

# Susanna Miettinen

## List of Publications by Citations

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83

papers

3,305

citations

30

h-index

56

g-index

84

ext. papers

3,768

ext. citations

5.1

avg, IF

5.16

L-index

#	Paper	IF	Citations
83	Novel maxillary reconstruction with ectopic bone formation by GMP adipose stem cells. <i>International Journal of Oral and Maxillofacial Surgery</i> , <b>2009</b> , 38, 201-9	2.9	346
82	The potential of adipose stem cells in regenerative medicine. <i>Stem Cell Reviews and Reports</i> , <b>2011</b> , 7, 269-91	6.4	332
81	Serum-free, xeno-free culture media maintain the proliferation rate and multipotentiality of adipose stem cells in vitro. <i>Cytotherapy</i> , <b>2009</b> , 11, 958-72	4.8	155
80	Human stem cell based corneal tissue mimicking structures using laser-assisted 3D bioprinting and functional bioinks. <i>Biomaterials</i> , <b>2018</b> , 171, 57-71	15.6	151
79	Adipose stem cells used to reconstruct 13 cases with cranio-maxillofacial hard-tissue defects. <i>Stem Cells Translational Medicine</i> , <b>2014</b> , 3, 530-40	6.9	144
78	Cranioplasty with adipose-derived stem cells and biomaterial: a novel method for cranial reconstruction. <i>Neurosurgery</i> , <b>2011</b> , 68, 1535-40	3.2	142
77	Adipose stem cell tissue-engineered construct used to treat large anterior mandibular defect: a case report and review of the clinical application of good manufacturing practice-level adipose stem cells for bone regeneration. <i>Journal of Oral and Maxillofacial Surgery</i> , <b>2013</b> , 71, 938-50	1.8	116
76	Characterization of zinc-releasing three-dimensional bioactive glass scaffolds and their effect on human adipose stem cell proliferation and osteogenic differentiation. <i>Acta Biomaterialia</i> , <b>2009</b> , 5, 3122-31	10.8	109
75	Growth and osteogenic differentiation of adipose stem cells on PLA/bioactive glass and PLA/beta-TCP scaffolds. <i>Tissue Engineering - Part A</i> , <b>2009</b> , 15, 1473-80	3.9	96
74	Development of fully defined xeno-free culture system for the preparation and propagation of cell therapy-compliant human adipose stem cells. <i>Stem Cell Research and Therapy</i> , <b>2013</b> , 4, 27	8.3	87
73	Effects of different serum conditions on osteogenic differentiation of human adipose stem cells in vitro. <i>Stem Cell Research and Therapy</i> , <b>2013</b> , 4, 17	8.3	83
72	Wood-based nanocellulose and bioactive glass modified gelatin-alginate bioinks for 3D bioprinting of bone cells. <i>Biofabrication</i> , <b>2019</b> , 11, 035010	10.5	78
71	Differential gene expression in adipose stem cells cultured in allogeneic human serum versus fetal bovine serum. <i>Tissue Engineering - Part A</i> , <b>2010</b> , 16, 2281-94	3.9	68
70	Tissue adhesive hyaluronic acid hydrogels for sutureless stem cell delivery and regeneration of corneal epithelium and stroma. <i>Biomaterials</i> , <b>2019</b> , 225, 119516	15.6	65
69	The effects of vibration loading on adipose stem cell number, viability and differentiation towards bone-forming cells. <i>Journal of the Royal Society Interface</i> , <b>2011</b> , 8, 1736-47	4.1	63
68	Bioactive glass ions as strong enhancers of osteogenic differentiation in human adipose stem cells. <i>Acta Biomaterialia</i> , <b>2015</b> , 21, 190-203	10.8	60
67	Autologous adipose stem cells in treatment of female stress urinary incontinence: results of a pilot study. <i>Stem Cells Translational Medicine</i> , <b>2014</b> , 3, 936-41	6.9	55

