Rainer Saffrich

List of Publications by Year in Descending Order

78 papers	4,362 citations	30 h-index	66 g-index
80 ext. papers	4,683 ext. citations	4.7 avg, IF	4.59 L-index

#	Paper	IF	Citations
78	Multipotent mesenchymal stromal cells are sensitive to thermic stress - potential implications for therapeutic hyperthermia. *International Journal of Hyperthermia*, **2020**, 37, 430-441	3.7	4
77	Effect of Increased Lactate Dehydrogenase A Activity and Aerobic Glycolysis on the Proinflammatory Profile of Autoimmune CD8+ T Cells in Rheumatoid Arthritis. *Arthritis and Rheumatology*, **2020**, 72, 2050-2064	9.5	19
76	Mesenchymal stem cells preserve their stem cell traits after exposure to antimetabolite chemotherapy. *Stem Cell Research*, **2019**, 40, 101536	1.6	11
75	Human mesenchymal stem cells are resistant to UV-B irradiation. *Scientific Reports*, **2019**, 9, 20000	4.9	6
74	Dynamic cellular phynotyping defines specific mobilization mechanisms of human hematopoietic stem and progenitor cells induced by SDF1 versus synthetic agents. *Scientific Reports*, **2018**, 8, 1841	4.9	4
73	The Radiation Resistance of Human Multipotent Mesenchymal Stromal Cells Is Independent of Their Tissue of Origin. *International Journal of Radiation Oncology Biology Physics*, **2018**, 100, 1259-1269	4	19
72	Human mesenchymal stem cells lose their functional properties after paclitaxel treatment. *Scientific Reports*, **2018**, 8, 312	4.9	21
71	The current understanding of mesenchymal stem cells as potential attenuators of chemotherapy-induced toxicity. *International Journal of Cancer*, **2018**, 143, 2628-2639	7.5	21
70	Cisplatin radiosensitizes radioresistant human mesenchymal stem cells. *Oncotarget*, **2017**, 8, 87809-87820	5.3	10
69	Mesenchymal stem cells maintain their defining stem cell characteristics after treatment with cisplatin. *Scientific Reports*, **2016**, 6, 20035	4.9	27
68	Evaluation of GMP-compliant culture media for in vitro expansion of human bone marrow mesenchymal stromal cells. *Experimental Hematology*, **2016**, 44, 508-18	3.1	23
67	Microcavity arrays as an in vitro model system of the bone marrow niche for hematopoietic stem cells. *Cell and Tissue Research*, **2016**, 364, 573-584	4.2	21
66	Mesenchymal stem cells exhibit resistance to topoisomerase inhibition. *Cancer Letters*, **2016**, 374, 75-84	9.9	16
65	Mesenchymal stem cells are sensitive to bleomycin treatment. *Scientific Reports*, **2016**, 6, 26645	4.9	27
64	Novel activating mutation of human calcium-sensing receptor in a family with autosomal dominant hypocalcaemia. *Molecular and Cellular Endocrinology*, **2015**, 407, 18-25	4.4	8
63	Standardization of Good Manufacturing Practice-compliant production of bone marrow-derived human mesenchymal stromal cells for immunotherapeutic applications. *Cytotherapy*, **2015**, 17, 128-39	4.8	91
62	Mesenchymal stem cells are resistant to carbon ion radiotherapy. *Oncotarget*, **2015**, 6, 2076-87	3.3	36

