Jacqueline Alblas

List of Publications by Citations

68 papers	4,861 citations	33 h-index	69 g-index
69 ext. papers	5,280 ext. citations	5.8 avg, IF	5.25 L-index

#	Paper	IF	Citations
68	Hydrogels as extracellular matrices for skeletal tissue engineering: state-of-the-art and novel application in organ printing. *Tissue Engineering*, **2007**, 13, 1905-25		382
67	Three-dimensional fiber deposition of cell-laden, viable, patterned constructs for bone tissue printing. *Tissue Engineering - Part A*, **2008**, 14, 127-33	3.9	320
66	Biofabrication of osteochondral tissue equivalents by printing topologically defined, cell-laden hydrogel scaffolds. *Tissue Engineering - Part C: Methods*, **2012**, 18, 33-44	2.9	312
65	The effect of photopolymerization on stem cells embedded in hydrogels. *Biomaterials*, **2009**, 30, 344-53	15.6	310
64	Cardiac tissue engineering using tissue printing technology and human cardiac progenitor cells. *Biomaterials*, **2012**, 33, 1782-90	15.6	293
63	Mitogenic signaling of insulin-like growth factor I in MCF-7 human breast cancer cells requires phosphatidylinositol 3-kinase and is independent of mitogen-activated protein kinase. *Journal of Biological Chemistry*, **1997**, 272, 31163-71	5.4	188
62	Organ printing: the future of bone regeneration?. *Trends in Biotechnology*, **2011**, 29, 601-6	15.1	177
61	3D bioprinting of methacrylated hyaluronic acid (MeHA) hydrogel with intrinsic osteogenicity. *PLoS ONE*, **2017**, 12, e0177628	3.7	169
60	Prolonged presence of VEGF promotes vascularization in 3D bioprinted scaffolds with defined architecture. *Journal of Controlled Release*, **2014**, 184, 58-66	11.7	165
59	Evaluation of photocrosslinked Lutrol hydrogel for tissue printing applications. *Biomacromolecules*, **2009**, 10, 1689-96	6.9	162
58	Flavonoids influence monocytic GTPase activity and are protective in experimental allergic encephalitis. *Journal of Experimental Medicine*, **2004**, 200, 1667-72	16.6	154
57	Sustained release of BMP-2 in bioprinted alginate for osteogenicity in mice and rats. *PLoS ONE*, **2013**, 8, e72610	3.7	146
56	Use of fluorochrome labels in in vivo bone tissue engineering research. *Tissue Engineering - Part B: Reviews*, **2010**, 16, 209-17	7.9	122
55	Systemic inflammation and fracture healing. *Journal of Leukocyte Biology*, **2011**, 89, 669-73	6.5	119
54	Acute loss of cell-cell communication caused by G protein-coupled receptors: a critical role for c-Src. *Journal of Cell Biology*, **1998**, 140, 1199-209	7.3	105
53	Proinflammatory T cells and IL-17 stimulate osteoblast differentiation. *Bone*, **2016**, 84, 262-270	4.7	103
52	Distinct tissue formation by heterogeneous printing of osteo- and endothelial progenitor cells. *Tissue Engineering - Part A*, **2011**, 17, 2113-21	3.9	102

