

Machelle T Pardue

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116 papers	3,250 citations	32 h-index	51 g-index
120 ext. papers	3,936 ext. citations	4.3 avg, IF	5.41 L-index

#	Paper	IF	Citations
116	Structural and functional MRI reveals multiple retinal layers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 17525-30	11.5	136
115	IMI - Report on Experimental Models of Emmetropization and Myopia 2019 , 60, M31-M88		130
114	Dopamine signaling and myopia development: What are the key challenges. <i>Progress in Retinal and Eye Research</i> , 2017 , 61, 60-71	20.5	124
113	Pharmacology of myopia and potential role for intrinsic retinal circadian rhythms. <i>Experimental Eye Research</i> , 2013 , 114, 35-47	3.7	105
112	Neuroprotective strategies for retinal disease. <i>Progress in Retinal and Eye Research</i> , 2018 , 65, 50-76	20.5	99
111	Identification of the gene and the mutation responsible for the mouse nob phenotype. <i>Investigative Ophthalmology and Visual Science</i> , 2003 , 44, 378-84		94
110	Early visual deficits in streptozotocin-induced diabetic long evans rats 2013 , 54, 1370-7		93
109	High susceptibility to experimental myopia in a mouse model with a retinal on pathway defect. <i>Investigative Ophthalmology and Visual Science</i> , 2008 , 49, 706-12		92
108	Neuroprotective effect of subretinal implants in the RCS rat. <i>Investigative Ophthalmology and Visual Science</i> , 2005 , 46, 674-82		92
107	Dopamine deficiency contributes to early visual dysfunction in a rodent model of type 1 diabetes. <i>Journal of Neuroscience</i> , 2014 , 34, 726-36	6.6	90
106	Bile acids in treatment of ocular disease. <i>Journal of Ocular Biology, Diseases, and Informatics</i> , 2009 , 2, 149-159		84
105	Tauroursodeoxycholic acid preservation of photoreceptor structure and function in the rd10 mouse through postnatal day 30. <i>Investigative Ophthalmology and Visual Science</i> , 2008 , 49, 2148-55		72
104	Circadian rhythms, refractive development, and myopia. <i>Ophthalmic and Physiological Optics</i> , 2018 , 38, 217-245	4.1	71
103	Tool from ancient pharmacopoeia prevents vision loss. <i>Molecular Vision</i> , 2006 , 12, 1706-14	2.3	70
102	Immunohistochemical studies of the retina following long-term implantation with subretinal microphotodiode arrays. <i>Experimental Eye Research</i> , 2001 , 73, 333-43	3.7	68
101	Investigating mechanisms of myopia in mice. <i>Experimental Eye Research</i> , 2013 , 114, 96-105	3.7	62
100	Features of visual function in the naked mole-rat <i>Heterocephalus glaber</i> . <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2005 , 191, 317-30	2.3	57

99	Aerobic exercise protects retinal function and structure from light-induced retinal degeneration. <i>Journal of Neuroscience</i> , 2014 , 34, 2406-12	6.6	56
98	Effects of common anesthetics on eye movement and electroretinogram. <i>Documenta Ophthalmologica</i> , 2011 , 122, 163-76	2.2	56
97	Age-related changes in human ciliary muscle. <i>Optometry and Vision Science</i> , 2000 , 77, 204-10	2.1	56
96	Immunohistochemical analysis of the outer plexiform layer in the nob mouse shows no abnormalities. <i>Visual Neuroscience</i> , 2003 , 20, 267-72	1.7	49
95	Possible sources of neuroprotection following subretinal silicon chip implantation in RCS rats. <i>Journal of Neural Engineering</i> , 2005 , 2, S39-47	5	46
94	ON pathway mutations increase susceptibility to form-deprivation myopia. <i>Experimental Eye Research</i> , 2015 , 137, 79-83	3.7	44
93	Visually-driven ocular growth in mice requires functional rod photoreceptors 2014 , 55, 6272-9		44
92	Retinal expression of Fgf2 in RCS rats with subretinal microphotodiode array 2009 , 50, 4523-30		40
91	Rodent Hyperglycemia-Induced Inner Retinal Deficits are Mirrored in Human Diabetes. <i>Translational Vision Science and Technology</i> , 2014 , 3, 6	3.3	39
90	Head-mounted goggles for murine form deprivation myopia. <i>Journal of Neuroscience Methods</i> , 2007 , 161, 96-100	3	38
89	Assessment of axial length measurements in mouse eyes. <i>Optometry and Vision Science</i> , 2012 , 89, 296-303	3.1	37
88	Mouse b-wave mutants. <i>Documenta Ophthalmologica</i> , 2014 , 128, 77-89	2.2	35
87	Neuroprotective Effects of Voluntary Exercise in an Inherited Retinal Degeneration Mouse Model 2015 , 56, 6839-46		34
86	An ENU-induced mutation in Rs1h causes disruption of retinal structure and function. <i>Molecular Vision</i> , 2005 , 11, 569-81	2.3	33
85	In Vivo Imaging of Retinal Oxidative Stress Using a Reactive Oxygen Species-Activated Fluorescent Probe 2015 , 56, 5862-70		32
84	The artificial silicon retina in retinitis pigmentosa patients (an American Ophthalmological Association thesis). <i>Transactions of the American Ophthalmological Society</i> , 2010 , 108, 120-54		31
83	Development of Experimental Myopia in Chicks in a Natural Environment 2016 , 57, 4779-89		31
82	Subretinal implantation of semiconductor-based photodiodes: durability of novel implant designs. <i>Journal of Rehabilitation Research and Development</i> , 2002 , 39, 313-21		31

