Machelle T Pardue

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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

| # | Paper | IF | Citations |
|-----|--|-------|-----------|
| 116 | Candidate pathways for retina to scleral signaling in refractive eye growth <i>Experimental Eye Research</i> , 2022 , 109071 | 3.7 | 3 |
| 115 | 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 |
| 114 | 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 | O |
| 113 | Melanopsin modulates refractive development and myopia. Experimental Eye Research, 2021, 214, 108 | 86967 | 2 |
| 112 | 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 |
| 111 | IMI 2021 Yearly Digest 2021 , 62, 7 | | 6 |
| 110 | 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 |
| 109 | Prehabilitative exercise hastens recovery from isoflurane in diabetic and non-diabetic rats. <i>Neuroscience Letters</i> , 2021 , 751, 135808 | 3.3 | 0 |
| 108 | Light Environment Influences Developmental Programming of the Metabolic and Visual Systems in Mice 2021 , 62, 22 | | 2 |
| 107 | Tribbles Homolog 3 Mediates the Development and Progression of Diabetic Retinopathy. <i>Diabetes</i> , 2021 , 70, 1738-1753 | 0.9 | 2 |
| 106 | Reducing acetylated tau is neuroprotective in brain injury. <i>Cell</i> , 2021 , 184, 2715-2732.e23 | 56.2 | 18 |
| 105 | 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 |
| 104 | Tauroursodeoxycholic Acid Protects Retinal and Visual Function in a Mouse Model of Type 1 Diabetes. <i>Pharmaceutics</i> , 2021 , 13, | 6.4 | 5 |
| 103 | Using retinal function to define ischemic exclusion criteria for animal models of glaucoma. <i>Experimental Eye Research</i> , 2021 , 202, 108354 | 3.7 | 5 |
| 102 | A biphasic approach for characterizing tensile, compressive and hydraulic properties of the sclera. Journal of the Royal Society Interface, 2021 , 18, 20200634 | 4.1 | 4 |
| 101 | Voluntary oral dosing for precise experimental compound delivery in adult rats. <i>Laboratory Animals</i> , 2021 , 236772211016926 | 2.6 | 1 |
| 100 | Developmental chronodisruption alters placental signaling in mice. <i>PLoS ONE</i> , 2021 , 16, e0255296 | 3.7 | O |

| 99 | 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 |
|----|---|---------------|-----|
| 98 | Ambient Light Regulates Retinal Dopamine Signaling and Myopia Susceptibility 2021 , 62, 28 | | 14 |
| 97 | AxoNet: A deep learning-based tool to count retinal ganglion cell axons. <i>Scientific Reports</i> , 2020 , 10, 803 | 3 4 .9 | 14 |
| 96 | Increased endogenous dopamine prevents myopia in mice. Experimental Eye Research, 2020, 193, 10795 | 16 .7 | 16 |
| 95 | Short-Wavelength (Violet) Light Protects Mice From Myopia Through Cone Signaling 2020 , 61, 13 | | 21 |
| 94 | Novel Detection and Restorative Levodopa Treatment for Preclinical Diabetic Retinopathy. <i>Diabetes</i> , 2020 , 69, 1518-1527 | 0.9 | 15 |
| 93 | In vivo Structural Assessments of Ocular Disease in Rodent Models using Optical Coherence Tomography. <i>Journal of Visualized Experiments</i> , 2020 , | 1.6 | 1 |
| 92 | Topography and pachymetry maps for mouse corneas using optical coherence tomography. Experimental Eye Research, 2020 , 190, 107868 | 3.7 | 5 |
| 91 | Seasonally variant gene expression in full-term human placenta. <i>FASEB Journal</i> , 2020 , 34, 10431-10442 | 0.9 | 4 |
| 90 | 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 |
| 89 | Altered ocular parameters from circadian clock gene disruptions. <i>PLoS ONE</i> , 2019 , 14, e0217111 | 3.7 | 18 |
| 88 | Menopause exacerbates visual dysfunction in experimental glaucoma. <i>Experimental Eye Research</i> , 2019 , 186, 107706 | 3.7 | 12 |
| 87 | IMI - Report on Experimental Models of Emmetropization and Myopia 2019 , 60, M31-M88 | | 130 |
| 86 | Low-Intensity Exercise in Mice Is Sufficient to Protect Retinal Function During Light-Induced Retinal Degeneration 2019 , 60, 1328-1335 | | 10 |
| 85 | 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 |
| 84 | 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 |
| 83 | 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 |
| 82 | Retinal Deficits Precede Cognitive and Motor Deficits in a Rat Model of Type II Diabetes 2019 , 60, 123-1 | 33 | 13 |

