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Runx2/Cbfa1-genetically engineered skeletal myoblasts mineralize collagen scaffolds in vitro

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Biotechnology and Bioengineering, 2004, 88, 369-78.

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#	Paper	IF	Citations
46	Myoblast proliferation and differentiation on fibronectin-coated self assembled monolayers presenting different surface chemistries. <i>Biomaterials</i> , 2005 , 26, 4523-31	15.6	173
45	Biological approaches to bone regeneration by gene therapy. <i>Journal of Dental Research</i> , 2005 , 84, 10938-43	10.3	154
44	Scaffold-based bone engineering by using genetically modified cells. <i>Gene</i> , 2005 , 347, 1-10	3.8	74
43	Inducible regulation of Runx2-stimulated osteogenesis. <i>Gene Therapy</i> , 2006 , 13, 873-82	4	48
42	BMP signaling is required for RUNX2-dependent induction of the osteoblast phenotype. <i>Journal of Bone and Mineral Research</i> , 2006 , 21, 637-46	6.3	267
41	Mineralization capacity of Runx2/Cbfa1-genetically engineered fibroblasts is scaffold dependent. <i>Biomaterials</i> , 2006 , 27, 5535-45	15.6	41
40	Genetic engineering for skeletal regenerative medicine. <i>Annual Review of Biomedical Engineering</i> , 2007 , 9, 87-119	12	29
39	Dermal fibroblasts genetically modified to express Runx2/Cbfa1 as a mineralizing cell source for bone tissue engineering. <i>Tissue Engineering</i> , 2007 , 13, 2029-40		29
38	Tissue engineering bone formation in novel recombinant human bone morphogenic protein 2-atelocollagen composite scaffolds. <i>Journal of Periodontology</i> , 2007 , 78, 335-43	4.6	31
37	In vitro and in vivo osteoblastic differentiation of BMP-2- and Runx2-engineered skeletal myoblasts. <i>Journal of Cellular Biochemistry</i> , 2007 , 100, 1324-36	4.7	25
36	Virus-based gene therapy strategies for bone regeneration. <i>Biomaterials</i> , 2007 , 28, 211-29	15.6	96
35	Physical Stress as a Factor in Tissue Growth and Remodeling. 2008 , 512-535		
34	The stimulation of myoblast differentiation by electrically conductive sub-micron fibers. <i>Biomaterials</i> , 2009 , 30, 2038-47	15.6	218
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31	RGD-functionalisation of PLLA nanofibers by surface coupling using plasma treatment: influence on stem cell differentiation. <i>Journal of Materials Science: Materials in Medicine</i> , 2010 , 21, 1363-9	4.5	37
30	The development of genipin-crosslinked poly(caprolactone) (PCL)/gelatin nanofibers for tissue engineering applications. <i>Macromolecular Bioscience</i> , 2010 , 10, 91-100	5.5	127

29	Runx2 overexpression in bone marrow stromal cells accelerates bone formation in critical-sized femoral defects. <i>Tissue Engineering - Part A</i> , 2010 , 16, 2795-808	3.9	27
28	Engineered Bioactive Molecules. 2011 , 131-145		0
27	Control of adhesion, focal adhesion assembly, and differentiation of myoblasts by enzymatically crosslinked cell-interactive hydrogels. <i>Macromolecular Research</i> , 2011 , 19, 911-920	1.9	17
26	A review of three-dimensional in vitro tissue models for drug discovery and transport studies. <i>Journal of Pharmaceutical Sciences</i> , 2011 , 100, 59-74	3.9	336
25	Emerging nanotechnology approaches in tissue engineering for peripheral nerve regeneration. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2011 , 7, 50-9	6	139
24	Encapsulation of bone morphogenic protein-2 with Cbfa1-overexpressing osteogenic cells derived from human embryonic stem cells in hydrogel accelerates bone tissue regeneration. <i>Stem Cells and Development</i> , 2011 , 20, 1349-58	4.4	20
23	Transplantation of Cbfa1-overexpressing adipose stem cells together with vascularized periosteal flaps repair segmental bone defects. <i>Journal of Surgical Research</i> , 2012 , 176, e13-20	2.5	18
22	Engineered Proteins for Controlling Gene Expression. 2013 , 125-138		0
21	Osteoblasts of Craniofacial Bone. 2013 , 43-57		
20	Progress of electrospun fibers as nerve conduits for neural tissue repair. <i>Nanomedicine</i> , 2014 , 9, 1869-835.6	5.6	32
19	Novel target genes of RUNX2 transcription factor and 1,25-dihydroxyvitamin D3. <i>Journal of Cellular Biochemistry</i> , 2014 , 115, 1594-608	4.7	10
18	Phosphorylation of Runx2, induced by cyclic mechanical tension via ERK1/2 pathway, contributes to osteodifferentiation of human periodontal ligament fibroblasts. <i>Journal of Cellular Physiology</i> , 2015 , 230, 2426-36	7	30
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15	Combining a micro/nano-hierarchical scaffold with cell-printing of myoblasts induces cell alignment and differentiation favorable to skeletal muscle tissue regeneration. <i>Biofabrication</i> , 2016 , 8, 035021	10.5	48
14	Synergistic influence of collagen I and BMP 2 drives osteogenic differentiation of mesenchymal stem cells: A cell microarray analysis. <i>Acta Biomaterialia</i> , 2016 , 34, 41-52	10.8	33
13	Physical Stress as a Factor in Tissue Growth and Remodeling. 2019 , 417-436		
12	Nano/microscale topographically designed alginate/PCL scaffolds for inducing myoblast alignment and myogenic differentiation. <i>Carbohydrate Polymers</i> , 2019 , 223, 115041	10.3	29

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8	Retroviral-mediated gene therapy for the differentiation of primary cells into a mineralizing osteoblastic phenotype. <i>Methods in Molecular Biology</i> , 2008 , 433, 333-54	1.4	10
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6	Retroviral-Mediated Gene Therapy for the Differentiation of Primary Cells into a Mineralizing Osteoblastic Phenotype. 2008 , 333-354		
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