

# Jan M Provis

## List of Publications by Year in descending order

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94  
papers

7,065  
citations

57631

44  
h-index

64668

79  
g-index

94  
all docs

94  
docs citations

94  
times ranked

6062  
citing authors

#	ARTICLE	IF	CITATIONS
1	DICER1 deficit induces Alu RNA toxicity in age-related macular degeneration. <i>Nature</i> , 2011, 471, 325-330.	13.7	573
2	Retinal microglia: Just bystander or target for therapy?. <i>Progress in Retinal and Eye Research</i> , 2015, 45, 30-57.	7.3	433
3	Immunological and Aetiological Aspects of Macular Degeneration. <i>Progress in Retinal and Eye Research</i> , 2001, 20, 385-414.	7.3	425
4	Development of the Primate Retinal Vasculature. <i>Progress in Retinal and Eye Research</i> , 2001, 20, 799-821.	7.3	328
5	Mechanisms of photoreceptor death and survival in mammalian retina. <i>Progress in Retinal and Eye Research</i> , 1999, 18, 689-735.	7.3	257
6	Adaptation of the central retina for high acuity vision: Cones, the fovea and the avascular zone. <i>Progress in Retinal and Eye Research</i> , 2013, 35, 63-81.	7.3	210
7	Development of the human retina: Patterns of cell distribution and redistribution in the ganglion cell layer. <i>Journal of Comparative Neurology</i> , 1985, 233, 429-451.	0.9	203
8	Human fetal optic nerve: Overproduction and elimination of retinal axons during development. <i>Journal of Comparative Neurology</i> , 1985, 238, 92-100.	0.9	194
9	Development of the Human Retinal Vasculature: Cellular Relations and VEGF Expression. <i>Experimental Eye Research</i> , 1997, 65, 555-568.	1.2	187
10	Anatomy and development of the macula: specialisation and the vulnerability to macular degeneration. <i>Australasian journal of optometry, The</i> , 2005, 88, 269-281.	0.6	160
11	Triamcinolone acetonide modulates permeability and intercellular adhesion molecule-1 (ICAM-1) expression of the ECV304 cell line: implications for macular degeneration. <i>Clinical and Experimental Immunology</i> , 2000, 121, 458-465.	1.1	147
12	The distribution and size of ganglion cells in the retina of the pigmented rabbit: A quantitative analysis. <i>Journal of Comparative Neurology</i> , 1979, 185, 121-137.	0.9	137
13	The locations of mitochondria in mammalian photoreceptors: Relation to retinal vasculature. <i>Brain Research</i> , 2008, 1189, 58-69.	1.1	127
14	Autoantibodies to retinal astrocytes associated with age-related macular degeneration. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 1990, 228, 270-274.	1.0	119
15	Chemokine-mediated inflammation in the degenerating retina is coordinated by M $\mu$ 4lller cells, activated microglia, and retinal pigment epithelium. <i>Journal of Neuroinflammation</i> , 2015, 12, 8.	3.1	117
16	Small interfering RNA-mediated suppression of Ccl2 in M $\mu$ 4lller cells attenuates microglial recruitment and photoreceptor death following retinal degeneration. <i>Journal of Neuroinflammation</i> , 2012, 9, 221.	3.1	113
17	Rod photoreceptor differentiation in fetal and infant human retina. <i>Experimental Eye Research</i> , 2008, 87, 415-426.	1.2	111
18	Cell death in the development of the human retina: phagocytosis of pyknotic and apoptotic bodies by retinal cells. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 1986, 224, 549-553.	1.0	103