81	Retinal function after subconjunctival injection of carboplatin in fibrin sealant. <i>Retina</i> , 2004 , 24, 776-82	3.6	30
80	Comparison of refractive development and retinal dopamine in OFF pathway mutant and C57BL/6J wild-type mice. <i>Molecular Vision</i> , 2014 , 20, 1318-27	2.3	30
79	Altered Refractive Development in Mice With Reduced Levels of Retinal Dopamine 2016 , 57, 4412-4419		28
78	Retinal degeneration increases susceptibility to myopia in mice. <i>Molecular Vision</i> , 2013 , 19, 2068-79	2.3	27
77	Progesterone treatment shows greater protection in brain vs. retina in a rat model of middle cerebral artery occlusion: Progesterone receptor levels may play an important role. <i>Restorative Neurology and Neuroscience</i> , 2016 , 34, 947-963	2.8	24
76	Dopamine Deficiency Mediates Early Rod-Driven Inner Retinal Dysfunction in Diabetic Mice 2018 , 59, 572-581		24
75	Molecular and Biochemical Aspects of the Retina on Refraction. <i>Progress in Molecular Biology and Translational Science</i> , 2015 , 134, 249-67	4	23
74	TrkB signalling pathway mediates the protective effects of exercise in the diabetic rat retina. <i>European Journal of Neuroscience</i> , 2018 , 47, 1254-1265	3.5	23
73	MRI reveals differential regulation of retinal and choroidal blood volumes in rat retina. <i>NeuroImage</i> , 2011 , 54, 1063-9	7.9	23
72	Dim Light Exposure and Myopia in Children 2018 , 59, 4804-4811		23
71	Long-Term Functional and Structural Consequences of Primary Blast Overpressure to the Eye. <i>Journal of Neurotrauma</i> , 2018 , 35, 2104-2116	5.4	22
70	Whole-eye electrical stimulation therapy preserves visual function and structure in P23H-1 rats. <i>Experimental Eye Research</i> , 2016 , 149, 75-83	3.7	22
69	Short-Wavelength (Violet) Light Protects Mice From Myopia Through Cone Signaling 2020 , 61, 13		21
68	Progesterone treatment in two rat models of ocular ischemia 2015 , 56, 2880-91		21
67	Genome-Wide Scleral Micro- and Messenger-RNA Regulation During Myopia Development in the Mouse 2016 , 57, 6089-6097		21
66	Effects of subretinal electrical stimulation in mer-KO mice 2011 , 52, 4223-30		20
65	Eliminating the Ant1 isoform produces a mouse with CPEO pathology but normal ocular motility. <i>Investigative Ophthalmology and Visual Science</i> , 2005 , 46, 4555-62		20
64	The RNA-binding protein, ZC3H14, is required for proper poly(A) tail length control, expression of synaptic proteins, and brain function in mice. <i>Human Molecular Genetics</i> , 2017 , 26, 3663-3681	5.6	19

