

Edwin S Monuki

List of Publications by Year in descending order

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73
papers

5,897
citations

126708

33
h-index

106150

65
g-index

79
all docs

79
docs citations

79
times ranked

8358
citing authors

#	ARTICLE	IF	CITATIONS
1	Human neural stem cell growth and differentiation in a gradient-generating microfluidic device. Lab on A Chip, 2005, 5, 401.	3.1	501
2	Expression of Cux-1 and Cux-2 in the subventricular zone and upper layers II-IV of the cerebral cortex. Journal of Comparative Neurology, 2004, 479, 168-180.	0.9	461
3	Development and functions of the choroid plexusâ€“cerebrospinal fluid system. Nature Reviews Neuroscience, 2015, 16, 445-457.	4.9	418
4	SCIP: A glial POU domain gene regulated by cyclic AMP. Neuron, 1989, 3, 783-793.	3.8	305
5	Lhx2 Selector Activity Specifies Cortical Identity and Suppresses Hippocampal Organizer Fate. Science, 2008, 319, 304-309.	6.0	288
6	Patterning of the Dorsal Telencephalon and Cerebral Cortex by a Roof Plate-Lhx2 Pathway. Neuron, 2001, 32, 591-604.	3.8	268
7	Dielectrophoresis switching with vertical sidewall electrodes for microfluidic flow cytometry. Lab on A Chip, 2007, 7, 1114.	3.1	258
8	Regulation of human neural precursor cells by laminin and integrins. Journal of Neuroscience Research, 2006, 83, 845-856.	1.3	240
9	Genome sequencing analysis identifies new loci associated with Lewy body dementia and provides insights into its genetic architecture. Nature Genetics, 2021, 53, 294-303.	9.4	198
10	Imaging of Effector Memory T Cells during a Delayed-Type Hypersensitivity Reaction and Suppression by Kv1.3 Channel Block. Immunity, 2008, 29, 602-614.	6.6	197
11	Unique Dielectric Properties Distinguish Stem Cells and Their Differentiated Progeny. Stem Cells, 2008, 26, 656-665.	1.4	185
12	The roof plate regulates cerebellar cell-type specification and proliferation. Development (Cambridge), 2006, 133, 2793-2804.	1.2	180
13	The Choroid Plexus and Cerebrospinal Fluid: Emerging Roles in Development, Disease, and Therapy. Journal of Neuroscience, 2013, 33, 17553-17559.	1.7	151
14	Spatially Heterogeneous Choroid Plexus Transcriptomes Encode Positional Identity and Contribute to Regional CSF Production. Journal of Neuroscience, 2015, 35, 4903-4916.	1.7	138
15	Dual frequency dielectrophoresis with interdigitated sidewall electrodes for microfluidic flowâ€“through separation of beads and cells. Electrophoresis, 2009, 30, 782-791.	1.3	132
16	Lmx1a regulates fates and location of cells originating from the cerebellar rhombic lip and telencephalic cortical hem. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10725-10730.	3.3	132
17	Mechanisms of cerebral cortical patterning in mice and humans. Nature Neuroscience, 2001, 4, 1199-1206.	7.1	130
18	Direct and indirect roles of CNS dorsal midline cells in choroid plexus epithelia formation. Development (Cambridge), 2005, 132, 3549-3559.	1.2	109

