Heinz Redl

List of Publications by Year
in descending order

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	Improved biomechanics in experimental chronic rotator cuff repair after shockwaves is not reflected by bone microarchitecture. PLoS ONE, 2022, 17, e0262294.	2.5	1
2	Enhanced BMP-2-Mediated Bone Repair Using an Anisotropic Silk Fibroin Scaffold Coated with Bone-like Apatite. International Journal of Molecular Sciences, 2022, 23, 283.	4.1	7
3	Lugolâ€™s solution but not formaldehyde affects bone microstructure and bone mineral density parameters at the insertion site of the rotator cuff in rats. Journal of Orthopaedic Surgery and Research, 2021, 16, 254.	2.3	1
4	MicroRNA levels in bone and blood change during bisphosphonate and teriparatide therapy in an animal model of postmenopausal osteoporosis. Bone, 2020, 131, 115104.	2.9	40
5	SVF-derived extracellular vesicles carry characteristic miRNAs in lipedema. Scientific Reports, 2020, 10, 7211.	3.3	20
6	Stiffness Matters: Fine-Tuned Hydrogel Elasticity Alters Chondrogenic Redifferentiation. Frontiers in Bioengineering and Biotechnology, 2020, 8, 373.	4.1	60
7	The course of recovery of locomotor function over a 10â€week observation period in a rat model of femoral nerve resection and autograft repair. Brain and Behavior, 2020, 10, e01580.	2.2	12
8	microRNA Modulation. , 2020, , 511-576.		0
9	Spatiotemporal Differences in Gene Expression Between Motor and Sensory Autografts and Their Effect on Femoral Nerve Regeneration in the Rat. Frontiers in Cellular Neuroscience, 2019, 13, 182.	3.7	11
10	microRNA Modulation. , 2019, , 1-66.		0
11	Histomorphometric Analysis of Callus Formation Stimulated by Axial Dynamisation in a Standardised Ovine Osteotomy Model. BioMed Research International, 2019, 2019, 1-12.	1.9	5
12	Cellular and Site-Specific Mitochondrial Characterization of Vital Human Amniotic Membrane. Cell Transplantation, 2018, 27, 3-11.	2.5	20
13	Bone-related Circulating MicroRNAs miR-29b-3p, miR-550a-3p, and miR-324-3p and their Association to Bone Microstructure and Histomorphometry. Scientific Reports, 2018, 8, 4867.	3.3	65
14	Transplantation of human amnion prevents recurring adhesions and ameliorates fibrosis in a rat model of sciatic nerve scarring. Acta Biomaterialia, 2018, 66, 335-349.	8.3	38
15	Hydrostatic pressure-generated reactive oxygen species induce osteoarthritic conditions in cartilage pellet cultures. Scientific Reports, 2018, 8, 17010.	3.3	23
16	Environmental Influences on Stem Cell Behavior. Stem Cells International, 2018, 2018, 1-2.	2.5	1
17	Oxygen Tension Strongly Influences Metabolic Parameters and the Release of Interleukin-6 of Human Amniotic Mesenchymal Stromal Cells In Vitro. Stem Cells International, 2018, 2018, 1-11.	2.5	10
18	Human Placenta Laminin-111 as a Multifunctional Protein for Tissue Engineering and Regenerative Medicine. Advances in Experimental Medicine and Biology, 2018, 1077, 3-17.	1.6	6

#	Article	IF	Citations
19	Small Force, Big Impact: Next Generation Organ-on-a-Chip Systems Incorporating Biomechanical Cues. Frontiers in Physiology, 2018, 9, 1417.	2.8	66
20	Engineering of three-dimensional pre-vascular networks within fibrin hydrogel constructs by microfluidic control over reciprocal cell signaling. Biomicrofluidics, 2018, 12, 042216.	2.4	39
21	Every Breath You Take: Non-invasive Real-Time Oxygen Biosensing in Two- and Three-Dimensional Microfluidic Cell Models. Frontiers in Physiology, 2018, 9, 815.	2.8	66
22	Comparing the osteogenic potential of bone marrow and tendon-derived stromal cells to repair a critical-sized defect in the rat femur. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 2014-2023.	2.7	11
23	Endothelial Cell-derived Extracellular Vesicles Size-dependently Exert Procoagulant Activity Detected by Thromboelastometry. Scientific Reports, 2017, 7, 3707.	3.3	30
24	Impact of mitochondrial nitrite reductase on hemodynamics and myocardial contractility. Scientific Reports, 2017, 7, 12092.	3.3	7
25	The impact of wavelengths of LED light-therapy on endothelial cells. Scientific Reports, 2017, 7, 10700.	3.3	66
26	Engineering Blood and Lymphatic Microvascular Networks in Fibrin Matrices. Frontiers in Bioengineering and Biotechnology, 2017, 5, 25.	4.1	74
27	Platelet function in baboons and humans â€" A comparative study of whole blood using impedance platelet aggregometry (MultiplateÂ®). Thrombosis Research, 2016, 147, 115-121.	1.7	4
28	Secreted microvesicular miR-31 inhibits osteogenic differentiation of mesenchymal stem cells. Aging Cell, 2016, 15, 744-754.	6.7	160
29	Circulating microRNA Signatures in Patients With Idiopathic and Postmenopausal Osteoporosis and Fragility Fractures. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 4125-4134.	3.6	170
30	Vesicular Galectin-3 levels decrease with donor age and contribute to the reduced osteo-inductive potential of human plasma derived extracellular vesicles. Aging, 2016, 8, 16-30.	3.1	77
31	Phototherapy With LED Light Modulates Healing Processes in an In Vitro Scratch-Wound Model Using 3 Different Cell Types. Dermatologic Surgery, 2015, 41, 261-268.	0.8	47
32	Different metabolic activity in placental and reflected regions of the human amniotic membrane. Placenta, 2015, 36, 1329-1332.	1.5	44
33	Emulating human microcapillaries in a multi-organ-chip platform. Journal of Biotechnology, 2015, 216, 1-10.	3.8	48
34	Adipose-derived stem cells induce vascular tube formation of outgrowth endothelial cells in a fibrin matrix. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, 127-136.	2.7	86
35	Vicious Inducible Nitric Oxide Synthase-Mitochondrial Reactive Oxygen Species Cycle Accelerates Inflammatory Response and Causes Liver Injury in Rats. Antioxidants and Redox Signaling, 2015, 22, 572-586.	5.4	45
36	Low level light therapy by LED of different wavelength induces angiogenesis and improves ischemic wound healing. Lasers in Surgery and Medicine, 2014, 46, 773-780.	2.1	81

