

Susanna Miettinen

List of Publications by Year in descending order

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84
papers

4,322
citations

117453

34
h-index

114278

63
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84
all docs

84
docs citations

84
times ranked

5888
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	0.7	414
2	The Potential of Adipose Stem Cells in Regenerative Medicine. <i>Stem Cell Reviews and Reports</i> , 2011, 7, 269-291.	5.6	386
3	Human stem cell based corneal tissue mimicking structures using laser-assisted 3D bioprinting and functional bioinks. <i>Biomaterials</i> , 2018, 171, 57-71.	5.7	242
4	Serum-free, xeno-free culture media maintain the proliferation rate and multipotentiality of adipose stem cells in vitro. <i>Cytherapy</i> , 2009, 11, 958-972.	0.3	185
5	Adipose Stem Cells Used to Reconstruct 13 Cases With Cranio-Maxillofacial Hard-Tissue Defects. <i>Stem Cells Translational Medicine</i> , 2014, 3, 530-540.	1.6	164
6	Cranioplasty With Adipose-Derived Stem Cells and Biomaterial: A Novel Method for Cranial Reconstruction. <i>Neurosurgery</i> , 2011, 68, 1535-1540.	0.6	163
7	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.	0.5	141
8	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.	4.1	129
9	Tissue adhesive hyaluronic acid hydrogels for sutureless stem cell delivery and regeneration of corneal epithelium and stroma. <i>Biomaterials</i> , 2019, 225, 119516.	5.7	127
10	Wood-based nanocellulose and bioactive glass modified gelatin-alginate bioinks for 3D bioprinting of bone cells. <i>Biofabrication</i> , 2019, 11, 035010.	3.7	125
11	Growth and Osteogenic Differentiation of Adipose Stem Cells on PLA/Bioactive Glass and PLA/TCP Scaffolds. <i>Tissue Engineering - Part A</i> , 2009, 15, 1473-1480.	1.6	110
12	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.	2.4	102
13	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.	2.4	102
14	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.	1.6	82
15	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.	1.5	76
16	Bioactive glass ions as strong enhancers of osteogenic differentiation in human adipose stem cells. <i>Acta Biomaterialia</i> , 2015, 21, 190-203.	4.1	76
17	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.	1.6	75
18	Perspectives for Clinical Translation of Adipose Stromal/Stem Cells. <i>Stem Cells International</i> , 2019, 2019, 1-21.	1.2	73

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19	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.	1.6	62
20	Vitamin D and prostate cancer. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2001, 76, 125-134.	1.2	57
21	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.	2.1	52
22	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
23	Fat Tissue. <i>Journal of Craniofacial Surgery</i> , 2007, 18, 325-335.	0.3	49
24	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.	3.8	48
25	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.	1.6	46
26	Effect of florfenicol on the immune response of rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Veterinary Immunology and Immunopathology</i> , 1999, 67, 317-325.	0.5	44
27	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.	1.1	44
28	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.	1.6	43
29	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.	1.6	40
30	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.	2.2	40
31	Different Culture Conditions Modulate the Immunological Properties of Adipose Stem Cells. <i>Stem Cells Translational Medicine</i> , 2014, 3, 1220-1230.	1.6	38
32	Combined Adipose Tissue-Derived Mesenchymal Stem Cell Therapy and Rehabilitation in Experimental Stroke. <i>Frontiers in Neurology</i> , 2019, 10, 235.	1.1	38
33	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.	3.8	38
34	Role of 24-hydroxylase in vitamin D3 growth response of OVCAR-3 ovarian cancer cells. <i>International Journal of Cancer</i> , 2004, 108, 367-373.	2.3	36
35	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.	1.5	36
36	Characterizing and optimizing poly- ϵ-lactide-co- <math>\mu< <i="" engineering.="" for="" math>-caprolactone="" membranes="" tissue="" urothelial="">Journal of the Royal Society Interface, 2012, 9, 3444-3454.</math>\mu<>	1.5	35

