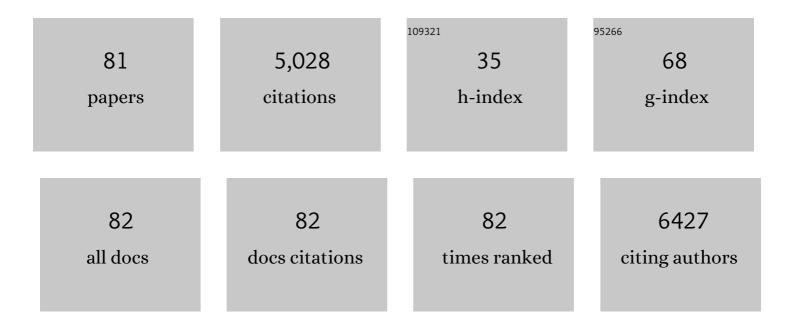
Heinrich Sauer

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Reactive Oxygen Species as Intracellular Messengers During Cell Growth and Differentiation. Cellular Physiology and Biochemistry, 2001, 11, 173-186.	1.6	980
2	Regulation of the multidrug resistance transporter Pâ€glycoprotein in multicellular tumor spheroids by hypoxiaâ€inducible factorâ€1 and reactive oxygen species. FASEB Journal, 2003, 17, 1-22.	0.5	243
3	Embryonic stem cells utilize reactive oxygen species as transducers of mechanical strainâ€induced cardiovascular differentiation. FASEB Journal, 2006, 20, 1182-1184.	0.5	243
4	Role of reactive oxygen species and phosphatidylinositol 3-kinase in cardiomyocyte differentiation of embryonic stem cells. FEBS Letters, 2000, 476, 218-223.	2.8	220
5	Cardiac specific differentiation of mouse embryonic stem cells. Cardiovascular Research, 2003, 58, 278-291.	3.8	201
6	Effects of electrical fields on cardiomyocyte differentiation of embryonic stem cells. , 1999, 75, 710-723.		191
7	Stimulation of ES-cell-derived cardiomyogenesis and neonatal cardiac cell proliferation by reactive oxygen species and NADPH oxidase. Journal of Cell Science, 2007, 120, 885-894.	2.0	158
8	Tumor-induced angiogenesis studied in confrontation cultures of multicellular tumor spheroids and embryoid bodies grown from pluripotent embryonic stem cells. FASEB Journal, 2001, 15, 995-1005.	0.5	142
9	Tumorâ€induced angiogenesis studied in confrontation cultures of multicellular tumor spheroids and embryoid bodies grown from pluripotent embryonic stem cells. FASEB Journal, 2001, 15, 995-1005.	0.5	126
10	Reactive Oxygen Species as Signaling Molecules in Cardiovascular Differentiation of Embryonic Stem Cells and Tumor-Induced Angiogenesis. Antioxidants and Redox Signaling, 2005, 7, 1423-1434.	5.4	124
11	Thalidomide Inhibits Angiogenesis in Embryoid Bodies by the Generation of Hydroxyl Radicals. American Journal of Pathology, 2000, 156, 151-158.	3.8	108
12	Down-regulation of Intrinsic P-glycoprotein Expression in Multicellular Prostate Tumor Spheroids by Reactive Oxygen Species. Journal of Biological Chemistry, 2001, 276, 17420-17428.	3.4	98
13	Identification and characterization of embryonic stem cellâ€derived pacemaker and atrial cardiomyocytes. FASEB Journal, 2005, 19, 1-25.	0.5	98
14	Redox control of angiogenic factors and CD31-positive vessel-like structures in mouse embryonic stem cells after direct current electrical field stimulation. Experimental Cell Research, 2005, 304, 380-390.	2.6	86
15	Platelet-derived growth factor BB stimulates vasculogenesis of embryonic stem cell-derived endothelial cells by calcium-mediated generation of reactive oxygen species. Cardiovascular Research, 2009, 81, 159-168.	3.8	83
16	The Antimalaria Agent Artemisinin Exerts Antiangiogenic Effects in Mouse Embryonic Stem Cell-Derived Embryoid Bodies. Laboratory Investigation, 2003, 83, 1647-1655.	3.7	80
17	Inhibition of Tumor-Induced Angiogenesis and Matrix-Metalloproteinase Expression in Confrontation Cultures of Embryoid Bodies and Tumor Spheroids by Plant Ingredients Used in Traditional Chinese Medicine. Laboratory Investigation, 2003, 83, 87-98.	3.7	79
18	Involvement of reactive oxygen species in cardiotrophin-1-induced proliferation of cardiomyocytes differentiated from murine embryonic stem cells. Experimental Cell Research, 2004, 294, 313-324.	2.6	78

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19	Reactive oxygen species-linked regulation of the multidrug resistance transporter P-glycoprotein in Nox-1 overexpressing prostate tumor spheroids. FEBS Letters, 2005, 579, 4541-4549.	2.8	71
20	Regulation of cardiotrophin-1 expression in mouse embryonic stem cells by HIF-1α and intracellular reactive oxygen species. Journal of Cell Science, 2006, 119, 1043-1052.	2.0	71
