

Rainer Saffrich

List of Publications by Year in descending order

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79
papers

5,036
citations

126907

33
h-index

95266

68
g-index

80
all docs

80
docs citations

80
times ranked

7050
citing authors

#	ARTICLE	IF	CITATIONS
1	Replicative Senescence of Mesenchymal Stem Cells: A Continuous and Organized Process. PLoS ONE, 2008, 3, e2213.	2.5	939
2	VEGF expression by mesenchymal stem cells contributes to angiogenesis in pancreatic carcinoma. British Journal of Cancer, 2008, 99, 622-631.	6.4	364
3	Structure and dynamics of human interphase chromosome territories in vivo. Human Genetics, 1998, 102, 241-251.	3.8	315
4	Endosome dynamics regulated by a Rho protein. Nature, 1996, 384, 427-432.	27.8	209
5	Exp5 exports eEF1A via tRNA from nuclei and synergizes with other transport pathways to confine translation to the cytoplasm. EMBO Journal, 2002, 21, 6205-6215.	7.8	203
6	The heterogeneity of human mesenchymal stem cell preparations—Evidence from simultaneous analysis of proteomes and transcriptomes. Experimental Hematology, 2006, 34, 536-548.	0.4	177
7	Trimodal Cancer Treatment: Beneficial Effects of Combined Antiangiogenesis, Radiation, and Chemotherapy. Cancer Research, 2005, 65, 3643-3655.	0.9	171
8	Cdk2-dependent phosphorylation of p27 facilitates its Myc-induced release from cyclin E/cdk2 complexes. Oncogene, 1997, 15, 2561-2576.	5.9	158
9	Cytoplasmic flows localize injected oskar RNA in Drosophila oocytes. Current Biology, 1997, 7, 326-337.	3.9	157
10	Co-culture with mesenchymal stromal cells increases proliferation and maintenance of haematopoietic progenitor cells. Journal of Cellular and Molecular Medicine, 2010, 14, 337-350.	3.6	146
11	Molecular evidence for stem cell function of the slow-dividing fraction among human hematopoietic progenitor cells by genome-wide analysis. Blood, 2004, 104, 675-686.	1.4	126
12	Standardization of Good Manufacturing Practice-compliant production of bone marrow-derived human mesenchymal stromal cells for immunotherapeutic applications. Cytotherapy, 2015, 17, 128-139.	0.7	118
13	Adhesion of hematopoietic progenitor cells to human mesenchymal stem cells as a model for cell-cell interaction. Experimental Hematology, 2007, 35, 314-325.	0.4	116
14	AURELIA, a program for computer-aided analysis of multidimensional NMR spectra. Journal of Biomolecular NMR, 1995, 6, 255-70.	2.8	98
15	The DEXD/H-box RNA helicase RHIII/Gu is a co-factor for c-Jun-activated transcription. EMBO Journal, 2002, 21, 451-460.	7.8	96
16	Complex Functions of AP-1 Transcription Factors in Differentiation and Survival of PC12 Cells. Molecular and Cellular Biology, 2001, 21, 4369-4378.	2.3	87
17	Hematopoietic Progenitor Cells and Cellular Microenvironment: Behavioral and Molecular Changes upon Interaction. Stem Cells, 2005, 23, 1180-1191.	3.2	81
18	Cellular Expression and Proteolytic Processing of Presenilin Proteins Is Developmentally Regulated During Neuronal Differentiation. Journal of Neurochemistry, 1997, 69, 2432-2440.	3.9	79

