

# Susanna Miettinen

## List of Publications by Year in descending order

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84  
papers

4,322  
citations

117625

34  
h-index

114465

63  
g-index

84  
all docs

84  
docs citations

84  
times ranked

5888  
citing authors

#	ARTICLE	IF	CITATIONS
1	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> , 2022, 10, 764237.	4.1	11
2	Preventing White Adipocyte Browning during Differentiation In Vitro: The Effect of Differentiation Protocols on Metabolic and Mitochondrial Phenotypes. <i>Stem Cells International</i> , 2022, 2022, 1-21.	2.5	2
3	Growth Response and Differentiation of Bone Marrow-Derived Mesenchymal Stem/Stromal Cells in the Presence of Novel Multiple Myeloma Drug Melflufen. <i>Cells</i> , 2022, 11, 1574.	4.1	2
4	Additive Behavioral Improvement after Combined Cell Therapy and Rehabilitation Despite Long-Term Microglia Presence in Stroke Rats. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1512.	4.1	10
5	Pluronic Micelle-Mediated Tissue Factor Silencing Enhances Hemocompatibility, Stemness, Differentiation Potential, and Paracrine Signaling of Mesenchymal Stem Cells. <i>Biomacromolecules</i> , 2021, 22, 1980-1989.	5.4	9
6	Retrieval of the conductivity spectrum of tissues in vitro with novel multimodal tomography. <i>Physics in Medicine and Biology</i> , 2021, 66, .	3.0	2
7	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> , 2021, 12, 516.	5.5	15
8	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> , 2020, 101, 103419.	3.1	9
9	Diopside-calcium phosphate bioactive ceramics for osteogenic differentiation of human adipose stem cells. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 819-833.	3.4	4
10	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> , 2020, 101, 327-343.	8.3	18
11	Bioactive glass ions for <i>in vitro</i> osteogenesis and microvascularization in gellan gum-collagen hydrogels. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 1332-1342.	3.4	11
12	Myocardin-Related Transcription Factor A (MRTF-A) Regulates the Balance between Adipogenesis and Osteogenesis of Human Adipose Stem Cells. <i>Stem Cells International</i> , 2020, 2020, 1-17.	2.5	7
13	A tube-source X-ray microtomography approach for quantitative 3D microscopy of optically challenging cell-cultured samples. <i>Communications Biology</i> , 2020, 3, 548.	4.4	6
14	In Vitro Oxygen-Glucose Deprivation-Induced Stroke Models with Human Neuroblastoma Cell- and Induced Pluripotent Stem Cell-Derived Neurons. <i>Stem Cells International</i> , 2020, 2020, 1-13.	2.5	14
15	Materials and Orthopedic Applications for Bioresorbable Inductively Coupled Resonance Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 31148-31161.	8.0	17
16	Evaluation of scaffold microstructure and comparison of cell seeding methods using micro-computed tomography-based tools. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20200102.	3.4	13
17	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> , 2019, 5, 4496-4510.	5.2	25
18	Design of modular gellan gum hydrogel functionalized with avidin and biotinylated adhesive ligands for cell culture applications. <i>PLoS ONE</i> , 2019, 14, e0221931.	2.5	10

