Moustapha Kassem

List of Publications by Year
in descending order

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330 papers	23,290 citations	6254 80 h-index	11052 137 g-index
339 all docs	339 docs citations	339 times ranked	26411 citing authors

#	Article	IF	Citations
1	Aging is associated with decreased maximal life span and accelerated senescence of bone marrow stromal cells,. Bone, 2003, 33, 919-926.	2.9	1,037
2	Telomerase expression extends the proliferative life-span and maintains the osteogenic potential of human bone marrow stromal cells. Nature Biotechnology, 2002, 20, 592-596.	17.5	721
3	Adipocyte tissue volume in bone marrow is increased with aging and in patients with osteoporosis. Biogerontology, 2001, 2, 165-171.	3.9	706
4	Mechanism of Divergent Growth Factor Effects in Mesenchymal Stem Cell Differentiation. Science, 2005, 308, 1472-1477.	12.6	531
5	Playing with bone and fat. Journal of Cellular Biochemistry, 2006, 98, 251-266.	2.6	471
6	MicroRNA-138 regulates osteogenic differentiation of human stromal (mesenchymal) stem cells in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6139-6144.	7.1	443
7	CD146 expression on primary nonhematopoietic bone marrow stem cells is correlated with in situ localization. Blood, 2011, 117, 5067-5077.	1.4	390
8	System-Wide Temporal Characterization of the Proteome and Phosphoproteome of Human Embryonic Stem Cell Differentiation. Science Signaling, 2011, 4, rs3.	3.6	389
9	Mesenchymal stem cell ingrowth and differentiation on coralline hydroxyapatite scaffolds. Biomaterials, 2007, 28, 1036-1047.	11.4	337
10	Isolation and characterization of osteoblast precursor cells from human bone marrow. Journal of Bone and Mineral Research, 1996, 11, 312-324.	2.8	336
11	Human mesenchymal stem cells: from basic biology to clinical applications. Gene Therapy, 2008, 15, 109-116.	4.5	330
12	Adult human mesenchymal stem cell as a target for neoplastic transformation. Oncogene, 2004, 23, 5095-5098.	5.9	326
13	Human Stromal (Mesenchymal) Stem Cells from Bone Marrow, Adipose Tissue and Skin Exhibit Differences in Molecular Phenotype and Differentiation Potential. Stem Cell Reviews and Reports, 2013, 9, 32-43.	5.6	317
14	Bone regeneration and stem cells. Journal of Cellular and Molecular Medicine, 2011, 15, 718-746.	3.6	308
15	Circulating microRNAs in breast cancer: novel diagnostic and prognostic biomarkers. Cell Death and Disease, 2017, 8, e3045-e3045.	6.3	291
16	Maintenance of differentiation potential of human bone marrow mesenchymal stem cells immortalized by human telomerase reverse transcriptase gene despite of extensive proliferation. Biochemical and Biophysical Research Communications, 2005, 326, 527-538.	2.1	234
17	Number and Proliferative Capacity of Osteogenic Stem Cells Are Maintained During Aging and in Patients with Osteoporosis. Journal of Bone and Mineral Research, 2001, 16, 1120-1129.	2.8	231
18	Teratoma Formation by Human Embryonic Stem Cells Is Site Dependent and Enhanced by the Presence of Matrigel. Stem Cells and Development, 2009, 18, 47-54.	2.1	220

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19	Smooth Muscle Cells in Atherosclerosis Originate From the Local Vessel Wall and Not Circulating Progenitor Cells in ApoE Knockout Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2006, 26, 2696-2702.	2.4	217
20	Sensitivity of Fibroblast Growth Factor 23 Measurements in Tumor-Induced Osteomalacia. Journal of Clinical Endocrinology and Metabolism, 2006, 91, 2055-2061.	3.6	214
21	Regulation of Human Skeletal Stem Cells Differentiation by Dlk1/Pref-1. Journal of Bone and Mineral Research, 2004, 19, 841-852.	2.8	209