66	Influence of oxytetracycline and oxolinic acid on the immune response of rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>Fish and Shellfish Immunology</i> , <b>1998</b> , 8, 217-230	4.3	50
65	Vitamin D and prostate cancer. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>2001</b> , 76, 125-34	5.1	49
64	Perspectives for Clinical Translation of Adipose Stromal/Stem Cells. <i>Stem Cells International</i> , <b>2019</b> , 2019, 5858247	5	47
63	Calcium phosphate surface treatment of bioactive glass causes a delay in early osteogenic differentiation of adipose stem cells. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2009</b> , 91, 540-7	5.4	45
62	Osteogenic medium is superior to growth factors in differentiation of human adipose stem cells towards bone-forming cells in 3D culture. <i>European Cells and Materials</i> , <b>2013</b> , 25, 144-58	4.3	44
61	Fat tissue: views on reconstruction and exploitation. <i>Journal of Craniofacial Surgery</i> , <b>2007</b> , 18, 325-35	1.2	43
60	Hydrazone crosslinked hyaluronan-based hydrogels for therapeutic delivery of adipose stem cells to treat corneal defects. <i>Materials Science and Engineering C</i> , <b>2018</b> , 85, 68-78	8.3	37
59	Bone Morphogenetic Protein-2 Induces Donor-Dependent Osteogenic and Adipogenic Differentiation in Human Adipose Stem Cells. <i>Stem Cells Translational Medicine</i> , <b>2015</b> , 4, 1391-402	6.9	37
58	Effect of florfenicol on the immune response of rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>Veterinary Immunology and Immunopathology</i> , <b>1999</b> , 67, 317-25	2	35
57	Human Adipose Stem Cells Differentiated on Braided Polylactide Scaffolds Is a Potential Approach for Tendon Tissue Engineering. <i>Tissue Engineering - Part A</i> , <b>2016</b> , 22, 513-23	3.9	33
56	Role of 24-hydroxylase in vitamin D3 growth response of OVCAR-3 ovarian cancer cells. <i>International Journal of Cancer</i> , <b>2004</b> , 108, 367-73	7.5	33
55	Direct laser writing and geometrical analysis of scaffolds with designed pore architecture for three-dimensional cell culturing. <i>Journal of Micromechanics and Microengineering</i> , <b>2012</b> , 22, 115016	2	32
54	Different culture conditions modulate the immunological properties of adipose stem cells. <i>Stem Cells Translational Medicine</i> , <b>2014</b> , 3, 1220-30	6.9	31
53	Cranioplasty with Adipose-Derived Stem Cells, Beta-Tricalcium Phosphate Granules and Supporting Mesh: Six-Year Clinical Follow-Up Results. <i>Stem Cells Translational Medicine</i> , <b>2017</b> , 6, 1576-1582	6.9	30
52	Monocyte-derived extracellular vesicles stimulate cytokine secretion and gene expression of matrix metalloproteinases by mesenchymal stem/stromal cells. <i>FEBS Journal</i> , <b>2018</b> , 285, 2337-2359	5.7	28
51	Differentiation of adipose stem cells seeded towards annulus fibrosus cells on a designed poly(trimethylene carbonate) scaffold prepared by stereolithography. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2017</b> , 11, 2752-2762	4.4	28
50	Comparison of a poly-L-lactide-co-ε-caprolactone and human amniotic membrane for urothelium tissue engineering applications. <i>Journal of the Royal Society Interface</i> , <b>2011</b> , 8, 671-7	4.1	28
49	Characterizing and optimizing poly-L-lactide-co-ε-caprolactone membranes for urothelial tissue engineering. <i>Journal of the Royal Society Interface</i> , <b>2012</b> , 9, 3444-54	4.1	28

