

Fumitaka Osakada

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

5,133
citations

201674

27
h-index

189892

50
g-index

65
all docs

65
docs citations

65
times ranked

5653
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward the generation of rod and cone photoreceptors from mouse, monkey and human embryonic stem cells. <i>Nature Biotechnology</i> , 2008, 26, 215-224.	17.5	590
2	Generation of retinal cells from mouse and human induced pluripotent stem cells. <i>Neuroscience Letters</i> , 2009, 458, 126-131.	2.1	402
3	In vitro differentiation of retinal cells from human pluripotent stem cells by small-molecule induction. <i>Journal of Cell Science</i> , 2009, 122, 3169-3179.	2.0	393
4	Generation of Rx+/Pax6+ neural retinal precursors from embryonic stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 11331-11336.	7.1	331
5	Wnt Signaling Promotes Regeneration in the Retina of Adult Mammals. <i>Journal of Neuroscience</i> , 2007, 27, 4210-4219.	3.6	306
6	New Rabies Virus Variants for Monitoring and Manipulating Activity and Gene Expression in Defined Neural Circuits. <i>Neuron</i> , 2011, 71, 617-631.	8.1	296
7	A dedicated circuit links direction-selective retinal ganglion cells to the primary visual cortex. <i>Nature</i> , 2014, 507, 358-361.	27.8	279
8	Stepwise differentiation of pluripotent stem cells into retinal cells. <i>Nature Protocols</i> , 2009, 4, 811-824.	12.0	258
9	Design and generation of recombinant rabies virus vectors. <i>Nature Protocols</i> , 2013, 8, 1583-1601.	12.0	257
10	Distinct Hippocampal Pathways Mediate Dissociable Roles of Context in Memory Retrieval. <i>Cell</i> , 2016, 167, 961-972.e16.	28.9	226
11	Modeling Retinal Degeneration Using Patient-Specific Induced Pluripotent Stem Cells. <i>PLoS ONE</i> , 2011, 6, e17084.	2.5	204
12	Distributed and Mixed Information in Monosynaptic Inputs to Dopamine Neurons. <i>Neuron</i> , 2016, 91, 1374-1389.	8.1	195
13	Early Somatostatin Interneuron Connectivity Mediates the Maturation of Deep Layer Cortical Circuits. <i>Neuron</i> , 2016, 89, 521-535.	8.1	154
14	Afferent Inputs to Neurotransmitter-Defined Cell Types in the Ventral Tegmental Area. <i>Cell Reports</i> , 2016, 15, 2796-2808.	6.4	145
15	Î±-Tocotrienol provides the most potent neuroprotection among vitamin E analogs on cultured striatal neurons. <i>Neuropharmacology</i> , 2004, 47, 904-915.	4.1	121
16	Defining the Integration Capacity of Embryonic Stem Cell-Derived Photoreceptor Precursors. <i>Stem Cells</i> , 2012, 30, 1424-1435.	3.2	119
17	Neural conversion of ES cells by an inductive activity on human amniotic membrane matrix. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 9554-9559.	7.1	79
18	Targeted deletion of miR-182, an abundant retinal microRNA. <i>Molecular Vision</i> , 2009, 15, 523-33.	1.1	78