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19	Genetic Ablation of the CDP/Cux Protein C Terminus Results in Hair Cycle Defects and Reduced Male Fertility. <i>Molecular and Cellular Biology</i> , 2002, 22, 1424-1437.	1.1	98
20	Central Roles of the Roof Plate in Telencephalic Development and Holoprosencephaly. <i>Journal of Neuroscience</i> , 2006, 26, 7640-7649.	1.7	96
21	Transcription factor Lhx2 is necessary and sufficient to suppress astrogliogenesis and promote neurogenesis in the developing hippocampus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E265-74.	3.3	94
22	Repression of the myelin P0 gene by the POU transcription factor SCIP. <i>Mechanisms of Development</i> , 1993, 42, 15-32.	1.7	92
23	Lhx2 links the intrinsic and extrinsic factors that control optic cup formation. <i>Development (Cambridge)</i> , 2009, 136, 3895-3906.	1.2	92
24	Cooperative interactions enable singular olfactory receptor expression in mouse olfactory neurons. <i>ELife</i> , 2017, 6, .	2.8	90
25	Injury-independent induction of reactive gliosis in retina by loss of function of the LIM homeodomain transcription factor Lhx2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 4657-4662.	3.3	86
26	BMP4 Sufficiency to Induce Choroid Plexus Epithelial Fate from Embryonic Stem Cell-Derived Neuroepithelial Progenitors. <i>Journal of Neuroscience</i> , 2012, 32, 15934-15945.	1.7	69
27	Lhx2 Balances Progenitor Maintenance with Neurogenic Output and Promotes Competence State Progression in the Developing Retina. <i>Journal of Neuroscience</i> , 2013, 33, 12197-12207.	1.7	67
28	The Morphogen Signaling Network in Forebrain Development and Holoprosencephaly. <i>Journal of Neuropathology and Experimental Neurology</i> , 2007, 66, 566-575.	0.9	60
29	Principles and mechanisms of regeneration in the mouse model for wound-induced hair follicle neogenesis. <i>Regeneration (Oxford, England)</i> , 2015, 2, 169-181.	6.3	57
30	Lhx2 regulates a cortex-specific mechanism for barrel formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E4913-21.	3.3	55
31	HuCNS-SC Human NSCs Fail to Differentiate, Form Ectopic Clusters, and Provide No Cognitive Benefits in a Transgenic Model of Alzheimer's Disease. <i>Stem Cell Reports</i> , 2017, 8, 235-248.	2.3	50
32	A hybrid microfluidic-vacuum device for direct interfacing with conventional cell culture methods. <i>BMC Biotechnology</i> , 2007, 7, 60.	1.7	49
33	β-Catenin Signaling Levels in Progenitors Influence the Laminal Cell Fates of Projection Neurons. <i>Journal of Neuroscience</i> , 2009, 29, 13710-13719.	1.7	41
34	Cell Surface N-Glycans Influence Electrophysiological Properties and Fate Potential of Neural Stem Cells. <i>Stem Cell Reports</i> , 2018, 11, 869-882.	2.3	35
35	Proliferation of Cultured Mouse Choroid Plexus Epithelial Cells. <i>PLoS ONE</i> , 2015, 10, e0121738.	1.1	34
36	Cell-specific action and mutable structure of a transcription factor effector domain.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993, 90, 9978-9982.	3.3	32

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37	Increasing Human Neural Stem Cell Transplantation Dose Alters Oligodendroglial and Neuronal Differentiation after Spinal Cord Injury. <i>Stem Cell Reports</i> , 2017, 8, 1534-1548.	2.3	30
38	Bmp Indicator Mice Reveal Dynamic Regulation of Transcriptional Response. <i>PLoS ONE</i> , 2012, 7, e42566.	1.1	29
39	A BMP-FGF Morphogen Toggle Switch Drives the Ultrasensitive Expression of Multiple Genes in the Developing Forebrain. <i>PLoS Computational Biology</i> , 2014, 10, e1003463.	1.5	29
40	Culture of Mouse Neural Stem Cell Precursors. <i>Journal of Visualized Experiments</i> , 2007, , 152.	0.2	27
41	Co-factors of LIM domains (Clm3/Ldb/Nli) regulate corneal homeostasis and maintenance of hair follicle stem cells. <i>Developmental Biology</i> , 2007, 312, 484-500.	0.9	25
42	Border formation in a Bmp gradient reduced to single dissociated cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 3398-3403.	3.3	25
43	IKK β slows Huntington's disease progression in R6/1 mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10952-10961.	3.3	23
44	Systems healthcare: a holistic paradigm for tomorrow. <i>BMC Systems Biology</i> , 2017, 11, 142.	3.0	22
45	Agenesis of the Corpus Callosum Due to Defective Glial Wedge Formation in Lhx2 Mutant Mice. <i>Cerebral Cortex</i> , 2015, 25, 2707-2718.	1.6	21
46	Development and external validation of a prognostic tool for COVID-19 critical disease. <i>PLoS ONE</i> , 2020, 15, e0242953.	1.1	19
47	Effects of hematopoietic stem cell transplantation on acyl-CoA oxidase deficiency: a sibling comparison study. <i>Journal of Inherited Metabolic Disease</i> , 2014, 37, 791-799.	1.7	17
48	A novel, long-lived, and highly engraftable immunodeficient mouse model of mucopolysaccharidosis type I. <i>Molecular Therapy - Methods and Clinical Development</i> , 2015, 2, 14068.	1.8	14
49	A Bmp Reporter with Ultrasensitive Characteristics Reveals That High Bmp Signaling Is Not Required for Cortical Hem Fate. <i>PLoS ONE</i> , 2012, 7, e44009.	1.1	13
50	Nicotine Acts on Cholinergic Signaling Mechanisms to Directly Modulate Choroid Plexus Function. <i>ENeuro</i> , 2019, 6, ENEURO.0051-19.2019.	0.9	13
51	SPECIES DIFFERENCES IN EARLY PATTERNING OF THE AVIAN BRAIN. <i>Evolution; International Journal of Organic Evolution</i> , 2011, 65, 907-911.	1.1	12
52	Impact of donor age and weaning status on pancreatic exocrine and endocrine tissue maturation in pigs. <i>Xenotransplantation</i> , 2015, 22, 356-367.	1.6	10
53	BMP4 acts as a dorsal telencephalic morphogen in a mouse embryonic stem cell culture system. <i>Biology Open</i> , 2016, 5, 1834-1843.	0.6	9
54	Accurate, strong, and stable reporting of choroid plexus epithelial cells in transgenic mice using a human transthyretin BAC. <i>Fluids and Barriers of the CNS</i> , 2018, 15, 22.	2.4	9

