

Karen Bieback

List of Publications by Citations

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

106
papers

7,963
citations

35
h-index

89
g-index

118
ext. papers

9,163
ext. citations

4.9
avg, IF

5.96
L-index

#	Paper	IF	Citations
106	Comparative analysis of mesenchymal stem cells from bone marrow, umbilical cord blood, or adipose tissue. <i>Stem Cells</i> , 2006 , 24, 1294-301	5.8	2436
105	Critical parameters for the isolation of mesenchymal stem cells from umbilical cord blood. <i>Stem Cells</i> , 2004 , 22, 625-34	5.8	685
104	Hemagglutinin protein of wild-type measles virus activates toll-like receptor 2 signaling. <i>Journal of Virology</i> , 2002 , 76, 8729-36	6.6	401
103	Human alternatives to fetal bovine serum for the expansion of mesenchymal stromal cells from bone marrow. <i>Stem Cells</i> , 2009 , 27, 2331-41	5.8	362
102	Human AB serum and thrombin-activated platelet-rich plasma are suitable alternatives to fetal calf serum for the expansion of mesenchymal stem cells from adipose tissue. <i>Stem Cells</i> , 2007 , 25, 1270-8	5.8	336
101	Stem cell migration and mechanotransduction on linear stiffness gradient hydrogels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 5647-5652	11.5	257
100	Is the intravascular administration of mesenchymal stem cells safe? Mesenchymal stem cells and intravital microscopy. <i>Microvascular Research</i> , 2009 , 77, 370-6	3.7	235
99	Suppression of antitumor T cell immunity by the oncometabolite (R)-2-hydroxyglutarate. <i>Nature Medicine</i> , 2018 , 24, 1192-1203	50.5	174
98	Intravascular Mesenchymal Stromal/Stem Cell Therapy Product Diversification: Time for New Clinical Guidelines. <i>Trends in Molecular Medicine</i> , 2019 , 25, 149-163	11.5	160
97	Comparing the Immunomodulatory Properties of Bone Marrow, Adipose Tissue, and Birth-Associated Tissue Mesenchymal Stromal Cells. <i>Frontiers in Immunology</i> , 2015 , 6, 560	8.4	157
96	Platelet lysate as replacement for fetal bovine serum in mesenchymal stromal cell cultures. <i>Transfusion Medicine and Hemotherapy</i> , 2013 , 40, 326-35	4.2	140
95	Fetal Bovine Serum (FBS): Past - Present - Future. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2018 , 35, 99-118	4.3	120
94	Mesenchymal stromal cells from umbilical cord blood. <i>Current Stem Cell Research and Therapy</i> , 2007 , 2, 310-23	3.6	113
93	Cell origin of human mesenchymal stem cells determines a different healing performance in cardiac regeneration. <i>PLoS ONE</i> , 2011 , 6, e15652	3.7	95
92	Standardization of Good Manufacturing Practice-compliant production of bone marrow-derived human mesenchymal stromal cells for immunotherapeutic applications. <i>Cytotherapy</i> , 2015 , 17, 128-39	4.8	91
91	Hepatitis A virus-specific immunoglobulin A mediates infection of hepatocytes with hepatitis A virus via the asialoglycoprotein receptor. <i>Journal of Virology</i> , 2000 , 74, 10950-7	6.6	89
90	Mesenchymal stem cells and cardiac repair. <i>Journal of Cellular and Molecular Medicine</i> , 2008 , 12, 1795-810	6.6	86

