Hiroshi Tomita

List of Publications by Year
in descending order

109 papers	2,913 citations	270111 25 h-index	242451 47 g-index
112 all docs	112 docs citations	112 times ranked	3732 citing authors

#	Article	IF	Citations
1	Immortalization of cells derived from domestic dogs through expressing mutant cyclin-dependent kinase 4, cyclin D1, and telomerase reverse transcriptase. Cytotechnology, 2022, 74, 181-192.	0.7	2
2	Transcriptome analysis to identify the downstream genes of androgen receptor in dermal papilla cells. BMC Genomic Data, 2022, 23, 2.	0.7	1
3	Lentiviral expression of calpain-1 C2-like domain peptide prevents glutamate-induced cell death in mouse hippocampal neuronal HT22 cells. In Vitro Cellular and Developmental Biology - Animal, 2022, 58, 289-294.	0.7	1
4	Combinatorial expression of cell cycle regulators is more suitable for immortalization than oncogenic methods in dermal papilla cells. IScience, 2021, 24, 101929.	1.9	8
5	Optogenetics-Mediated Gene Therapy for Retinal Diseases. Advances in Experimental Medicine and Biology, 2021, 1293, 535-543.	0.8	6
6	Characterization of mitochondrial calpain-5. Biochimica Et Biophysica Acta - Molecular Cell Research, 2021, 1868, 118989.	1.9	13
7	The transcriptome of wild-type and immortalized corneal epithelial cells. Scientific Data, 2021, 8, 126.	2.4	4
8	Phototoxicities Caused by Continuous Light Exposure Were Not Induced in Retinal Ganglion Cells Transduced by an Optogenetic Gene. International Journal of Molecular Sciences, 2021, 22, 6732.	1.8	8
9	Development of an optogenetic gene sensitive to daylight and its implications in vision restoration. Npj Regenerative Medicine, 2021, 6, 64.	2.5	8
10	Zinc mediates the interaction between ceruloplasmin and apo-transferrin for the efficient transfer of Fe(III) ions. Metallomics, 2021, 13, .	1.0	6
11	Detailed chromosome analysis of wild-type, immortalized fibroblasts with SV40T, E6E7, combinational introduction of cyclin dependent kinase 4, cyclin D1, telomerase reverse transcriptase. In Vitro Cellular and Developmental Biology - Animal, 2021, 57, 998-1005.	0.7	6
12	Geranylgeranyl acetone prevents glutamate-induced cell death in HT-22Âcells by increasing mitochondrial membrane potential. European Journal of Pharmacology, 2020, 883, 173193.	1.7	4
13	Data on mitochondrial ultrastructure of photoreceptors in pig, rabbit, and mouse retinas. Data in Brief, 2020, 30, 105544.	0.5	3
14	Presence of ES1 homolog in the mitochondrial intermembrane space of porcine retinal cells. Biochemical and Biophysical Research Communications, 2020, 524, 542-548.	1.0	5
15	Human-Derived Corneal Epithelial Cells Expressing Cell Cycle Regulators as a New Resource for in vitro Ocular Toxicity Testing. Frontiers in Genetics, 2019, 10, 587.	1.1	11
16	N-Methyl-N-Nitrosourea-Induced Photoreceptor Degeneration Is Inhibited by Nicotinamide via the Blockade of Upstream Events before the Phosphorylation of Signalling Proteins. BioMed Research International, 2019, 2019, 1-10.	0.9	7
17	Overexpression of acid ceramidase (ASAH1) protects retinal cells (ARPE19) from oxidative stress. Journal of Lipid Research, 2019, 60, 30-43.	2.0	24
18	Neuroprotective effect of a dietary supplement against glutamate-induced excitotoxicity in retina. International Journal of Ophthalmology, 2019, 12, 1231-1237.	0.5	4