22	Mesenchymal Stem Cells: Cell Biology and Potential Use in Therapy. Basic and Clinical Pharmacology and Toxicology, 2004, 95, 209-214.	2.5	207
23	Growth hormone stimulates proliferation and differentiation of normal human osteoblast-like cells in vitro. Calcified Tissue International, 1993, 52, 222-226.	3.1	204
24	Age- and sex-related changes in iliac cortical bone mass and remodeling. Bone, 1993, 14, 681-691.	2.9	190
25	Differential Expression Profiling of Membrane Proteins by Quantitative Proteomics in a Human Mesenchymal Stem Cell Line Undergoing Osteoblast Differentiation. Stem Cells, 2005, 23, 1367-1377.	3.2	185
26	Osteoblasts in osteoporosis: past, emerging, and future anabolic targets. European Journal of Endocrinology, 2011, 165, 1-10.	3.7	184
27	Mesenchymal Stem Cells: Biological Characteristics and Potential Clinical Applications. Cloning and Stem Cells, 2004, 6, 369-374.	2.6	179
28	Senescenceâ€associated intrinsic mechanisms of osteoblast dysfunctions. Aging Cell, 2011, 10, 191-197.	6.7	179
29	Maintenance of Osteoblastic and Adipocytic Differentiation Potential with Age and Osteoporosis in Human Marrow Stromal Cell Cultures. Calcified Tissue International, 2002, 71, 36-44.	3.1	174
30	Selenium Supplementation Restores the Antioxidative Capacity and Prevents Cell Damage in Bone Marrow Stromal Cells In Vitro. Stem Cells, 2006, 24, 1226-1235.	3.2	171
31	Resveratrol Inhibits Myeloma Cell Growth, Prevents Osteoclast Formation, and Promotes Osteoblast Differentiation. Cancer Research, 2005, 65, 9943-9952.	0.9	170
32	Effects of high glucose on mesenchymal stem cell proliferation and differentiation. Biochemical and Biophysical Research Communications, 2007, 363, 209-215.	2.1	165
33	MicroRNA-34a Inhibits Osteoblast Differentiation and In Vivo Bone Formation of Human Stromal Stem Cells. Stem Cells, 2014, 32, 902-912.	3.2	162
34	Tumorigenic Heterogeneity in Cancer Stem Cells Evolved from Long-term Cultures of Telomerase-Immortalized Human Mesenchymal Stem Cells. Cancer Research, 2005, 65, 3126-3135.	0.9	161
35	Osteogenesis depends on commissioning of a network of stem cell transcription factors that act as repressors of adipogenesis. Nature Genetics, 2019, 51, 716-727.	21.4	156
36	High-Fat Dietâ€“Induced Obesity Promotes Expansion of Bone Marrow Adipose Tissue and Impairs Skeletal Stem Cell Functions in Mice. Journal of Bone and Mineral Research, 2018, 33, 1154-1165.	2.8	153

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37	Induction of Adipocyte-Like Phenotype in Human Mesenchymal Stem Cells by Hypoxia. Stem Cells, 2004, 22, 1346-1355.	3.2	152
38	Patients With High Bone Mass Phenotype Exhibit Enhanced Osteoblast Differentiation and Inhibition of Adipogenesis of Human Mesenchymal Stem Cells. Journal of Bone and Mineral Research, 2007, 22, 1720-1731.	2.8	149
39	The Human Umbilical Cord Blood: A Potential Source for Osteoblast Progenitor Cells. Calcified Tissue International, 2003, 72, 135-142.	3.1	147
40	Effect of dynamic 3â€Ð culture on proliferation, distribution, and osteogenic differentiation of human mesenchymal stem cells. Journal of Biomedical Materials Research - Part A, 2009, 89A, 96-107.	4.0	138
41	microRNA expression profiling on individual breast cancer patients identifies novel panel of circulating microRNA for early detection. Scientific Reports, 2016, 6, 25997.	3.3	132
42	Hormone Replacement Therapy Prevents Osteoclastic Hyperactivity: A Histomorphometric Study in Early Postmenopausal Women. Journal of Bone and Mineral Research, 1999, 14, 1217-1221.	2.8	130
