

# Takayuki Harada

## List of Publications by Citations

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78  
papers

3,632  
citations

35  
h-index

59  
g-index

81  
ext. papers

4,061  
ext. citations

7.2  
avg. IF

4.77  
L-index

#	Paper	IF	Citations
78	Intragenic deletion in the gene encoding ubiquitin carboxy-terminal hydrolase in gad mice. <i>Nature Genetics</i> , <b>1999</b> , 23, 47-51	36.3	405
77	Microglia-Müller glia cell interactions control neurotrophic factor production during light-induced retinal degeneration. <i>Journal of Neuroscience</i> , <b>2002</b> , 22, 9228-36	6.6	318
76	The potential role of glutamate transporters in the pathogenesis of normal tension glaucoma. <i>Journal of Clinical Investigation</i> , <b>2007</b> , 117, 1763-70	15.9	227
75	Functions of the two glutamate transporters GLAST and GLT-1 in the retina. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1998</b> , 95, 4663-6	11.5	199
74	Modification of glial-neuronal cell interactions prevents photoreceptor apoptosis during light-induced retinal degeneration. <i>Neuron</i> , <b>2000</b> , 26, 533-41	13.9	191
73	Neuroprotection, Growth Factors and BDNF-TrkB Signalling in Retinal Degeneration. <i>International Journal of Molecular Sciences</i> , <b>2016</b> , 17,	6.3	108
72	Regulation of the severity of neuroinflammation and demyelination by TLR-ASK1-p38 pathway. <i>EMBO Molecular Medicine</i> , <b>2010</b> , 2, 504-15	12	104
71	Role of apoptosis signal-regulating kinase 1 in stress-induced neural cell apoptosis in vivo. <i>American Journal of Pathology</i> , <b>2006</b> , 168, 261-9	5.8	95
70	Molecular regulation of visual system development: more than meets the eye. <i>Genes and Development</i> , <b>2007</b> , 21, 367-78	12.6	91
69	Potential role of glial cell line-derived neurotrophic factor receptors in Müller glial cells during light-induced retinal degeneration. <i>Neuroscience</i> , <b>2003</b> , 122, 229-35	3.9	91
68	Targeting Oxidative Stress for Treatment of Glaucoma and Optic Neuritis. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2017</b> , 2017, 2817252	6.7	81
67	ASK1 deficiency attenuates neural cell death in GLAST-deficient mice, a model of normal tension glaucoma. <i>Cell Death and Differentiation</i> , <b>2010</b> , 17, 1751-9	12.7	74
66	Glia- and neuron-specific functions of TrkB signalling during retinal degeneration and regeneration. <i>Nature Communications</i> , <b>2011</b> , 2, 189	17.4	74
65	Inhibition of ASK1-p38 pathway prevents neural cell death following optic nerve injury. <i>Cell Death and Differentiation</i> , <b>2013</b> , 20, 270-80	12.7	67
64	Role of ubiquitin carboxy terminal hydrolase-L1 in neural cell apoptosis induced by ischemic retinal injury in vivo. <i>American Journal of Pathology</i> , <b>2004</b> , 164, 59-64	5.8	67
63	Neurotrophin-3 is required for appropriate establishment of thalamocortical connections. <i>Neuron</i> , <b>2002</b> , 36, 623-34	13.9	66
62	Dock3 stimulates axonal outgrowth via GSK-3 $\beta$ -mediated microtubule assembly. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 264-74	6.6	64