51	Photopolymerized thermosensitive hydrogels: synthesis, degradation, and cytocompatibility. *Biomacromolecules*, **2008**, 9, 919-26	6.9	85
50	The role of MAP kinase in TPA-mediated cell cycle arrest of human breast cancer cells. *Oncogene*, **1998**, 16, 131-9	9.2	83
49	A differential effect of bone morphogenetic protein-2 and vascular endothelial growth factor release timing on osteogenesis at ectopic and orthotopic sites in a large-animal model. *Tissue Engineering - Part A*, **2012**, 18, 2052-62	3.9	82
48	The role of endothelial progenitor cells in prevascularized bone tissue engineering: development of heterogeneous constructs. *Tissue Engineering - Part A*, **2010**, 16, 2355-67	3.9	80
47	Scaffold porosity and oxygenation of printed hydrogel constructs affect functionality of embedded osteogenic progenitors. *Tissue Engineering - Part A*, **2011**, 17, 2473-86	3.9	76
46	Growth factor interactions in bone regeneration. *Tissue Engineering - Part B: Reviews*, **2010**, 16, 551-66	7.9	73
45	Porous bioprinted constructs in BMP-2 non-viral gene therapy for bone tissue engineering. *Journal of Materials Chemistry B*, **2013**, 1, 6619-6626	7.3	72
44	Modulating endochondral ossification of multipotent stromal cells for bone regeneration. *Tissue Engineering - Part B: Reviews*, **2010**, 16, 385-95	7.9	69
43	Signal regulatory protein alpha ligation induces macrophage nitric oxide production through JAK/STAT- and phosphatidylinositol 3-kinase/Rac1/NAPDH oxidase/H2O2-dependent pathways. *Molecular and Cellular Biology*, **2005**, 25, 7181-92	4.8	64
42	C-terminal truncation of the neurokinin-2 receptor causes enhanced and sustained agonist-induced signaling. Role of receptor phosphorylation in signal attenuation. *Journal of Biological Chemistry*, **1995**, 270, 8944-51	5.4	64
41	Proinflammatory Mediators Enhance the Osteogenesis of Human Mesenchymal Stem Cells after Lineage Commitment. *PLoS ONE*, **2015**, 10, e0132781	3.7	53
40	Hypoxia impedes hypertrophic chondrogenesis of human multipotent stromal cells. *Tissue Engineering - Part A*, **2012**, 18, 1957-66	3.9	52
39	Neutrophils contribute to fracture healing by synthesizing fibronectin+ extracellular matrix rapidly after injury. *Clinical Immunology*, **2016**, 164, 78-84	9	46
38	Luciferase labeling for multipotent stromal cell tracking in spinal fusion versus ectopic bone tissue engineering in mice and rats. *Tissue Engineering - Part A*, **2010**, 16, 3343-51	3.9	43
37	Gene delivery of bone morphogenetic protein-2 plasmid DNA promotes bone formation in a large animal model. *Journal of Tissue Engineering and Regenerative Medicine*, **2014**, 8, 763-70	4.4	38
36	Cellular immunotherapy on primary multiple myeloma expanded in a 3D bone marrow niche model. *OncoImmunology*, **2018**, 7, e1434465	7.2	37
35	Gelatin Microspheres as Vehicle for Cardiac Progenitor Cells Delivery to the Myocardium. *Advanced Healthcare Materials*, **2016**, 5, 1071-9	10.1	32
34	In vivo bioluminescence imaging study to monitor ectopic bone formation by luciferase gene marked mesenchymal stem cells. *Journal of Orthopaedic Research*, **2008**, 26, 901-9	3.8	32

33	Influence of endothelial progenitor cells and platelet gel on tissue-engineered bone ectopically in goats. *Tissue Engineering - Part A*, **2009**, 15, 3669-77	3.9	30
32	Three-Dimensional Fiber Deposition of Cell-Laden, Viable, Patterned Constructs for Bone Tissue Printing. *Tissue Engineering*, **2008**, 14, 127-133		29
31	A pseudosubstrate peptide inhibits protein kinase C-mediated phosphorylation in permeabilized Rat-1 cells. *FEBS Letters*, **1990**, 261, 147-50	3.8	22
30	Non-viral gene therapy for bone tissue engineering. *Biotechnology and Genetic Engineering Reviews*, **2013**, 29, 206-20	4.1	21
29	Suppression of the immune system as a critical step for bone formation from allogeneic osteoprogenitors implanted in rats. *Journal of Cellular and Molecular Medicine*, **2014**, 18, 134-42	5.6	20
28	Phosphate Functional Groups Improve Oligo[(Polyethylene Glycol) Fumarate] Osteoconduction and BMP-2 Osteoinductive Efficacy. *Tissue Engineering - Part A*, **2018**, 24, 819-829	3.9	19
27	Neutrophils Inhibit Synthesis of Mineralized Extracellular Matrix by Human Bone Marrow-Derived Stromal Cells. *Frontiers in Immunology*, **2018**, 9, 945	8.4	19
26	Tuning the degradation rate of calcium phosphate cements by incorporating mixtures of polylactic-co-glycolic acid microspheres and glucono-delta-lactone microparticles. *Tissue Engineering - Part A*, **2014**, 20, 2870-82	3.9	19
25	Hypoxia impedes vasculogenesis of in vitro engineered bone. *Tissue Engineering - Part A*, **2012**, 18, 208-18	3.9	19
24	Endosteal and Perivascular Subniches in a 3D Bone Marrow Model for Multiple Myeloma. *Tissue Engineering - Part C: Methods*, **2018**, 24, 300-312	2.9	18
23	Differences in potency of CXC chemokine ligand 8-, CC chemokine ligand 11-, and C5a-induced modulation of integrin function on human eosinophils. *Journal of Immunology*, **2005**, 175, 6092-9	5.3	18
22	A Human Hematopoietic Niche Model Supporting Hematopoietic Stem and Progenitor Cells In Vitro. *Advanced Healthcare Materials*, **2019**, 8, e1801444	10.1	17
21	The osteoinductive potential of printable, cell-laden hydrogel-ceramic composites. *Journal of Biomedical Materials Research - Part A*, **2012**, 100, 2412-20	5.4	17
20	Secondary structure at the 3Rterminal region of RNA coliphages: comparison with tRNA. *Biochimica Et Biophysica Acta Gene Regulatory Mechanisms*, **1990**, 1050, 110-8		16
19	Osteophilic properties of bone implant surface modifications in a cassette model on a decorticated goat spinal transverse process. *Acta Biomaterialia*, **2016**, 37, 195-205	10.8	16
18	Orthotopic location has limited benefit from allogeneic or autologous multipotent stromal cells seeded on ceramic scaffolds. *Tissue Engineering - Part A*, **2009**, 15, 3231-9	3.9	15
17	CXCL12/stromal-cell-derived factor-1 effectively replaces endothelial progenitor cells to induce vascularized ectopic bone. *Stem Cells and Development*, **2014**, 23, 2950-8	4.4	14
16	Histological characteristics of diffuse idiopathic skeletal hyperostosis. *Journal of Orthopaedic Research*, **2017**, 35, 140-146	3.8	13