89	Stem cell proteomes: a profile of human mesenchymal stem cells derived from umbilical cord blood. <i>Electrophoresis</i> , 2005 , 26, 2749-58	3.6	84
88	Mesenchymal stromal cells from human perinatal tissues: From biology to cell therapy. <i>World Journal of Stem Cells</i> , 2010 , 2, 81-92	5.6	83
87	Cryopreserved or Fresh Mesenchymal Stromal Cells: Only a Matter of Taste or Key to Unleash the Full Clinical Potential of MSC Therapy?. <i>Advances in Experimental Medicine and Biology</i> , 2016 , 951, 77-98	3.6	81
86	Comparing mesenchymal stromal cells from different human tissues: bone marrow, adipose tissue and umbilical cord blood. <i>Bio-Medical Materials and Engineering</i> , 2008 , 18, S71-6	1	70
85	Hypoxic Preconditioning Increases Survival and Pro-Angiogenic Capacity of Human Cord Blood Mesenchymal Stromal Cells In Vitro. <i>PLoS ONE</i> , 2015 , 10, e0138477	3.7	69
84	Clinical Protocols for the Isolation and Expansion of Mesenchymal Stromal Cells. <i>Transfusion Medicine and Hemotherapy</i> , 2008 , 35, 286-294	4.2	61
83	A robust potency assay highlights significant donor variation of human mesenchymal stem/progenitor cell immune modulatory capacity and extended radio-resistance. <i>Stem Cell Research and Therapy</i> , 2015 , 6, 236	8.3	60
82	Retinal pigment epithelial phenotype induced in human adipose tissue-derived mesenchymal stromal cells. <i>Cytotherapy</i> , 2009 , 11, 177-88	4.8	59
81	Altered gene expression in human adipose stem cells cultured with fetal bovine serum compared to human supplements. <i>Tissue Engineering - Part A</i> , 2010 , 16, 3467-84	3.9	58
80	Replicative aging and differentiation potential of human adipose tissue-derived mesenchymal stromal cells expanded in pooled human or fetal bovine serum. <i>Cytotherapy</i> , 2012 , 14, 570-83	4.8	57
79	Integrin expression in stem cells from bone marrow and adipose tissue during chondrogenic differentiation. <i>International Journal of Molecular Medicine</i> , 2008 , 21, 271-9	4.4	56
78	Extracellular vesicles secreted by bone marrow- and adipose tissue-derived mesenchymal stromal cells fail to suppress lymphocyte proliferation. <i>Stem Cells and Development</i> , 2015 , 24, 1374-6	4.4	50
77	3D models of the hematopoietic stem cell niche under steady-state and active conditions. <i>Scientific Reports</i> , 2017 , 7, 4625	4.9	49
76	Mesenchymal stromal cells (MSCs): science and f(r)iction. <i>Journal of Molecular Medicine</i> , 2012 , 90, 773-825.5	5.5	46
75	Translating research into clinical scale manufacturing of mesenchymal stromal cells. <i>Stem Cells International</i> , 2011 , 2010, 193519	5	43
74	Evaluation of the effects of different culture media on the myogenic differentiation potential of adipose tissue- or bone marrow-derived human mesenchymal stem cells. <i>International Journal of Molecular Medicine</i> , 2014 , 33, 160-70	4.4	40
73	Paracrine effects of uterine leucocytes on gene expression of human uterine stromal fibroblasts. <i>Molecular Human Reproduction</i> , 2009 , 15, 39-48	4.4	38
72	Mesenchymal stromal/stem cells as potential therapy in diabetic retinopathy. <i>Immunobiology</i> , 2018 , 223, 729-743	3.4	35