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19	Microglia-derived IL-1 $\beta$ promotes chemokine expression by M $\mu$ ller cells and RPE in focal retinal degeneration. <i>Molecular Neurodegeneration</i> , 2017, 12, 31.	4.4	101
20	Age-related macular degeneration: ultrastructural studies of the relationship of leucocytes to angiogenesis. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 1987, 225, 70-76.	1.0	96
21	Retinal Macrophages Synthesize C3 and Activate Complement in AMD and in Models of Focal Retinal Degeneration. , 2017, 58, 2977.		95
22	Evidence of photoreceptor migration during early foveal development: A quantitative analysis of human fetal retinae. <i>Visual Neuroscience</i> , 1992, 8, 505-514.	0.5	91
23	The Human Hyaloid System: Cell Death and Vascular Regression. <i>Experimental Eye Research</i> , 2000, 70, 767-776.	1.2	90
24	Microstructure and Network Organization of the Microvasculature in the Human Macula. , 2010, 51, 6735.		90
25	Brief Exposure to Damaging Light Causes Focal Recruitment of Macrophages, and Long-Term Destabilization of Photoreceptors in the Albino Rat Retina. <i>Current Eye Research</i> , 2010, 35, 631-643.	0.7	90
26	Development of microglial topography in human retina. <i>Journal of Comparative Neurology</i> , 1995, 363, 53-68.	0.9	89
27	Evaluation of Normal Human Foveal Development Using Optical Coherence Tomography and Histologic Examination. <i>JAMA Ophthalmology</i> , 2012, 130, 1291.	2.6	87
28	Early Focal Expression of the Chemokine Ccl2 by M $\mu$ ller Cells during Exposure to Damage-Inducing Bright Continuous Light. , 2011, 52, 2379.		86
29	Analysis of Complement Expression in Light-Induced Retinal Degeneration: Synthesis and Deposition of C3 by Microglia/Macrophages Is Associated with Focal Photoreceptor Degeneration. , 2011, 52, 5347.		84
30	Human retinal microglia: Expression of immune markers and relationship to the Glia limitans. <i>Glia</i> , 1995, 14, 243-256.	2.5	81
31	Muller cells express the neuronal progenitor cell marker nestin in both differentiated and undifferentiated human foetal retina. <i>Clinical and Experimental Ophthalmology</i> , 2003, 31, 246-249.	1.3	75
32	Cone Degeneration in Aging and Age-Related Macular Degeneration. <i>JAMA Ophthalmology</i> , 2009, 127, 483.	2.6	74
33	INTERMEDIATE FILAMENT EXPRESSION IN HUMAN RETINAL MACROGLIA. <i>Retina</i> , 1994, 14, 65-74.	1.0	73
34	Red/near-infrared irradiation therapy for treatment of central nervous system injuries and disorders. <i>Reviews in the Neurosciences</i> , 2013, 24, 205-26.	1.4	71
35	A model of progressive photo-oxidative degeneration and inflammation in the pigmented C57BL/6J mouse retina. <i>Experimental Eye Research</i> , 2016, 147, 114-127.	1.2	70
36	Human retinal microglia express phenotypic characteristics in common with dendritic antigen-presenting cells. <i>Journal of Neuroimmunology</i> , 1993, 45, 183-191.	1.1	67

