Frank Barry

List of Publications by Year
in descending order

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56 papers	6,148 citations	201575 27 h-index	149623 56 g-index
81 all docs	81 docs citations	81 times ranked	7874 citing authors

#	Article	IF	Citations
1	Mesenchymal stem cells: clinical applications and biological characterization. International Journal of Biochemistry and Cell Biology, 2004, 36, 568-584.	1.2	1,455
2	Stem cell therapy in a caprine model of osteoarthritis. Arthritis and Rheumatism, 2003, 48, 3464-3474.	6.7	947
3	Reduced chondrogenic and adipogenic activity of mesenchymal stem cells from patients with advanced osteoarthritis. Arthritis and Rheumatism, 2002, 46, 704-713.	6.7	471
4	Adipose Mesenchymal Stromal Cell-Based Therapy for Severe Osteoarthritis of the Knee: A Phase I Dose-Escalation Trial. Stem Cells Translational Medicine, 2016, 5, 847-856.	1.6	389
5	The Monoclonal Antibody SH-2, Raised against Human Mesenchymal Stem Cells, Recognizes an Epitope on Endoglin (CD105). Biochemical and Biophysical Research Communications, 1999, 265, 134-139.	1.0	361
6	Mesenchymal stem cells in joint disease and repair. Nature Reviews Rheumatology, 2013, 9, 584-594.	3.5	344
7	The SH-3 and SH-4 Antibodies Recognize Distinct Epitopes on CD73 from Human Mesenchymal Stem Cells. Biochemical and Biophysical Research Communications, 2001, 289, 519-524.	1.0	226
8	Immunogenicity of Adult Mesenchymal Stem Cells: Lessons from the Fetal Allograft. Stem Cells and Development, 2005, 14, 252-265.	1.1	179
9	Human mesenchymal stromal cells decrease the severity of acute lung injury induced by E. coli in the rat. Thorax, 2015, 70, 625-635.	2.7	163
10	Mesenchymal Stem Cell Therapy for Osteoarthritis: The Critical Role of the Cell Secretome. Frontiers in Bioengineering and Biotechnology, 2019, 7, 9.	2.0	155
11	Cell-based strategies for IVD repair: clinical progress and translational obstacles. Nature Reviews Rheumatology, 2021, 17, 158-175.	3.5	125
12	Mesenchymal stromal cell therapy: progress in manufacturing and assessments of potency. Cytotherapy, 2019, 21, 289-306.	0.3	107
13	Bone Marrow-Derived Mesenchymal Stem Cells Have Innate Procoagulant Activity and Cause Microvascular Obstruction Following Intracoronary Delivery: Amelioration by Antithrombin Therapy. Stem Cells, 2015, 33, 2726-2737.	1.4	97
14	Endothelial progenitor cells: diagnostic and therapeutic considerations. BioEssays, 2006, 28, 261-270.	1.2	84
15	Chondrogenic Differentiation Increases Antidonor Immune Response to Allogeneic Mesenchymal Stem Cell Transplantation. Molecular Therapy, 2014, 22, 655-667.	3.7	76
16	Growth Differentiation Factor-5 Enhances In Vitro Mesenchymal Stromal Cell Chondrogenesis and Hypertrophy. Stem Cells and Development, 2013, 22, 1968-1976.	1.1	75
17	Rapamycin regulates autophagy and cell adhesion in induced pluripotent stem cells. Stem Cell Research and Therapy, 2016, 7, 166.	2.4	74
18	MSC Therapy for Osteoarthritis: An Unfinished Story. Journal of Orthopaedic Research, 2019, 37, 1229-1235.	1.2	69

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19	Mesenchymal Stem Cells and Osteoarthritis: Remedy or Accomplice?. Human Gene Therapy, 2010, 21, 1239-1250.	1.4	62
20	Induced Pluripotent Stem Cell-Derived Mesenchymal Stromal Cells Are Functionally and Genetically Different From Bone Marrow-Derived Mesenchymal Stromal Cells. Stem Cells, 2019, 37, 754-765.	1.4	60
21	Pullulan: a new cytoadhesive for cell-mediated cartilage repair. Stem Cell Research and Therapy, 2015, 6, 34.	2.4	38
22	Differentiation of Vascular Stem Cells Contributes to Ectopic Calcification of Atherosclerotic Plaque. Stem Cells, 2016, 34, 913-923.	1.4	38
23	A chondromimetic microsphere for in situ spatially controlled chondrogenic differentiation of human mesenchymal stem cells. Journal of Controlled Release, 2014, 179, 42-51.	4.8	34
24	Genetic mismatch affects the immunosuppressive properties of mesenchymal stem cells in vitro and their ability to influence the course of collagen-induced arthritis. Arthritis Research and Therapy, 2012, 14, R167.	1.6	32
25	Enhancing the Mesenchymal Stem Cell Therapeutic Response: Cell Localization and Support for Cartilage Repair. Tissue Engineering - Part B: Reviews, 2013, 19, 58-68.	2.5	32
26	Chondrocytes Derived From Mesenchymal Stromal Cells and Induced Pluripotent Cells of Patients With Familial Osteochondritis Dissecans Exhibit an Endoplasmic Reticulum Stress Response and Defective Matrix Assembly. Stem Cells Translational Medicine, 2016, 5, 1171-1181.	1.6	32
27	Donorâ€derived equine mesenchymal stem cells suppress proliferation of mismatched lymphocytes. Equine Veterinary Journal, 2016, 48, 253-260.	0.9	28
28	Marine Collagen Substrates for 2D and 3D Ovarian Cancer Cell Systems. Frontiers in Bioengineering and Biotechnology, 2019, 7, 343.	2.0	27
29	Comparison of Viral and Nonviral Vectors for Gene Transfer to Human Endothelial Progenitor Cells. Tissue Engineering - Part C: Methods, 2009, 15, 223-231.	1.1	25
30	Umbilical cord-derived CD362+ mesenchymal stromal cells for E. coli pneumonia: impact of dose regimen, passage, cryopreservation, and antibiotic therapy. Stem Cell Research and Therapy, 2020, 11, 116.	2.4	24
31	Culture expanded primary chondrocytes have potent immunomodulatory properties and do not induce an allogeneic immune response. Osteoarthritis and Cartilage, 2016, 24, 521-533.	0.6	23
32	Hypoxia Activates the PTHrP â€“MEF2C Pathway to Attenuate Hypertrophy in Mesenchymal Stem Cell Derived Cartilage. Scientific Reports, 2019, 9, 13274.	1.6	22
33	Basic fibroblast growth factor modifies the hypoxic response of human bone marrow stromal cells by ERK-mediated enhancement of HIF-1Î± activity. Stem Cell Research, 2014, 12, 646-658.	0.3	19
34	Fungi populate deepâ€sea coral gardens as well as marine sediments in the Irish Atlantic Ocean. Environmental Microbiology, 2021, 23, 4168-4184.	1.8	19
35	Cytokine pre-activation of cryopreserved xenogeneic-free human mesenchymal stromal cells enhances resolution and repair following ventilator-induced lung injury potentially via a KGF-dependent mechanism. Intensive Care Medicine Experimental, 2020, 8, 8.	0.9	18
36	Primary cilium-associated genes mediate bone marrow stromal cell response to hypoxia. Stem Cell Research, 2014, 13, 284-299.	0.3	16