71	Estradiol protection against toxic effects of catecholamine on electrical properties in human-induced pluripotent stem cell derived cardiomyocytes. <i>International Journal of Cardiology</i> , 2018 , 254, 195-202	3.2	35
70	In vitro analysis of integrin expression during chondrogenic differentiation of mesenchymal stem cells and chondrocytes upon dedifferentiation in cell culture. <i>International Journal of Molecular Medicine</i> , 2006 , 17, 301-7	4.4	35
69	Lipoaspirate-derived adult mesenchymal stem cells improve functional outcome during intracerebral hemorrhage by proliferation of endogenous progenitor cells stem cells in intracerebral hemorrhages. <i>Neuroscience Letters</i> , 2008 , 443, 174-8	3.3	33
68	In-vitro analysis of the expression of TGFbeta -superfamily-members during chondrogenic differentiation of mesenchymal stem cells and chondrocytes during dedifferentiation in cell culture. <i>Cellular and Molecular Biology Letters</i> , 2005 , 10, 345-62	8.1	33
67	Monitoring human mesenchymal stromal cell differentiation by electrochemical impedance sensing. <i>Cytotherapy</i> , 2011 , 13, 1074-89	4.8	32
66	A Subpopulation of Stromal Cells Controls Cancer Cell Homing to the Bone Marrow. <i>Cancer Research</i> , 2018 , 78, 129-142	10.1	31
65	Quantitation of progenitor cell populations and growth factors after bone marrow aspirate concentration. <i>Journal of Translational Medicine</i> , 2019 , 17, 115	8.5	29
64	Stem/Stromal Cells for Treatment of Kidney Injuries With Focus on Preclinical Models. <i>Frontiers in Medicine</i> , 2018 , 5, 179	4.9	28
63	Human umbilical cord blood mononuclear cells in a double-hit model of bronchopulmonary dysplasia in neonatal mice. <i>PLoS ONE</i> , 2013 , 8, e74740	3.7	28
62	miR-10a-5p and miR-29b-3p as Extracellular Vesicle-Associated Prostate Cancer Detection Markers. <i>Cancers</i> , 2019 , 12,	6.6	28
61	Regulation of gene expression in lymphocytes and antigen-presenting cells by measles virus: consequences for immunomodulation. <i>Journal of Molecular Medicine</i> , 2002 , 80, 73-85	5.5	27
60	Expression of collagen and fiber-associated proteins in human septal cartilage during in vitro dedifferentiation. <i>International Journal of Molecular Medicine</i> , 2004 , 14, 1015-22	4.4	27
59	TGF- β , but not bone morphogenetic proteins, activates Smad1/5 pathway in primary human macrophages and induces expression of proatherogenic genes. <i>Journal of Immunology</i> , 2015 , 194, 709-18	5.3	26
58	ELMO1 protects renal structure and ultrafiltration in kidney development and under diabetic conditions. <i>Scientific Reports</i> , 2016 , 6, 37172	4.9	25
57	The formation of extracellular matrix during chondrogenic differentiation of mesenchymal stem cells correlates with increased levels of xylosyltransferase I. <i>Stem Cells</i> , 2006 , 24, 2252-61	5.8	24
56	Isolation, Culture, and Characterization of Human Umbilical Cord Blood-Derived Mesenchymal Stromal Cells. <i>Methods in Molecular Biology</i> , 2016 , 1416, 245-58	1.4	24
55	Evaluation of GMP-compliant culture media for in vitro expansion of human bone marrow mesenchymal stromal cells. <i>Experimental Hematology</i> , 2016 , 44, 508-18	3.1	23
54	Ion Channel Dysfunctions in Dilated Cardiomyopathy in Limb-Girdle Muscular Dystrophy. <i>Circulation Genomic and Precision Medicine</i> , 2018 , 11, e001893	5.2	22

53	Gaps in the knowledge of human platelet lysate as a cell culture supplement for cell therapy: a joint publication from the AABB and the International Society for Cell & Gene Therapy. <i>Cytotherapy</i> , 2019 , 21, 911-924	4.8	21
52	Recruitment of human cord blood-derived endothelial colony-forming cells to sites of tumor angiogenesis. <i>Cytotherapy</i> , 2013 , 15, 726-39	4.8	21
51	Biased signalling is an essential feature of TLR4 in glioma cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016 , 1863, 3084-3095	4.9	21
50	The influence of polymer scaffolds on cellular behaviour of bone marrow derived human mesenchymal stem cells. <i>Clinical Hemorheology and Microcirculation</i> , 2012 , 52, 357-73	2.5	18
49	Human mesenchymal stromal cells inhibit platelet activation and aggregation involving CD73-converted adenosine. <i>Stem Cell Research and Therapy</i> , 2018 , 9, 184	8.3	17
48	Cultivation in human serum reduces adipose tissue-derived mesenchymal stromal cell adhesion to laminin and endothelium and reduces capillary entrapment. <i>Stem Cells and Development</i> , 2013 , 22, 791-804	4.4	17
47	Expansion of human gamma/delta T cells in vitro is differentially regulated by the measles virus glycoproteins. <i>Journal of General Virology</i> , 2003 , 84, 1179-1188	4.9	17
46	Human chondrocytes differentially express matrix modulators during in vitro expansion for tissue engineering. <i>International Journal of Molecular Medicine</i> , 2005 , 16, 509-15	4.4	17
45	Indoleamine 2,3-dioxygenase mediates inhibition of virus-specific CD8(+) T cell proliferation by human mesenchymal stromal cells. <i>Cytotherapy</i> , 2016 , 18, 621-9	4.8	15
44	Mechanisms of paracrine cardioprotection by cord blood mesenchymal stromal cells. <i>European Journal of Cardio-thoracic Surgery</i> , 2014 , 45, 983-92	3	15
43	Gaps in the knowledge of human platelet lysate as a cell culture supplement for cell therapy: a joint publication from the AABB and the International Society for Cell & Gene Therapy. <i>Transfusion</i> , 2019 , 59, 3448-3460	2.9	14
42	In vitro analysis of integrin expression in stem cells from bone marrow and cord blood during chondrogenic differentiation. <i>Journal of Cellular and Molecular Medicine</i> , 2009 , 13, 1175-84	5.6	14
41	Induction of retinal pigment epithelium properties in ciliary margin progenitor cells. <i>Clinical and Experimental Ophthalmology</i> , 2008 , 36, 358-66	2.4	14
40	Production and quality testing of multipotent mesenchymal stromal cell therapeutics for clinical use. <i>Transfusion</i> , 2019 , 59, 2164-2173	2.9	13
39	Intravitreal injection of mesenchymal stem cells evokes retinal vascular damage in rats. <i>FASEB Journal</i> , 2019 , 33, 14668-14679	0.9	13
38	Potential of electrospun cationic BSA fibers to guide osteogenic MSC differentiation via surface charge and fibrous topography. <i>Scientific Reports</i> , 2019 , 9, 20003	4.9	13
37	Differential modulation of integrin expression in chondrocytes during expansion for tissue engineering. <i>In Vivo</i> , 2005 , 19, 501-7	2.3	13
36	The effect of adipose tissue-derived stem cells in a middle cerebral artery occlusion stroke model depends on their engraftment rate. <i>Stem Cell Research and Therapy</i> , 2017 , 8, 96	8.3	12