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37	In vitro extracorporeal shock wave treatment enhances stemness and preserves multipotency of rat and human adipose-derived stem cells. Cytotherapy, 2014, 16, 1666-1678.	0.7	45
38	Mechanisms of vasculogenesis in 3D fibrin matrices mediated by the interaction of adipose-derived stem cells and endothelial cells. Angiogenesis, 2014, 17, 921-933.	7.2	114
39	Thromboelastometric and platelet responses to silk biomaterials. Scientific Reports, 2014, 4, 4945.	3.3	14
40	Molecular and Cellular Effects of In Vitro Shockwave Treatment on Lymphatic Endothelial Cells. PLoS ONE, 2014, 9, e114806.	2.5	23
41	Secretion of microvesicular miRNAs in cellular and organismal aging. Experimental Gerontology, 2013, 48, 626-633.	2.8	75
42	A novel coagulation assay incorporating adherent endothelial cells in thromboelastometry. Thrombosis and Haemostasis, 2013, 109, 869-877.	3.4	27
43	Impact of mitochondria on nitrite metabolism in HL-1 cardiomyocytes. Frontiers in Physiology, 2013, 4, 101.	2.8	4
44	Thromboelastometric Maximum Clot Firmness in Platelet-Free Plasma Is Influenced by the Assay Used. Anesthesia and Analgesia, 2013, 117, 23-29.	2.2	18
45	Similarities in Thromboelastometric (ROTEMÂ®) Findings between Humans and Baboons. Thrombosis Research, 2012, 130, e107-e112.	1.7	18
46	Human Mesenchymal Stem Cells from Adipose Tissue and Amnion Influence T-Cells Depending on Stimulation Method and Presence of Other Immune Cells. Stem Cells and Development, 2011, 20, 2115-2126.	2.1	146
47	Thromboelastometry (TEMÂ®) Findings in Disseminated Intravascular Coagulation in a Pig Model of Endotoxinemia. Molecular Medicine, 2011, 17, 266-272.	4.4	47
48	Light therapy by blue LED improves wound healing in an excision model in rats. Injury, 2011, 42, 917-921.	1.7	133
49	Human mesenchymal stem cells and renal tubular epithelial cells differentially influence monocyte-derived dendritic cell differentiation and maturation. Cellular Immunology, 2011, 267, 30-38.	3.0	59
50	Concise Review: Isolation and Characterization of Cells from Human Term Placenta: Outcome of the First International Workshop on Placenta Derived Stem Cells. Stem Cells, 2008, 26, 300-311.	3.2	921
51	Illumination with blue light reactivates respiratory activity of mitochondria inhibited by nitric oxide, but not by glycerol trinitrate. Archives of Biochemistry and Biophysics, 2008, 471, 109-115.	3.0	40
52	Dose-Dependent Immunomodulatory Effect of Human Stem Cells from Amniotic Membrane: A Comparison with Human Mesenchymal Stem Cells from Adipose Tissue. Tissue Engineering, 2007, 13, 1173-1183.	4.6	367
53	Blue Laser Light Increases Perfusion of a Skin Flap Via Release of Nitric Oxide from Hemoglobin. Molecular Medicine, 2007, 13, 22-29.	4.4	71
54	Mechanisms of Vasodilatation Induced by Nitrite Instillation in Intestinal Lumen: Possible Role of Hemoglobin. Antioxidants and Redox Signaling, 2005, 7, 515-521.	5.4	39

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55	Epr analysis reveals three tissues responding to endotoxin by increased formation of reactive oxygen and nitrogen species. Free Radical Biology and Medicine, 2003, 34, 1555-1562.	2.9	67