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37	Endothelial progenitor cells for the treatment of diabetic vasculopathy: panacea or Pandoraâ€™s box?. Diabetes, Obesity and Metabolism, 2008, 10, 353-366.	2.2	15
38	Radiation-Induced Alterations of Osteogenic and Chondrogenic Differentiation of Human Mesenchymal Stem Cells. PLoS ONE, 2015, 10, e0119334.	1.1	14
39	Optimizing fluorescent protein expression for quantitative fluorescence microscopy and spectroscopy using herpes simplex thymidine kinase promoter sequences. FEBS Open Bio, 2018, 8, 1043-1060.	1.0	14
40	Evaluation of the Early In Vivo Response of a Functionally Graded Macroporous Scaffold in an Osteochondral Defect in a Rabbit Model. Annals of Biomedical Engineering, 2016, 44, 1832-1844.	1.3	12
41	American Society for Bone and Mineral Researchâ€Orthopaedic Research Society Joint Task Force Report on Cellâ€Based Therapies. Journal of Bone and Mineral Research, 2020, 35, 3-17.	3.1	11
42	A Novel High-Throughput Screening Platform Identifies Itaconate Derivatives from Marine Penicillium antarcticum as Inhibitors of Mesenchymal Stem Cell Differentiation. Marine Drugs, 2020, 18, 192.	2.2	11
43	Developing Cell-Specific Antibodies to Endothelial Progenitor Cells Using Avian Immune Phage Display Technology. Journal of Biomolecular Screening, 2011, 16, 744-754.	2.6	10
44	ROCK activity and the GÎ²Î³ complex mediate chemotactic migration of mouse bone marrow-derived stromal cells. Stem Cell Research and Therapy, 2015, 6, 136.	2.4	10
45	Thermoresponsive Substrates Used for the Growth and Controlled Differentiation of Human Mesenchymal Stem Cells. Macromolecular Rapid Communications, 2015, 36, 1897-1901.	2.0	10
46	Combinatorial conditioning of adipose derivedâ€mesenchymal stem cells enhances their neurovascular potential: Implications for intervertebral disc degeneration. JOR Spine, 2019, 2, e1072.	1.5	10
47	Generation of induced pluripotent stem cells (ARO-iPSC1-11) from a patient with autosomal recessive osteopetrosis harboring the c.212 + 1G > T mutation in SNX10 gene. Stem Cell Research, 2017, 24, 51-54.	0.3	9
48	Cellular Chondroplasty: A New Technology for Joint Regeneration. Journal of Knee Surgery, 2015, 28, 045-050.	0.9	8
49	Deep-Sea Coral Garden Invertebrates and Their Associated Fungi Are Genetic Resources for Chronic Disease Drug Discovery. Marine Drugs, 2021, 19, 390.	2.2	8
50	Application of biomaterials to in vitro pluripotent stem cell disease modeling of the skeletal system. Journal of Materials Chemistry B, 2016, 4, 3482-3489.	2.9	7
51	miR-155 Contributes to the Immunoregulatory Function of Human Mesenchymal Stem Cells. Frontiers in Immunology, 2021, 12, 624024.	2.2	7
52	American Society for Bone and Mineral Researchâ€Orthopaedic Research Society Joint Task Force Report on Cellâ€Based Therapies â€“ Secondary Publication. Journal of Orthopaedic Research, 2020, 38, 485-502.	1.2	7
53	Mesenchymal Stem Cell Based Regenerative Treatment of the Knee: From Basic Science to Clinics. Stem Cells International, 2019, 2019, 1-1.	1.2	4
54	GMP-Compliant Production of Autologous Adipose-Derived Stromal Cells in the NANT 001 Closed Automated Bioreactor. Frontiers in Bioengineering and Biotechnology, 2022, 10, 834267.	2.0	3

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55	8 Ossification of atherosclerotic plaque: the role of vessel derived stem cells. Heart, 2011, 97, e7-e7.	1.2	1
56	Chondrocytes derived from pluripotent stem cells. , 2021, , 55-80.		0