35	Adipose-derived mesenchymal stromal cells reverse high glucose-induced reduction of angiogenesis in human retinal microvascular endothelial cells. <i>Cytotherapy</i> , 2020 , 22, 261-275	4.8	11
34	Biomimetic 3D in vitro model of biofilm triggered osteomyelitis for investigating hematopoiesis during bone marrow infections. <i>Acta Biomaterialia</i> , 2018 , 73, 250-262	10.8	11
33	In vitro analysis of matrix proteins and growth factors in dedifferentiating human chondrocytes for tissue-engineered cartilage. <i>Acta Oto-Laryngologica</i> , 2005 , 125, 647-53	1.6	11
32	The Blood Bag Plasticizer Di-2-Ethylhexylphthalate Causes Red Blood Cells to Form Stomatocytes, Possibly by Inducing Lipid Flip-Flop. <i>Transfusion Medicine and Hemotherapy</i> , 2018 , 45, 413-422	4.2	11
31	A single-tube real-time PCR assay for Mycoplasma detection as a routine quality control of cell therapeutics. <i>Transfusion Medicine and Hemotherapy</i> , 2014 , 41, 83-9	4.2	10
30	Soft Hydrogels for Balancing Cell Proliferation and Differentiation. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 4687-4701	5.5	10
29	Pooled thrombin-activated platelet-rich plasma: a substitute for fetal bovine serum in the engineering of osteogenic/vasculogenic grafts. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 1542-1552	4.4	9
28	Cord blood mesenchymal stromal cell-conditioned medium protects endothelial cells via STAT3 signaling. <i>Cellular Physiology and Biochemistry</i> , 2014 , 34, 646-57	3.9	9
27	Recent advances in understanding mesenchymal stromal cells. <i>F1000Research</i> , 2020 , 9,	3.6	9
26	Inter-Laboratory Comparison of Extracellular Vesicle Isolation Based on Ultracentrifugation. <i>Transfusion Medicine and Hemotherapy</i> , 2021 , 48, 48-59	4.2	9
25	Megakaryocytes and platelets express nicotinic acetylcholine receptors but nicotine does not affect megakaryopoiesis or platelet function. <i>Platelets</i> , 2016 , 27, 43-50	3.6	8
24	Flow morphometry to assess the red blood cell storage lesion. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2017 , 91, 874-882	4.6	7
23	Bioreactor for mobilization of mesenchymal stem/stromal cells into scaffolds under mechanical stimulation: Preliminary results. <i>PLoS ONE</i> , 2020 , 15, e0227553	3.7	7
22	Intraoperative radiotherapy for breast cancer treatment efficiently targets the tumor bed preventing breast adipose stromal cell outgrowth. <i>Strahlentherapie Und Onkologie</i> , 2020 , 196, 398-404	4.3	7
21	Modulating endothelial adhesion and migration impacts stem cell therapies efficacy. <i>EBioMedicine</i> , 2020 , 60, 102987	8.8	7
20	Polycomb Protein BMI1 Regulates Osteogenic Differentiation of Human Adipose Tissue-Derived Mesenchymal Stem Cells Downstream of GSK3. <i>Stem Cells and Development</i> , 2016 , 25, 922-33	4.4	6
19	Human Adipose Tissue-Derived Mesenchymal Stromal Cells Inhibit CD4+ T Cell Proliferation and Induce Regulatory T Cells as Well as CD127 Expression on CD4+CD25+ T Cells. <i>Cells</i> , 2021 , 10,	7.9	6
18	Human Adipose Tissue-Derived Stromal Cells Suppress Human, but Not Murine Lymphocyte Proliferation, via Indoleamine 2,3-Dioxygenase Activity. <i>Cells</i> , 2020 , 9,	7.9	5