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19	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> , 2019, 10, 292.	5.5	21
20	Tissue adhesive hyaluronic acid hydrogels for sutureless stem cell delivery and regeneration of corneal epithelium and stroma. <i>Biomaterials</i> , 2019, 225, 119516.	11.4	127
21	Perspectives for Clinical Translation of Adipose Stromal/Stem Cells. <i>Stem Cells International</i> , 2019, 2019, 1-21.	2.5	73
22	In vitro dissolution characteristics and human adipose stem cell response to novel borophosphate glasses. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 2099-2114.	4.0	4
23	Combined Adipose Tissue-Derived Mesenchymal Stem Cell Therapy and Rehabilitation in Experimental Stroke. <i>Frontiers in Neurology</i> , 2019, 10, 235.	2.4	38
24	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> , 2019, 99, 905-918.	7.3	38
25	Wood-based nanocellulose and bioactive glass modified gelatin alginate bioinks for 3D bioprinting of bone cells. <i>Biofabrication</i> , 2019, 11, 035010.	7.1	125
26	S53P4 Bioactive Glass Inorganic Ions for Vascularized Bone Tissue Engineering by Dental Pulp Pluripotent-Like Stem Cell Cocultures. <i>Tissue Engineering - Part A</i> , 2019, 25, 1213-1224.	3.1	7
27	Characterisation and in vitro and in vivo evaluation of supercritical-CO <sub>2</sub> -foamed $\beta$ -TCP/PLCL composites for bone applications. , 2019, 38, 35-50.		8
28	Safety, Efficacy, and Regulation of Mesenchymal Stromal/Stem Cells. , 2019, , 141-157.		0
29	Human stem cell based corneal tissue mimicking structures using laser-assisted 3D bioprinting and functional bioinks. <i>Biomaterials</i> , 2018, 171, 57-71.	11.4	242
30	Hydrazone crosslinked hyaluronan-based hydrogels for therapeutic delivery of adipose stem cells to treat corneal defects. <i>Materials Science and Engineering C</i> , 2018, 85, 68-78.	7.3	48
31	Functional Outcome of Human Adipose Stem Cell Injections in Rat Anal Sphincter Acute Injury Model. <i>Stem Cells Translational Medicine</i> , 2018, 7, 295-304.	3.3	18
32	Comparison of Poly(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> , 2018, 24, 117-127.	3.1	26
33	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> , 2018, 2018, 1-13.	2.5	31
34	Porous poly(lactide-co- $\epsilon$ -caprolactone) scaffold: a novel biomaterial for vaginal tissue engineering. <i>Royal Society Open Science</i> , 2018, 5, 180811.	2.4	17
35	The effect of S53P4-based borosilicate glasses and glass dissolution products on the osteogenic commitment of human adipose stem cells. <i>PLoS ONE</i> , 2018, 13, e0202740.	2.5	44
36	Knitted 3D Scaffolds of Polybutylene Succinate Support Human Mesenchymal Stem Cell Growth and Osteogenesis. <i>Stem Cells International</i> , 2018, 2018, 1-11.	2.5	19

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37	Monocyte-derived extracellular vesicles stimulate cytokine secretion and gene expression of matrix metalloproteinases by mesenchymal stem/stromal cells. <i>FEBS Journal</i> , 2018, 285, 2337-2359.	4.7	40
38	Bioactive glass induced osteogenic differentiation of human adipose stem cells is dependent on cell attachment mechanism and mitogen-activated protein kinases. , 2018, 35, 54-72.		34
39	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> , 2017, 72, 38-48.	3.1	24
40	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> , 2017, 6, 1576-1582.	3.3	40
41	Monitoring pH, temperature and humidity in long-term stem cell culture in CO <sub>2</sub> incubator. , 2017, , .		9
42	A durable and biocompatible ascorbic acid-based covalent coating method of polydimethylsiloxane for dynamic cell culture. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170318.	3.4	15
43	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> , 2017, 11, 2752-2762.	2.7	33
44	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> , 2017, 2017, 1-14.	2.5	23
45	Optical non-contact pH measurement in cell culture with sterilizable, modular parts. <i>Talanta</i> , 2016, 161, 755-761.	5.5	15
46	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> , 2016, 32, 681-688.	1.1	20
47	Human Adipose Stem Cells Differentiated on Braided Polylactide Scaffolds Is a Potential Approach for Tendon Tissue Engineering. <i>Tissue Engineering - Part A</i> , 2016, 22, 513-523.	3.1	43
48	Biotin-dependent functions in adiposity: a study of monozygotic twin pairs. <i>International Journal of Obesity</i> , 2016, 40, 788-795.	3.4	16
49	Bone Morphogenetic Protein-2 Induces Donor-Dependent Osteogenic and Adipogenic Differentiation in Human Adipose Stem Cells. <i>Stem Cells Translational Medicine</i> , 2015, 4, 1391-1402.	3.3	46
50	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> , 2015, 9, 55-65.	2.7	17
51	Bioactive glass ions as strong enhancers of osteogenic differentiation in human adipose stem cells. <i>Acta Biomaterialia</i> , 2015, 21, 190-203.	8.3	76
52	Adipose Stem Cells Used to Reconstruct 13 Cases With Cranio-Maxillofacial Hard-Tissue Defects. <i>Stem Cells Translational Medicine</i> , 2014, 3, 530-540.	3.3	164
53	Different Culture Conditions Modulate the Immunological Properties of Adipose Stem Cells. <i>Stem Cells Translational Medicine</i> , 2014, 3, 1220-1230.	3.3	38
54	Autologous Adipose Stem Cells in Treatment of Female Stress Urinary Incontinence: Results of a Pilot Study. <i>Stem Cells Translational Medicine</i> , 2014, 3, 936-941.	3.3	75