43	MAPKs are essential upstream signaling pathways in proteolytic cartilage degradation â€“ divergence in pathways leading to aggrecanase and MMP-mediated articular cartilage degradation. Osteoarthritis and Cartilage, 2010, 18, 279-288.	1.3	129
44	Concise Review: Quiescence in Adult Stem Cells: Biological Significance and Relevance to Tissue Regeneration. Stem Cells, 2015, 33, 2903-2912.	3.2	129
45	Inhibition of osteoblast differentiation but not adipocyte differentiation of mesenchymal stem cells by sera obtained from aged females. Bone, 2006, 39, 181-188.	2.9	127
46	Demonstration of cellular aging and senescence in serially passaged long-term cultures of human trabecular osteoblasts. Osteoporosis International, 1997, 7, 514-524.	3.1	125
47	Demonstration of the presence of independent pre-osteoblastic and pre-adipocytic cell populations in bone marrow-derived mesenchymal stem cells. Bone, 2008, 43, 32-39.	2.9	125
48	Estrogen inhibits interleukin-6 production and gene expression in a human osteoblastic cell line with high levels of estrogen receptors. Journal of Bone and Mineral Research, 1996, 11, 193-199.	2.8	125
49	MECHANISMS IN ENDOCRINOLOGY: Micro-RNAs: targets for enhancing osteoblast differentiation and bone formation. European Journal of Endocrinology, 2012, 166, 359-371.	3.7	125
50	microRNA-320/RUNX2 axis regulates adipocytic differentiation of human mesenchymal (skeletal) stem cells. Cell Death and Disease, 2014, 5, e1499-e1499.	6.3	119
51	Smooth Muscle Cells Healing Atherosclerotic Plaque Disruptions Are of Local, Not Blood, Origin in Apolipoprotein E Knockout Mice. Circulation, 2007, 116, 2053-2061.	1.6	116
52	The Histone H2B Monoubiquitination Regulatory Pathway Is Required for Differentiation of Multipotent Stem Cells. Molecular Cell, 2012, 46, 705-713.	9.7	115
53	Controversial issue: Is it safe to employ mesenchymal stem cells in cell-based therapies?. Experimental Gerontology, 2008, 43, 1018-1023.	2.8	113
54	Subcutaneous Adipocytes Can Differentiate into Bone-Forming Cellsin Vitroandin Vivo. Tissue Engineering, 2004, 10, 381-391.	4.6	110

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55	Flow perfusion culture of human mesenchymal stem cells on silicate-substituted tricalcium phosphate scaffolds. Biomaterials, 2008, 29, 2616-2627.	11.4	109
56	Concise Review: Bridging the Gap: Bone Regeneration Using Skeletal Stem Cell-Based Strategiesâ€"Where Are We Now?. Stem Cells, 2014, 32, 35-44.	3.2	109
57	Troglitazone Treatment Increases Bone Marrow Adipose Tissue Volume but Does not Affect Trabecular Bone Volume in Mice. Calcified Tissue International, 2001, 69, 46-50.	3.1	108
58	Human bone-marrow-derived mesenchymal stem cells: biological characteristics and potential role in therapy of degenerative diseases. Cell and Tissue Research, 2008, 331, 157-163.	2.9	108
59	Morphology, proliferation, and osteogenic differentiation of mesenchymal stem cells cultured on titanium, tantalum, and chromium surfaces. Journal of Biomedical Materials Research - Part A, 2008, 86A, 448-458.	4.0	106
60	New factors controlling the balance between osteoblastogenesis and adipogenesis. Bone, 2012, 50, 540-545.	2.9	105
61	Stable Isotope Labeling by Amino Acids in Cell Culture (SILAC) and Quantitative Comparison of the Membrane Proteomes of Self-renewing and Differentiating Human Embryonic Stem Cells. Molecular and Cellular Proteomics, 2009, 8, 959-970.	3.8	102
62	Enhanced differentiation of human embryonic stem cells to mesenchymal progenitors by inhibition of TGF-Î²/activin/nodal signaling using SB-431542. Journal of Bone and Mineral Research, 2010, 25, 1216-1233.	2.8	102