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19	Kinetic profiles of photocurrents in cells expressing two types of channelrhodopsin genes. Biochemical and Biophysical Research Communications, 2018, 496, 814-819.	1.0	5
20	The polyâ€cistronic expression of four transcriptional factors (CRX, RAX, NEUROâ€D, OTX2) in fibroblasts via retroâ€or lentivirus causes partial reprogramming into photoreceptor cells. Cell Biology International, 2018, 42, 608-614.	1.4	3
21	Melanocytes contribute to the vasculature of the choroid. Genes and Genetic Systems, 2018, 93, 51-58.	0.2	17
22	Presence of calpain-5 in mitochondria. Biochemical and Biophysical Research Communications, 2018, 504, 454-459.	1.0	10
23	Natronomonas pharaonis halorhodopsin Ser81 plays a role in maintaining chloride ions near the Schiff base. Biochemical and Biophysical Research Communications, 2018, 503, 2326-2332.	1.0	1
24	Visual Responses of Photoreceptor-Degenerated Rats Expressing Two Different Types of Channelrhodopsin Genes. Scientific Reports, 2017, 7, 41210.	1.6	14
25	Thioredoxin 2 Offers Protection against Mitochondrial Oxidative Stress in H9c2 Cells and against Myocardial Hypertrophy Induced by Hyperglycemia. International Journal of Molecular Sciences, 2017, 18, 1958.	1.8	39
26	A Chronically Implantable Bidirectional Neural Interface for Non-human Primates. Frontiers in Neuroscience, 2017, 11, 514.	1.4	24
27	A novel rat head gaze determination system based on optomotor responses. PLoS ONE, 2017, 12, e0176633.	1.1	6
28	Light induces translocation of NF-ÎºB p65 to the mitochondria and suppresses expression of cytochrome c oxidase subunit III (COX III) in the rat retina. Biochemical and Biophysical Research Communications, 2016, 473, 1013-1018.	1.0	13
29	Improved transduction efficiencies of adeno-associated virus vectors by synthetic cell-permeable peptides. Biochemical and Biophysical Research Communications, 2016, 478, 1732-1738.	1.0	5
30	The protection of rat retinal ganglion cells from ischemia/reperfusion injury by the inhibitory peptide of mitochondrial Î¼-calpain. Biochemical and Biophysical Research Communications, 2016, 478, 1700-1705.	1.0	14
31	Local and systemic responses following intravitreous injection of AAV2-encoded modified Volvox channelrhodopsin-1 in a genetically blind rat model. Gene Therapy, 2016, 23, 158-166.	2.3	17
32	Measurement of Electroretinograms and Visually Evoked Potentials in Awake Moving Mice. PLoS ONE, 2016, 11, e0156927.	1.1	31
33	Near-infrared (NIR) up-conversion optogenetics. Scientific Reports, 2015, 5, 16533.	1.6	109
34	Establishment of Gene Therapy Using Channelrhodopsin-2 to Treat Blindness. , 2015, , 341-352.		0
35	Restoration of the Majority of the Visual Spectrum by Using Modified Volvox Channelrhodopsin-1. Molecular Therapy, 2014, 22, 1434-1440.	3.7	56
36	Causality analysis in epileptic seizure genesis. IEICE Proceeding Series, 2014, 1, 543-546.	0.0	0

