Richard T Libby

List of Publications by Year
in descending order

79 papers	6,923 citations	70961 41 h-index	76769 74 g-index
83 all docs	83 docs citations	83 times ranked	6008 citing authors

#	Article	IF	Citations
1	Axons of retinal ganglion cells are insulted in the optic nerve early in DBA/2J glaucoma. Journal of Cell Biology, 2007, 179, 1523-1537.	2.3	523
2	Molecular clustering identifies complement and endothelin induction as early events in a mouse model of glaucoma. Journal of Clinical Investigation, 2011, 121, 1429-1444.	3.9	388
3	Inherited glaucoma in DBA/2J mice: Pertinent disease features for studying the neurodegeneration. Visual Neuroscience, 2005, 22, 637-648.	0.5	355
4	Susceptibility to Neurodegeneration in a Glaucoma Is Modified by Bax Gene Dosage. PLoS Genetics, 2005, 1, e4.	1.5	348
5	Retinal ganglion cell degeneration is topological but not cell type specific in DBA/2J mice. Journal of Cell Biology, 2005, 171, 313-325.	2.3	342
6	Laminin Expression in Adult and Developing Retinae: Evidence of Two Novel CNS Laminins. Journal of Neuroscience, 2000, 20, 6517-6528.	1.7	247
7	Reduced climbing and increased slipping adaptation in cochlear hair cells of mice with Myo7a mutations. Nature Neuroscience, 2002, 5, 41-47.	7.1	239
8	Glaucoma: Thinking in new waysâ€"a rÃ1e for autonomous axonal self-destruction and other compartmentalised processes?. Progress in Retinal and Eye Research, 2005, 24, 639-662.	7.3	225
9	Modification of Ocular Defects in Mouse Developmental Glaucoma Models by Tyrosinase. Science, 2003, 299, 1578-1581.	6.0	216
10	Radiation treatment inhibits monocyte entry into the optic nerve head and prevents neuronal damage in a mouse model of glaucoma. Journal of Clinical Investigation, 2012, 122, 1246-1261.	3.9	192
11	Intravitreal Injection of AAV2 Transduces Macaque Inner Retina. , 2011, 52, 2775.		177
12	COMPLEX GENETICS OF GLAUCOMA SUSCEPTIBILITY. Annual Review of Genomics and Human Genetics, 2005, 6, 15-44.	2.5	159
13	Disruption of Laminin Î²2 Chain Production Causes Alterations in Morphology and Function in the CNS. Journal of Neuroscience, 1999, 19, 9399-9411.	1.7	148
14	Adaptive optics retinal imaging in the living mouse eye. Biomedical Optics Express, 2012, 3, 715.	1.5	139
15	Role of myosin VIIa and Rab27a in the motility and localization of RPE melanosomes. Journal of Cell Science, 2004, 117, 6473-6483.	1.2	137
16	Genetic context determines susceptibility to intraocular pressure elevation in a mouse pigmentary glaucoma. BMC Biology, 2006, 4, 20.	1.7	130
17	Loss of myosin VI reduces secretion and the size of the Golgi in fibroblasts from Snell's waltzer mice. EMBO Journal, 2003, 22, 569-579.	3.5	127
18	JNK2 and JNK3 are major regulators of axonal injury-induced retinal ganglion cell death. Neurobiology of Disease, 2012, 46, 393-401.	2.1	127