63	Non-contact measurement of linear external dimensions of the mouse eye. <i>Journal of Neuroscience Methods</i> , 2010 , 187, 156-66	3	19
62	Performance of the DTL electrode compared to the jet contact lens electrode in clinical testing. <i>Documenta Ophthalmologica</i> , 2004 , 108, 77-86	2.2	19
61	Tauroursodeoxycholic Acid Protects Retinal Function and Structure in rd1 Mice. <i>Advances in Experimental Medicine and Biology</i> , 2016 , 854, 431-6	3.6	19
60	Altered ocular parameters from circadian clock gene disruptions. <i>PLoS ONE</i> , 2019 , 14, e0217111	3.7	18
59	Reducing acetylated tau is neuroprotective in brain injury. <i>Cell</i> , 2021 , 184, 2715-2732.e23	56.2	18
58	Manganese-enhanced MRI reveals multiple cellular and vascular layers in normal and degenerated retinas. <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 34, 1422-9	5.6	17
57	Status of the feline retina 5 years after subretinal implantation. <i>Journal of Rehabilitation Research and Development</i> , 2006 , 43, 723-32		17
56	Increased endogenous dopamine prevents myopia in mice. <i>Experimental Eye Research</i> , 2020 , 193, 107956	5.7	16
55	Novel Detection and Restorative Levodopa Treatment for Preclinical Diabetic Retinopathy. <i>Diabetes</i> , 2020 , 69, 1518-1527	0.9	15
54	Severity of middle cerebral artery occlusion determines retinal deficits in rats. <i>Experimental Neurology</i> , 2014 , 254, 206-15	5.7	15
53	The functional anatomy of the ciliary muscle in four avian species. <i>Brain, Behavior and Evolution</i> , 1997 , 49, 295-311	1.5	15
52	Subretinal electrical stimulation preserves inner retinal function in RCS rat retina. <i>Molecular Vision</i> , 2013 , 19, 995-1005	2.3	15
51	AxoNet: A deep learning-based tool to count retinal ganglion cell axons. <i>Scientific Reports</i> , 2020 , 10, 8034	4.9	14
50	Refractive index measurement of the mouse crystalline lens using optical coherence tomography. <i>Experimental Eye Research</i> , 2014 , 125, 62-70	3.7	14
49	Visual Cone Arrestin 4 Contributes to Visual Function and Cone Health 2015 , 56, 5407-16		14
48	Visual evoked potentials to infrared stimulation in normal cats and rats. <i>Documenta Ophthalmologica</i> , 2001 , 103, 155-62	2.2	14
47	Ambient Light Regulates Retinal Dopamine Signaling and Myopia Susceptibility 2021 , 62, 28		14
46	Physical Activity and Quality of Life in Retinitis Pigmentosa. <i>Journal of Ophthalmology</i> , 2017 , 2017, 69506	4.2	13

45	Test of the paired-flash electroretinographic method in mice lacking b-waves. <i>Visual Neuroscience</i> , 2007 , 24, 141-9	1.7	13
44	Retinal Deficits Precede Cognitive and Motor Deficits in a Rat Model of Type II Diabetes 2019 , 60, 123-133		13
43	Menopause exacerbates visual dysfunction in experimental glaucoma. <i>Experimental Eye Research</i> , 2019 , 186, 107706	3.7	12
42	Daily visual stimulation in the critical period enhances multiple aspects of vision through BDNF-mediated pathways in the mouse retina. <i>PLoS ONE</i> , 2018 , 13, e0192435	3.7	12
41	The eyes of mito-mouse: mouse models of mitochondrial disease. <i>Journal of Neuro-Ophthalmology</i> , 2002 , 22, 279-85	2.6	12
40	Faster emergence behavior from ketamine/xylazine anesthesia with atipamezole versus yohimbine. <i>PLoS ONE</i> , 2018 , 13, e0199087	3.7	12
39	IRBP deficiency permits precocious ocular development and myopia. <i>Molecular Vision</i> , 2016 , 22, 1291-1308		11
38	Wheel running exercise protects against retinal degeneration in the I307N rhodopsin mouse model of inducible autosomal dominant retinitis pigmentosa. <i>Molecular Vision</i> , 2019 , 25, 462-476	2.3	11
37	Violet light suppresses lens-induced myopia via neuropsin (OPN5) in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	11
36	Lack of cone mediated retinal function increases susceptibility to form-deprivation myopia in mice. <i>Experimental Eye Research</i> , 2019 , 180, 226-230	3.7	11
35	Low-Intensity Exercise in Mice Is Sufficient to Protect Retinal Function During Light-Induced Retinal Degeneration 2019 , 60, 1328-1335		10
34	Integration of Perforated Subretinal Prostheses With Retinal Tissue. <i>Translational Vision Science and Technology</i> , 2015 , 4, 5	3.3	10
33	Arrestin 1 and Cone Arrestin 4 Have Unique Roles in Visual Function in an All-Cone Mouse Retina 2015 , 56, 7618-28		9
32	Neuroprotective effects of low level electrical stimulation therapy on retinal degeneration. <i>Advances in Experimental Medicine and Biology</i> , 2014 , 801, 845-51	3.6	9
31	Exercise and Cyclic Light Preconditioning Protect Against Light-Induced Retinal Degeneration and Evoke Similar Gene Expression Patterns. <i>Advances in Experimental Medicine and Biology</i> , 2016 , 854, 443-8	3.6	9
30	Assessment of Visual and Retinal Function Following In Vivo Genipin-Induced Scleral Crosslinking. <i>Translational Vision Science and Technology</i> , 2020 , 9, 8	3.3	9
29	Targeting retinal and choroid neovascularization using the small molecule inhibitor carboxyamidotriazole. <i>Brain Research Bulletin</i> , 2010 , 81, 320-6	3.9	8
28	A behavioral study of refraction, corneal curvature, and accommodation in raptor eyes. <i>Canadian Journal of Zoology</i> , 1997 , 75, 2010-2020	1.5	8

