

Rolf E Brenner

List of Publications by Year in descending order

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47
papers

2,147
citations

394421

19
h-index

233421

45
g-index

47
all docs

47
docs citations

47
times ranked

3265
citing authors

#	ARTICLE	IF	CITATIONS
1	BMP α 2, BMP α 4, and PDGF β stimulate chemotactic migration of primary human mesenchymal progenitor cells. <i>Journal of Cellular Biochemistry</i> , 2002, 87, 305-312.	2.6	354
2	VEGF-A and PlGF-1 stimulate chemotactic migration of human mesenchymal progenitor cells. <i>Biochemical and Biophysical Research Communications</i> , 2005, 334, 561-568.	2.1	176
3	Identification of subpopulations with characteristics of mesenchymal progenitor cells from human osteoarthritic cartilage using triple staining for cell surface markers. <i>Arthritis Research</i> , 2004, 6, R422-32.	2.0	175
4	To go or not to go: Migration of human mesenchymal progenitor cells stimulated by isoforms of PDGF. <i>Journal of Cellular Biochemistry</i> , 2004, 93, 990-998.	2.6	159
5	Classic, atypically severe and neonatal Marfan syndrome: twelve mutations and genotype \rightarrow phenotype correlations in FBN1 exons Δ 24 \rightarrow 40. <i>European Journal of Human Genetics</i> , 2001, 9, 13-21.	2.8	142
6	A novel star PEG-derived surface coating for specific cell adhesion. <i>Journal of Biomedical Materials Research - Part A</i> , 2005, 74A, 607-617.	4.0	140
7	IGF-I and IGF-II stimulate directed cell migration of bone-marrow-derived human mesenchymal progenitor cells. <i>Biochemical and Biophysical Research Communications</i> , 2006, 345, 1177-1183.	2.1	106
8	The effect of substrate surface nanotopography on the behavior of multipotent mesenchymal stromal cells and osteoblasts. <i>Biomaterials</i> , 2013, 34, 8851-8859.	11.4	94
9	Interleukin-1 beta and tumor necrosis factor alpha inhibit migration activity of chondrogenic progenitor cells from non-fibrillated osteoarthritic cartilage. <i>Arthritis Research and Therapy</i> , 2013, 15, R119.	3.5	81
10	IL-1 β Inhibits Human Osteoblast Migration. <i>Molecular Medicine</i> , 2013, 19, 36-42.	4.4	73
11	The Anaphylatoxin Receptor C5aR Is Present During Fracture Healing in Rats and Mediates Osteoblast Migration In Vitro. <i>Journal of Trauma</i> , 2011, 71, 952-960.	2.3	60
12	Biocompatibility and osseointegration of β -TCP: Histomorphological and biomechanical studies in a weight-bearing sheep model. , 2004, 70B, 209-217.		51
13	Evidence of necroptosis in osteoarthritic disease: investigation of blunt mechanical impact as possible trigger in regulated necrosis. <i>Cell Death and Disease</i> , 2019, 10, 683.	6.3	48
14	Novel Surface Coatings Modulating Eukaryotic Cell Adhesion and Preventing Implant Infection. <i>International Journal of Artificial Organs</i> , 2009, 32, 655-662.	1.4	46
15	Crucial Role of IL1beta and C3a in the In Vitro-Response of Multipotent Mesenchymal Stromal Cells to Inflammatory Mediators of Polytrauma. <i>PLoS ONE</i> , 2015, 10, e0116772.	2.5	39
16	Pathomechanisms of Posttraumatic Osteoarthritis: Chondrocyte Behavior and Fate in a Precarious Environment. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1560.	4.1	36
17	CYR61/CCN1 and WISP3/CCN6 are chemoattractive ligands for human multipotent mesenchymal stroma cells. <i>BMC Cell Biology</i> , 2007, 8, 45.	3.0	35
18	Experimental blunt chest trauma-induced myocardial inflammation and alteration of gap-junction protein connexin 43. <i>PLoS ONE</i> , 2017, 12, e0187270.	2.5	31