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19	High-dose radiation with bone marrow transfer prevents neurodegeneration in an inherited glaucoma. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 4566-4571.	3.3	126
20	Absence of glaucoma in DBA/2J mice homozygous for wild-type versions of Gpnmb and Tyrp1. BMC Genetics, 2007, 8, 45.	2.7	117
21	An ocular glymphatic clearance system removes Î²-amyloid from the rodent eye. Science Translational Medicine, 2020, 12, .	5.8	116
22	Molecular regulation of cigarette smoke induced-oxidative stress in human retinal pigment epithelial cells: implications for age-related macular degeneration. American Journal of Physiology - Cell Physiology, 2009, 297, C1200-C1210.	2.1	114
23	Transcription Factors SOX4 and SOX11 Function Redundantly to Regulate the Development of Mouse Retinal Ganglion Cells. Journal of Biological Chemistry, 2013, 288, 18429-18438.	1.6	114
24	Optical properties of the mouse eye. Biomedical Optics Express, 2011, 2, 717.	1.5	100
25	KLF9 and JNK3 Interact to Suppress Axon Regeneration in the Adult CNS. Journal of Neuroscience, 2017, 37, 9632-9644.	1.7	91
26	Intrinsic axonal degeneration pathways are critical for glaucomatous damage. Experimental Neurology, 2013, 246, 54-61.	2.0	86
27	Mutations in a P-Type ATPase Gene Cause Axonal Degeneration. PLoS Genetics, 2012, 8, e1002853.	1.5	81
28	Early immune responses are independent of RGC dysfunction in glaucoma with complement component C3 being protective. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3839-E3848.	3.3	80
29	DLK-dependent signaling is important for somal but not axonal degeneration of retinal ganglion cells following axonal injury. Neurobiology of Disease, 2014, 69, 108-116.	2.1	77
30	In-vivo imaging of retinal nerve fiber layer vasculature: imaging - histology comparison. BMC Ophthalmology, 2009, 9, 9.	0.6	76
31	JUN regulates early transcriptional responses to axonal injury in retinal ganglion cells. Experimental Eye Research, 2013, 112, 106-117.	1.2	76
32	MATH5 controls the acquisition of multiple retinal cell fates. Molecular Brain, 2010, 3, 36.	1.3	72
33	Using genetic mouse models to gain insight into glaucoma: Past results and future possibilities. Experimental Eye Research, 2015, 141, 42-56.	1.2	69
34	BARHL2 Differentially Regulates the Development of Retinal Amacrine and Ganglion Neurons. Journal of Neuroscience, 2009, 29, 3992-4003.	1.7	66
35	Axon injury signaling and compartmentalized injury response in glaucoma. Progress in Retinal and Eye Research, 2019, 73, 100769.	7.3	63
36	Role of SARM1 and DR6 in retinal ganglion cell axonal and somal degeneration following axonal injury. Experimental Eye Research, 2018, 171, 54-61.	1.2	57

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37	The Usher 1B protein, MYO7A, is required for normal localization and function of the visual retinoid cycle enzyme, RPE65. Human Molecular Genetics, 2011, 20, 2560-2570.	1.4	56
38	Myosin Va is required for normal photoreceptor synaptic activity. Journal of Cell Science, 2004, 117, 4509-4515.	1.2	55
39	Together JUN and DDIT3 (CHOP) control retinal ganglion cell death after axonal injury. Molecular Neurodegeneration, 2017, 12, 71.	4.4	50
40	Tumor necrosis factor alpha has an early protective effect on retinal ganglion cells after optic nerve crush. Journal of Neuroinflammation, 2014, 11, 194.	3.1	49
41	Neuroprotection for glaucoma: Requirements for clinical translation. Experimental Eye Research, 2017, 157, 34-37.	1.2	48
42	Phospholipid flippase ATP8A2 is required for normal visual and auditory function and photoreceptor and spiral ganglion cell survival. Journal of Cell Science, 2014, 127, 1138-49.	1.2	47
43	Datgan, a reusable software system for facile interrogation and visualization of complex transcription profiling data. BMC Genomics, 2011, 12, 429.	1.2	46
44	BBC3 (PUMA) regulates developmental apoptosis but not axonal injury induced death in the retina. Molecular Neurodegeneration, 2011, 6, 50.	4.4	44
45	Ocular Fibroblast Diversity: Implications for Inflammation and Ocular Wound Healing. , 2011, 52, 4859.		44
46	JUN is important for ocular hypertension-induced retinal ganglion cell degeneration. Cell Death and Disease, 2017, 8, e2945-e2945.	2.7	44
47	Mouse genetic models: an ideal system for understanding glaucomatous neurodegeneration and neuroprotection. Progress in Brain Research, 2008, 173, 303-321.	0.9	43
48	Cdh23 mutations in the mouse are associated with retinal dysfunction but not retinal degeneration. Experimental Eye Research, 2003, 77, 731-739.	1.2	40
49	Col4a1 mutations cause progressive retinal neovascular defects and retinopathy. Scientific Reports, 2016, 6, 18602.	1.6	38
50	The Bcl-2 family member BIM has multiple glaucoma-relevant functions in DBA/2J mice. Scientific Reports, 2012, 2, 530.	1.6	37
51	Notch2 regulates BMP signaling and epithelial morphogenesis in the ciliary body of the mouse eye. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8966-8971.	3.3	36
52	Inducible nitric oxide synthase, Nos2, does not mediate optic neuropathy and retinopathy in the DBA/2J glaucoma model. BMC Neuroscience, 2007, 8, 108.	0.8	35
53	Endoplasmic Reticulum Stress as a Primary Pathogenic Mechanism Leading to Age-Related Macular Degeneration. Advances in Experimental Medicine and Biology, 2010, 664, 403-409.	0.8	34
54	Identification of the cellular source of laminin ?2 in adult and developing vertebrate retinae. , 1997, 389, 655-667.		33

