Hugo Machado Fernandes

List of Publications by Year
in descending order

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47 papers	2,535 citations	279487 23 h-index	233125 45 g-index
48 all docs	48 docs citations	48 times ranked	3976 citing authors

#	Article	IF	Citations
1	Osteoinductive ceramics as a synthetic alternative to autologous bone grafting. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 13614-13619.	3.3	618
2	A calcium-induced signaling cascade leading to osteogenic differentiation of human bone marrow-derived mesenchymal stromal cells. Biomaterials, 2012, 33, 3205-3215.	5.7	363
3	Native and bioengineered extracellular vesicles for cardiovascular therapeutics. Nature Reviews Cardiology, 2020, 17, 685-697.	6.1	228
4	Endothelial Differentiation of Mesenchymal Stromal Cells. PLoS ONE, 2012, 7, e46842.	1.1	171
5	Growth, Metabolism, and Growth Inhibitors of Mesenchymal Stem Cells. Tissue Engineering - Part A, 2009, 15, 1877-1886.	1.6	155
6	Molecular mechanisms of biomaterial-driven osteogenic differentiation in human mesenchymal stromal cells. Integrative Biology (United Kingdom), 2013, 5, 920-931.	0.6	88
7	Extracellular matrix and tissue engineering applications. Journal of Materials Chemistry, 2009, 19, 5474.	6.7	62
8	The Response of Human Mesenchymal Stem Cells to Osteogenic Signals and its Impact on Bone Tissue Engineering. Current Stem Cell Research and Therapy, 2007, 2, 209-220.	0.6	59
9	Endogenous Collagen Influences Differentiation of Human Multipotent Mesenchymal Stromal Cells. Tissue Engineering - Part A, 2010, 16, 1693-1702.	1.6	57
10	The influence of genetic factors on the osteoinductive potential of calcium phosphate ceramics in mice. Biomaterials, 2012, 33, 5696-5705.	5.7	54
11	Fabrication of Bioactive Composite Scaffolds by Electrospinning for Bone Regeneration. Macromolecular Bioscience, 2010, 10, 1365-1373.	2.1	52
12	Exogenous loading of miRNAs into small extracellular vesicles. Journal of Extracellular Vesicles, 2021, 10, e12111.	5.5	43
13	The Role of Collagen Crosslinking in Differentiation of Human Mesenchymal Stem Cells and MC3T3-E1 Cells. Tissue Engineering - Part A, 2009, 15, 3857-3867.	1.6	42
14	cAMP/PKA Signaling Inhibits Osteogenic Differentiation and Bone Formation in Rodent Models. Tissue Engineering - Part A, 2009, 15, 2135-2143.	1.6	40
15	In vivo evaluation of highly macroporous ceramic scaffolds for bone tissue engineering. Journal of Biomedical Materials Research - Part A, 2010, 93A, 567-575.	2.1	38
16	High-throughput identification of small molecules that affect human embryonic vascular development. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3022-E3031.	3.3	35
17	The role of ENPP1/PC-1 in osteoinduction by calcium phosphate ceramics. Biomaterials, 2019, 210, 12-24.	5.7	33
18	A small molecule approach to engineering vascularized tissue. Biomaterials, 2013, 34, 3053-3063.	5.7	31