61	Dock3 induces axonal outgrowth by stimulating membrane recruitment of the WAVE complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 7586-91	11.5	61
60	Glutamate transport by retinal Muller cells in glutamate/aspartate transporter-knockout mice. <i>Glia</i> , <b>2005</b> , 49, 184-96	9	57
59	Inhibition of glial cell activation ameliorates the severity of experimental autoimmune encephalomyelitis. <i>Neuroscience Research</i> , <b>2007</b> , 59, 457-66	2.9	54
58	Dock3 attenuates neural cell death due to NMDA neurotoxicity and oxidative stress in a mouse model of normal tension glaucoma. <i>Cell Death and Differentiation</i> , <b>2013</b> , 20, 1250-6	12.7	51
57	Spermidine promotes retinal ganglion cell survival and optic nerve regeneration in adult mice following optic nerve injury. <i>Cell Death and Disease</i> , <b>2015</b> , 6, e1720	9.8	50
56	Spermidine alleviates severity of murine experimental autoimmune encephalomyelitis <b>2011</b> , 52, 2696-703		47
55	Effect of p75NTR on the regulation of naturally occurring cell death and retinal ganglion cell number in the mouse eye. <i>Developmental Biology</i> , <b>2006</b> , 290, 57-65	3.1	47
54	Dock GEFs and their therapeutic potential: neuroprotection and axon regeneration. <i>Progress in Retinal and Eye Research</i> , <b>2014</b> , 43, 1-16	20.5	42
53	Effect of electrical stimulation on IGF-1 transcription by L-type calcium channels in cultured retinal Müller cells. <i>Japanese Journal of Ophthalmology</i> , <b>2008</b> , 52, 217-223	2.6	42
52	Valproic acid prevents retinal degeneration in a murine model of normal tension glaucoma. <i>Neuroscience Letters</i> , <b>2015</b> , 588, 108-13	3.3	40
51	Pim-2 kinase is an important target of treatment for tumor progression and bone loss in myeloma. <i>Leukemia</i> , <b>2015</b> , 29, 207-17	10.7	39
50	Valproic acid prevents NMDA-induced retinal ganglion cell death via stimulation of neuronal TrkB receptor signaling. <i>American Journal of Pathology</i> , <b>2015</b> , 185, 756-64	5.8	38
49	Spermidine Ameliorates Neurodegeneration in a Mouse Model of Normal Tension Glaucoma <b>2015</b> , 56, 5012-9		35
48	Renin-angiotensin system regulates neurodegeneration in a mouse model of normal tension glaucoma. <i>Cell Death and Disease</i> , <b>2014</b> , 5, e1333	9.8	35
47	Pharmacological detection of AMPA receptor heterogeneity by use of two allosteric potentiators in rat hippocampal cultures. <i>British Journal of Pharmacology</i> , <b>1998</b> , 123, 1294-303	8.6	35
46	Interleukin-1 stimulates glutamate uptake in glial cells by accelerating membrane trafficking of Na <sup>+</sup> /K <sup>+</sup> -ATPase via actin depolymerization. <i>Molecular and Cellular Biology</i> , <b>2008</b> , 28, 3273-80	4.8	35
45	Intracellular sortilin expression pattern regulates proNGF-induced naturally occurring cell death during development. <i>Cell Death and Differentiation</i> , <b>2007</b> , 14, 1552-4	12.7	35
44	Neurotrophic factor receptors in epiretinal membranes after human diabetic retinopathy. <i>Diabetes Care</i> , <b>2002</b> , 25, 1060-5	14.6	35

43	Brimonidine prevents neurodegeneration in a mouse model of normal tension glaucoma. <i>Cell Death and Disease</i> , <b>2014</b> , 5, e1341	9.8	34
42	Dock3 interaction with a glutamate-receptor NR2D subunit protects neurons from excitotoxicity. <i>Molecular Brain</i> , <b>2013</b> , 6, 22	4.5	33
41	ASK1 in neurodegeneration. <i>Advances in Biological Regulation</i> , <b>2017</b> , 66, 63-71	6.2	28
40	Role of neurotrophin-4/5 in neural cell death during retinal development and ischemic retinal injury in vivo. <i>Investigative Ophthalmology and Visual Science</i> , <b>2005</b> , 46, 669-73		28
39	Recent advances in genetically modified animal models of glaucoma and their roles in drug repositioning. <i>British Journal of Ophthalmology</i> , <b>2019</b> , 103, 161-166	5.5	25
38	Interleukin-1 attenuates normal tension glaucoma-like retinal degeneration in EAAC1-deficient mice. <i>Neuroscience Letters</i> , <b>2009</b> , 465, 160-4	3.3	23
37	Dock3 regulates BDNF-TrkB signaling for neurite outgrowth by forming a ternary complex with Elmo and RhoG. <i>Genes To Cells</i> , <b>2012</b> , 17, 688-97	2.3	22
36	Caloric restriction promotes cell survival in a mouse model of normal tension glaucoma. <i>Scientific Reports</i> , <b>2016</b> , 6, 33950	4.9	20
35	Brimonidine suppresses loss of retinal neurons and visual function in a murine model of optic neuritis. <i>Neuroscience Letters</i> , <b>2015</b> , 592, 27-31	3.3	19
34	Expression of intraocular peroxisome proliferator-activated receptor gamma in patients with proliferative diabetic retinopathy. <i>Journal of Diabetes and Its Complications</i> , <b>2015</b> , 29, 275-81	3.2	17
33	Dock3 protects myelin in the cuprizone model for demyelination. <i>Cell Death and Disease</i> , <b>2014</b> , 5, e1395	9.8	17
32	The Renin-Angiotensin System Regulates Neurodegeneration in a Mouse Model of Optic Neuritis. <i>American Journal of Pathology</i> , <b>2017</b> , 187, 2876-2885	5.8	16
31	TrkB Signaling in Retinal Glia Stimulates Neuroprotection after Optic Nerve Injury. <i>American Journal of Pathology</i> , <b>2015</b> , 185, 3238-47	5.8	15
30	Effect of geranylgeranylacetone on the protection of retinal ganglion cells in a mouse model of normal tension glaucoma. <i>Heliyon</i> , <b>2016</b> , 2, e00191	3.6	15
29	Topical Ripasudil Suppresses Retinal Ganglion Cell Death in a Mouse Model of Normal Tension Glaucoma <b>2018</b> , 59, 2080-2089		15
28	Valproic acid and ASK1 deficiency ameliorate optic neuritis and neurodegeneration in an animal model of multiple sclerosis. <i>Neuroscience Letters</i> , <b>2017</b> , 639, 82-87	3.3	14
27	Differential effects of N-acetylcysteine on retinal degeneration in two mouse models of normal tension glaucoma. <i>Cell Death and Disease</i> , <b>2019</b> , 10, 75	9.8	14
26	Arundic acid attenuates retinal ganglion cell death by increasing glutamate/aspartate transporter expression in a model of normal tension glaucoma. <i>Cell Death and Disease</i> , <b>2015</b> , 6, e1693	9.8	14