61	Radio-resistant mesenchymal stem cells: mechanisms of resistance and potential implications for the clinic. *Oncotarget*, **2015**, 6, 19366-80	3.3	60
60	Quantifying adhesion mechanisms and dynamics of human hematopoietic stem and progenitor cells. *Scientific Reports*, **2015**, 5, 9370	4.9	24
59	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. *Cell and Tissue Research*, **2014**, 355, 315-26	4.2	11
58	Mesenchymal stem cells are sensitive to treatment with kinase inhibitors and ionizing radiation. *Strahlentherapie Und Onkologie*, **2014**, 190, 1037-45	4.3	11
57	Functional potentials of human hematopoietic progenitor cells are maintained by mesenchymal stromal cells and not impaired by plerixafor. *Cytotherapy*, **2014**, 16, 111-21	4.8	16
56	Mesenchymal stem cells retain their defining stem cell characteristics after exposure to ionizing radiation. *International Journal of Radiation Oncology Biology Physics*, **2013**, 87, 1171-8	4	59
55	Understanding The Marrow Niche: Advanced 3D Model System Allows Functional Analysis Of The Interaction With Human Hematopoietic Progenitor Cells. *Blood*, **2013**, 122, 2462-2462	2.2	
54	Modeling SDF-1-induced mobilization in leukemia cell lines. *Experimental Hematology*, **2012**, 40, 666-74	3.1	17
53	Heterogeneity of leukemia stem cell candidates at diagnosis of acute myeloid leukemia and their clinical significance. *Experimental Hematology*, **2012**, 40, 155-65.e1	3.1	32
52	Characterization of hematopoietic stem cell subsets from patients with multiple myeloma after mobilization with plerixafor. *Cytotherapy*, **2011**, 13, 459-66	4.8	27
51	KATP channels in mesenchymal stromal stem cells: strong up-regulation of Kir6.2 subunits upon osteogenic differentiation. *Tissue and Cell*, **2011**, 43, 331-6	2.7	17
50	Cep63 recruits Cdk1 to the centrosome: implications for regulation of mitotic entry, centrosome amplification, and genome maintenance. *Cancer Research*, **2011**, 71, 2129-39	10.1	44
49	Novel 3D-Model for the Hematopoietic Stem Cell Niche Using MSC in a KITChip Based Bioreactor. *Blood*, **2011**, 118, 1331-1331	2.2	
48	Plerixafor Abrogates the Supportive Function of MSC for Self-Renewal of Human Hematopoietic Stem Cells,. *Blood*, **2011**, 118, 3408-3408	2.2	
47	N-cadherin is expressed on human hematopoietic progenitor cells and mediates interaction with human mesenchymal stromal cells. *Stem Cell Research*, **2010**, 4, 129-39	1.6	58
46	Co-culture with mesenchymal stromal cells increases proliferation and maintenance of haematopoietic progenitor cells. *Journal of Cellular and Molecular Medicine*, **2010**, 14, 337-50	5.6	119
45	RhoA regulates peroxisome association to microtubules and the actin cytoskeleton. *PLoS ONE*, **2010**, 5, e13886	3.7	28
44	Frequency of Leukemia Stem Cell Candidates Predicts Refractoriness to Conventional Chemotherapy and Adverse Clinical Outcome. *Blood*, **2010**, 116, 2160-2160	2.2	

43	Cellular Interaction Between Human Mesenchymal Stem Cells and Hematopoietic Stem Cells in 2D- and 3D-Culture-Systems.. *Blood*, **2009**, 114, 1442-1442	2.2	1
42	Molecular Determinants and Functional Characteristics of Leukemic Stem Cells and Their Interaction with the Niche.. *Blood*, **2009**, 114, 1427-1427	2.2	
41	VEGF expression by mesenchymal stem cells contributes to angiogenesis in pancreatic carcinoma. *British Journal of Cancer*, **2008**, 99, 622-31	8.7	300
40	The Stromal Activity of Mesenchymal Stromal Cells. *Transfusion Medicine and Hemotherapy*, **2008**, 35, 185-193	4.2	30
39	Adhesion of human hematopoietic progenitor cells to mesenchymal stromal cells involves CD44. *Cells Tissues Organs*, **2008**, 188, 160-9	2.1	44
38	Replicative senescence of mesenchymal stem cells: a continuous and organized process. *PLoS ONE*, **2008**, 3, e2213	3.7	795
37	Human Hematopoietic Stem Cells and Leukemic Cells Form Cadherin-Catenin Based Junctional Complexes with Mesenchymal Stromal Cells. *Blood*, **2008**, 112, 1367-1367	2.2	1
36	The many facets of SDF-1alpha, CXCR4 agonists and antagonists on hematopoietic progenitor cells. *Journal of Biomedicine and Biotechnology*, **2007**, 2007, 26065		30
35	Adhesion of hematopoietic progenitor cells to human mesenchymal stem cells as a model for cell-cell interaction. *Experimental Hematology*, **2007**, 35, 314-25	3.1	108
34	Primitive and committed human hematopoietic progenitor cells interact with primary murine neural cells and are induced to undergo self-renewing cell divisions. *Experimental Hematology*, **2007**, 35, 1858-71	3.1	8
33	Human mesenchymal stromal cells regulate initial self-renewing divisions of hematopoietic progenitor cells by a beta1-integrin-dependent mechanism. *Stem Cells*, **2007**, 25, 798-806	5.8	70
32	N-Cadherin and Cadherin-11 Play Vital Roles in the Cell-Cell Contact between Hematopoietic Progenitor Cells and Mesenchymal Stromal Cells.. *Blood*, **2007**, 110, 1406-1406	2.2	
31	Human Hematopoietic and Mesenchymal Stem Cells Are Interconnected by Cadherin-Catenin Based Junctions.. *Blood*, **2007**, 110, 1410-1410	2.2	
30	The heterogeneity of human mesenchymal stem cell preparations--evidence from simultaneous analysis of proteomes and transcriptomes. *Experimental Hematology*, **2006**, 34, 536-48	3.1	157
29	MEGAP impedes cell migration via regulating actin and microtubule dynamics and focal complex formation. *Experimental Cell Research*, **2006**, 312, 2379-93	4.2	47
28	Characterization of Intercellular Junctional Complexes between Human Hematopoietic and Mesenchymal Stem Cells.. *Blood*, **2006**, 108, 1396-1396	2.2	
27	Hematopoietic progenitor cells and cellular microenvironment: behavioral and molecular changes upon interaction. *Stem Cells*, **2005**, 23, 1180-91	5.8	75
26	Trimodal cancer treatment: beneficial effects of combined antiangiogenesis, radiation, and chemotherapy. *Cancer Research*, **2005**, 65, 3643-55	10.1	150