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37	Establishment of monocular-limited photoreceptor degeneration models in rabbits. BMC Ophthalmology, 2013, 13, 19.	0.6	9
38	Fabrication and In vivo Evaluation of Poly(3,4-ethylenedioxythiophene) Stimulus Electrodes for Fully Implantable Retinal Prosthesis. Japanese Journal of Applied Physics, 2013, 52, 04CL03.	0.8	4
39	Optogenetically Induced Seizure and the Longitudinal Hippocampal Network Dynamics. PLoS ONE, 2013, 8, e60928.	1.1	75
40	Essential Role of Thioredoxin 2 in Mitigating Oxidative Stress in Retinal Epithelial Cells. Journal of Ophthalmology, 2013, 2013, 1-7.	0.6	16
41	Different Anti-Oxidant Effects of Thioredoxin 1 and Thioredoxin 2 in Retinal Epithelial Cells. Cell Structure and Function, 2013, 38, 81-88.	0.5	21
42	Decrease of ATP by Mitochondrial m-calpain Inhibitory Peptide in the Rat Retinas. Cell Structure and Function, 2013, 38, 207-223.	0.5	4
43	Gene Therapy for Retinitis Pigmentosa. , 2013, , .		3
44	Inhibitory Peptide of Mitochondrial Î¼-Calpain Protects against Photoreceptor Degeneration in Rhodopsin Transgenic S334ter and P23H Rats. PLoS ONE, 2013, 8, e71650.	1.1	24
45	Notch signaling pathway regulates proliferation and differentiation of immortalized MÃ¼ller cells under hypoxic conditions in vitro. Neuroscience, 2012, 214, 171-180.	1.1	16
46	Intravitreal injection or topical eye-drop application of a Î¼-calpain C2L domain peptide protects against photoreceptor cell death in Royal College of Surgeons' rats, a model of retinitis pigmentosa. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2012, 1822, 1783-1795.	1.8	30
47	Age-Dependent Differences in Recovered Visual Responses in Royal College of Surgeons Rats Transduced with the Channelrhodopsin-2 Gene. Journal of Molecular Neuroscience, 2012, 46, 393-400.	1.1	24
48	Differentiation of neuronal cells from NIH/3T3 fibroblasts under defined conditions. Development Growth and Differentiation, 2011, 53, 357-365.	0.6	18
49	Immune responses to adeno-associated virus type 2 encoding channelrhodopsin-2 in a genetically blind rat model for gene therapy. Gene Therapy, 2011, 18, 266-274.	2.3	60
50	Dissecting a Role for Melanopsin in Behavioural Light Aversion Reveals a Response Independent of Conventional Photoreception. PLoS ONE, 2010, 5, e15009.	1.1	69
51	Channelrhodopsin-2 gene transduced into retinal ganglion cells restores functional vision in genetically blind rats. Experimental Eye Research, 2010, 90, 429-436.	1.2	139
52	Visual Properties of Transgenic Rats Harboring the Channelrhodopsin-2 Gene Regulated by the Thy-1.2 Promoter. PLoS ONE, 2009, 4, e7679.	1.1	143
53	Molecular Determinants Differentiating Photocurrent Properties of Two Channelrhodopsins from Chlamydomonas. Journal of Biological Chemistry, 2009, 284, 5685-5696.	1.6	160
54	Channelrhodopsins provide a breakthrough insight into strategies for curing blindness. Journal of Genetics, 2009, 88, 409-415.	0.4	22

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55	Molecular determinant differenciating Chlamydomonas channelrhodopsins. Neuroscience Research, 2009, 65, S196.	1.0	0
56	A PHOTORECEPTIVE STIMULATOR FOR A RETINAL PROSTHESIS WITH 3D STACKED LSI. , 2009, , .		0
57	Power Supply System Using Electromagnetic Induction for Three-Dimensionally Stacked Retinal Prosthesis Chip. Japanese Journal of Applied Physics, 2008, 47, 3244-3247.	0.8	10
58	BDNF Increases the Phagocytic Activity in Cultured Iris Pigment Epithelial Cells. Cell Structure and Function, 2008, 33, 21-26.	0.5	2
59	Evaluation of Platinum-Black Stimulus Electrode Array for Electrical Stimulation of Retinal Cells in Retinal Prosthesis System. Japanese Journal of Applied Physics, 2007, 46, 2785-2791.	0.8	11
60	Hypothermia Protects Cultured Human Retinal Pigment Epithelial Cells against Indocyanine Green Toxicity. Journal of Ocular Pharmacology and Therapeutics, 2007, 23, 35-39.	0.6	5
61	Nonredundant Role of Akt2 for Neuroprotection of Rod Photoreceptor Cells from Light-Induced Cell Death. Journal of Neuroscience, 2007, 27, 203-211.	1.7	86
62	Characteristics of Mitochondrial Calpains. Journal of Biochemistry, 2007, 142, 365-376.	0.9	71
63	Fully Implantable Retinal Prosthesis Chip with Photodetector and Stimulus Current Generator. , 2007, , .		16
64	Retinal ganglion cell protection by 17-Î²-estradiol in a mouse model of inherited glaucoma. Developmental Neurobiology, 2007, 67, 603-616.	1.5	86
65	Restoration of Visual Response in Aged Dystrophic RCS Rats Using AAV-Mediated Channelopsin-2 Gene Transfer. , 2007, 48, 3821.		144
66	Development of Power Supply System for Three-Dimensionally Staked Retinal Prosthesis Chip. , 2007, , .		0
67	Novel Retinal Prosthesis System with Three Dimensionally Stacked LSI Chip. Solid-State Device Research Conference, 2008 ESSDERC 2008 38th European, 2006, , .	0.0	3
68	Nitric Oxideâ€“Induced Accumulation of Lipofuscin-Like Materials Is Caused by Inhibition of Cathepsin S. Current Eye Research, 2006, 31, 607-616.	0.7	15
69	Recombinant AAV-Transduced Iris Pigment Epithelial Cell Transplantation May Transfer Vector to Native RPE but Suppress Systemic Dissemination. , 2006, 47, 745.		15
70	Hypothermia Protects Cultured Human Retinal Pigment Epithelial Cells against Trypan Blue Toxicity. Ophthalmologica, 2006, 220, 114-117.	1.0	4
71	Evaluation of Indocyanine Green Toxicity to Rat Retinas. Ophthalmologica, 2006, 220, 153-158.	1.0	19
72	Evaluation of Electrical Stimulus Current Applied to Retina Cells for Retinal Prosthesis. Japanese Journal of Applied Physics, 2006, 45, 3784-3788.	0.8	9

