

Scott J Roberts

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

2,462
citations

236925

25
h-index

233421

45
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all docs

45
docs citations

45
times ranked

3842
citing authors

#	ARTICLE	IF	CITATIONS
1	Tissue engineering: strategies, stem cells and scaffolds. <i>Journal of Anatomy</i> , 2008, 213, 66-72.	1.5	417
2	Uncovering the periosteum for skeletal regeneration: The stem cell that lies beneath. <i>Bone</i> , 2015, 70, 10-18.	2.9	207
3	Differentiation Potential of Human Postnatal Mesenchymal Stem Cells, Mesoangioblasts, and Multipotent Adult Progenitor Cells Reflected in Their Transcriptome and Partially Influenced by the Culture Conditions. <i>Stem Cells</i> , 2011, 29, 871-882.	3.2	155
4	Functional Involvement of PHOSPHO1 in Matrix Vesicle-Mediated Skeletal Mineralization. <i>Journal of Bone and Mineral Research</i> , 2007, 22, 617-627.	2.8	153
5	Human PHOSPHO1 exhibits high specific phosphoethanolamine and phosphocholine phosphatase activities. <i>Biochemical Journal</i> , 2004, 382, 59-65.	3.7	111
6	Engineering Vascularized Bone: Osteogenic and Proangiogenic Potential of Murine Periosteal Cells. <i>Stem Cells</i> , 2012, 30, 2460-2471.	3.2	110
7	Probing the Osteoinductive Effect of Calcium Phosphate by Using an <i>In Vitro</i> Biomimetic Model. <i>Tissue Engineering - Part A</i> , 2011, 17, 1083-1097.	3.1	104
8	Mechanisms of ectopic bone formation by human osteoprogenitor cells on CaP biomaterial carriers. <i>Biomaterials</i> , 2012, 33, 3127-3142.	11.4	103
9	The combined bone forming capacity of human periosteal derived cells and calcium phosphates. <i>Biomaterials</i> , 2011, 32, 4393-4405.	11.4	100
10	The presence of PHOSPHO1 in matrix vesicles and its developmental expression prior to skeletal mineralization. <i>Bone</i> , 2006, 39, 1000-1007.	2.9	79
11	Novel actions of sclerostin on bone. <i>Journal of Molecular Endocrinology</i> , 2019, 62, R167-R185.	2.5	70
12	Ectopic bone formation by 3D porous calcium phosphate-Ti6Al4V hybrids produced by perfusion electrodeposition. <i>Biomaterials</i> , 2012, 33, 4044-4058.	11.4	64
13	¹⁸ F-FDG Labeling of Mesenchymal Stem Cells and Multipotent Adult Progenitor Cells for PET Imaging: Effects on Ultrastructure and Differentiation Capacity. <i>Journal of Nuclear Medicine</i> , 2013, 54, 447-454.	5.0	60
14	Mapping calcium phosphate activated gene networks as a strategy for targeted osteoinduction of human progenitors. <i>Biomaterials</i> , 2013, 34, 4612-4621.	11.4	49
15	Early BMP, Wnt and Ca ²⁺ /PKC pathway activation predicts the bone forming capacity of periosteal cells in combination with calcium phosphates. <i>Biomaterials</i> , 2016, 86, 106-118.	11.4	49
16	Enhancement of osteogenic gene expression for the differentiation of human periosteal derived cells. <i>Stem Cell Research</i> , 2011, 7, 137-144.	0.7	42
17	Clinical applications of musculoskeletal tissue engineering. <i>British Medical Bulletin</i> , 2008, 86, 7-22.	6.9	39
18	Human pluripotent stem cell-derived cartilaginous organoids promote scaffold-free healing of critical size long bone defects. <i>Stem Cell Research and Therapy</i> , 2021, 12, 513.	5.5	37