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55	Expression and Activity of the Transcription Factor SCIP during Glial Differentiation and Myelination. Annals of the New York Academy of Sciences, 1991, 633, 189-195.	1.8	8
56	Development of a MEMS microsystem to study the effect of mechanical tension on cerebral cortex neurogenesis. , 2004, 2004, 2607-10.		7
57	Proto-mapping the areas of cerebral cortex: transcription factors make the grade. Nature Neuroscience, 2000, 3, 640-641.	7.1	6
58	Response to StemCells Inc.. Stem Cell Reports, 2017, 8, 195-197.	2.3	6
59	Infection prevention strategies are highly protective in COVID-19 units while main risks to healthcare professionals come from coworkers and the community. Antimicrobial Resistance and Infection Control, 2021, 10, 163.	1.5	6
60	Flash Freezing and Cryosectioning E12.5 Mouse Brain. Journal of Visualized Experiments, 2007, , 198.	0.2	4
61	Rapid Genotyping of Mouse Tissue Using Sigma's Extract-N-Amp Tissue PCR Kit. Journal of Visualized Experiments, 2008, , .	0.2	4
62	Morphogens, patterning centers, and their mechanisms of action. , 2020, , 3-21.		4
63	Transcriptional Controls Underlying Schwann Cell Differentiation and Myelination. Annals of the New York Academy of Sciences, 1990, 605, 248-253.	1.8	3
64	Semi-adaptive response and noise attenuation in bone morphogenetic protein signalling. Journal of the Royal Society Interface, 2015, 12, 20150258.	1.5	3
65	RNA Extraction from Neuroprecursor Cells Using the Bio-Rad Total RNA Kit. Journal of Visualized Experiments, 2007, , 405.	0.2	1
66	Growth Factor-Coated Bead Placement on Dorsal Forebrain Explants. Journal of Visualized Experiments, 2007, , 134.	0.2	1
67	Serous carcinomatous component championed by heparin-binding EGF-like growth factor (HB-EGF) predisposing to metastasis and recurrence in stage I uterine malignant mixed mullerian tumor. Human Pathology, 2016, 53, 159-167.	1.1	1
68	Design and Fabrication of Vertical Electrodes in Microchannels for Particles/cells Sorting by Dielectrophoresis. , 2006, , .		0
69	Mouse Dorsal Forebrain Explant Isolation. Journal of Visualized Experiments, 2007, , 135.	0.2	0
70	Development and external validation of a prognostic tool for COVID-19 critical disease. , 2020, 15, e0242953.		0
71	Development and external validation of a prognostic tool for COVID-19 critical disease. , 2020, 15, e0242953.		0
72	Development and external validation of a prognostic tool for COVID-19 critical disease. , 2020, 15, e0242953.		0

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73	Development and external validation of a prognostic tool for COVID-19 critical disease. , 2020, 15, e0242953.		0