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19	Mesenchymal Progenitor Cells Communicate via Alpha and Beta Integrins with a Three-Dimensional Collagen Type I Matrix. <i>Cells Tissues Organs</i> , 2006, 182, 143-154.	2.3	28
20	Interactive effects of growth factors and three-dimensional scaffolds on multipotent mesenchymal stromal cells. <i>Biotechnology and Applied Biochemistry</i> , 2008, 49, 185-194.	3.1	23
21	Extracellular Vesicles in Musculoskeletal Pathologies and Regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 624096.	4.1	23
22	Yunis-Varon syndrome: Evidence for a lysosomal storage disease. <i>American Journal of Medical Genetics Part A</i> , 2000, 95, 157-160.	2.4	20
23	Single impact trauma in human early-stage osteoarthritic cartilage: Implication of prostaglandin D2 but no additive effect of IL-1 β on cell survival. <i>International Journal of Molecular Medicine</i> , 2011, 28, 271-7.	4.0	20
24	Improved Anchorage of Ti6Al4V Orthopaedic Bone Implants through Oligonucleotide Mediated Immobilization of BMP-2 in Osteoporotic Rats. <i>PLoS ONE</i> , 2014, 9, e86151.	2.5	20
25	Mesenchymal Stem Cells after Polytrauma: Actor and Target. <i>Stem Cells International</i> , 2016, 2016, 1-10.	2.5	15
26	The Expression of Thrombospondin-4 Correlates with Disease Severity in Osteoarthritic Knee Cartilage. <i>International Journal of Molecular Sciences</i> , 2019, 20, 447.	4.1	15
27	Guidance of Mesenchymal Stem Cells on Fibronectin Structured Hydrogel Films. <i>PLoS ONE</i> , 2014, 9, e109411.	2.5	14
28	Terminal complement complex formation is associated with intervertebral disc degeneration. <i>European Spine Journal</i> , 2021, 30, 217-226.	2.2	11
29	Single impact cartilage trauma and TNF- α : Interactive effects do not increase early cell death and indicate the need for bi-/multidirectional therapeutic approaches. <i>International Journal of Molecular Medicine</i> , 2012, 30, 1225-1232.	4.0	10
30	Differential Interactive Effects of Cartilage Traumatization and Blood Exposure In Vitro and In Vivo. <i>American Journal of Sports Medicine</i> , 2015, 43, 2822-2832.	4.2	10
31	Serum Cartilage Oligomeric Matrix Protein in Late-Stage Osteoarthritis: Association with Clinical Features, Renal Function, and Cardiovascular Biomarkers. <i>Journal of Clinical Medicine</i> , 2020, 9, 268.	2.4	10
32	Development of a New Biomechanically Defined Single Impact Rabbit Cartilage Trauma Model for In Vivo-Studies. <i>Journal of Investigative Surgery</i> , 2012, 25, 235-241.	1.3	9
33	Striking a new path in reducing cartilage breakdown: combination of antioxidative therapy and chondroanabolic stimulation after blunt cartilage trauma. <i>Journal of Cellular and Molecular Medicine</i> , 2018, 22, 77-88.	3.6	9
34	The Hexosamine Biosynthetic Pathway as a Therapeutic Target after Cartilage Trauma: Modification of Chondrocyte Survival and Metabolism by Glucosamine Derivatives and PUGNAc in an Ex Vivo Model. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7247.	4.1	8
35	New Insights into Xenotransplantation for Cartilage Repair: Porcine Multi-Genetically Modified Chondrocytes as a Promising Cell Source. <i>Cells</i> , 2021, 10, 2152.	4.1	7
36	Ultrathin sP(EO-stat-PO) hydrogel coatings are biocompatible and preserve functionality of surface bound growth factors in vivo. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 2417-2427.	3.6	6

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37	Initial Harm Reduction by N-Acetylcysteine Alleviates Cartilage Degeneration after Blunt Single-Impact Cartilage Trauma in Vivo. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2916.	4.1	6
38	Statistical analysis of the intermediate filament network in cells of mesenchymal lineage by greyscale-oriented image segmentation. <i>Computational Statistics</i> , 2013, 28, 139-160.	1.5	5
39	Five years™ trajectories of functionality and pain in patients after hip or knee replacement and association with long-term patient survival. <i>Scientific Reports</i> , 2020, 10, 14388.	3.3	5
40	Optimizing Manufacturing and Osseointegration of Ti6Al4V Implants through Precision Casting and Calcium and Phosphorus Ion Implantation? In Vivo Results of a Large-Scale Animal Trial. <i>Materials</i> , 2020, 13, 1670.	2.9	5
41	Modulation of the inflammatory response to decellularized collagen matrix for cartilage regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2022, 110, 1021-1035.	4.0	5
42	Cartilage repair across germ layer origins. <i>Lancet, The</i> , 2016, 388, 1957-1958.	13.7	4
43	4.7 Mb deletion encompassing <i>TGFB2</i> associated with features of Loey's-Dietz syndrome and osteoporosis in adulthood. <i>American Journal of Medical Genetics, Part A</i> , 2017, 173, 2289-2292.	1.2	4
44	Hypothermia Promotes Cell-Protective and Chondroprotective Effects After Blunt Cartilage Trauma. <i>American Journal of Sports Medicine</i> , 2018, 46, 420-430.	4.2	4
45	Long-Term Mortality of Patients With Osteoarthritis After Joint Replacement: Prognostic Value of Preoperative and Postoperative Pain and Function. <i>Arthritis Care and Research</i> , 2023, 75, 869-875.	3.4	3
46	NCO-sP(EO-stat-PO) surface coatings preserve biochemical properties of RGD peptides. <i>International Journal of Molecular Medicine</i> , 2010, 27, 139-45.	4.0	2
47	Migration of Local Progenitor Cells as Therapeutic Target in Knee Osteoarthritis. <i>Current Rheumatology Reviews</i> , 2008, 4, 171-174.	0.8	0