27	Impacts of high fat diet on ocular outcomes in rodent models of visual disease. <i>Experimental Eye Research</i> , 2021 , 204, 108440	3.7	7
26	Loss of bipolar cells resulting from the expression of bcl-2 directed by the IRBP promoter. <i>Experimental Eye Research</i> , 2003 , 77, 477-83	3.7	6
25	IMI 2021 Yearly Digest 2021 , 62, 7		6
24	Potential Role of Exercise in Retinal Health. <i>Progress in Molecular Biology and Translational Science</i> , 2015 , 134, 491-502	4	5
23	Inner retinal preservation in rat models of retinal degeneration implanted with subretinal photovoltaic arrays. <i>Experimental Eye Research</i> , 2014 , 128, 34-42	3.7	5
22	Topography and pachymetry maps for mouse corneas using optical coherence tomography. <i>Experimental Eye Research</i> , 2020 , 190, 107868	3.7	5
21	Tauroursodeoxycholic Acid Protects Retinal and Visual Function in a Mouse Model of Type 1 Diabetes. <i>Pharmaceutics</i> , 2021 , 13,	6.4	5
20	Using retinal function to define ischemic exclusion criteria for animal models of glaucoma. <i>Experimental Eye Research</i> , 2021 , 202, 108354	3.7	5
19	Neurosteroid allopregnanolone reduces ipsilateral visual cortex potentiation following unilateral optic nerve injury. <i>Experimental Neurology</i> , 2018 , 306, 138-148	5.7	5
18	Neuroprotection of photoreceptors in the RCS rat after implantation of a subretinal implant in the superior or inferior retina. <i>Advances in Experimental Medicine and Biology</i> , 2006 , 572, 321-6	3.6	5
17	Seasonally variant gene expression in full-term human placenta. <i>FASEB Journal</i> , 2020 , 34, 10431-10442	0.9	4
16	A biphasic approach for characterizing tensile, compressive and hydraulic properties of the sclera. <i>Journal of the Royal Society Interface</i> , 2021 , 18, 20200634	4.1	4
15	Initiation of L-DOPA Treatment After Detection of Diabetes-Induced Retinal Dysfunction Reverses Retinopathy and Provides Neuroprotection in Rats. <i>Translational Vision Science and Technology</i> , 2021 , 10, 8	3.3	3
14	Candidate pathways for retina to scleral signaling in refractive eye growth.. <i>Experimental Eye Research</i> , 2022 , 109071	3.7	3
13	Melanopsin modulates refractive development and myopia. <i>Experimental Eye Research</i> , 2021 , 214, 108866	3.7	2
12	Initial Assessment of Lactate as Mediator of Exercise-Induced Retinal Protection. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1185, 451-455	3.6	2
11	Light Environment Influences Developmental Programming of the Metabolic and Visual Systems in Mice 2021 , 62, 22		2
10	Tribbles Homolog 3 Mediates the Development and Progression of Diabetic Retinopathy. <i>Diabetes</i> , 2021 , 70, 1738-1753	0.9	2

9	Evaluation of Spatially Targeted Scleral Stiffening on Neuroprotection in a Rat Model of Glaucoma.. <i>Translational Vision Science and Technology</i> , 2022 , 11, 7	3.3	2
8	In vivo Structural Assessments of Ocular Disease in Rodent Models using Optical Coherence Tomography. <i>Journal of Visualized Experiments</i> , 2020 ,	1.6	1
7	A Biphasic Approach for Characterizing Tensile, Compressive, and Hydraulic Properties of the Sclera		1
6	Voluntary oral dosing for precise experimental compound delivery in adult rats. <i>Laboratory Animals</i> , 2021 , 236772211016926	2.6	1
5	Dependence of visual and cognitive outcomes on animal holder configuration in a rodent model of blast overpressure exposure. <i>Vision Research</i> , 2021 , 188, 162-173	2.1	1
4	Prehabilitative exercise hastens recovery from isoflurane in diabetic and non-diabetic rats. <i>Neuroscience Letters</i> , 2021 , 751, 135808	3.3	0
3	Developmental chronodisruption alters placental signaling in mice. <i>PLoS ONE</i> , 2021 , 16, e0255296	3.7	0
2	ON than OFF pathway disruption leads to greater deficits in visual function and retinal dopamine signaling.. <i>Experimental Eye Research</i> , 2022 , 220, 109091	3.7	0
1	Retinal prosthetics for the restoration and preservation of vision. <i>FASEB Journal</i> , 2007 , 21, A82	0.9	