21	Regulation of the multidrug resistance transporter P-glycoprotein in multicellular prostate tumor spheroids by hyperthermia and reactive oxygen species. International Journal of Cancer, 2005, 113, 229-240.	5.1	70
22	Development of an intrinsic P-glycoprotein-mediated doxorubicin resistance in quiescent cell layers of large, multicellular prostate tumor spheroids. , 1998, 75, 855-863.		68
23	Peroxisome Proliferator-Activated Receptor α Agonists Enhance Cardiomyogenesis of Mouse ES Cells by Utilization of a Reactive Oxygen Species-Dependent Mechanism. Stem Cells, 2008, 26, 64-71.	3.2	66
24	VEGF-mediated PI3K class IA and PKC signaling in cardiomyogenesis and vasculogenesis of mouse embryonic stem cells. Journal of Cell Science, 2011, 124, 1819-1830.	2.0	64
25	Anticonvulsant valproic acid inhibits cardiomyocyte differentiation of embryonic stem cells by increasing intracellular levels of reactive oxygen species. Birth Defects Research Part A: Clinical and Molecular Teratology, 2003, 67, 174-180.	1.6	60
26	Activation of p90RSK and growth stimulation of multicellular tumor spheroids are dependent on reactive oxygen species generated after purinergic receptor stimulation by ATP. FASEB Journal, 2001, 15, 2539-2541.	0.5	57
27	Hypoxia, Leptin, and Vascular Endothelial Growth Factor Stimulate Vascular Endothelial Cell Differentiation of Human Adipose Tissue-Derived Stem Cells. Stem Cells and Development, 2014, 23, 333-351.	2.1	56
28	The acute phase protein α2-macroglobulin induces rat ventricular cardiomyocyte hypertrophy via ERK1,2 and PI3-kinase/Akt pathwaysâ~†. Cardiovascular Research, 2007, 75, 118-128.	3.8	55
29	Regulation of intrinsic prion protein by growth factors and tnf-î±: the role of intracellular reactive oxygen species. Free Radical Biology and Medicine, 2003, 35, 586-594.	2.9	54
30	Redox regulation of P-glycoprotein-mediated multidrug resistance in multicellular prostate tumor spheroids. International Journal of Cancer, 2000, 85, 267-274.	5.1	53
31	Doxorubicin distribution in multicellular prostate cancer spheroids evaluated by confocal laser scanning microscopy and the ?optical probe technique?. , 1998, 31, 137-145.		51
32	Redox regulation of P-glycoprotein-mediated multidrug resistance in multicellular prostate tumor spheroids. International Journal of Cancer, 2000, 85, 267.	5.1	49
33	Glycolytic pyruvate regulates Pâ€Glycoprotein expression in multicellular tumor spheroids via modulation of the intracellular redox state. Journal of Cellular Biochemistry, 2010, 109, 434-446.	2.6	48
34	Direct current electrical fields induce apoptosis in oral mucosa cancer cells by NADPH oxidaseâ€derived reactive oxygen species. Bioelectromagnetics, 2008, 29, 47-54.	1.6	44
35	Static magnetic fields increase cardiomyocyte differentiation of Flk-1+ cells derived from mouse embryonic stem cells via Ca2+ influx and ROS production. International Journal of Cardiology, 2013, 167, 798-808.	1.7	43
36	Reconstruction of critical-size mandibular defects in immunoincompetent rats with human adipose-derived stromal cells. Journal of Cranio-Maxillo-Facial Surgery, 2013, 41, 496-503.	1.7	42

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37	Spontaneous Calcium Oscillations in Embryonic Stem Cell-Derived Primitive Endodermal Cells. Experimental Cell Research, 1998, 238, 13-22.	2.6	38
38	β-adrenergic receptor antagonists inhibit vasculogenesis of embryonic stem cells by downregulation of nitric oxide generation and interference with VEGF signalling. Cell and Tissue Research, 2014, 358, 443-452.	2.9	38
39	The Multifunctional Contribution of FGF Signaling to Cardiac Development, Homeostasis, Disease and Repair. Frontiers in Cell and Developmental Biology, 2021, 9, 672935.	3.7	38
40	Static Electromagnetic Fields Induce Vasculogenesis and Chondro-Osteogenesis of Mouse Embryonic Stem Cells by Reactive Oxygen Species-Mediated Up-Regulation of Vascular Endothelial Growth Factor. Stem Cells and Development, 2010, 19, 731-743.	2.1	35