List of Publications

15	Bone morphogenetic protein-2 plasmid DNA as a substitute for bone morphogenetic protein-2 protein in bone tissue engineering. *Tissue Engineering - Part A*, **2013**, 19, 2686-92	3.9	13
14	Bone morphogenetic protein-2 nonviral gene therapy in a goat iliac crest model for bone formation. *Tissue Engineering - Part A*, **2015**, 21, 1672-9	3.9	12
13	Relating cell proliferation to in vivo bone formation in porous Ca/P scaffolds. *Journal of Biomedical Materials Research - Part A*, **2010**, 92, 303-10	5.4	12
12	Comparing various off-the-shelf methods for bone tissue engineering in a large-animal ectopic implantation model: bone marrow, allogeneic bone marrow stromal cells, and platelet gel. *Tissue Engineering - Part A*, **2008**, 14, 1435-43	3.9	12
11	Establishment of an Early Vascular Network Promotes the Formation of Ectopic Bone. *Tissue Engineering - Part A*, **2016**, 22, 253-62	3.9	10
10	BMP-2 gene delivery in cell-loaded and cell-free constructs for bone regeneration. *PLoS ONE*, **2019**, 14, e0220028	3.7	10
9	Inflammation-Induced Osteogenesis in a Rabbit Tibia Model. *Tissue Engineering - Part C: Methods*, **2017**, 23, 673-685	2.9	10
8	Stromal cell-derived factor-1 stimulates cell recruitment, vascularization and osteogenic differentiation. *Tissue Engineering - Part A*, **2014**, 20, 466-73	3.9	8
7	Liposomal drug delivery in an in vitro 3D bone marrow model for multiple myeloma. *International Journal of Nanomedicine*, **2018**, 13, 8105-8118	7.3	7
6	The Osteoinductive Effect of Controlled Bone Morphogenic Protein 2 Release Is Location Dependent. *Tissue Engineering - Part A*, **2019**, 25, 193-202	3.9	4
5	Growth plate expression profiling: Large and small breed dogs provide new insights in endochondral bone formation. *Journal of Orthopaedic Research*, **2018**, 36, 138-148	3.8	3
4	Osteoinduction by Ex Vivo Nonviral Bone Morphogenetic Protein Gene Delivery Is Independent of Cell Type. *Tissue Engineering - Part A*, **2018**, 24, 1423-1431	3.9	3
3	Possibilities and limitations of an three-dimensional bone marrow model for the prediction of clinical responses in patients with relapsed multiple myeloma. *Haematologica*, **2019**, 104, e523-e526	6.6	2
2	Use of Therapeutic Pathogen Recognition Receptor Ligands for Osteo-Immunomodulation. *Materials*, **2021**, 14,	3.5	2
1	The Added Value of the "Co" in Co-Culture Systems in Research on Osteoarthritis Pathology and Treatment Development.. *Frontiers in Bioengineering and Biotechnology*, **2022**, 10, 843056	5.8	