| 81 | Neuroprotective strategies for retinal disease. <i>Progress in Retinal and Eye Research</i> , 2018 , 65, 50-76 | 20.5 | 99 |
|----------------------|---|--------------------------|----------------------|
| 80 | 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 |
| 79 | Circadian rhythms, refractive development, and myopia. <i>Ophthalmic and Physiological Optics</i> , 2018 , 38, 217-245 | 4.1 | 71 |
| 78 | 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 |
| 77 | 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 |
| 76 | Faster emergence behavior from ketamine/xylazine anesthesia with atipamezole versus yohimbine. <i>PLoS ONE</i> , 2018 , 13, e0199087 | 3.7 | 12 |
| 75 | Dopamine Deficiency Mediates Early Rod-Driven Inner Retinal Dysfunction in Diabetic Mice 2018 , 59, 572-581 | | 24 |
| 74 | Dim Light Exposure and Myopia in Children 2018 , 59, 4804-4811 | | 23 |
| 73 | Neurosteroid allopregnanolone reduces ipsilateral visual cortex potentiation following unilateral optic nerve injury. <i>Experimental Neurology</i> , 2018 , 306, 138-148 | 5.7 | 5 |
| 72 | 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 |
| | | | |
| 71 | Physical Activity and Quality of Life in Retinitis Pigmentosa. <i>Journal of Ophthalmology</i> , 2017 , 2017, 6950 | 0 <u>6</u> 42 | 13 |
| 7 ¹ | Physical Activity and Quality of Life in Retinitis Pigmentosa. <i>Journal of Ophthalmology</i> , 2017 , 2017, 6950. 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 | 0 6 42 5.6 | 13 |
| <i>,</i> | The RNA-binding protein, ZC3H14, is required for proper poly(A) tail length control, expression of | | |
| 70 | 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 Whole-eye electrical stimulation therapy preserves visual function and structure in P23H-1 rats. | 5.6 3·7 | 19 |
| 70 69 | 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 Whole-eye electrical stimulation therapy preserves visual function and structure in P23H-1 rats. <i>Experimental Eye Research</i> , 2016 , 149, 75-83 | 5.6 3·7 | 19 |
| 7° 69 68 | 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 Whole-eye electrical stimulation therapy preserves visual function and structure in P23H-1 rats. <i>Experimental Eye Research</i> , 2016 , 149, 75-83 IRBP deficiency permits precocious ocular development and myopia. <i>Molecular Vision</i> , 2016 , 22, 1291-1 Tauroursodeoxycholic Acid Protects Retinal Function and Structure in rd1 Mice. <i>Advances in</i> | 5.6 3.7 3@8 3.6 | 19 22 11 |
| 70 69 68 67 | 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 Whole-eye electrical stimulation therapy preserves visual function and structure in P23H-1 rats. <i>Experimental Eye Research</i> , 2016 , 149, 75-83 IRBP deficiency permits precocious ocular development and myopia. <i>Molecular Vision</i> , 2016 , 22, 1291-1 Tauroursodeoxycholic Acid Protects Retinal Function and Structure in rd1 Mice. <i>Advances in Experimental Medicine and Biology</i> , 2016 , 854, 431-6 Exercise and Cyclic Light Preconditioning Protect Against Light-Induced Retinal Degeneration and | 5.6 3.7 3@8 3.6 | 19 22 11 19 |