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73	Evaluation of Electrical Stimulus Current to Retina Cells for Retinal Prosthesis by Using Platinum-Black (Pt-b) Stimulus Electrode Array. , 2006, , .		0
74	Mechanism of Protection from Light-Induced Retinal Degeneration by the Synthetic Antioxidant Phenyl-N-tert-Butylnitrone. , 2005, 46, 427.		58
75	Deleted in Polyposis 1-like 1 Gene (Dp1l1): A Novel Gene Richly Expressed in Retinal Ganglion Cells. , 2005, 46, 791.		17
76	Establishment of Effective Methods for Transducing Genes into Iris Pigment Epithelial Cells by Using Adeno-associated Virus Type 2. , 2005, 46, 3341.		25
77	Involvement of Inflammation, Degradation, and Apoptosis in a Mouse Model of Glaucoma. Journal of Biological Chemistry, 2005, 280, 31240-31248.	1.6	129
78	Evaluation of Electrical Stimulus Current to Retina Cells for Retinal Prosthesis. , 2005, , .		0
79	Photoreceptor Protection by Iris Pigment Epithelial Transplantation Transduced with AAV-Mediated Brain-Derived Neurotrophic Factor Gene. , 2004, 45, 3721.		27
80	Transplantation of Transduced Retinal Pigment Epithelium in Rats. , 2004, 45, 1996.		17
81	Comparative study of cathepsins D and S in rat IPE and RPE cells. Experimental Eye Research, 2003, 77, 203-209.	1.2	22
82	Expression and functional properties of unique inward rectifier K+ channel Kir7.1 in the porcine iris and retinal pigment epithelium. Current Eye Research, 2003, 27, 279-287.	0.7	15
83	Intrinsic activation of PI3K/Akt signaling pathway and its neuroprotective effect against retinal injury. Current Eye Research, 2003, 26, 55-63.	0.7	75
84	Increased Expression of Glutamate Binding Protein mRNA in Rat Retina after Ischemia-Reperfusion Injury. Tohoku Journal of Experimental Medicine, 2003, 199, 25-33.	0.5	6
85	Comparative Study of Cathepsin D and S in Rat IPE and RPE Cells. Advances in Experimental Medicine and Biology, 2003, 533, 343-346.	0.8	1
86	Distribution of Rat Organic Anion Transporting Polypeptide-E (oatp-E) in the Rat Eye. , 2003, 44, 4877.		37
87	Approach for treatment of retinal degenerative diseases. Drug Delivery System, 2003, 18, 95-103.	0.0	0
88	Neuroprotective effect of nipradilol on axotomized rat retinal ganglion cells. Current Eye Research, 2002, 24, 114-122.	0.7	56
89	Presence of mitogen-activated protein kinase in retinal M??ller cells and its neuroprotective effect ischemia???reperfusion injury. NeuroReport, 2002, 13, 2103-2107.	0.6	45
90	Effect of Betaxolol on Aspartate Aminotransferase Activity in Hypoxic Rat Retina In Vitro. The Japanese Journal of Pharmacology, 2002, 90, 121-124.	1.2	5