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19	Mesenchymal stromal cell-derived extracellular matrix influences gene expression of chondrocytes. Biofabrication, 2013, 5, 025003.	3.7	30
20	TGF-Î²1 activation in human hamstring cells through growth factor binding peptides on polycaprolactone surfaces. Acta Biomaterialia, 2017, 53, 165-178.	4.1	29
21	A SOX2 Reporter System Identifies Gastric Cancer Stem-Like Cells Sensitive to Monensin. Cancers, 2020, 12, 495.	1.7	29
22	Bioactive Tape With BMP-2 Binding Peptides Captures Endogenous Growth Factors and Accelerates Healing After Anterior Cruciate Ligament Reconstruction. American Journal of Sports Medicine, 2018, 46, 2905-2914.	1.9	25
23	Prolotherapy Induces an Inflammatory Response in Human Tenocytes In Vitro. Clinical Orthopaedics and Related Research, 2017, 475, 2117-2127.	0.7	24
24	Crossâ€Talk Between Human Tenocytes and Bone Marrow Stromal Cells Potentiates Extracellular Matrix Remodeling In Vitro. Journal of Cellular Biochemistry, 2016, 117, 684-693.	1.2	22
25	Soft-molecular imprinted electrospun scaffolds to mimic specific biological tissues. Biofabrication, 2018, 10, 045005.	3.7	19
26	Effect of Chordin-Like 1 on MC3T3-E1 and Human Mesenchymal Stem Cells. Cells Tissues Organs, 2010, 191, 443-452.	1.3	17
27	In Vitro and In Vivo Bioluminescent Imaging of Hypoxia in Tissue-Engineered Grafts. Tissue Engineering - Part C: Methods, 2010, 16, 479-485.	1.1	17
28	Decellularized Extracellular Matrix Scaffolds for Cartilage Regeneration. Methods in Molecular Biology, 2015, 1340, 133-151.	0.4	15
29	High throughput screening of photocatalytic conversion of pharmaceutical contaminants in water. Environmental Pollution, 2017, 220, 1199-1207.	3.7	14
30	Muscle-Secreted Factors Improve Anterior Cruciate Ligament Graft Healing: AnIn VitroandIn VivoAnalysis. Tissue Engineering - Part A, 2018, 24, 322-334.	1.6	14
31	High-Throughput Screening Assay for the Identification of Compounds Enhancing Collagenous Extracellular Matrix Production by ATDC5 Cells. Tissue Engineering - Part C: Methods, 2015, 21, 726-736.	1.1	12
32	Spatial distribution and survival of human and goat mesenchymal stromal cells on hydroxyapatite andÎ²-tricalcium phosphate. Journal of Tissue Engineering and Regenerative Medicine, 2016, 10, 233-244.	1.3	12
33	Intercellular transfer of miR-200c-3p impairs the angiogenic capacity of cardiac endothelial cells. Molecular Therapy, 2022, 30, 2257-2273.	3.7	12
34	High-throughput screening of nanoparticles in drug delivery. APL Bioengineering, 2021, 5, 031511.	3.3	11
35	From fiber curls to mesh waves: a platform for the fabrication of hierarchically structured nanofibers mimicking natural tissue formation. Nanoscale, 2019, 11, 14312-14321.	2.8	10
36	'Smart' biomaterials and osteoinductivity. Nature Reviews Rheumatology, 2011, 7, 1-1.	3.5	9

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37	Spatiotemporal proliferation of human stromal cells adjusts to nutrient availability and leads to stanniocalcin-1 expression inÂvitro and inÂvivo. Biomaterials, 2015, 61, 190-202.	5.7	9
38	Anterior cruciate ligament- and hamstring tendon-derived cells:in vitrodifferential properties of cells involved in ACL reconstruction. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 1077-1088.	1.3	8
39	A high-throughput screening platform to identify nanocarriers for efficient delivery of RNA-based therapies. Methods, 2020, 190, 13-25.	1.9	8
40	High-Throughput Screening Assay Identifies Small Molecules Capable of Modulating the BMP-2 and TGF-Î²1 Signaling Pathway. SLAS Discovery, 2017, 22, 40-50.	1.4	7
41	Extracellular vesicles enriched with an endothelial cell pro-survival microRNA affects skin tissue regeneration. Molecular Therapy - Nucleic Acids, 2022, 28, 307-327.	2.3	7
42	Means of enhancing bone fracture healing: optimal cell source, isolation methods and acoustic stimulation. BMC Biotechnology, 2016, 16, 89.	1.7	3
43	Supporting data of spatiotemporal proliferation of human stromal cells adjusts to nutrient availability and leads to stanniocalcin-1 expression in vitro and in vivo. Data in Brief, 2015, 5, 84-94.	0.5	1
44	A Highâ€Throughput Screening Method to Identify Compounds Displaying Human Vascular Embryonic Toxicity. Current Protocols in Stem Cell Biology, 2019, 50, e93.	3.0	1
45	High-content imaging. , 0, , 85-100.		0
46	Bioassay development. , 0, , 67-84.		0
47	Editorial. Methods, 2021, 190, 1-2.	1.9	0