41	NADPH oxidase and eNOS control cardiomyogenesis in mouse embryonic stem cells on ascorbic acid treatment. Free Radical Biology and Medicine, 2011, 51, 432-443.	2.9	35
42	Intracellular redox state: towards quantitative description. European Biophysics Journal, 2005, 34, 937-942.	2.2	33
43	Modulation of intrinsic P-glycoprotein expression in multicellular prostate tumor spheroids by cell cycle inhibitors. Biochimica Et Biophysica Acta - Molecular Cell Research, 2002, 1589, 49-62.	4.1	31
44	Activation of AMP-kinase by AICAR induces apoptosis of DU-145 prostate cancer cells through generation of reactive oxygen species and activation of c-Jun N-terminal kinase. International Journal of Oncology, 2012, 40, 501-8.	3.3	28
45	Mechanical strain stimulates vasculogenesis and expression of angiogenesis guidance molecules of embryonic stem cells through elevation of intracellular calcium, reactive oxygen species and nitric oxide generation. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 3096-3105.	4.1	28
46	NOS inhibition synchronizes calcium oscillations in human adipose tissueâ€derived mesenchymal stem cells by increasing gapâ€junctional coupling. Journal of Cellular Physiology, 2011, 226, 1642-1650.	4.1	23
47	TRPC3 regulates the automaticity of embryonic stem cell-derived cardiomyocytes. International Journal of Cardiology, 2016, 203, 169-181.	1.7	22
48	α ₂ -Macroglobulin Enhances Vasculogenesis/Angiogenesis of Mouse Embryonic Stem Cells by Stimulation of Nitric Oxide Generation and Induction of Fibroblast Growth Factor-2 Expression. Stem Cells and Development, 2013, 22, 1443-1454.	2.1	21
49	The DC electrical-field-induced Ca(2+) response and growth stimulation of multicellular tumor spheroids are mediated by ATP release and purinergic receptor stimulation. Journal of Cell Science, 2002, 115, 3265-73.	2.0	21
50	Redox Buffer Capacity of the Cell: Theoretical and Experimental Approach. Cell Biochemistry and Biophysics, 2010, 58, 75-83.	1.8	20
51	Control of leucocyte differentiation from embryonic stem cells upon vasculogenesis and confrontation with tumour tissue. Journal of Cellular and Molecular Medicine, 2010, 14, 303-312.	3.6	18
52	Embryonic Stem Cells as a Model for the Physiological Analysis of the Cardiovascular System. , 2002, 185, 169-187.		16
53	Hypotonic Ca2+ signaling and volume regulation in proliferating and quiescent cells from multicellular spheroids. , 1998, 175, 129-140.		15
54	Regulation of multiple transcription factors by reactive oxygen species and effects of pro-inflammatory cytokines released during myocardial infarction on cardiac differentiation of embryonic stem cells. International Journal of Cardiology, 2013, 168, 3458-3472.	1.7	15

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55	Stimulation of vasculogenesis and leukopoiesis of embryonic stem cells by extracellular transfer RNA and ribosomal RNA. Free Radical Biology and Medicine, 2015, 89, 1203-1217.	2.9	15
56	Redox Stimulation of Cardiomyogenesis <i>Versus</i> Inhibition of Vasculogenesis Upon Treatment of Mouse Embryonic Stem Cells with Thalidomide. Antioxidants and Redox Signaling, 2010, 13, 1813-1827.	5.4	14
57	Reactive Oxygen Species and Upregulation of NADPH Oxidases in Mechanotransduction of Embryonic Stem Cells. Methods in Molecular Biology, 2008, 477, 397-418.	0.9	13
58	Transmitting biological information using oxygen: Reactive oxygen species as signalling molecules in cardiovascular pathophysiology. Cardiovascular Research, 2006, 71, 191-194.	3.8	12
59	Differential effects of high and low strength magnetic fields on mouse embryonic development and vasculogenesis of embryonic stem cells. Reproductive Toxicology, 2016, 65, 46-58.	2.9	12
60	Involvement of phosphoinositide 3-kinase class IA (PI3K 110α) and NADPH oxidase 1 (NOX1) in regulation of vascular differentiation induced by vascular endothelial growth factor (VEGF) in mouse embryonic stem cells. Cell and Tissue Research, 2016, 364, 159-174.	2.9	12
