

Heinz Redl

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

3,673
citations

147801

31
h-index

168389

53
g-index

58
all docs

58
docs citations

58
times ranked

5399
citing authors

#	ARTICLE	IF	CITATIONS
1	Concise Review: Isolation and Characterization of Cells from Human Term Placenta: Outcome of the First International Workshop on Placenta Derived Stem Cells. <i>Stem Cells</i> , 2008, 26, 300-311.	3.2	921
2	Dose-Dependent Immunomodulatory Effect of Human Stem Cells from Amniotic Membrane: A Comparison with Human Mesenchymal Stem Cells from Adipose Tissue. <i>Tissue Engineering</i> , 2007, 13, 1173-1183.	4.6	367
3	Circulating microRNA Signatures in Patients With Idiopathic and Postmenopausal Osteoporosis and Fragility Fractures. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016, 101, 4125-4134.	3.6	170
4	Secreted microvesicular miR-31 inhibits osteogenic differentiation of mesenchymal stem cells. <i>Aging Cell</i> , 2016, 15, 744-754.	6.7	160
5	Human Mesenchymal Stem Cells from Adipose Tissue and Amnion Influence T-Cells Depending on Stimulation Method and Presence of Other Immune Cells. <i>Stem Cells and Development</i> , 2011, 20, 2115-2126.	2.1	146
6	Light therapy by blue LED improves wound healing in an excision model in rats. <i>Injury</i> , 2011, 42, 917-921.	1.7	133
7	Mechanisms of vasculogenesis in 3D fibrin matrices mediated by the interaction of adipose-derived stem cells and endothelial cells. <i>Angiogenesis</i> , 2014, 17, 921-933.	7.2	114
8	Adipose-derived stem cells induce vascular tube formation of outgrowth endothelial cells in a fibrin matrix. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015, 9, 127-136.	2.7	86
9	Low level light therapy by LED of different wavelength induces angiogenesis and improves ischemic wound healing. <i>Lasers in Surgery and Medicine</i> , 2014, 46, 773-780.	2.1	81
10	Vesicular Galectin-3 levels decrease with donor age and contribute to the reduced osteo-inductive potential of human plasma derived extracellular vesicles. <i>Aging</i> , 2016, 8, 16-30.	3.1	77
11	Secretion of microvesicular miRNAs in cellular and organismal aging. <i>Experimental Gerontology</i> , 2013, 48, 626-633.	2.8	75
12	Engineering Blood and Lymphatic Microvascular Networks in Fibrin Matrices. <i>Frontiers in Bioengineering and Biotechnology</i> , 2017, 5, 25.	4.1	74
13	Blue Laser Light Increases Perfusion of a Skin Flap Via Release of Nitric Oxide from Hemoglobin. <i>Molecular Medicine</i> , 2007, 13, 22-29.	4.4	71
14	Epr analysis reveals three tissues responding to endotoxin by increased formation of reactive oxygen and nitrogen species. <i>Free Radical Biology and Medicine</i> , 2003, 34, 1555-1562.	2.9	67
15	The impact of wavelengths of LED light-therapy on endothelial cells. <i>Scientific Reports</i> , 2017, 7, 10700.	3.3	66
16	Small Force, Big Impact: Next Generation Organ-on-a-Chip Systems Incorporating Biomechanical Cues. <i>Frontiers in Physiology</i> , 2018, 9, 1417.	2.8	66
17	Every Breath You Take: Non-invasive Real-Time Oxygen Biosensing in Two- and Three-Dimensional Microfluidic Cell Models. <i>Frontiers in Physiology</i> , 2018, 9, 815.	2.8	66
18	Bone-related Circulating MicroRNAs miR-29b-3p, miR-550a-3p, and miR-324-3p and their Association to Bone Microstructure and Histomorphometry. <i>Scientific Reports</i> , 2018, 8, 4867.	3.3	65