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55	Effects of different serum conditions on osteogenic differentiation of human adipose stem cells in vitro. <i>Stem Cell Research and Therapy</i> , 2013, 4, 17.	5.5	102
56	Development and characterization of poly( $\epsilon$ -caprolactone) hollow fiber membranes for vascular tissue engineering. <i>Journal of Membrane Science</i> , 2013, 438, 29-37.	8.2	29
57	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> , 2013, 71, 938-950.	1.2	141
58	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> , 2013, 4, 27.	5.5	102
59	Exogenously added BMP-6, BMP-7 and VEGF may not enhance the osteogenic differentiation of human adipose stem cells. <i>Growth Factors</i> , 2013, 31, 141-153.	1.7	15
60	Effect of Surface Morphology of Poly( $\epsilon$ -caprolactone) Scaffolds on Adipose Stem Cell Adhesion and Proliferation. <i>Macromolecular Symposia</i> , 2013, 334, 126-132.	0.7	5
61	Osteogenic medium is superior to growth factors in differentiation of human adipose stem cells towards bone-forming cells in 3D culture. , 2013, 25, 144-158.		50
62	Characterizing and optimizing poly- $\epsilon$ -lactide-co- $\epsilon$ -caprolactone membranes for urothelial tissue engineering. <i>Journal of the Royal Society Interface</i> , 2012, 9, 3444-3454.	3.4	35
63	Direct laser writing and geometrical analysis of scaffolds with designed pore architecture for three-dimensional cell culturing. <i>Journal of Micromechanics and Microengineering</i> , 2012, 22, 115016.	2.6	36
64	Adipose Stromal Cell Tubule Network Model Provides a Versatile Tool for Vascular Research and Tissue Engineering. <i>Cells Tissues Organs</i> , 2012, 196, 385-397.	2.3	29
65	Human dental pulp stem cells differentiate into neural precursors but not into mature functional neurons. <i>Stem Cell Discovery</i> , 2012, 02, 85-91.	0.5	26
66	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> , 2011, 8, 1736-1747.	3.4	76
67	Cranioplasty With Adipose-Derived Stem Cells and Biomaterial: A Novel Method for Cranial Reconstruction. <i>Neurosurgery</i> , 2011, 68, 1535-1540.	1.1	163
68	The Potential of Adipose Stem Cells in Regenerative Medicine. <i>Stem Cell Reviews and Reports</i> , 2011, 7, 269-291.	5.6	386
69	Comparison of a poly- $\epsilon$ -lactide-co- $\epsilon$ -caprolactone and human amniotic membrane for urothelium tissue engineering applications. <i>Journal of the Royal Society Interface</i> , 2011, 8, 671-677.	3.4	33
70	Differential Gene Expression in Adipose Stem Cells Cultured in Allogeneic Human Serum Versus Fetal Bovine Serum. <i>Tissue Engineering - Part A</i> , 2010, 16, 2281-2294.	3.1	82
71	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> , 2010, 28, 437-446.	1.7	20
72	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> , 2009, 91A, 540-547.	4.0	52

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73	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> , 2009, 5, 3122-3131.	8.3	129
74	Growth and Osteogenic Differentiation of Adipose Stem Cells on PLA/Bioactive Glass and PLA/ $\beta$ -TCP Scaffolds. <i>Tissue Engineering - Part A</i> , 2009, 15, 1473-1480.	3.1	110
75	Novel maxillary reconstruction with ectopic bone formation by GMP adipose stem cells. <i>International Journal of Oral and Maxillofacial Surgery</i> , 2009, 38, 201-209.	1.5	414
76	Serum-free, xeno-free culture media maintain the proliferation rate and multipotentiality of adipose stem cells in vitro. <i>Cytotherapy</i> , 2009, 11, 958-972.	0.7	185
77	Inhibition of P-glycoprotein-mediated docetaxel efflux sensitizes ovarian cancer cells to concomitant docetaxel and SN-38 exposure. <i>Anti-Cancer Drugs</i> , 2009, 20, 267-276.	1.4	13
78	Concomitant exposure of ovarian cancer cells to docetaxel, CPT-11 or SN-38 and adenovirus-mediated p53 gene therapy. <i>Anti-Cancer Drugs</i> , 2009, 20, 589-600.	1.4	12
79	Fat Tissue. <i>Journal of Craniofacial Surgery</i> , 2007, 18, 325-335.	0.7	49
80	Role of 24-hydroxylase in vitamin D <sub>3</sub> growth response of OVCAR-3 ovarian cancer cells. <i>International Journal of Cancer</i> , 2004, 108, 367-373.	5.1	36
81	Vitamin D and prostate cancer. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2001, 76, 125-134.	2.5	57
82	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> , 2000, 273, 675-680.	2.1	30
83	Effect of florfenicol on the immune response of rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>Veterinary Immunology and Immunopathology</i> , 1999, 67, 317-325.	1.2	44
84	Influence of oxytetracycline and oxolinic acid on the immune response of rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>Fish and Shellfish Immunology</i> , 1998, 8, 217-230.	3.6	62