63	Wnt signalling mediates the cross-talk between bone marrow derived pre-adipocytic and pre-osteoblastic cell populations. Experimental Cell Research, 2011, 317, 745-756.	2.6	101
64	Fracture Risk in Perimenopausal Women Treated with Beta-Blockers. Calcified Tissue International, 2004, 75, 365-372.	3.1	98
65	The Bone Marrow-Derived Stromal Cells: Commitment and Regulation of Adipogenesis. Frontiers in Endocrinology, 2016, 7, 127.	3.5	98
66	Low/Negative Expression of PDGFR-Î± Identifies the Candidate Primary Mesenchymal Stromal Cells in Adult Human Bone Marrow. Stem Cell Reports, 2014, 3, 965-974.	4.8	97
67	Cloning and Identification of Genes That Associate with Mammalian Replicative Senescence. Experimental Cell Research, 1998, 240, 66-74.	2.6	94
68	TiO₂-Based Phosphoproteomic Analysis of the Plasma Membrane and the Effects of Phosphatase Inhibitor Treatment. Journal of Proteome Research, 2008, 7, 3304-3313.	3.7	94
69	Cerebral transplantation of encapsulated mesenchymal stem cells improves cellular pathology after experimental traumatic brain injury. Neuroscience Letters, 2009, 463, 176-181.	2.1	94
70	Tissue distribution and engraftment of human mesenchymal stem cells immortalized by human telomerase reverse transcriptase gene. Biochemical and Biophysical Research Communications, 2005, 330, 633-640.	2.1	92
71	Identifying a molecular phenotype for bone marrow stromal cells with in vivo bone-forming capacity. Journal of Bone and Mineral Research, 2010, 25, 796-808.	2.8	92
72	Production and action of transforming growth factor-Î² in human osteoblast cultures: dependence on cell differentiation and modulation by calcitriol. European Journal of Clinical Investigation, 2000, 30, 429-437.	3.4	91

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73	Self-assembled composite matrix in a hierarchical 3-D scaffold for bone tissue engineering. Acta Biomaterialia, 2011, 7, 2244-2255.	8.3	90
74	The effects of IGF-I and IGF-II on proliferation and differentiation of human osteoblasts and interactions with growth hormone. European Journal of Clinical Investigation, 1998, 28, 176-183.	3.4	88
75	Telomerase-deficient mice exhibit bone loss owing to defects in osteoblasts and increased osteoclastogenesis by inflammatory microenvironment. Journal of Bone and Mineral Research, 2011, 26, 1494-1505.	2.8	88
76	Skeletal (stromal) stem cells: An update on intracellular signaling pathways controlling osteoblast differentiation. Bone, 2015, 70, 28-36.	2.9	87
77	Genome-wide mRNA and miRNA expression profiling reveal multiple regulatory networks in colorectal cancer. Cell Death and Disease, 2015, 6, e1614-e1614.	6.3	86
78	Transgelin is a TGFÎ²-inducible gene that regulates osteoblastic and adipogenic differentiation of human skeletal stem cells through actin cytoskeleston organization. Cell Death and Disease, 2016, 7, e2321-e2321.	6.3	86
79	Obesity-Associated Hypermetabolism and Accelerated Senescence of Bone Marrow Stromal Stem Cells Suggest a Potential Mechanism for Bone Fragility. Cell Reports, 2019, 27, 2050-2062.e6.	6.4	86
80	Circulating osteogenic cells: Implications for injury, repair, and regeneration. Journal of Bone and Mineral Research, 2011, 26, 1685-1693.	2.8	85
81	Biochemical markers of bone metabolism reflect osteoclastic and osteoblastic activity in multiple myeloma. European Journal of Haematology, 2000, 64, 121-129.	2.2	83
82	dlk1/FA1 Regulates the Function of Human Bone Marrow Mesenchymal Stem Cells by Modulating Gene Expression of Pro-inflammatory Cytokines and Immune Response-related Factors. Journal of Biological Chemistry, 2007, 282, 7339-7351.	3.4	82