48	Combined Adipose Tissue-Derived Mesenchymal Stem Cell Therapy and Rehabilitation in Experimental Stroke. <i>Frontiers in Neurology</i> , <b>2019</b> , 10, 235	4.1	27
47	Vitamin D induced up-regulation of keratinocyte growth factor (FGF-7/KGF) in MCF-7 human breast cancer cells. <i>Biochemical and Biophysical Research Communications</i> , <b>2000</b> , 273, 675-80	3.4	26
46	Development and characterization of poly( $\epsilon$ -caprolactone) hollow fiber membranes for vascular tissue engineering. <i>Journal of Membrane Science</i> , <b>2013</b> , 438, 29-37	9.6	25
45	The effect of equiaxial stretching on the osteogenic differentiation and mechanical properties of human adipose stem cells. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2017</b> , 72, 38-48	4.1	22
44	Bioactive glass induced osteogenic differentiation of human adipose stem cells is dependent on cell attachment mechanism and mitogen-activated protein kinases. <i>European Cells and Materials</i> , <b>2018</b> , 35, 54-72	4.3	22
43	Human dental pulp stem cells differentiate into neural precursors but not into mature functional neurons. <i>Stem Cell Discovery</i> , <b>2012</b> , 02, 85-91	0.5	21
42	Adipose stromal cell tubule network model provides a versatile tool for vascular research and tissue engineering. <i>Cells Tissues Organs</i> , <b>2012</b> , 196, 385-97	2.1	20
41	The effect of S53P4-based borosilicate glasses and glass dissolution products on the osteogenic commitment of human adipose stem cells. <i>PLoS ONE</i> , <b>2018</b> , 13, e0202740	3.7	20
40	Focal Adhesion Kinase and ROCK Signaling Are Switch-Like Regulators of Human Adipose Stem Cell Differentiation towards Osteogenic and Adipogenic Lineages. <i>Stem Cells International</i> , <b>2018</b> , 2018, 2190857	5.5	19
39	Comparison of Poly(l-lactide-co- $\epsilon$ -caprolactone) and Poly(trimethylene carbonate) Membranes for Urethral Regeneration: An In Vitro and In Vivo Study. <i>Tissue Engineering - Part A</i> , <b>2018</b> , 24, 117-127	3.9	18
38	Bioactive glass ions induce efficient osteogenic differentiation of human adipose stem cells encapsulated in gellan gum and collagen type I hydrogels. <i>Materials Science and Engineering C</i> , <b>2019</b> , 99, 905-918	8.3	17
37	Effects of Macromolecular Crowding on Human Adipose Stem Cell Culture in Fetal Bovine Serum, Human Serum, and Defined Xeno-Free/Serum-Free Conditions. <i>Stem Cells International</i> , <b>2017</b> , 2017, 6909163	5.1	17
36	Addition of BMP-2 or BMP-6 to dexamethasone, ascorbic acid, and $\beta$ -glycerophosphate may not enhance osteogenic differentiation of human periodontal ligament cells. <i>Growth Factors</i> , <b>2010</b> , 28, 437-46	1.6	15
35	Functional Outcome of Human Adipose Stem Cell Injections in Rat Anal Sphincter Acute Injury Model. <i>Stem Cells Translational Medicine</i> , <b>2018</b> , 7, 295-304	6.9	14
34	Bone healing in rabbit calvarial critical-sized defects filled with stem cells and growth factors combined with granular or solid scaffolds. <i>Child's Nervous System</i> , <b>2016</b> , 32, 681-8	1.7	14
33	Effects of chitosan and bioactive glass modifications of knitted and rolled polylactide-based 96/4 L/D scaffolds on chondrogenic differentiation of adipose stem cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2015</b> , 9, 55-65	4.4	14
32	Exogenously added BMP-6, BMP-7 and VEGF may not enhance the osteogenic differentiation of human adipose stem cells. <i>Growth Factors</i> , <b>2013</b> , 31, 141-53	1.6	14
31	Knitted 3D Scaffolds of Polybutylene Succinate Support Human Mesenchymal Stem Cell Growth and Osteogenesis. <i>Stem Cells International</i> , <b>2018</b> , 2018, 5928935	5	14