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37	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
38	Comparison of a poly- ϵ -lactide-co- ϵ -caprolactone and human amniotic membrane for urothelium tissue engineering applications. Journal of the Royal Society Interface, 2011, 8, 671-677.	1.5	33
39	Differentiation of adipose stem cells seeded towards annulus fibrosus cells on a designed poly(trimethylene carbonate) scaffold prepared by stereolithography. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 2752-2762.	1.3	33
40	Focal Adhesion Kinase and ROCK Signaling Are Switch-Like Regulators of Human Adipose Stem Cell Differentiation towards Osteogenic and Adipogenic Lineages. Stem Cells International, 2018, 2018, 1-13.	1.2	31
41	Vitamin D Induced Up-Regulation of Keratinocyte Growth Factor (FGF-7/KGF) in MCF-7 Human Breast Cancer Cells. Biochemical and Biophysical Research Communications, 2000, 273, 675-680.	1.0	30
42	Adipose Stromal Cell Tubule Network Model Provides a Versatile Tool for Vascular Research and Tissue Engineering. Cells Tissues Organs, 2012, 196, 385-397.	1.3	29
43	Development and characterization of poly(ϵ -caprolactone) hollow fiber membranes for vascular tissue engineering. Journal of Membrane Science, 2013, 438, 29-37.	4.1	29
44	Comparison of Poly(ϵ -lactide-co- ϵ -caprolactone) and Poly(trimethylene carbonate) Membranes for Urethral Regeneration: An <i>In Vitro</i> and <i>In Vivo</i> Study. Tissue Engineering - Part A, 2018, 24, 117-127.	1.6	26
45	Human dental pulp stem cells differentiate into neural precursors but not into mature functional neurons. Stem Cell Discovery, 2012, 02, 85-91.	0.5	26
46	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. ACS Biomaterials Science and Engineering, 2019, 5, 4496-4510.	2.6	25
47	The effect of equiaxial stretching on the osteogenic differentiation and mechanical properties of human adipose stem cells. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 72, 38-48.	1.5	24
48	Effects of Macromolecular Crowding on Human Adipose Stem Cell Culture in Fetal Bovine Serum, Human Serum, and Defined Xeno-Free/Serum-Free Conditions. Stem Cells International, 2017, 2017, 1-14.	1.2	23
49	Nanofibrillar cellulose wound dressing supports the growth and characteristics of human mesenchymal stem/stromal cells without cell adhesion coatings. Stem Cell Research and Therapy, 2019, 10, 292.	2.4	21
50	Addition of BMP-2 or BMP-6 to dexamethasone, ascorbic acid, and β -glycerophosphate may not enhance osteogenic differentiation of human periodontal ligament cells. Growth Factors, 2010, 28, 437-446.	0.5	20
51	Bone healing in rabbit calvarial critical-sized defects filled with stem cells and growth factors combined with granular or solid scaffolds. Child's Nervous System, 2016, 32, 681-688.	0.6	20
52	Knitted 3D Scaffolds of Polybutylene Succinate Support Human Mesenchymal Stem Cell Growth and Osteogenesis. Stem Cells International, 2018, 2018, 1-11.	1.2	19
53	Functional Outcome of Human Adipose Stem Cell Injections in Rat Anal Sphincter Acute Injury Model. Stem Cells Translational Medicine, 2018, 7, 295-304.	1.6	18
54	Co-culture of human induced pluripotent stem cell-derived retinal pigment epithelial cells and endothelial cells on double collagen-coated honeycomb films. Acta Biomaterialia, 2020, 101, 327-343.	4.1	18

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55	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.	1.3	17
56	Porous poly- ϵ -lactide-co- ϵ -caprolactone scaffold: a novel biomaterial for vaginal tissue engineering. <i>Royal Society Open Science</i> , 2018, 5, 180811.	1.1	17
57	Materials and Orthopedic Applications for Bioresorbable Inductively Coupled Resonance Sensors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 31148-31161.	4.0	17
58	Biotin-dependent functions in adiposity: a study of monozygotic twin pairs. <i>International Journal of Obesity</i> , 2016, 40, 788-795.	1.6	16
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.	0.5	15
60	Optical non-contact pH measurement in cell culture with sterilizable, modular parts. <i>Talanta</i> , 2016, 161, 755-761.	2.9	15
61	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.	1.5	15
62	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.	2.4	15
63	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.	1.2	14
64	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.	0.7	13
65	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.	1.5	13
66	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.	0.7	12
67	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.	1.6	11
68	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.	2.0	11
69	Design of modular gellan gum hydrogel functionalized with avidin and biotinylated adhesive ligands for cell culture applications. <i>PLoS ONE</i> , 2019, 14, e0221931.	1.1	10
70	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.	1.8	10
71	Monitoring pH, temperature and humidity in long-term stem cell culture in CO ₂ incubator. , 2017, , .		9
72	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.	1.5	9

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73	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.	2.6	9
74	Characterisation and in vitro and in vivo evaluation of supercritical-CO2-foamed β -TCP/PLCL composites for bone applications. , 2019, 38, 35-50.		8
75	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.	1.6	7
76	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.	1.2	7
77	A tube-source X-ray microtomography approach for quantitative 3D microscopy of optically challenging cell-cultured samples. <i>Communications Biology</i> , 2020, 3, 548.	2.0	6
78	Effect of Surface Morphology of Poly(ϵ -caprolactone) Scaffolds on Adipose Stem Cell Adhesion and Proliferation. <i>Macromolecular Symposia</i> , 2013, 334, 126-132.	0.4	5
79	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.	2.1	4
80	Diopside-tricalcium 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.	1.6	4
81	Retrieval of the conductivity spectrum of tissues in vitro with novel multimodal tomography. <i>Physics in Medicine and Biology</i> , 2021, 66, .	1.6	2
82	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.	1.2	2
83	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.	1.8	2
84	Safety, Efficacy, and Regulation of Mesenchymal Stromal/Stem Cells. , 2019, , 141-157.		0