(2014-2016)

| 63 | Genome-Wide Scleral Micro- and Messenger-RNA Regulation During Myopia Development in the Mouse 2016 , 57, 6089-6097 | | 21 | |
|----|--|-----|----|--|
| 62 | Progesterone treatment shows greater protection in brain vs. retina in a rat modellof 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 | |
| 61 | Molecular and Biochemical Aspects of the Retina on Refraction. <i>Progress in Molecular Biology and Translational Science</i> , 2015 , 134, 249-67 | 4 | 23 | |
| 60 | Potential Role of Exercise in Retinal Health. <i>Progress in Molecular Biology and Translational Science</i> , 2015 , 134, 491-502 | 4 | 5 | |
| 59 | ON pathway mutations increase susceptibility to form-deprivation myopia. <i>Experimental Eye Research</i> , 2015 , 137, 79-83 | 3.7 | 44 | |
| 58 | Arrestin 1 and Cone Arrestin 4 Have Unique Roles in Visual Function in an All-Cone Mouse Retina 2015 , 56, 7618-28 | | 9 | |
| 57 | In Vivo Imaging of Retinal Oxidative Stress Using a Reactive Oxygen Species-Activated Fluorescent Probe 2015 , 56, 5862-70 | | 32 | |
| 56 | Integration of Perforated Subretinal Prostheses With Retinal Tissue. <i>Translational Vision Science and Technology</i> , 2015 , 4, 5 | 3.3 | 10 | |
| 55 | Progesterone treatment in two rat models of ocular ischemia 2015 , 56, 2880-91 | | 21 | |
| 54 | Visual Cone Arrestin 4 Contributes to Visual Function and Cone Health 2015 , 56, 5407-16 | | 14 | |
| 53 | Neuroprotective Effects of Voluntary Exercise in an Inherited Retinal Degeneration Mouse Model 2015 , 56, 6839-46 | | 34 | |
| 52 | 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 | |
| 51 | Aerobic exercise protects retinal function and structure from light-induced retinal degeneration. <i>Journal of Neuroscience</i> , 2014 , 34, 2406-12 | 6.6 | 56 | |
| 50 | 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 | |
| 49 | Severity of middle cerebral artery occlusion determines retinal deficits in rats. <i>Experimental Neurology</i> , 2014 , 254, 206-15 | 5.7 | 15 | |
| 48 | Refractive index measurement of the mouse crystalline lens using optical coherence tomography. <i>Experimental Eye Research</i> , 2014 , 125, 62-70 | 3.7 | 14 | |
| 47 | Rodent Hyperglycemia-Induced Inner Retinal Deficits are Mirrored in Human Diabetes. <i>Translational Vision Science and Technology</i> , 2014 , 3, 6 | 3.3 | 39 | |
| 46 | Visually-driven ocular growth in mice requires functional rod photoreceptors 2014 , 55, 6272-9 | | 44 | |

| 45 | 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 |
|----|--|--------|-----|
| 44 | Mouse b-wave mutants. <i>Documenta Ophthalmologica</i> , 2014 , 128, 77-89 | 2.2 | 35 |
| 43 | 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 |
| 42 | Pharmacology of myopia and potential role for intrinsic retinal circadian rhythms. <i>Experimental Eye Research</i> , 2013 , 114, 35-47 | 3.7 | 105 |
| 41 | Investigating mechanisms of myopia in mice. Experimental Eye Research, 2013, 114, 96-105 | 3.7 | 62 |
| 40 | Early visual deficits in streptozotocin-induced diabetic long evans rats 2013 , 54, 1370-7 | | 93 |
| 39 | Subretinal electrical stimulation preserves inner retinal function in RCS rat retina. <i>Molecular Vision</i> , 2013 , 19, 995-1005 | 2.3 | 15 |
| 38 | Retinal degeneration increases susceptibility to myopia in mice. <i>Molecular Vision</i> , 2013 , 19, 2068-79 | 2.3 | 27 |
| 37 | Assessment of axial length measurements in mouse eyes. <i>Optometry and Vision Science</i> , 2012 , 89, 296- | -30231 | 37 |
| 36 | MRI reveals differential regulation of retinal and choroidal blood volumes in rat retina. <i>NeuroImage</i> , 2011 , 54, 1063-9 | 7.9 | 23 |
| 35 | Effects of common anesthetics on eye movement and electroretinogram. <i>Documenta Ophthalmologica</i> , 2011 , 122, 163-76 | 2.2 | 56 |
| 34 | 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 |
| 33 | Effects of subretinal electrical stimulation in mer-KO mice 2011 , 52, 4223-30 | | 20 |
| 32 | Targeting retinal and choroid neovascularization using the small molecule inhibitor carboxyamidotriazole. <i>Brain Research Bulletin</i> , 2010 , 81, 320-6 | 3.9 | 8 |
| 31 | Non-contact measurement of linear external dimensions of the mouse eye. <i>Journal of Neuroscience Methods</i> , 2010 , 187, 156-66 | 3 | 19 |
| 30 | 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 |
| 29 | Retinal expression of Fgf2 in RCS rats with subretinal microphotodiode array 2009 , 50, 4523-30 | | 40 |
| 28 | Bile acids in treatment of ocular disease. <i>Journal of Ocular Biology, Diseases, and Informatics</i> , 2009 , 2, 149-159 | | 84 |

