

Edwin S Monuki

List of Publications by Year in descending order

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73
papers

5,897
citations

126907

33
h-index

106344

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. <i>Lab on A Chip</i> , 2005, 5, 401.	6.0	501
2	Expression of Cux ¹ and Cux ² in the subventricular zone and upper layers II-IV of the cerebral cortex. <i>Journal of Comparative Neurology</i> , 2004, 479, 168-180.	1.6	461
3	Development and functions of the choroid plexus-cerebrospinal fluid system. <i>Nature Reviews Neuroscience</i> , 2015, 16, 445-457.	10.2	418
4	SCIP: A glial POU domain gene regulated by cyclic AMP. <i>Neuron</i> , 1989, 3, 783-793.	8.1	305
5	Lhx2 Selector Activity Specifies Cortical Identity and Suppresses Hippocampal Organizer Fate. <i>Science</i> , 2008, 319, 304-309.	12.6	288
6	Patterning of the Dorsal Telencephalon and Cerebral Cortex by a Roof Plate-Lhx2 Pathway. <i>Neuron</i> , 2001, 32, 591-604.	8.1	268
7	Dielectrophoresis switching with vertical sidewall electrodes for microfluidic flow cytometry. <i>Lab on A Chip</i> , 2007, 7, 1114.	6.0	258
8	Regulation of human neural precursor cells by laminin and integrins. <i>Journal of Neuroscience Research</i> , 2006, 83, 845-856.	2.9	240
9	Genome sequencing analysis identifies new loci associated with Lewy body dementia and provides insights into its genetic architecture. <i>Nature Genetics</i> , 2021, 53, 294-303.	21.4	198
10	Imaging of Effector Memory T Cells during a Delayed-Type Hypersensitivity Reaction and Suppression by Kv1.3 Channel Block. <i>Immunity</i> , 2008, 29, 602-614.	14.3	197
11	Unique Dielectric Properties Distinguish Stem Cells and Their Differentiated Progeny. <i>Stem Cells</i> , 2008, 26, 656-665.	3.2	185
12	The roof plate regulates cerebellar cell-type specification and proliferation. <i>Development (Cambridge)</i> , 2006, 133, 2793-2804.	2.5	180
13	The Choroid Plexus and Cerebrospinal Fluid: Emerging Roles in Development, Disease, and Therapy. <i>Journal of Neuroscience</i> , 2013, 33, 17553-17559.	3.6	151
14	Spatially Heterogeneous Choroid Plexus Transcriptomes Encode Positional Identity and Contribute to Regional CSF Production. <i>Journal of Neuroscience</i> , 2015, 35, 4903-4916.	3.6	138
15	Dual frequency dielectrophoresis with interdigitated sidewall electrodes for microfluidic flow-through separation of beads and cells. <i>Electrophoresis</i> , 2009, 30, 782-791.	2.4	132
16	Lmx1a regulates fates and location of cells originating from the cerebellar rhombic lip and telencephalic cortical hem. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10725-10730.	7.1	132
17	Mechanisms of cerebral cortical patterning in mice and humans. <i>Nature Neuroscience</i> , 2001, 4, 1199-1206.	14.8	130
18	Direct and indirect roles of CNS dorsal midline cells in choroid plexus epithelia formation. <i>Development (Cambridge)</i> , 2005, 132, 3549-3559.	2.5	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.	2.3	98
20	Central Roles of the Roof Plate in Telencephalic Development and Holoprosencephaly. <i>Journal of Neuroscience</i> , 2006, 26, 7640-7649.	3.6	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.	7.1	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.	2.5	92
24	Cooperative interactions enable singular olfactory receptor expression in mouse olfactory neurons. <i>ELife</i> , 2017, 6, .	6.0	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.	7.1	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.	3.6	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.	3.6	67
28	The Morphogen Signaling Network in Forebrain Development and Holoprosencephaly. <i>Journal of Neuropathology and Experimental Neurology</i> , 2007, 66, 566-575.	1.7	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.	7.1	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.	4.8	50
32	A hybrid microfluidic-vacuum device for direct interfacing with conventional cell culture methods. <i>BMC Biotechnology</i> , 2007, 7, 60.	3.3	49
33	Wnt-Catenin Signaling Levels in Progenitors Influence the Laminal Cell Fates of Projection Neurons. <i>Journal of Neuroscience</i> , 2009, 29, 13710-13719.	3.6	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.	4.8	35
35	Proliferation of Cultured Mouse Choroid Plexus Epithelial Cells. <i>PLoS ONE</i> , 2015, 10, e0121738.	2.5	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.	7.1	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.	4.8	30
38	Bmp Indicator Mice Reveal Dynamic Regulation of Transcriptional Response. <i>PLoS ONE</i> , 2012, 7, e42566.	2.5	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.	3.2	29
40	Culture of Mouse Neural Stem Cell Precursors. <i>Journal of Visualized Experiments</i> , 2007, , 152.	0.3	27
41	Co-factors of LIM domains (Clm1/Ldb/Nli) regulate corneal homeostasis and maintenance of hair follicle stem cells. <i>Developmental Biology</i> , 2007, 312, 484-500.	2.0	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.	7.1	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.	7.1	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.	2.9	21
46	Development and external validation of a prognostic tool for COVID-19 critical disease. <i>PLoS ONE</i> , 2020, 15, e0242953.	2.5	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.	3.6	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.	4.1	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.	2.5	13
50	Nicotine Acts on Cholinergic Signaling Mechanisms to Directly Modulate Choroid Plexus Function. <i>ENeuro</i> , 2019, 6, ENEURO.0051-19.2019.	1.9	13
51	SPECIES DIFFERENCES IN EARLY PATTERNING OF THE AVIAN BRAIN. <i>Evolution; International Journal of Organic Evolution</i> , 2011, 65, 907-911.	2.3	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.	2.8	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.	1.2	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.	5.0	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.	3.8	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.	14.8	6
58	Response to StemCells Inc.. Stem Cell Reports, 2017, 8, 195-197.	4.8	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.	4.1	6
60	Flash Freezing and Cryosectioning E12.5 Mouse Brain. Journal of Visualized Experiments, 2007, , 198.	0.3	4
61	Rapid Genotyping of Mouse Tissue Using Sigma's Extract-N-Amp Tissue PCR Kit. Journal of Visualized Experiments, 2008, , .	0.3	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.	3.8	3
64	Semi-adaptive response and noise attenuation in bone morphogenetic protein signalling. Journal of the Royal Society Interface, 2015, 12, 20150258.	3.4	3
65	RNA Extraction from Neuroprecursor Cells Using the Bio-Rad Total RNA Kit. Journal of Visualized Experiments, 2007, , 405.	0.3	1
66	Growth Factor-Coated Bead Placement on Dorsal Forebrain Explants. Journal of Visualized Experiments, 2007, , 134.	0.3	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.	2.0	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.	0.3	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