Mary E Pease

List of Publications by Year
in descending order

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58 papers	4,265 citations	212478 28 h-index	325983 40 g-index
60 all docs	60 docs citations	60 times ranked	3296 citing authors

#	Article	IF	Citations
1	Aquaporin 4 is not present in normal porcine and human lamina cribrosa. PLoS ONE, 2022, 17, e0268541.	1.1	7
2	The role of aquaporin-4 in optic nerve head astrocytes in experimental glaucoma. PLoS ONE, 2021, 16, e0244123.	1.1	11
3	Response to letter from Dr. Casson et al. regarding "A method to quantify regional axonal transport blockade...". Experimental Eye Research, 2020, 197, 108075.	1.2	0
4	Pressure-Induced Changes in Astrocyte GFAP, Actin, and Nuclear Morphology in Mouse Optic Nerve. , 2020, 61, 14.		20
5	Astrocyte responses to experimental glaucoma in mouse optic nerve head. PLoS ONE, 2020, 15, e0238104.	1.1	41
6	A method to quantify regional axonal transport blockade at the optic nerve head after short term intraocular pressure elevation in mice. Experimental Eye Research, 2020, 196, 108035.	1.2	16
7	The effects of age on mitochondria, axonal transport, and axonal degeneration after chronic IOP elevation using a murine ocular explant model. Experimental Eye Research, 2018, 172, 78-85.	1.2	19
8	Rho-Kinase Inhibition Reduces Myofibroblast Differentiation and Proliferation of Scleral Fibroblasts Induced by Transforming Growth Factor Î² and Experimental Glaucoma. Translational Vision Science and Technology, 2018, 7, 6.	1.1	40
9	Age-Related Changes in Quantitative Strain of Mouse Astrocytic Lamina Cribrosa and Peripapillary Sclera Using Confocal Microscopy in an Explant Model. , 2018, 59, 5157.		16
10	Sustained Dorzolamide Release Prevents Axonal and Retinal Ganglion Cell Loss in a Rat Model of IOPâ€“Glaucoma. Translational Vision Science and Technology, 2018, 7, 13.	1.1	13
11	The pressure-induced deformation response of the human lamina cribrosa: Analysis of regional variations. Acta Biomaterialia, 2017, 53, 123-139.	4.1	68
12	A mouse ocular explant model that enables the study of living optic nerve head events after acute and chronic intraocular pressure elevation: Focusing on retinal ganglion cell axons and mitochondria. Experimental Eye Research, 2017, 160, 106-115.	1.2	19
13	Regional Variations in the Mechanical Strains of the Human Optic Nerve Head. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 119-127.	0.3	1
14	Regional Retinal Ganglion Cell Axon Loss in a Murine Glaucoma Model. , 2017, 58, 2765.		28
15	Measuring Deformation in the Mouse Optic Nerve Head and Peripapillary Sclera. , 2017, 58, 721.		32
16	Scleral fibroblast response to experimental glaucoma in mice. Molecular Vision, 2016, 22, 82-99.	1.1	29
17	Losartan Treatment Protects Retinal Ganglion Cells and Alters Scleral Remodeling in Experimental Glaucoma. PLoS ONE, 2015, 10, e0141137.	1.1	50
18	Changes in Scleral Collagen Organization in Murine Chronic Experimental Glaucoma. , 2014, 55, 6554.		40

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19	Scleral Permeability Varies by Mouse Strain and Is Decreased by Chronic Experimental Glaucoma. , 2014, 55, 2564.		20
20	Experimental scleral cross-linking increases glaucoma damage in a mouse model. Experimental Eye Research, 2014, 128, 129-140.	1.2	75
21	Susceptibility to glaucoma damage related to age and connective tissue mutations in mice. Experimental Eye Research, 2014, 119, 54-60.	1.2	27
22	Studies of Scleral Biomechanical Behavior Related to Susceptibility for Retinal Ganglion Cell Loss in Experimental Mouse Glaucoma. , 2013, 54, 1767.		89
23	Scleral structural alterations associated with chronic experimental intraocular pressure elevation in mice. Molecular Vision, 2013, 19, 2023-39.	1.1	52
24	Retinal Ganglion Cell Morphology after Optic Nerve Crush and Experimental Glaucoma. , 2012, 53, 3847.		101
25	Semi-automated, quantitative analysis of retinal ganglion cell morphology in mice selectively expressing yellow fluorescent protein. Experimental Eye Research, 2012, 96, 107-115.	1.2	17
26	The effects of anesthesia, mouse strain and age on intraocular pressure and an improved murine model of experimental glaucoma. Experimental Eye Research, 2012, 99, 27-35.	1.2	99
27	Mice with an induced mutation in collagen 8A2 develop larger eyes and are resistant to retinal ganglion cell damage in an experimental glaucoma model. Molecular Vision, 2012, 18, 1093-106.	1.1	43
28	Lack of neuroprotection against experimental glaucoma in c-Jun N-terminal kinase 3 knockout mice. Experimental Eye Research, 2011, 92, 299-305.	1.2	34
29	Retinal Ganglion Cell Loss in a Rat Ocular Hypertension Model Is Sectorial and Involves Early Optic Nerve Axon Loss. , 2011, 52, 434.		85
30	Calibration of the TonoLab Tonometer in Mice with Spontaneous or Experimental Glaucoma. , 2011, 52, 858.		54
31	Glaucomatous optic nerve injury involves early astrocyte reactivity and late oligodendrocyte loss. Glia, 2010, 58, 780-789.	2.5	110
32	The presence and distribution of elastin in the posterior and retrobulbar regions of the mouse eye. Experimental Eye Research, 2010, 90, 210-215.	1.2	34
33	Differential susceptibility to experimental glaucoma among 3 mouse strains using bead and viscoelastic injection. Experimental Eye Research, 2010, 91, 415-424.	1.2	149
34	The in vitro inflation response of mouse sclera. Experimental Eye Research, 2010, 91, 866-875.	1.2	67
35	Effect of CNTF on Retinal Ganglion Cell Survival in Experimental Glaucoma. , 2009, 50, 2194.		195
36	Prolonged blockade of VEGF family members does not cause identifiable damage to retinal neurons or vessels. Journal of Cellular Physiology, 2008, 217, 13-22.	2.0	59