17	Junctional Adhesion Molecule-C Mediates the Recruitment of Embryonic-Endothelial Progenitor Cells to the Perivascular Niche during Tumor Angiogenesis. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	5
16	Basic Biology of Mesenchymal Stem Cells. <i>Transfusion Medicine and Hemotherapy</i> , 2008 , 35, 151-152	4.2	4
15	Monitoring matrix remodeling in the cellular microenvironment using microrheology for complex cellular systems. <i>Acta Biomaterialia</i> , 2020 , 111, 254-266	10.8	4
14	Pro-angiogenic Activity Discriminates Human Adipose-Derived Stromal Cells From Retinal Pericytes: Considerations for Cell-Based Therapy of Diabetic Retinopathy. <i>Frontiers in Cell and Developmental Biology</i> , 2020 , 8, 387	5.7	3
13	Cultivation and differentiation characteristics of human limbal progenitor cells. <i>Tissue and Cell</i> , 2008 , 40, 83-8	2.7	3
12	Characterization of mesenchymal stem or stromal cells: tissue sources, heterogeneity, and function. <i>Transfusion</i> , 2016 , 56, 2S-5S	2.9	3
11	Alpha 1-adrenoceptor signalling contributes to toxic effects of catecholamine on electrical properties in cardiomyocytes. <i>Europace</i> , 2021 , 23, 1137-1148	3.9	3
10	Lipid ratios as a marker for red blood cell storage quality and as a possible explanation for donor gender differences in storage quality. <i>Vox Sanguinis</i> , 2020 , 115, 655-663	3.1	2
9	Platelet-rich plasma and stromal vascular fraction cells for the engineering of axially vascularized osteogenic grafts. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020 , 14, 1908-1917	4.4	2
8	Wound Fluid from Breast Cancer Patients Undergoing Intraoperative Radiotherapy Exhibits an Altered Cytokine Profile and Impairs Mesenchymal Stromal Cell Function. <i>Cancers</i> , 2021 , 13,	6.6	2
7	The Impact of Harvesting Systems and Donor Characteristics on Viability of Nucleated Cells in Adipose Tissue: A First Step Towards a Manufacturing Process. <i>Journal of Craniofacial Surgery</i> , 2019 , 30, 716-720	1.2	2
6	Hemolysis Pathways during Storage of Erythrocytes and Inter-Donor Variability in Erythrocyte Morphology. <i>Transfusion Medicine and Hemotherapy</i> , 2021 , 48, 39-47	4.2	2
5	Folate receptor mediated genetic modification of human mesenchymal stem cells via folic acid-polyethylenimine-grafted poly(N-3-hydroxypropyl)aspartamide. <i>Clinical Hemorheology and Microcirculation</i> , 2017 , 67, 279-295	2.5	1
4	Dopamine D1/D5 Receptor Signaling Is Involved in Arrhythmogenesis in the Setting of Takotsubo Cardiomyopathy.. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 777463	5.4	1
3	Expression of ADP receptor P2Y, thromboxane A receptor and C-type lectin-like receptor 2 in cord blood-derived megakaryopoiesis. <i>Platelets</i> , 2021 , 32, 618-625	3.6	1
2	Expression of Inflammation-related Intercellular Adhesion Molecules in Cardiomyocytes In Vitro and Modulation by Pro-inflammatory Agents. <i>In Vivo</i> , 2016 , 30, 213-7	2.3	1
1	Effects of ASC Application on Endplate Regeneration Upon Glycerol-Induced Muscle Damage. <i>Frontiers in Molecular Neuroscience</i> , 2020 , 13, 107	6.1	0