT LIVER MITOCHONDRIA. Journal of Cell Biology, 1968, 36, 15-31.	2.3	58
151	First bone formation in the developing chick limb. Developmental Biology, 1981, 86, 147-156.	0.9	58
152	The possible differentiation of osteogenic elements in vitro from chick limb mesodermal cells. Developmental Biology, 1976, 52, 283-299.	0.9	57
153	Toxic Effects of Gentamicin on Marrow-derived Human Mesenchymal Stem Cells. Clinical Orthopaedics and Related Research, 2006, 452, 242-249.	0.7	57
154	Development of a peptide-targeted, myocardial ischemia-homing, mesenchymal stem cell. Journal of Drug Targeting, 2012, 20, 23-32.	2.1	57
155	Osteogenic differentiation of purified, culture-expanded human mesenchymal stem cells in vitro. , 1997, 64, 295.		55
156	Patterns of Glycosaminoglycan/Proteoglycan Immunostaining in Human Skin During Aging. Journal of Investigative Dermatology, 1990, 96, 968-974.	0.3	54
157	The inhibition by interleukin 1 of MSC chondrogenesis and the development of biomechanical properties in biomimetic 3D woven PCL scaffolds. Biomaterials, 2012, 33, 8967-8974.	5.7	54
158	Serial Transplantation and Long-term Engraftment of Intra-arterially Delivered Clonally Derived Mesenchymal Stem Cells to Injured Bone Marrow. Molecular Therapy, 2014, 22, 160-168.	3.7	54
159	Body Management: Mesenchymal Stem Cells Control the Internal Regenerator. Stem Cells Translational Medicine, 2015, 4, 695-701.	1.6	54
160	Validating continuous digital light processing (cDLP) additive manufacturing accuracy and tissue engineering utility of a dye-initiator package. Biofabrication, 2014, 6, 015003.	3.7	53
161	Structural Domains in Chondroitin Sulfate Identified by Anti-Chondroitin Sulfate Monoclonal Antibodies. Immunosequencing of Chondroitin Sulfates. Matrix Biology, 1993, 13, 351-361.	1.8	52
162	Mesenchymal Stem Cells. Cartilage, 2010, 1, 6-9.	1.4	52

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163	Age-related differences in human skin proteoglycans. Glycobiology, 2011, 21, 257-268.	1.3	52
164	Nondestructive Evaluation of Hydrogel Mechanical Properties Using Ultrasound. Annals of Biomedical Engineering, 2011, 39, 2521-2530.	1.3	52
165	Generation of a Monoclonal Antibody Against Avian Small Dermatan Sulfate Proteoglycan: Immunolocalization and Tissue Distribution of PG-II (Decorin) in Embryonic Tissues. Matrix Biology, 1991, 11, 412-427.	1.8	51
166	Versican in human fetal skin development. Anatomy and Embryology, 1999, 199, 45-56.	1.5	51
167	A simple method for stem cell labeling with fluorine 18. Nuclear Medicine and Biology, 2005, 32, 701-705.	0.3	51
168	Clonal characterization of fibroblasts in the superficial layer of the adult human dermis. Cell and Tissue Research, 2007, 327, 499-510.	1.5	50
169	Chemotactic response of embryonic limb bud mesenchymal cells and muscle-derived fibroblasts to transforming growth factor-Î². Connective Tissue Research, 1988, 18, 1-7.	1.1	49
170	Dexamethasone inhibition of confluenceâ€induced apoptosis in human mesenchymal stem cells. Journal of Orthopaedic Research, 2009, 27, 216-221.	1.2	49
171	The role of CXCL12 and CCL7 chemokines in immune regulation, embryonic development, and tissue regeneration. Cytokine, 2014, 69, 277-283.	1.4	48
172	The vasculature and limb development. Cell Differentiation, 1985, 16, 1-11.	1.3	47
173	Polybrene Inhibits Human Mesenchymal Stem Cell Proliferation during Lentiviral Transduction. PLoS ONE, 2011, 6, e23891.	1.1	47
174	Adult mesenchymal stem cells: an innovative therapeutic for lung diseases. Discovery Medicine, 2010, 9, 337-45.	0.5	47
175	The effects of the nicotinamide sensitive teratogen 3-acetylpyridine on chick limb mesodermal cells in culture: Biochemical parameters. The Journal of Experimental Zoology, 1972, 180, 351-362.	1.4	46
176	Ectopic induction of cartilage and bone by water-soluble proteins from bovine bone using a collagenous delivery vehicle. Journal of Biomedical Materials Research Part B, 1989, 23, 23-39.	3.0	46
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