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37	Changes in Gene Expression in Experimental Glaucoma and Optic Nerve Transection: The Equilibrium between Protective and Detrimental Mechanisms. , 2007, 48, 5539.		157
38	Characteristics of Progenitor Cells Derived from Adult Ciliary Body in Mouse, Rat, and Human Eyes. , 2007, 48, 1674.		80
39	Optic nerve dynein motor protein distribution changes with intraocular pressure elevation in a rat model of glaucoma. Experimental Eye Research, 2006, 83, 255-262.	1.2	116
40	Manometric Calibration and Comparison of TonoLab and TonoPen Tonometers in Rats With Experimental Glaucoma and in Normal Mice. Journal of Glaucoma, 2006, 15, 512-519.	0.8	64
41	The Effect of Experimental Glaucoma and Optic Nerve Transection on Amacrine Cells in the Rat Retina. , 2005, 46, 3188.		106
42	Effect of Glatiramer Acetate on Primary and Secondary Degeneration of Retinal Ganglion Cells in the Rat. , 2005, 46, 884.		54
43	The transcription factor c-jun is activated in retinal ganglion cells in experimental rat glaucoma. Experimental Eye Research, 2005, 80, 663-670.	1.2	70
44	Increased Expression of Iron-Regulating Genes in Monkey and Human Glaucoma. Investigative Ophthalmology and Visual Science, 2004, 45, 1410-1417.	3.3	91
45	Intraocular injection of dibutyryl cyclic AMP promotes axon regeneration in rat optic nerve. Experimental Neurology, 2004, 186, 124-133.	2.0	76
46	Gene Therapy with Brain-Derived Neurotrophic Factor As a Protection: Retinal Ganglion Cells in a Rat Glaucoma Model. , 2003, 44, 4357.		336
47	A Model to Study Differences between Primary and Secondary Degeneration of Retinal Ganglion Cells in Rats by Partial Optic Nerve Transection. , 2003, 44, 3388.		178
48	Measurement of Amino Acid Levels in the Vitreous Humor of Rats after Chronic Intraocular Pressure Elevation or Optic Nerve Transection. Journal of Glaucoma, 2002, 11, 396-405.	0.8	81
49	Translimbal laser photocoagulation to the trabecular meshwork as a model of glaucoma in rats. Investigative Ophthalmology and Visual Science, 2002, 43, 402-10.	3.3	219
50	Caspase activation and amyloid precursor protein cleavage in rat ocular hypertension. Investigative Ophthalmology and Visual Science, 2002, 43, 1077-87.	3.3	210
51	Retinal glutamate transporter changes in experimental glaucoma and after optic nerve transection in the rat. Investigative Ophthalmology and Visual Science, 2002, 43, 2236-43.	3.3	111
52	Screening Performance of Functional and Structural Measurements of Neural Damage in Open-Angle Glaucoma: A Case-Control Study From the Baltimore Eye Survey. Journal of Glaucoma, 2000, 9, 346-356.	0.8	26
53	Quantitative Studies of Elastin in the Optic Nerve Heads of Persons with Primary Open-angle Glaucoma. Ophthalmology, 1996, 103, 1680-1685.	2.5	21
54	Change in the appearance of elastin in the lamina cribrosa of glaucomatous optic nerve heads. Graefe's Archive for Clinical and Experimental Ophthalmology, 1994, 232, 257-261.	1.0	34

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55	Changes in Optic Disk Characteristics and the Number of Nerve Fibers in Experimental Glaucoma. American Journal of Ophthalmology, 1992, 114, 554-559.	1.7	46
56	Quantitative study of collagen and elastin of the optic nerve head and sclera in human and experimental monkey glaucoma. Current Eye Research, 1991, 10, 877-888.	0.7	197
57	Alterations in elastin of the optic nerve head in human and experimental glaucoma.. British Journal of Ophthalmology, 1991, 75, 552-557.	2.1	149
58	Distribution of Neurofilament Antigens after Axonal Injury. Journal of Neuropathology and Experimental Neurology, 1987, 46, 269-282.	0.9	83