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19	Stiffness Matters: Fine-Tuned Hydrogel Elasticity Alters Chondrogenic Redifferentiation. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 373.	4.1	60
20	Human mesenchymal stem cells and renal tubular epithelial cells differentially influence monocyte-derived dendritic cell differentiation and maturation. <i>Cellular Immunology</i> , 2011, 267, 30-38.	3.0	59
21	Emulating human microcapillaries in a multi-organ-chip platform. <i>Journal of Biotechnology</i> , 2015, 216, 1-10.	3.8	48
22	Thromboelastometry (TEM ^Å) Findings in Disseminated Intravascular Coagulation in a Pig Model of Endotoxemia. <i>Molecular Medicine</i> , 2011, 17, 266-272.	4.4	47
23	Phototherapy With LED Light Modulates Healing Processes in an In Vitro Scratch-Wound Model Using 3 Different Cell Types. <i>Dermatologic Surgery</i> , 2015, 41, 261-268.	0.8	47
24	In vitro extracorporeal shock wave treatment enhances stemness and preserves multipotency of rat and human adipose-derived stem cells. <i>Cytherapy</i> , 2014, 16, 1666-1678.	0.7	45
25	Vicious Inducible Nitric Oxide Synthase-Mitochondrial Reactive Oxygen Species Cycle Accelerates Inflammatory Response and Causes Liver Injury in Rats. <i>Antioxidants and Redox Signaling</i> , 2015, 22, 572-586.	5.4	45
26	Different metabolic activity in placental and reflected regions of the human amniotic membrane. <i>Placenta</i> , 2015, 36, 1329-1332.	1.5	44
27	Illumination with blue light reactivates respiratory activity of mitochondria inhibited by nitric oxide, but not by glycerol trinitrate. <i>Archives of Biochemistry and Biophysics</i> , 2008, 471, 109-115.	3.0	40
28	MicroRNA levels in bone and blood change during bisphosphonate and teriparatide therapy in an animal model of postmenopausal osteoporosis. <i>Bone</i> , 2020, 131, 115104.	2.9	40
29	Mechanisms of Vasodilatation Induced by Nitrite Instillation in Intestinal Lumen: Possible Role of Hemoglobin. <i>Antioxidants and Redox Signaling</i> , 2005, 7, 515-521.	5.4	39
30	Engineering of three-dimensional pre-vascular networks within fibrin hydrogel constructs by microfluidic control over reciprocal cell signaling. <i>Biomicrofluidics</i> , 2018, 12, 042216.	2.4	39
31	Transplantation of human amnion prevents recurring adhesions and ameliorates fibrosis in a rat model of sciatic nerve scarring. <i>Acta Biomaterialia</i> , 2018, 66, 335-349.	8.3	38
32	Endothelial Cell-derived Extracellular Vesicles Size-dependently Exert Procoagulant Activity Detected by Thromboelastometry. <i>Scientific Reports</i> , 2017, 7, 3707.	3.3	30
33	A novel coagulation assay incorporating adherent endothelial cells in thromboelastometry. <i>Thrombosis and Haemostasis</i> , 2013, 109, 869-877.	3.4	27
34	Hydrostatic pressure-generated reactive oxygen species induce osteoarthritic conditions in cartilage pellet cultures. <i>Scientific Reports</i> , 2018, 8, 17010.	3.3	23
35	Molecular and Cellular Effects of In Vitro Shockwave Treatment on Lymphatic Endothelial Cells. <i>PLoS ONE</i> , 2014, 9, e114806.	2.5	23
36	Cellular and Site-Specific Mitochondrial Characterization of Vital Human Amniotic Membrane. <i>Cell Transplantation</i> , 2018, 27, 3-11.	2.5	20

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37	SVF-derived extracellular vesicles carry characteristic miRNAs in lipedema. <i>Scientific Reports</i> , 2020, 10, 7211.	3.3	20
38	Similarities in Thromboelastometric (ROTEM®) Findings between Humans and Baboons. <i>Thrombosis Research</i> , 2012, 130, e107-e112.	1.7	18
39	Thromboelastometric Maximum Clot Firmness in Platelet-Free Plasma Is Influenced by the Assay Used. <i>Anesthesia and Analgesia</i> , 2013, 117, 23-29.	2.2	18
40	Thromboelastometric and platelet responses to silk biomaterials. <i>Scientific Reports</i> , 2014, 4, 4945.	3.3	14
41	The course of recovery of locomotor function over a 10-week observation period in a rat model of femoral nerve resection and autograft repair. <i>Brain and Behavior</i> , 2020, 10, e01580.	2.2	12
42	Comparing the osteogenic potential of bone marrow and tendon-derived stromal cells to repair a critical-sized defect in the rat femur. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 2014-2023.	2.7	11
43	Spatiotemporal Differences in Gene Expression Between Motor and Sensory Autografts and Their Effect on Femoral Nerve Regeneration in the Rat. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 182.	3.7	11
44	Oxygen Tension Strongly Influences Metabolic Parameters and the Release of Interleukin-6 of Human Amniotic Mesenchymal Stromal Cells In Vitro. <i>Stem Cells International</i> , 2018, 2018, 1-11.	2.5	10
45	Impact of mitochondrial nitrite reductase on hemodynamics and myocardial contractility. <i>Scientific Reports</i> , 2017, 7, 12092.	3.3	7
46	Enhanced BMP-2-Mediated Bone Repair Using an Anisotropic Silk Fibroin Scaffold Coated with Bone-like Apatite. <i>International Journal of Molecular Sciences</i> , 2022, 23, 283.	4.1	7
47	Human Placenta Laminin-111 as a Multifunctional Protein for Tissue Engineering and Regenerative Medicine. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1077, 3-17.	1.6	6
48	Histomorphometric Analysis of Callus Formation Stimulated by Axial Dynamisation in a Standardised Ovine Osteotomy Model. <i>BioMed Research International</i> , 2019, 2019, 1-12.	1.9	5
49	Impact of mitochondria on nitrite metabolism in HL-1 cardiomyocytes. <i>Frontiers in Physiology</i> , 2013, 4, 101.	2.8	4
50	Platelet function in baboons and humans – A comparative study of whole blood using impedance platelet aggregometry (Multiplate®). <i>Thrombosis Research</i> , 2016, 147, 115-121.	1.7	4
51	Environmental Influences on Stem Cell Behavior. <i>Stem Cells International</i> , 2018, 2018, 1-2.	2.5	1
52	Lugol's solution but not formaldehyde affects bone microstructure and bone mineral density parameters at the insertion site of the rotator cuff in rats. <i>Journal of Orthopaedic Surgery and Research</i> , 2021, 16, 254.	2.3	1
53	Improved biomechanics in experimental chronic rotator cuff repair after shockwaves is not reflected by bone microarchitecture. <i>PLoS ONE</i> , 2022, 17, e0262294.	2.5	1
54	microRNA Modulation. , 2019, , 1-66.		0

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55	microRNA Modulation. , 2020, , 511-576.		0