61	Stimulation of Cardiomyogenesis of Embryonic Stem Cells by Nitric Oxide Downstream of AMP-Activated Protein Kinase and mTOR Signaling Pathways. Stem Cells and Development, 2011, 20, 2163-2175.	2.1	11
62	Stimulation of cardiomyogenesis from mouse embryonic stem cells by nuclear translocation of cardiotrophin-1. International Journal of Cardiology, 2015, 193, 23-33.	1.7	10
63	Omegaâ€3 and Omegaâ€6 polyunsaturated fatty acids stimulate vascular differentiation of mouse embryonic stem cells. Journal of Cellular Physiology, 2020, 235, 7094-7106.	4.1	10
64	Impact of Arachidonic Acid and the Leukotriene Signaling Pathway on Vasculogenesis of Mouse Embryonic Stem Cells. Cells Tissues Organs, 2016, 201, 319-332.	2.3	9
65	Silibinin from Silybum marianum Stimulates Embryonic Stem Cell Vascular Differentiation via the STAT3/PI3-K/AKT Axis and Nitric Oxide. Planta Medica, 2018, 84, 768-778.	1.3	9
66	The nicotinamide phosphoribosyltransferase antagonist FK866 inhibits growth of prostate tumour spheroids and increases doxorubicin retention without changes in drug transporter and cancer stem cell protein expression. Clinical and Experimental Pharmacology and Physiology, 2021, 48, 422-434.	1.9	9
67	Cardiomyogenesis of embryonic stem cells upon purinergic receptor activation by ADP and ATP. Purinergic Signalling, 2015, 11, 491-506.	2.2	8
68	Differential expression of islet glutaredoxin 1 and 5 with high reactive oxygen species production in a mouse model of diabesity. PLoS ONE, 2017, 12, e0176267.	2.5	8
69	Regulation of somatostatin expression by vitamin D3 and valproic acid in human adipose-derived mesenchymal stem cells. Stem Cell Research and Therapy, 2019, 10, 240.	5.5	7
70	Antibacterial Capacity of Differentiated Murine Embryonic Stem Cells During Defined In Vitro Inflammatory Conditions. Stem Cells and Development, 2013, 22, 1977-1990.	2.1	6
71	Induction of Stem-Cell-Derived Cardiomyogenesis by Fibroblast Growth Factor 10 (FGF10) and Its Interplay with Cardiotrophin-1 (CT-1). Biology, 2022, 11, 534.	2.8	5
72	Embryonic Stem Cells for Tissue Biocompatibility, Angiogenesis, and Inflammation Testing. Cells Tissues Organs, 2017, 204, 1-12.	2.3	3

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73	Extracellular and Intracellular Angiotensin II Regulate the Automaticity of Developing Cardiomyocytes via Different Signaling Pathways. Frontiers in Molecular Biosciences, 2021, 8, 699827.	3.5	3
74	Loss and Recovery of Glutaredoxin 5 Is Inducible by Diet in a Murine Model of Diabesity and Mediated by Free Fatty Acids In Vitro. Antioxidants, 2022, 11, 788.	5.1	3
75	Stem Cell Spheroid-Based Sprout Assay in Three-Dimensional Fibrin Scaffold: A Novel In Vitro Model for the Study of Angiogenesis. Methods in Molecular Biology, 2016, 1430, 179-189.	0.9	2
76	The milk thistle (<i><scp>Silybum marianum</scp>)</i> compound Silibinin stimulates leukopoiesis from mouse embryonic stem cells. Phytotherapy Research, 2019, 33, 452-460.	5.8	2
77	Stem/Progenitor Cells in Cardiopulmonary Health, Disease, and Treatment. Stem Cells International, 2019, 2019, 1-4.	2.5	2
78	The Milk Thistle (<i>Silybum marianum</i>) Compound Silibinin Inhibits Cardiomyogenesis of Embryonic Stem Cells by Interfering with Angiotensin II Signaling. Stem Cells International, 2018, 2018, 1-10.	2.5	1
79	Mitochondrial G8292A and C8794T mutations in patients with Niemann‑Pick disease type C. Biomedical Reports, 2018, 9, 65-73.	2.0	1
80	Zoxazolamine-induced stimulation of cardiomyogenesis from embryonic stem cells is mediated by Ca2+, nitric oxide and ATP release. Biochimica Et Biophysica Acta - Molecular Cell Research, 2020, 1867, 118796.	4.1	1
81	Reactive Oxygen and Nitrogen Species in Cardiovascular Differentiation of Stem Cells. , 2010, , 61-85.		1