(2003-2008)

| 27 | 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 |
|----|---|------|-----|
| 26 | 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 |
| 25 | Head-mounted goggles for murine form deprivation myopia. <i>Journal of Neuroscience Methods</i> , 2007 , 161, 96-100 | 3 | 38 |
| 24 | Test of the paired-flash electroretinographic method in mice lacking b-waves. <i>Visual Neuroscience</i> , 2007 , 24, 141-9 | 1.7 | 13 |
| 23 | Retinal prosthetics for the restoration and preservation of vision. FASEB Journal, 2007, 21, A82 | 0.9 | |
| 22 | 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 |
| 21 | Status of the feline retina 5 years after subretinal implantation. <i>Journal of Rehabilitation Research and Development</i> , 2006 , 43, 723-32 | | 17 |
| 20 | 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 |
| 19 | Tool from ancient pharmacopoeia prevents vision loss. <i>Molecular Vision</i> , 2006 , 12, 1706-14 | 2.3 | 70 |
| 18 | Features of visual function in the naked mole-rat Heterocephalus glaber. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology,</i> 2005 , 191, 317-30 | 2.3 | 57 |
| 17 | Neuroprotective effect of subretinal implants in the RCS rat. <i>Investigative Ophthalmology and Visual Science</i> , 2005 , 46, 674-82 | | 92 |
| 16 | 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 |
| 15 | Possible sources of neuroprotection following subretinal silicon chip implantation in RCS rats. <i>Journal of Neural Engineering</i> , 2005 , 2, S39-47 | 5 | 46 |
| 14 | An ENU-induced mutation in Rs1h causes disruption of retinal structure and function. <i>Molecular Vision</i> , 2005 , 11, 569-81 | 2.3 | 33 |
| 13 | 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 |
| 12 | Retinal function after subconjunctival injection of carboplatin in fibrin sealant. <i>Retina</i> , 2004 , 24, 776-82 | 3.6 | 30 |
| 11 | 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 |
| 10 | Loss of bipolar cells resulting from the expression of bcl-2 directed by the IRBP promoter. Experimental Eye Research, 2003, 77, 477-83 | 3.7 | 6 |

| 9 | 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 | |
|---|--|-----|----|--|
| 8 | The eyes of mito-mouse: mouse models of mitochondrial disease. <i>Journal of Neuro-Ophthalmology</i> , 2002 , 22, 279-85 | 2.6 | 12 | |
| 7 | Subretinal implantation of semiconductor-based photodiodes: durability of novel implant designs. Journal of Rehabilitation Research and Development, 2002 , 39, 313-21 | | 31 | |
| 6 | Visual evoked potentials to infrared stimulation in normal cats and rats. <i>Documenta Ophthalmologica</i> , 2001 , 103, 155-62 | 2.2 | 14 | |
| 5 | 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 | |
| 4 | Age-related changes in human ciliary muscle. Optometry and Vision Science, 2000, 77, 204-10 | 2.1 | 56 | |
| 3 | The functional anatomy of the ciliary muscle in four avian species. <i>Brain, Behavior and Evolution</i> , 1997 , 49, 295-311 | 1.5 | 15 | |
| 2 | 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 | |
| 1 | A Biphasic Approach for Characterizing Tensile, Compressive, and Hydraulic Properties of the Sclera | | 1 | |