83	Aging of marrow stromal (skeletal) stem cells and their contribution to age-related bone loss. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2009, 1792, 364-370.	3.8	82
84	MDM2 Associates with Polycomb Repressor Complex 2 and Enhances Stemness-Promoting Chromatin Modifications Independent of p53. Molecular Cell, 2016, 61, 68-83.	9.7	82
85	Pegvisomant-Induced Serum Insulin-Like Growth Factor-I Normalization in Patients with Acromegaly Returns Elevated Markers of Bone Turnover to Normal. Journal of Clinical Endocrinology and Metabolism, 2003, 88, 5650-5655.	3.6	81
86	siRNA Nanoparticle Functionalization of Nanostructured Scaffolds Enables Controlled Multilineage Differentiation of Stem Cells. Molecular Therapy, 2010, 18, 2018-2027.	8.2	81
87	The von Kossa reaction for calcium deposits: silver lactate staining increases sensitivity and reduces background. The Histochemical Journal, 1993, 25, 446-451.	0.6	80
88	The use of mesenchymal (skeletal) stem cells for treatment of degenerative diseases: Current status and future perspectives. Journal of Cellular Physiology, 2009, 218, 9-12.	4.1	78
89	Effect of Hormone Replacement Therapy on Bone Quality in Early Postmenopausal Women. Journal of Bone and Mineral Research, 2003, 18, 955-959.	2.8	76
90	1,25-dihydroxyvitamin D3 potentiates fluoride-stimulated collagen type I production in cultures of human bone marrow stromal osteoblast-like cells. Journal of Bone and Mineral Research, 1993, 8, 1453-1458.	2.8	76

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91	Short-term treatment with growth hormone stimulates osteoblastic and osteoclastic activity in osteopenic postmenopausal women: A dose response study. Journal of Bone and Mineral Research, 1995, 10, 1865-1874.	2.8	76
92	Effect of hyaluronan on osteogenic differentiation of porcine bone marrow stromal cells in vitro. Journal of Orthopaedic Research, 2008, 26, 713-720.	2.3	75
93	Temporal Profiling and Pulsed SILAC Labeling Identify Novel Secreted Proteins During Ex Vivo Osteoblast Differentiation of Human Stromal Stem Cells. Molecular and Cellular Proteomics, 2012, 11, 989-1007.	3.8	75
94	MicroRNA-320 suppresses colorectal cancer by targeting SOX4, FOXM1, and FOXQ1. Oncotarget, 2016, 7, 35789-35802.	1.8	75
95	Ultrastructural investigations of bone resorptive cells in two types of autosomal dominant osteopetrosis. Bone, 1993, 14, 865-869.	2.9	72
96	Mice Deficient in 11Î²-Hydroxysteroid Dehydrogenase Type 1 Lack Bone Marrow Adipocytes, but Maintain Normal Bone Formation. Endocrinology, 2004, 145, 1916-1925.	2.8	72
97	Human Serum is as Efficient as Fetal Bovine Serum in Supporting Proliferation and Differentiation of Human Multipotent Stromal (Mesenchymal) Stem Cells In Vitro and In Vivo. Stem Cell Reviews and Reports, 2011, 7, 860-868.	5.6	72
98	Efficacy of Injection of Freshly Collected Autologous Adipose Tissue Into Perianal Fistulas in Patients With Crohnâ€™s Disease. Gastroenterology, 2019, 156, 2208-2216.e1.	1.3	72
99	Sphingosine 1-Phosphate (S1P) Receptors 1 and 2 Coordinately Induce Mesenchymal Cell Migration through S1P Activation of Complementary Kinase Pathways*. Journal of Biological Chemistry, 2013, 288, 5398-5406.	3.4	71
100	Osteoblastic cells: Differentiation and trans-differentiation. Archives of Biochemistry and Biophysics, 2008, 473, 183-187.	3.0	70
101	CD146/MCAM defines functionality of human bone marrow stromal stem cell populations. Stem Cell Research and Therapy, 2016, 7, 4.	5.5	70
102	Estrogen Effects on Insulin-Like Growth Factor Gene Expression in a Human Osteoblastic Cell Line with High Levels of Estrogen Receptor. Calcified Tissue International, 1998, 62, 60-66.	3.1	69