#	ARTICLE	IF	CITATIONS
19	Neuroprotective effects of α -tocopherol on oxidative stress in rat striatal cultures. <i>European Journal of Pharmacology</i> , 2003, 465, 15-22.	3.5	65
20	Dibutyl cyclic AMP induces differentiation of human neuroblastoma SH-SY5Y cells into a noradrenergic phenotype. <i>Neuroscience Letters</i> , 2008, 443, 199-203.	2.1	62
21	Imaging light responses of retinal ganglion cells in the living mouse eye. <i>Journal of Neurophysiology</i> , 2013, 109, 2415-2421.	1.8	61
22	Otx2/Homeobox Gene Induces Photoreceptor-Specific Phenotypes in Cells Derived from Adult Iris and Ciliary Tissue. , 2004, 45, 4570.		57
23	Isolation of a diterpenoid substance with potent neuroprotective activity from fetal calf serum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 3288-3293.	7.1	53
24	Diverse Representations of Olfactory Information in Centrifugal Feedback Projections. <i>Journal of Neuroscience</i> , 2016, 36, 7535-7545.	3.6	39
25	Intersectional monosynaptic tracing for dissecting subtype-specific organization of GABAergic interneuron inputs. <i>Nature Neuroscience</i> , 2019, 22, 492-502.	14.8	39
26	Centrifugal Inputs to the Main Olfactory Bulb Revealed Through Whole Brain Circuit-Mapping. <i>Frontiers in Neuroanatomy</i> , 2018, 12, 115.	1.7	39
27	Tracing of Afferent Connections in the Zebrafish Cerebellum Using Recombinant Rabies Virus. <i>Frontiers in Neural Circuits</i> , 2019, 13, 30.	2.8	38
28	Drug Development Targeting the Glycogen Synthase Kinase-3 β (GSK-3 β)-Mediated Signal Transduction Pathway: Targeting the Wnt Pathway and Transplantation Therapy as Strategies for Retinal Repair. <i>Journal of Pharmacological Sciences</i> , 2009, 109, 168-173.	2.5	29
29	Serofendic Acid, a Sulfur-Containing Diterpenoid Derived from Fetal Calf Serum, Attenuates Reactive Oxygen Species-Induced Oxidative Stress in Cultured Striatal Neurons. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2004, 311, 51-59.	2.5	28
30	Multiplex Neural Circuit Tracing With G-Deleted Rabies Viral Vectors. <i>Frontiers in Neural Circuits</i> , 2019, 13, 77.	2.8	28
31	Stem cell biology and cell transplantation therapy in the retina. <i>Biotechnology and Genetic Engineering Reviews</i> , 2009, 26, 297-334.	6.2	26
32	Neural Induction and Patterning in Mammalian Pluripotent Stem Cells. <i>CNS and Neurological Disorders - Drug Targets</i> , 2011, 10, 419-432.	1.4	24
33	Detection of localized retinal malfunction in retinal degeneration model using a multielectrode array system. <i>Journal of Neuroscience Research</i> , 2009, 87, 2175-2182.	2.9	22
34	Reproducible production and image-based quality evaluation of retinal pigment epithelium sheets from human induced pluripotent stem cells. <i>Scientific Reports</i> , 2020, 10, 14387.	3.3	18
35	Role of dynamic nuclear deformation on genomic architecture reorganization. <i>PLoS Computational Biology</i> , 2019, 15, e1007289.	3.2	17
36	Cell type- and layer-specific convergence in core and shell neurons of the dorsal lateral geniculate nucleus. <i>Journal of Comparative Neurology</i> , 2021, 529, 2099-2124.	1.6	9

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37	Challenges in Retinal Circuit Regeneration. Biological and Pharmaceutical Bulletin, 2015, 38, 341-357.	1.4	7
38	Temporally multiplexed dual-plane imaging of neural activity with four-dimensional precision. Neuroscience Research, 2021, 171, 9-18.	1.9	5
39	Monosynaptic rabies virus tracing from projection-targeted single neurons. Neuroscience Research, 2022, 178, 20-32.	1.9	5
40	Efficient and robust induction of retinal pigment epithelium cells by tankyrase inhibition regardless of the differentiation propensity of human induced pluripotent stem cells. Biochemical and Biophysical Research Communications, 2021, 552, 66-72.	2.1	4
41	Neurogenic potential of Mueller glia in the adult mammalian retina. Inflammation and Regeneration, 2007, 27, 499-505.	3.7	4
42	Control of neural differentiation from pluripotent stem cells. Inflammation and Regeneration, 2008, 28, 166-173.	3.7	4
43	Nuclear reprogramming to treat retinal degenerative diseases. Inflammation and Regeneration, 2011, 31, 33-49.	3.7	3
44	Fast z-focus controlling and multiplexing strategies for multiplane two-photon imaging of neural dynamics. Neuroscience Research, 2022, , .	1.9	2
45	Opening a New Era in Neural Circuit Research. Kagaku To Seibutsu, 2015, 53, 673-680.	0.0	1
46	Toward Regeneration of Retinal Function Using Pluripotent Stem Cells. , 2011, , 155-175.		0
47	New Rabies Virus Variants for Monitoring and Manipulating Activity and Gene Expression in Defined Neural Circuits. Neuron, 2012, 74, 206.	8.1	0
48	Toward the generation of thalamic organoids from human induced pluripotent stem cells. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2021, 94, 1-P1-24.	0.0	0
49	Cover Image, Volume 529, Issue 8. Journal of Comparative Neurology, 2021, 529, C1.	1.6	0
50	Stem Cells in the Developing and Adult Nervous System. , 2011, , 125-145.		0
51	Optical recording of the light response of ganglion cells in the living eye. , 2013, , .		0
52	Stem Cells in the Developing and Adult Nervous System. , 2013, , 129-152.		0