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55	The roles of unconventional myosins in hearing and deafness. Essays in Biochemistry, 2000, 35, 159-174.	2.1	30
56	BCL2L1 (BCL-X) promotes survival of adult and developing retinal ganglion cells. Molecular and Cellular Neurosciences, 2012, 51, 53-59.	1.0	28
57	Quantitative measurement of retinal ganglion cell populations via histology-based random forest classification. Experimental Eye Research, 2016, 146, 370-385.	1.2	23
58	Mkk4 and Mkk7 are important for retinal development and axonal injury-induced retinal ganglion cell death. Cell Death and Disease, 2018, 9, 1095.	2.7	21
59	DBA/2J Mice Are Susceptible to Diabetic Nephropathy and Diabetic Exacerbation of IOP Elevation. PLoS ONE, 2014, 9, e107291.	1.1	19
60	Assessment of intrinsic and extrinsic signaling pathway in excitotoxic retinal ganglion cell death. Scientific Reports, 2018, 8, 4641.	1.6	19
61	Pou4f1 and Pou4f2 Are Dispensable for the Long-Term Survival of Adult Retinal Ganglion Cells in Mice. PLoS ONE, 2014, 9, e94173.	1.1	19
62	Focal damage to macaque photoreceptors produces persistent visual loss. Experimental Eye Research, 2014, 119, 88-96.	1.2	17
63	Strain-Dependent Anterior Segment Dysgenesis and Progression to Glaucoma in<i>Col4a1</i>Mutant Mice. , 2015, 56, 6823.		17
64	G-Protein-Coupled Receptor-2-Interacting Protein-1 Controls Stalk Cell Fate by Inhibiting Delta-like 4-Notch1 Signaling. Cell Reports, 2016, 17, 2532-2541.	2.9	17
65	DDIT3 (CHOP) contributes to retinal ganglion cell somal loss but not axonal degeneration in DBA/2J mice. Cell Death Discovery, 2019, 5, 140.	2.0	17
66	Myosin VI is required for normal retinal function. Experimental Eye Research, 2005, 81, 116-120.	1.2	16
67	Jnk2 deficiency increases the rate of glaucomatous neurodegeneration in ocular hypertensive DBA/2J mice. Cell Death and Disease, 2018, 9, 705.	2.7	16
68	Roles of the Extracellular Matrix in Retinal Development and Maintenance. Results and Problems in Cell Differentiation, 2000, 31, 115-140.	0.2	15
69	Endothelin 1-induced retinal ganglion cell death is largely mediated by JUN activation. Cell Death and Disease, 2020, 11, 811.	2.7	13
70	Deficiency in Bim, Bid and Bbc3 (Puma) do not prevent axonal injury induced death. Cell Death and Differentiation, 2013, 20, 182-182.	5.0	12
71	The polyether ionophore salinomycin targets multiple cellular pathways to block proliferative vitreoretinopathy pathology. PLoS ONE, 2019, 14, e0222596.	1.1	11
72	Vascular derived endothelin receptor A controls endothelin-induced retinal ganglion cell death. Cell Death Discovery, 2022, 8, 207.	2.0	7

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73	Novel axon projection after stress and degeneration in the Dscam mutant retina. Molecular and Cellular Neurosciences, 2016, 71, 1-12.	1.0	5
74	Ciliary margin-derived BMP4 does not have a major role in ocular development. PLoS ONE, 2018, 13, e0197048.	1.1	5
75	Gabor domain optical coherence microscopy combined with laser scanning confocal fluorescence microscopy. Biomedical Optics Express, 2019, 10, 6242.	1.5	5
76	Salinomycin inhibits proliferative vitreoretinopathy formation in a mouse model. PLoS ONE, 2020, 15, e0243626.	1.1	5
77	Trabecular meshwork morphogenesis: A comparative analysis of wildtype and anterior segment dysgenesis mouse models. Experimental Eye Research, 2018, 170, 81-91.	1.2	3
78	Transcriptional control of retinal ganglion cell death after axonal injury. Cell Death and Disease, 2022, 13, 244.	2.7	2
79	Adding Metabolomics to the Toolbox for Studying Retinal Disease. , 2013, 54, 4260.		1