103	Expression of LRP1 by Human Osteoblasts: A Mechanism for the Delivery of Lipoproteins and Vitamin K1 to Bone. Journal of Bone and Mineral Research, 2004, 20, 283-293.	2.8	69
104	Heat Shock-Induced Enhancement of Osteoblastic Differentiation of hTERT-Immortalized Mesenchymal Stem Cells. Annals of the New York Academy of Sciences, 2006, 1067, 443-447.	3.8	69
105	Telomere shortening during aging of human osteoblasts in vitro and leukocytes in vivo: lack of excessive telomere loss in osteoporotic patients. Mechanisms of Ageing and Development, 1999, 106, 261-271.	4.6	68
106	Levels of serotonin, sclerostin, bone turnover markers as well as bone density and microarchitecture in patients with high-bone-mass phenotype due to a mutation in Lrp5. Journal of Bone and Mineral Research, 2011, 26, 1721-1728.	2.8	67
107	Legumain Regulates Differentiation Fate of Human Bone Marrow Stromal Cells and Is Altered in Postmenopausal Osteoporosis. Stem Cell Reports, 2017, 8, 373-386.	4.8	66
108	Effects of fluoride on human bone cells in vitro: differences in responsiveness between stromal osteoblast precursors and mature osteoblasts. European Journal of Endocrinology, 1994, 130, 381-386.	3.7	65

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109	Dlk1/FA1 Is a Novel Endocrine Regulator of Bone and Fat Mass and Its Serum Level Is Modulated by Growth Hormone. Endocrinology, 2007, 148, 3111-3121.	2.8	65
110	Assessment of Bone Formation Capacity Using In vivo Transplantation Assays: Procedure and Tissue Analysis. Methods in Molecular Biology, 2008, 455, 89-100.	0.9	65
111	Tumor Necrosis Factor Receptor Superfamily Member 19 (TNFRSF19) Regulates Differentiation Fate of Human Mesenchymal (Stromal) Stem Cells through Canonical Wnt Signaling and C/EBP. Journal of Biological Chemistry, 2010, 285, 14438-14449.	3.4	63
112	Activation of non-canonical Wnt/JNK pathway by Wnt3a is associated with differentiation fate determination of human bone marrow stromal (mesenchymal) stem cells. Biochemical and Biophysical Research Communications, 2011, 413, 98-104.	2.1	63
113	Stem Cells: Potential Therapy for Age-Related Diseases. Annals of the New York Academy of Sciences, 2006, 1067, 436-442.	3.8	62
114	Identification of differentiation-stage specific markers that define the ex vivo osteoblastic phenotype. Bone, 2014, 67, 23-32.	2.9	62
115	microRNAs as Regulators of Adipogenic Differentiation of Mesenchymal Stem Cells. Stem Cells and Development, 2015, 24, 417-425.	2.1	61
116	Increased RANKL/OPG mRNA Ratio in Iliac Bone Biopsies From Women with Hip Fractures. Calcified Tissue International, 2005, 76, 90-97.	3.1	60
117	Extrinsic Mechanisms Involved in Age-Related Defective Bone Formation. Journal of Clinical Endocrinology and Metabolism, 2011, 96, 600-609.	3.6	60
118	Familial Isolated Hyperparathyroidism as a Variant of Multiple Endocrine Neoplasia Type 1 in a Large Danish Pedigree. Journal of Clinical Endocrinology and Metabolism, 2000, 85, 165-167.	3.6	60
119	Expansion and Harvesting of hMSC-TERT. Open Biomedical Engineering Journal, 2007, 1, 38-46.	0.5	60
120	Multilineage differentiation of porcine bone marrow stromal cells associated with specific gene expression pattern. Journal of Orthopaedic Research, 2008, 26, 56-64.	2.3	58
121	Transforming growth factor-beta1 stimulates the production of insulin-like growth factor-I and insulin-like growth factor-binding protein-3 in human bone marrow stromal osteoblast progenitors. Journal of Endocrinology, 2001, 169, 549-561.	2.6	57