25	Genomic and Proteomic Signatures of Human Mesenchymal Stem Cells.. *Blood*, **2005**, 106, 2300-2300	2.2	
24	Nuclear export of the nonenveloped parvovirus virion is directed by an unordered protein signal exposed on the capsid surface. *Journal of Virology*, **2004**, 78, 10685-94	6.6	63
23	Molecular evidence for stem cell function of the slow-dividing fraction among human hematopoietic progenitor cells by genome-wide analysis. *Blood*, **2004**, 104, 675-86	2.2	120
22	Interaction of Stem Cells and Their Niche: Behavior and Gene Expression Profiles of CD34+/CD38 Cells upon Co-Cultivation with AFT024.. *Blood*, **2004**, 104, 1281-1281	2.2	
21	The DEXD/H-box RNA helicase RHII/Gu is a co-factor for c-Jun-activated transcription. *EMBO Journal*, **2002**, 21, 451-60	13	87
20	Exp5 exports eEF1A via tRNA from nuclei and synergizes with other transport pathways to confine translation to the cytoplasm. *EMBO Journal*, **2002**, 21, 6205-15	13	193
19	Endocytosis of NBD-sphingolipids in neurons: exclusion from degradative compartments and transport to the Golgi complex. *Traffic*, **2001**, 2, 395-405	5.7	18
18	Dual function of rhoD in vesicular movement and cell motility. *European Journal of Cell Biology*, **2001**, 80, 391-8	6.1	28
17	Complex functions of AP-1 transcription factors in differentiation and survival of PC12 cells. *Molecular and Cellular Biology*, **2001**, 21, 4369-78	4.8	83
16	Targeting of the 22 kDa integral peroxisomal membrane protein. *FEBS Letters*, **2000**, 471, 23-8	3.8	38
15	DNA binding of USF is required for specific E-box dependent gene activation in vivo. *Oncogene*, **1999**, 18, 7200-11	9.2	24
14	Microinjected glutathione reductase crystals as indicators of the redox status in living cells. *FEBS Letters*, **1999**, 447, 135-8	3.8	17
13	Microinjection of antibodies to centromere protein CENP-A arrests cells in interphase but does not prevent mitosis. *Chromosoma*, **1998**, 107, 397-405	2.8	30
12	Structure and dynamics of human interphase chromosome territories in vivo. *Human Genetics*, **1998** , 102, 241-51	6.3	283
11	Automated Computer-Assisted Microinjection into cultured somatic cells **1998**, 31-46		0
10	Cdk2-dependent phosphorylation of p27 facilitates its Myc-induced release from cyclin E/cdk2 complexes. *Oncogene*, **1997**, 15, 2561-76	9.2	149
9	Cytoplasmic flows localize injected oskar RNA in Drosophila oocytes. *Current Biology*, **1997**, 7, 326-37	6.3	145
8	Cellular expression and proteolytic processing of presenilin proteins is developmentally regulated during neuronal differentiation. *Journal of Neurochemistry*, **1997**, 69, 2432-40	6	68

7	Endosome dynamics regulated by a Rho protein. *Nature*, **1996**, 384, 427-32	50.4	201
6	AURELIA, a program for computer-aided analysis of multidimensional NMR spectra. *Journal of Biomolecular NMR*, **1995**, 6, 255-70	3	96
5	Computer-Automated Capillary Microinjection of Macromolecules into Living Cells **1994**, 22-29		2
4	Electroporation of Cells **1994**, 37-43		2
3	Pattern Recognition in Two-Dimensional NMR Spectra of Proteins **1991**, 175-190		
2	Cluster analysis and multiplet pattern recognition in two-dimensional NMR spectra. *Journal of Magnetic Resonance*, **1990**, 89, 543-552		1
1	1H-nuclear magnetic resonance studies of the neuropeptide head activator. *BBA - Proteins and Proteomics*, **1989**, 997, 144-53		10