25	Purinergic dysregulation causes hypertensive glaucoma-like optic neuropathy. <i>JCI Insight</i> , <b>2017</b> , 2,	9.9	14
24	Edaravone suppresses retinal ganglion cell death in a mouse model of normal tension glaucoma. <i>Cell Death and Disease</i> , <b>2017</b> , 8, e2934	9.8	13
23	Effect of geranylgeranylacetone on optic neuritis in experimental autoimmune encephalomyelitis. <i>Neuroscience Letters</i> , <b>2009</b> , 462, 281-5	3.3	12
22	The existence of protein kinase C in cone photoreceptors in the rat retina. <i>Current Eye Research</i> , <b>1994</b> , 13, 547-50	2.9	12
21	Survival of Alpha and Intrinsically Photosensitive Retinal Ganglion Cells in NMDA-Induced Neurotoxicity and a Mouse Model of Normal Tension Glaucoma <b>2019</b> , 60, 3696-3707		10
20	Normal tension glaucoma-like degeneration of the visual system in aged marmosets. <i>Scientific Reports</i> , <b>2019</b> , 9, 14852	4.9	10
19	Dock3 overexpression and p38 MAPK inhibition synergistically stimulate neuroprotection and axon regeneration after optic nerve injury. <i>Neuroscience Letters</i> , <b>2014</b> , 581, 89-93	3.3	10
18	Delayed onset of experimental autoimmune encephalomyelitis in Olig1 deficient mice. <i>PLoS ONE</i> , <b>2010</b> , 5, e13083	3.7	10
17	Role of neuritin in retinal ganglion cell death in adult mice following optic nerve injury. <i>Scientific Reports</i> , <b>2018</b> , 8, 10132	4.9	8
16	Suppression of Oxidative Stress as Potential Therapeutic Approach for Normal Tension Glaucoma. <i>Antioxidants</i> , <b>2020</b> , 9,	7.1	8
15	DOCK8 is expressed in microglia, and it regulates microglial activity during neurodegeneration in murine disease models. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 13421-13433	5.4	7
14	Variants in DOCK3 cause developmental delay and hypotonia. <i>European Journal of Human Genetics</i> , <b>2019</b> , 27, 1225-1234	5.3	6
13	Roles of the DOCK-D family proteins in a mouse model of neuroinflammation. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 6710-6720	5.4	6
12	Edaravone Prevents Retinal Degeneration in Adult Mice Following Optic Nerve Injury <b>2017</b> , 58, 4908-4914		6
11	Visual function in patients with optic neuritis associated with acute transverse myelopathy in multiple sclerosis. <i>Japanese Journal of Ophthalmology</i> , <b>1995</b> , 39, 290-4	2.6	6
10	Neuroprotective effect of geranylgeranylacetone against ischemia-induced retinal injury. <i>Molecular Vision</i> , <b>2007</b> , 13, 1601-7	2.3	6
9	Dock3-NMDA receptor interaction as a target for glaucoma therapy. <i>Histology and Histopathology</i> , <b>2017</b> , 32, 215-221	1.4	6
8	EAAT1 variants associated with glaucoma. <i>Biochemical and Biophysical Research Communications</i> , <b>2020</b> , 529, 943-949	3.4	4

7	Expression of Epiplakin1 in the developing and adult mouse retina. <i>Japanese Journal of Ophthalmology</i> , <b>2010</b> , 54, 85-8	2.6	3
6	Cytoprotective Effect of Astaxanthin in a Model of Normal Intraocular Pressure Glaucoma. <i>Journal of Ophthalmology</i> , <b>2020</b> , 2020, 9539681	2	2
5	Expression of NG2-positive cells during optic neuritis. <i>Japanese Journal of Ophthalmology</i> , <b>2010</b> , 54, 100-26		1
4	ASK1 signaling regulates phase-specific glial interactions during neuroinflammation.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119,	11.5	1
3	Role of animal models in glaucoma research. <i>Neural Regeneration Research</i> , <b>2020</b> , 15, 1257-1258	4.5	1
2	Topical ripasudil stimulates neuroprotection and axon regeneration in adult mice following optic nerve injury. <i>Scientific Reports</i> , <b>2020</b> , 10, 15709	4.9	1
1	Effects of lighting environment on the degeneration of retinal ganglion cells in glutamate/aspartate transporter deficient mice, a mouse model of normal tension glaucoma.. <i>Biochemistry and Biophysics Reports</i> , <b>2022</b> , 29, 101197	2.2	