122	DLK1 is a novel regulator of bone mass that mediates estrogen deficiencyâ€“induced bone loss in mice. Journal of Bone and Mineral Research, 2011, 26, 1457-1471.	2.8	57
123	Dual role of delta-like 1 homolog (DLK1) in skeletal muscle development and adult muscle regeneration. Development (Cambridge), 2013, 140, 3743-3753.	2.5	57
124	Fabrication and characterization of a rapid prototyped tissue engineering scaffold with embedded multicomponent matrix for controlled drug release. International Journal of Nanomedicine, 2012, 7, 4285.	6.7	56
125	Surfaceâ€modified functionalized polycaprolactone scaffolds for bone repair: In vitro and in vivo experiments. Journal of Biomedical Materials Research - Part A, 2014, 102, 2993-3003.	4.0	56
126	Skeletal Stem Cells in Space and Time. Cell, 2015, 160, 17-19.	28.9	56

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127	Cancer stem cell overexpression of nicotinamide N-methyltransferase enhances cellular radiation resistance. Radiotherapy and Oncology, 2011, 99, 373-378.	0.6	55
128	An update of human mesenchymal stem cell biology and their clinical uses. Archives of Toxicology, 2014, 88, 1069-1082.	4.2	55
129	Distinct GAGE and MAGE-A expression during early human development indicate specific roles in lineage differentiation. Human Reproduction, 2008, 23, 2194-2201.	0.9	52
130	Mouse Embryonic Fibroblasts (MEF) Exhibit a Similar but not Identical Phenotype to Bone Marrow Stromal Stem Cells (BMSC). Stem Cell Reviews and Reports, 2012, 8, 318-328.	5.6	52
131	miR-141-3p inhibits human stromal (mesenchymal) stem cell proliferation and differentiation. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 2114-2121.	4.1	52
132	Aged Human Bone Marrow Stromal Cells Maintaining Bone Forming Capacity in vivo Evaluated Using an Improved Method of Visualization. Biogerontology, 2004, 5, 107-118.	3.9	51
133	Telomerase promoter reprogramming and interaction with general transcription factors in the human mesenchymal stem cell. Regenerative Medicine, 2006, 1, 125-131.	1.7	51
134	Longâ€term oral pamidronate treatment inhibits osteoclastic bone resorption and bone turnover without affecting osteoblastic function in multiple myeloma. European Journal of Haematology, 1998, 61, 128-134.	2.2	51
135	Patients with high-bone-mass phenotype owing to Lrp5-T253I mutation have low plasma levels of serotonin. Journal of Bone and Mineral Research, 2010, 25, 673-675.	2.8	51
136	Human Stromal (Mesenchymal) Stem Cells: Basic Biology and Current Clinical Use for Tissue Regeneration. Annals of Saudi Medicine, 2012, 32, 68-77.	1.1	51
137	Changes in the insulin-like growth factor-system may contribute to in vitro age-related impaired osteoblast functions. Experimental Gerontology, 2000, 35, 1061-1074.	2.8	50
138	Selective isolation and differentiation of a stromal population of human embryonic stem cells with osteogenic potential. Bone, 2011, 48, 231-241.	2.9	50
139	Inhibiting actin depolymerization enhances osteoblast differentiation and bone formation in human stromal stem cells. Stem Cell Research, 2015, 15, 281-289.	0.7	50
140	Myeloma-Modified Adipocytes Exhibit Metabolic Dysfunction and a Senescence-Associated Secretory Phenotype. Cancer Research, 2021, 81, 634-647.	0.9	50
141	Parameters in Three-Dimensional Osteospheroids of Telomerized Human Mesenchymal (Stromal) Stem Cells Grown on Osteoconductive Scaffolds That PredictIn VivoBone-Forming Potential. Tissue Engineering - Part A, 2010, 16, 2331-2342.	3.1	49
142	Delta-like 1/Fetal Antigen-1 (Dlk1/FA1) Is a Novel Regulator of Chondrogenic Cell Differentiation via Inhibition of the Akt Kinase-dependent Pathway. Journal of Biological Chemistry, 2011, 286, 32140-32149.	3.4	49