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19	A Semi-Autonomous Model of Endochondral Ossification for Developmental Tissue Engineering. <i>Tissue Engineering - Part A</i> , 2012, 18, 1334-1343.	3.1	35
20	Combinatorial Analysis of Growth Factors Reveals the Contribution of Bone Morphogenetic Proteins to Chondrogenic Differentiation of Human Periosteal Cells. <i>Tissue Engineering - Part C: Methods</i> , 2016, 22, 473-486.	2.1	35
21	Probing the substrate specificities of human PHOSPHO1 and PHOSPHO2. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2005, 1752, 73-82.	2.3	32
22	Validation of a PicoGreen-Based DNA Quantification Integrated in an RNA Extraction Method for Two-Dimensional and Three-Dimensional Cell Cultures. <i>Tissue Engineering - Part C: Methods</i> , 2012, 18, 444-452.	2.1	32
23	Optimization of Multimodal Imaging of Mesenchymal Stem Cells Using the Human Sodium Iodide Symporter for PET and Cerenkov Luminescence Imaging. <i>PLoS ONE</i> , 2014, 9, e94833.	2.5	32
24	Dual neutralisation of IL-17F and IL-17A with bimekizumab blocks inflammation-driven osteogenic differentiation of human periosteal cells. <i>RMD Open</i> , 2020, 6, e001306.	3.8	32
25	Humanized Culture of Periosteal Progenitors in Allogeneic Serum Enhances Osteogenic Differentiation and In Vivo Bone Formation. <i>Stem Cells Translational Medicine</i> , 2014, 3, 218-228.	3.3	27
26	Relating the Chondrocyte Gene Network to Growth Plate Morphology: From Genes to Phenotype. <i>PLoS ONE</i> , 2012, 7, e34729.	2.5	24
27	Fluorescent oxygen sensitive microbead incorporation for measuring oxygen tension in cell aggregates. <i>Biomaterials</i> , 2013, 34, 922-929.	11.4	24
28	Multi-Level Factorial Analysis of Ca ²⁺ /P _i Supplementation as Bio-Instructive Media for <i>In Vitro</i> Biomimetic Engineering of Three-Dimensional Osteogenic Hybrids. <i>Tissue Engineering - Part C: Methods</i> , 2012, 18, 90-103.	2.1	23
29	Controlled embryoid body formation via surface modification and avidin-biotin cross-linking. <i>Cytotechnology</i> , 2009, 61, 135-144.	1.6	22
30	Critical illness-related bone loss is associated with osteoclastic and angiogenic abnormalities. <i>Journal of Bone and Mineral Research</i> , 2012, 27, 1541-1552.	2.8	20
31	Engineering Embryonic Stem-Cell Aggregation Allows an Enhanced Osteogenic Differentiation In Vitro. <i>Tissue Engineering - Part C: Methods</i> , 2010, 16, 583-595.	2.1	19
32	Manipulation of live mouse embryonic stem cells using holographic optical tweezers. <i>Journal of Modern Optics</i> , 2009, 56, 448-452.	1.3	18
33	Folic Acid Exposure Rescues Spina Bifida Aperta Phenotypes in Human Induced Pluripotent Stem Cell Model. <i>Scientific Reports</i> , 2018, 8, 2942.	3.3	18
34	ZJU-6, a novel derivative of Erianin, shows potent anti-tubulin polymerisation and anti-angiogenic activities. <i>Investigational New Drugs</i> , 2012, 30, 1899-1907.	2.6	16
35	Sox9 Reprogrammed Dermal Fibroblasts Undergo Hypertrophic Differentiation In Vitro and Trigger Endochondral Ossification In Vivo. <i>Cellular Reprogramming</i> , 2014, 16, 29-39.	0.9	16
36	Anabolic Strategies to Augment Bone Fracture Healing. <i>Current Osteoporosis Reports</i> , 2018, 16, 289-298.	3.6	15

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37	Decellularized Cartilage Directs Chondrogenic Differentiation: Creation of a Fracture Callus Mimetic. <i>Tissue Engineering - Part A</i> , 2018, 24, 1364-1376.	3.1	15
38	From skeletal development to the creation of pluripotent stem cell-derived bone-forming progenitors. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170218.	4.0	11
39	Assay design considerations for use of affinity aptamer amplification in ultra-sensitive protein assays using capillary electrophoresis. <i>Analytical Methods</i> , 2011, 3, 2156.	2.7	10
40	Identification of a novel class of mammalian phosphoinositol-specific phospholipase C enzymes. <i>International Journal of Molecular Medicine</i> , 2005, 15, 117.	4.0	9
41	Mapping human serum-induced gene networks as a basis for the creation of biomimetic periosteum for bone repair. <i>Cytherapy</i> , 2020, 22, 424-435.	0.7	7
42	Biomimetic strategies for fracture repair: Engineering the cell microenvironment for directed tissue formation. <i>Journal of Tissue Engineering</i> , 2017, 8, 204173141770479.	5.5	6
43	Close to the bone " in search of the skeletal stem cell. <i>Nature Reviews Rheumatology</i> , 2018, 14, 687-688.	8.0	6
44	Identification of a novel splice variant of the haloacid dehalogenase: PHOSPHO1. <i>Biochemical and Biophysical Research Communications</i> , 2008, 371, 872-876.	2.1	5
45	Reprogramming bone progenitor identity and potency through control of collagen density and oxygen tension. <i>IScience</i> , 2022, 25, 104059.	4.1	4