30	Biotin-dependent functions in adiposity: a study of monozygotic twin pairs. <i>International Journal of Obesity</i> , <b>2016</b> , 40, 788-95	5.5	13
29	Optical non-contact pH measurement in cell culture with sterilizable, modular parts. <i>Talanta</i> , <b>2016</b> , 161, 755-761	6.2	13
28	Nanofibrillar cellulose wound dressing supports the growth and characteristics of human mesenchymal stem/stromal cells without cell adhesion coatings. <i>Stem Cell Research and Therapy</i> , <b>2019</b> , 10, 292	8.3	12
27	Inhibition of P-glycoprotein-mediated docetaxel efflux sensitizes ovarian cancer cells to concomitant docetaxel and SN-38 exposure. <i>Anti-Cancer Drugs</i> , <b>2009</b> , 20, 267-76	2.4	12
26	3D Scaffolds of Polycaprolactone/Copper-Doped Bioactive Glass: Architecture Engineering with Additive Manufacturing and Cellular Assessments in a Coculture of Bone Marrow Stem Cells and Endothelial Cells. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 4496-4510	5.5	11
25	A durable and biocompatible ascorbic acid-based covalent coating method of polydimethylsiloxane for dynamic cell culture. <i>Journal of the Royal Society Interface</i> , <b>2017</b> , 14,	4.1	11
24	Concomitant exposure of ovarian cancer cells to docetaxel, CPT-11 or SN-38 and adenovirus-mediated p53 gene therapy. <i>Anti-Cancer Drugs</i> , <b>2009</b> , 20, 589-600	2.4	10
23	Materials and Orthopedic Applications for Bioresorbable Inductively Coupled Resonance Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 31148-31161	9.5	9
22	Design of modular gellan gum hydrogel functionalized with avidin and biotinylated adhesive ligands for cell culture applications. <i>PLoS ONE</i> , <b>2019</b> , 14, e0221931	3.7	7
21	Co-culture of human induced pluripotent stem cell-derived retinal pigment epithelial cells and endothelial cells on double collagen-coated honeycomb films. <i>Acta Biomaterialia</i> , <b>2020</b> , 101, 327-343	10.8	7
20	Porous poly-l-lactide-co-e-caprolactone scaffold: a novel biomaterial for vaginal tissue engineering. <i>Royal Society Open Science</i> , <b>2018</b> , 5, 180811	3.3	7
19	Evaluation of scaffold microstructure and comparison of cell seeding methods using micro-computed tomography-based tools. <i>Journal of the Royal Society Interface</i> , <b>2020</b> , 17, 20200102	4.1	5
18	Cell adhesion and culture medium dependent changes in the high frequency mechanical vibration induced proliferation, osteogenesis, and intracellular organization of human adipose stem cells. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2020</b> , 101, 103419	4.1	5
17	Oxygen-Glucose Deprivation-Induced Stroke Models with Human Neuroblastoma Cell- and Induced Pluripotent Stem Cell-Derived Neurons. <i>Stem Cells International</i> , <b>2020</b> , 2020, 8841026	5	4
16	Effect of Surface Morphology of Poly(?-caprolactone) Scaffolds on Adipose Stem Cell Adhesion and Proliferation. <i>Macromolecular Symposia</i> , <b>2013</b> , 334, 126-132	0.8	4
15	Bioactive glass ions for in vitro osteogenesis and microvascularization in gellan gum-collagen hydrogels. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2020</b> , 108, 1332-1342	3.5	4
14	Pluronic Micelle-Mediated Tissue Factor Silencing Enhances Hemocompatibility, Stemness, Differentiation Potential, and Paracrine Signaling of Mesenchymal Stem Cells. <i>Biomacromolecules</i> , <b>2021</b> , 22, 1980-1989	6.9	4
13	Monitoring pH, temperature and humidity in long-term stem cell culture in CO2 incubator <b>2017</b> ,		3

12	Characterisation and in vitro and in vivo evaluation of supercritical-CO <sub>2</sub> -foamed $\beta$ -TCP/PLCL composites for bone applications. <i>European Cells and Materials</i> , <b>2019</b> , 38, 35-50	4.3	3
11	A tube-source X-ray microtomography approach for quantitative 3D microscopy of optically challenging cell-cultured samples. <i>Communications Biology</i> , <b>2020</b> , 3, 548	6.7	3
10	S53P4 Bioactive Glass Inorganic Ions for Vascularized Bone Tissue Engineering by Dental Pulp Pluripotent-Like Stem Cell Cocultures. <i>Tissue Engineering - Part A</i> , <b>2019</b> , 25, 1213-1224	3.9	3
9	Vasculogenic Potency of Bone Marrow- and Adipose Tissue-Derived Mesenchymal Stem/Stromal Cells Results in Differing Vascular Network Phenotypes in a Microfluidic Chip.. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2022</b> , 10, 764237	5.8	2
8	Myocardin-Related Transcription Factor A (MRTF-A) Regulates the Balance between Adipogenesis and Osteogenesis of Human Adipose Stem Cells. <i>Stem Cells International</i> , <b>2020</b> , 2020, 8853541	5	2
7	Diopside-tricalcium phosphate bioactive ceramics for osteogenic differentiation of human adipose stem cells. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2020</b> , 108, 819-833	3.5	1
6	Additive Behavioral Improvement after Combined Cell Therapy and Rehabilitation Despite Long-Term Microglia Presence in Stroke Rats. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	1
5	Retrieval of the conductivity spectrum of tissues with novel multimodal tomography. <i>Physics in Medicine and Biology</i> , <b>2021</b> , 66,	3.8	1
4	In-vitro dissolution characteristics and human adipose stem cell response to novel borophosphate glasses. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2019</b> , 107, 2099-2114	5.4	0
3	Evaluation of the effect of donor weight on adipose stromal/stem cell characteristics by using weight-discordant monozygotic twin pairs. <i>Stem Cell Research and Therapy</i> , <b>2021</b> , 12, 516	8.3	0
2	Safety, Efficacy, and Regulation of Mesenchymal Stromal/Stem Cells <b>2019</b> , 141-157		
1	Preventing White Adipocyte Browning during Differentiation : The Effect of Differentiation Protocols on Metabolic and Mitochondrial Phenotypes.. <i>Stem Cells International</i> , <b>2022</b> , 2022, 3308194	5	