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91	Nipradilol inhibits apoptosis by preventing the activation of caspase-3 via S-nitrosylation and the cGMP-dependent pathway. European Journal of Pharmacology, 2002, 452, 263-268.	1.7	28
92	Mitogen-Activated Protein Kinase Inhibitor, PD98059, Inhibits Rat Retinal Pigment Epithelial Cell Replication by Cell Cycle Arrest. Japanese Journal of Ophthalmology, 2002, 46, 634-639.	0.9	8
93	Delayed-onset ataxia in mice lacking Â-tocopherol transfer protein: Model for neuronal degeneration caused by chronic oxidative stress. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 15185-15190.	3.3	243
94	Changes of phagocytic capacity in basic fibroblast growth factor-transfected iris pigment epithelial cells in rats. Current Eye Research, 2001, 23, 185-191.	0.7	14
95	Ceramide-Induced Cell Death in Cultured Rat Retinal Pigment Epithelial Cells. Tohoku Journal of Experimental Medicine, 2000, 190, 223-229.	0.5	8
96	MÃ¼ller Cells in the Preconditioned Retinal Ischemic Injury Rat. Tohoku Journal of Experimental Medicine, 2000, 191, 221-232.	0.5	25
97	Auto Iris Pigment Epithelial Cell Transplantation in Patients with Age-Related Macular Degeneration: Short-Term Results. Tohoku Journal of Experimental Medicine, 2000, 191, 7-20.	0.5	57
98	Autologous iris pigment epithelial cell transplantation in monkey subretinal region. Current Eye Research, 2000, 20, 268-275.	0.7	34
99	Changes of GABA Metabolic Enzymes in Acute Retinal Ischemia. Experimental Eye Research, 1999, 69, 91-96.	1.2	21
100	Administration of Nerve Growth Factor, Brain-Derived Neurotrophic Factor and Insulin-Like Growth Factor-II Protects Phosphate-Activated Glutaminase in the Ischemic and Reperfused Rat Retinas.. Tohoku Journal of Experimental Medicine, 1999, 187, 227-236.	0.5	12
101	Characterization of Iris Pigment Epithelial Cell for Auto Cell Transplantation. Cell Transplantation, 1999, 8, 501-510.	1.2	31
102	Cytokine Gene Expression after Subretinal Transplantation.. Tohoku Journal of Experimental Medicine, 1999, 189, 179-189.	0.5	26
103	Functional Analysis after Auto Iris Pigment Epithelial Cell Transplantation in Patients with Age-Related Macular Degeneration.. Tohoku Journal of Experimental Medicine, 1999, 189, 295-305.	0.5	33
104	Gene Expression of the Phosducin-Like Protein in the Retina. Ophthalmic Research, 1998, 30, 74-83.	1.0	7
105	Increased Expression of Low-affinity NGF Receptor in Rat Retinal Mueller Cells after Ischemia and Reperfusion.. Cell Structure and Function, 1998, 23, 201-207.	0.5	10
106	A Case of Gastric Polyposis Accompanied by Iron Deficiency Anemia. Progress of Digestive Endoscopy(1972), 1995, 46, 152-153.	0.0	1
107	Adenoid Cyctic Carcinoma in the Head and Neck. Japanese Jornal of Head and Neck Cancer, 1989, 15, 48-52.	0.1	0
108	Piriform sinus fistula. A route of infection in acute cervical abscess.. Nihon Kikan Shokudoka Gakkai Kaiho, 1988, 39, 267-270.	0.0	0

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109	Strategies for Restoring Vision by Transducing a Channelrhodopsin Gene into Retinal Ganglion Cells. , 0, , 382-392.		0