

Laura Ylä-Ahola-Outinen

List of Publications by Year in descending order

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29
papers

786
citations

567281

15
h-index

526287

27
g-index

29
all docs

29
docs citations

29
times ranked

1056
citing authors

#	ARTICLE	IF	CITATIONS
1	Bidirectional cell-matrix interaction dictates neuronal network formation in a brain-mimetic 3D scaffold. <i>Acta Biomaterialia</i> , 2022, 140, 314-323.	8.3	13
2	Comparative microelectrode array data of the functional development of hPSC-derived and rat neuronal networks. <i>Scientific Data</i> , 2022, 9, 120.	5.3	7
3	Novel method to produce a layered 3D scaffold for human pluripotent stem cell-derived neuronal cells. <i>Journal of Neuroscience Methods</i> , 2021, 350, 109043.	2.5	10
4	Carbon nanotube micropillars trigger guided growth of complex human neural stem cells networks. <i>Nano Research</i> , 2019, 12, 2894-2899.	10.4	27
5	Screening of Hydrogels for Human Pluripotent Stem Cell-Derived Neural Cells: Hyaluronan-Polyvinyl Alcohol-Collagen-Based Interpenetrating Polymer Network Provides an Improved Hydrogel Scaffold. <i>Macromolecular Bioscience</i> , 2019, 19, e1900096.	4.1	16
6	Advances in Human Stem Cell-Derived Neuronal Cell Culturing and Analysis. <i>Advances in Neurobiology</i> , 2019, 22, 299-329.	1.8	7
7	Functional characterization of human pluripotent stem cell-derived cortical networks differentiated on laminin-521 substrate: comparison to rat cortical cultures. <i>Scientific Reports</i> , 2019, 9, 17125.	3.3	77
8	Effects of inflammatory cytokines IFN- γ , TNF- α and IL-6 on the viability and functionality of human pluripotent stem cell-derived neural cells. <i>Journal of Neuroimmunology</i> , 2019, 331, 36-45.	2.3	16
9	Soft hydrazone crosslinked hyaluronan- and alginate-based hydrogels as 3D supportive matrices for human pluripotent stem cell-derived neuronal cells. <i>Reactive and Functional Polymers</i> , 2018, 124, 29-39.	4.1	25
10	Ion Beam Assisted E-Beam Deposited TiN Microelectrodes Applied to Neuronal Cell Culture Medium Evaluation. <i>Frontiers in Neuroscience</i> , 2018, 12, 882.	2.8	18
11	GABA and Gap Junctions in the Development of Synchronized Activity in Human Pluripotent Stem Cell-Derived Neural Networks. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 56.	3.7	17
12	Texture-property relations of bioamine crosslinked gellan gum hydrogels. <i>IFMBE Proceedings</i> , 2018, , 189-192.	0.3	0
13	Cell culture chamber with gas supply for prolonged recording of human neuronal cells on microelectrode array. <i>Journal of Neuroscience Methods</i> , 2017, 280, 27-35.	2.5	22
14	Bioamine-crosslinked gellan gum hydrogel for neural tissue engineering. <i>Biomedical Materials (Bristol)</i> , 2017, 12, 025014.	3.3	61
15	Optimised PDMS Tunnel Devices on MEAs Increase the Probability of Detecting Electrical Activity from Human Stem Cell-Derived Neuronal Networks. <i>Frontiers in Neuroscience</i> , 2017, 11, 606.	2.8	16
16	Simulation of developing human neuronal cell networks. <i>BioMedical Engineering OnLine</i> , 2016, 15, 105.	2.7	6
17	Joint analysis of extracellular spike waveforms and neuronal network bursts. <i>Journal of Neuroscience Methods</i> , 2016, 259, 143-155.	2.5	10
18	Three-dimensional growth matrix for human embryonic stem cell-derived neuronal cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2014, 8, 186-194.	2.7	39

#	ARTICLE	IF	CITATIONS
19	Healthy human CSF promotes glial differentiation of hESC-derived neural cells while retaining spontaneous activity in existing neuronal networks. <i>Biology Open</i> , 2013, 2, 605-612.	1.2	11
20	Atomic layer deposited iridium oxide thin film as microelectrode coating in stem cell applications. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2012, 30, .	2.1	11
21	Burst analysis tool for developing neuronal networks exhibiting highly varying action potential dynamics. <i>Frontiers in Computational Neuroscience</i> , 2012, 6, 38.	2.1	62
22	Two-photon microfabrication of poly(ethylene glycol) diacrylate and a novel biodegradable photopolymer—comparison of processability for biomedical applications. <i>Polymers for Advanced Technologies</i> , 2012, 23, 992-1001.	3.2	19
23	Structured PDMS Chambers for Enhanced Human Neuronal Cell Activity on MEA Platforms. <i>Journal of Bionic Engineering</i> , 2012, 9, 1-10.	5.0	29
24	All Titanium Microelectrode Array for Field Potential Measurements from Neurons and Cardiomyocytes—A Feasibility Study. <i>Micromachines</i> , 2011, 2, 394-409.	2.9	7
25	A capillary pH electrode for evaluating long term culturing of neural cell populations. <i>Procedia Engineering</i> , 2010, 5, 544-547.	1.2	1
26	Human cell-based micro electrode array platform for studying neurotoxicity. <i>Frontiers in Neuroengineering</i> , 2010, 3, .	4.8	74
27	Similarly derived and cultured hESC lines show variation in their developmental potential towards neuronal cells in long-term culture. <i>Regenerative Medicine</i> , 2010, 5, 749-762.	1.7	66
28	Electrospun Poly(L,D-lactide) Scaffolds Support the Growth of Human Embryonic Stem Cell-derived Neuronal Cells—2009-08-26–2009-11-30–2010-02-12–!. <i>The Open Tissue Engineering and Regenerative Medicine Journal</i> , 2010, 3, 1-9.	2.6	6
29	Human embryonic stem cell-derived neuronal cells form spontaneously active neuronal networks in vitro. <i>Experimental Neurology</i> , 2009, 218, 109-116.	4.1	113