143	Involvement of the MEN1 gene locus in familial isolated hyperparathyroidism. European Journal of Endocrinology, 2002, 147, 313-322.	3.7	48
144	Characterization of Cellular and Molecular Heterogeneity of Bone Marrow Stromal Cells. Stem Cells International, 2016, 2016, 1-18.	2.5	48

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145	Actin depolymerization enhances adipogenic differentiation in human stromal stem cells. Stem Cell Research, 2018, 29, 76-83.	0.7	47
146	Decellularized Matrix from Tumorigenic Human Mesenchymal Stem Cells Promotes Neovascularization with Galectin-1 Dependent Endothelial Interaction. PLoS ONE, 2011, 6, e21888.	2.5	46
147	Aging and lineage allocation changes of bone marrow skeletal (stromal) stem cells. Bone, 2019, 123, 265-273.	2.9	46
148	Cytokine production in the bone marrow microenvironment: failure to demonstrate estrogen regulation in early postmenopausal women. Journal of Clinical Endocrinology and Metabolism, 1996, 81, 513-518.	3.6	46
149	No evidence for reduced spontaneous or growth-hormone-stimulated serum levels of insulin-like growth factor (IGF)-I, IGF-II or IGF binding protein 3 in women with spinal osteoporosis. European Journal of Endocrinology, 1994, 131, 150-155.	3.7	45
150	Familial isolated primary hyperparathyroidism. Clinical Endocrinology, 1994, 41, 415-420.	2.4	45
151	Pleiotropic effects of cancer cellsâ€™ secreted factors on human stromal (mesenchymal) stem cells. Stem Cell Research and Therapy, 2013, 4, 114.	5.5	45
152	Quantitative Proteomics Identifies Gemin5, A Scaffolding Protein Involved in Ribonucleoprotein Assembly, as a Novel Partner for Eukaryotic Initiation Factor 4E. Journal of Proteome Research, 2006, 5, 1367-1378.	3.7	44
153	Microcarrier-based Expansion Process for hMSCs with High Vitality and Undifferentiated Characteristics. International Journal of Artificial Organs, 2012, 35, 93-107.	1.4	44
154	hMSC Production in Disposable Bioreactors with Regards to GMP and PAT. Chemie-Ingenieur-Technik, 2013, 85, 67-75.	0.8	44
155	Human mesenchymal stem cell proliferation is regulated by PGE2 through differential activation of cAMP-dependent protein kinase isoforms. Experimental Cell Research, 2008, 314, 1831-1838.	2.6	43
156	Normal osteoclastic and osteoblastic responses to exogenous growth hormone in patients with postmenopausal spinal osteoporosis. Journal of Bone and Mineral Research, 1994, 9, 1365-1370.	2.8	43
157	Evidence of two distinct functionally specialized fibroblast lineages in breast stroma. Breast Cancer Research, 2016, 18, 108.	5.0	42
158	Molecular profiling of ALDH1+ colorectal cancer stem cells reveals preferential activation of MAPK, FAK, and oxidative stress pro-survival signalling pathways. Oncotarget, 2018, 9, 13551-13564.	1.8	42
159	Mechanosensitivity of dental pulp stem cells is related to their osteogenic maturity. European Journal of Oral Sciences, 2010, 118, 29-38.	1.5	41
160	PDX1- and NGN3-mediated in vitro reprogramming of human bone marrow-derived mesenchymal stromal cells into pancreatic endocrine lineages. Cytotherapy, 2011, 13, 802-813.	0.7	41
161	Cell shape and spreading of stromal (mesenchymal) stem cells cultured on fibronectin coated gold and hydroxyapatite surfaces. Colloids and Surfaces B: Biointerfaces, 2011, 84, 18-25.	5.0	41
162	Primary mesenchymal stem cells in human transplanted lungs are CD90/CD105 perivascularly located tissue-resident cells. BMJ Open Respiratory Research, 2014, 1, e000027.	3.0	41

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