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19	Human Mesenchymal Stromal Cells Regulate Initial Self-Renewing Divisions of Hematopoietic Progenitor Cells by a β 1-Integrin-Dependent Mechanism. <i>Stem Cells</i> , 2007, 25, 798-806.	3.2	75
20	Radio-resistant mesenchymal stem cells: mechanisms of resistance and potential implications for the clinic. <i>Oncotarget</i> , 2015, 6, 19366-19380.	1.8	72
21	Nuclear Export of the Nonenveloped Parvovirus Virion Is Directed by an Unordered Protein Signal Exposed on the Capsid Surface. <i>Journal of Virology</i> , 2004, 78, 10685-10694.	3.4	71
22	Mesenchymal Stem Cells Retain Their Defining Stem Cell Characteristics After Exposure to Ionizing Radiation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013, 87, 1171-1178.	0.8	70
23	N-Cadherin is expressed on human hematopoietic progenitor cells and mediates interaction with human mesenchymal stromal cells. <i>Stem Cell Research</i> , 2010, 4, 129-139.	0.7	66
24	Cep63 Recruits Cdk1 to the Centrosome: Implications for Regulation of Mitotic Entry, Centrosome Amplification, and Genome Maintenance. <i>Cancer Research</i> , 2011, 71, 2129-2139.	0.9	52
25	MEGAP impedes cell migration via regulating actin and microtubule dynamics and focal complex formation. <i>Experimental Cell Research</i> , 2006, 312, 2379-2393.	2.6	51
26	Effect of Increased Lactate Dehydrogenase A Activity and Aerobic Glycolysis on the Proinflammatory Profile of Autoimmune CD8+ T Cells in Rheumatoid Arthritis. <i>Arthritis and Rheumatology</i> , 2020, 72, 2050-2064.	5.6	48
27	Mesenchymal stem cells are sensitive to bleomycin treatment. <i>Scientific Reports</i> , 2016, 6, 26645.	3.3	46
28	Adhesion of Human Hematopoietic Progenitor Cells to Mesenchymal Stromal Cells Involves CD44. <i>Cells Tissues Organs</i> , 2008, 188, 160-169.	2.3	45
29	Targeting of the 22 kDa integral peroxisomal membrane protein. <i>FEBS Letters</i> , 2000, 471, 23-28.	2.8	43
30	Mesenchymal stem cells are resistant to carbon ion radiotherapy. <i>Oncotarget</i> , 2015, 6, 2076-2087.	1.8	39
31	The Many Facets of SDF-1 α , CXCR4 Agonists and Antagonists on Hematopoietic Progenitor Cells. <i>Journal of Biomedicine and Biotechnology</i> , 2007, 2007, 1-10.	3.0	37
32	Heterogeneity of leukemia stem cell candidates at diagnosis of acute myeloid leukemia and their clinical significance. <i>Experimental Hematology</i> , 2012, 40, 155-165.e1.	0.4	34
33	Microinjection of antibodies to centromere protein CENP-A arrests cells in interphase but does not prevent mitosis. <i>Chromosoma</i> , 1998, 107, 397-405.	2.2	33
34	The Stromal Activity of Mesenchymal Stromal Cells. <i>Transfusion Medicine and Hemotherapy</i> , 2008, 35, 185-193.	1.6	33
35	Mesenchymal stem cells maintain their defining stem cell characteristics after treatment with cisplatin. <i>Scientific Reports</i> , 2016, 6, 20035.	3.3	33
36	Characterization of hematopoietic stem cell subsets from patients with multiple myeloma after mobilization with plerixafor. <i>Cytotherapy</i> , 2011, 13, 459-466.	0.7	32

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37	Human mesenchymal stem cells lose their functional properties after paclitaxel treatment. <i>Scientific Reports</i> , 2018, 8, 312.	3.3	32
38	Dual function of rhoD in vesicular movement and cell motility. <i>European Journal of Cell Biology</i> , 2001, 80, 391-398.	3.6	31
39	The current understanding of mesenchymal stem cells as potential attenuators of chemotherapy-induced toxicity. <i>International Journal of Cancer</i> , 2018, 143, 2628-2639.	5.1	31
40	Microcavity arrays as an in vitro model system of the bone marrow niche for hematopoietic stem cells. <i>Cell and Tissue Research</i> , 2016, 364, 573-584.	2.9	30
41	RhoA Regulates Peroxisome Association to Microtubules and the Actin Cytoskeleton. <i>PLoS ONE</i> , 2010, 5, e13886.	2.5	30
42	Quantifying Adhesion Mechanisms and Dynamics of Human Hematopoietic Stem and Progenitor Cells. <i>Scientific Reports</i> , 2015, 5, 9370.	3.3	29
43	Evaluation of GMP-compliant culture media for in vitro expansion of human bone marrow mesenchymal stromal cells. <i>Experimental Hematology</i> , 2016, 44, 508-518.	0.4	28
44	DNA binding of USF is required for specific E-box dependent gene activation in vivo. <i>Oncogene</i> , 1999, 18, 7200-7211.	5.9	26
45	The Radiation Resistance of Human Multipotent Mesenchymal Stromal Cells Is Independent of Their Tissue of Origin. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 100, 1259-1269.	0.8	26
46	KATP channels in mesenchymal stromal stem cells: Strong up-regulation of Kir6.2 subunits upon osteogenic differentiation. <i>Tissue and Cell</i> , 2011, 43, 331-336.	2.2	22
47	Mesenchymal stem cells exhibit resistance to topoisomerase inhibition. <i>Cancer Letters</i> , 2016, 374, 75-84.	7.2	21
48	Endocytosis of NBD-Sphingolipids in Neurons: Exclusion from Degradative Compartments and Transport to the Golgi Complex. <i>Traffic</i> , 2001, 2, 395-405.	2.7	19
49	Modeling SDF-1-induced mobilization in leukemia cell lines. <i>Experimental Hematology</i> , 2012, 40, 666-674.	0.4	19
50	Functional potentials of human hematopoietic progenitor cells are maintained by mesenchymal stromal cells and not impaired by plerixafor. <i>Cytotherapy</i> , 2014, 16, 111-121.	0.7	19
51	Microinjected glutathione reductase crystals as indicators of the redox status in living cells. <i>FEBS Letters</i> , 1999, 447, 135-138.	2.8	18
52	Mesenchymal stem cells preserve their stem cell traits after exposure to antimetabolite chemotherapy. <i>Stem Cell Research</i> , 2019, 40, 101536.	0.7	18
53	Plerixafor induces the rapid and transient release of stromal cell-derived factor-1 alpha from human mesenchymal stromal cells and influences the migration behavior of human hematopoietic progenitor cells. <i>Cell and Tissue Research</i> , 2014, 355, 315-326.	2.9	14
54	Cisplatin radiosensitizes radioresistant human mesenchymal stem cells. <i>Oncotarget</i> , 2017, 8, 87809-87820.	1.8	14

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55	Mesenchymal stem cells are sensitive to treatment with kinase inhibitors and ionizing radiation. <i>Strahlentherapie Und Onkologie</i> , 2014, 190, 1037-1045.	2.0	13
56	Novel activating mutation of human calcium-sensing receptor in a family with autosomal dominant hypocalcaemia. <i>Molecular and Cellular Endocrinology</i> , 2015, 407, 18-25.	3.2	11
57	Human mesenchymal stem cells are resistant to UV-B irradiation. <i>Scientific Reports</i> , 2019, 9, 20000.	3.3	11
58	1H-nuclear magnetic resonance studies of the neuropeptide head activator. <i>BBA - Proteins and Proteomics</i> , 1989, 997, 144-153.	2.1	10
59	Primitive and committed human hematopoietic progenitor cells interact with primary murine neural cells and are induced to undergo self-renewing cell divisions. <i>Experimental Hematology</i> , 2007, 35, 1858-1871.	0.4	8
60	Cluster analysis and multiplet pattern recognition in two-dimensional NMR spectra. <i>Journal of Magnetic Resonance</i> , 1990, 89, 543-552.	0.5	7
61	Dynamic cellular phenotyping defines specific mobilization mechanisms of human hematopoietic stem and progenitor cells induced by SDF1 α versus synthetic agents. <i>Scientific Reports</i> , 2018, 8, 1841.	3.3	7
62	Multipotent mesenchymal stromal cells are sensitive to thermic stress – potential implications for therapeutic hyperthermia. <i>International Journal of Hyperthermia</i> , 2020, 37, 430-441.	2.5	7
63	Computer-Automated Capillary Microinjection of Macromolecules into Living Cells. , 1994, , 22-29.		2
64	Electroporation of Cells. , 1994, , 37-43.		2
65	N-Cadherin and Cadherin-11 Play Vital Roles in the Cell-Cell Contact between Hematopoietic Progenitor Cells and Mesenchymal Stromal Cells.. <i>Blood</i> , 2007, 110, 1406-1406.	1.4	2
66	Cellular Interaction Between Human Mesenchymal Stem Cells and Hematopoietic Stem Cells in 2D- and 3D-Culture-Systems.. <i>Blood</i> , 2009, 114, 1442-1442.	1.4	2
67	Frequency of Leukemia Stem Cell Candidates Predicts Refractoriness to Conventional Chemotherapy and Adverse Clinical Outcome. <i>Blood</i> , 2010, 116, 2160-2160.	1.4	2
68	Human Hematopoietic Stem Cells and Leukemic Cells Form Cadherin-Catenin Based Junctional Complexes with Mesenchymal Stromal Cells. <i>Blood</i> , 2008, 112, 1367-1367.	1.4	1
69	Interaction of Stem Cells and Their Niche: Behavior and Gene Expression Profiles of CD34 $^{+}$ /CD38 $^{-}$ Cells upon Co-Cultivation with AFT024.. <i>Blood</i> , 2004, 104, 1281-1281.	1.4	1
70	Automated Computer-Assisted Microinjection into cultured somatic cells. , 1998, , 31-46.		1
71	08.12 – Activated human b cells modulate cytokine production and differentiation of multipotent mesenchymal stromal cells. , 2017, , .		0
72	Genomic and Proteomic Signatures of Human Mesenchymal Stem Cells.. <i>Blood</i> , 2005, 106, 2300-2300.	1.4	0

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73	Characterization of Intercellular Junctional Complexes between Human Hematopoietic and Mesenchymal Stem Cells.. Blood, 2006, 108, 1396-1396.	1.4	0
74	Human Hematopoietic and Mesenchymal Stem Cells Are Interconnected by Cadherin-Catenin Based Junctions.. Blood, 2007, 110, 1410-1410.	1.4	0
75	Molecular Determinants and Functional Characteristics of Leukemic Stem Cells and Their Interaction with the Niche.. Blood, 2009, 114, 1427-1427.	1.4	0
76	Novel 3D-Model for the Hematopoietic Stem Cell Niche Using MSC in a KITChip Based Bioreactor. Blood, 2011, 118, 1331-1331.	1.4	0
77	Plerixafor Abrogates the Supportive Function of MSC for Self-Renewal of Human Hematopoietic Stem Cells.. Blood, 2011, 118, 3408-3408.	1.4	0
78	Understanding The Marrow Niche: Advanced 3D Model System Allows Functional Analysis Of The Interaction With Human Hematopoietic Progenitor Cells. Blood, 2013, 122, 2462-2462.	1.4	0
79	Pattern Recognition in Two-Dimensional NMR Spectra of Proteins. , 1991, , 175-190.		0