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37	Angiogenesis in normal human retinal development the involvement of astrocytes and macrophages. Graefe's Archive for Clinical and Experimental Ophthalmology, 1990, 228, 255-263.	1.0	63
38	Antibodies to human leucocyte antigens indicate subpopulations of microglia in human retina. Visual Neuroscience, 1991, 7, 383-388.	0.5	59
39	Patterns of cell death in the ganglion cell layer of the human fetal retina. Journal of Comparative Neurology, 1987, 259, 237-246.	0.9	57
40	Gradients of cone differentiation and FGF expression during development of the foveal depression in macaque retina. Visual Neuroscience, 2005, 22, 447-459.	0.5	56
41	VEGF expression by ganglion cells in central retina before formation of the foveal depression in monkey retina: Evidence of developmental hypoxia. Journal of Comparative Neurology, 2003, 462, 42-54.	0.9	55
42	Synthesis and Propagation of Complement C3 by Microglia/Monocytes in the Aging Retina. PLoS ONE, 2014, 9, e93343.	1.1	53
43	The role of opsin expression and apoptosis in determination of cone types in human retina. Experimental Eye Research, 2004, 78, 1143-1154.	1.2	52
44	670-nm light treatment reduces complement propagation following retinal degeneration. Journal of Neuroinflammation, 2012, 9, 257.	3.1	52
45	Early differentiation of ganglion, amacrine, bipolar, and muller cells in the developing fovea of human retina. Journal of Comparative Neurology, 1990, 291, 203-219.	0.9	49
46	Photoreceptor and ganglion cell topographies correlate with information convergence and high acuity regions in the adult pigeon ( <i>Columba livia</i> ) retina. Journal of Comparative Neurology, 2009, 517, 711-722.	0.9	48
47	Differential expression of anti-angiogenic factors and guidance genes in the developing macula. Molecular Vision, 2009, 15, 45-59.	1.1	48
48	Distribution of short-wavelength-sensitive cones in human fetal and postnatal retina: early development of spatial order and density profiles. Vision Research, 2004, 44, 2019-2026.	0.7	47
49	670nm Photobiomodulation as a Novel Protection against Retinopathy of Prematurity: Evidence from Oxygen Induced Retinopathy Models. PLoS ONE, 2013, 8, e72135.	1.1	47
50	The Human Hyaloid System: Cellular Phenotypes and Inter-relationships. Experimental Eye Research, 1999, 68, 553-563.	1.2	46
51	Stem Cell Activity in the Developing Human Cornea. Stem Cells, 2009, 27, 2781-2792.	1.4	45
52	Apoptosis during development of the human retina: Relationship to foveal development and retinal synaptogenesis. , 1999, 413, 198-208.		43
53	Astrocyte Proliferation During Development of the Human Retinal Vasculature. Experimental Eye Research, 1999, 69, 511-523.	1.2	43
54	Spatiotemporal Cadence of Macrophage Polarisation in a Model of Light-Induced Retinal Degeneration. PLoS ONE, 2015, 10, e0143952.	1.1	43

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55	The organization of the facial nucleus of the brush-tailed possum ( <i>Trichosurus vulpecula</i> ). <i>Journal of Comparative Neurology</i> , 1977, 172, 177-188.	0.9	42
56	The Cellular Expression of Antiangiogenic Factors in Fetal Primate Macula. , 2010, 51, 4298.		42
57	NADPH-diaphorase neurones of human retinae have a uniform topographical distribution. <i>Visual Neuroscience</i> , 1990, 4, 619-623.	0.5	40
58	Expression and Role of the Early-Response Gene <i>Oxr1</i> in the Hyperoxia-Challenged Mouse Retina. , 2008, 49, 4561.		40
59	Somatostatinergic neurones of the developing human and cat retinae. <i>Neuroscience Letters</i> , 1989, 104, 209-216.	1.0	39
60	Differential Effects of 670 and 830 nm Red near Infrared Irradiation Therapy: A Comparative Study of Optic Nerve Injury, Retinal Degeneration, Traumatic Brain and Spinal Cord Injury. <i>PLoS ONE</i> , 2014, 9, e104565.	1.1	39
61	Ontogeny and cellular expression of MHC and leucocyte antigens in human retina. <i>Glia</i> , 1995, 15, 458-470.	2.5	38
62	670Ånm light mitigates oxygen-induced degeneration in C57BL/6J mouse retina. <i>BMC Neuroscience</i> , 2013, 14, 125.	0.8	37
63	NADPH-diaphorase reactivity in adult and developing cat retinae. <i>Cell and Tissue Research</i> , 1991, 265, 371-379.	1.5	33
64	Identification of miRNAs in a Model of Retinal Degenerations. , 2015, 56, 1820.		27
65	Modulation of MHC Class II Expression in the Absence of Lymphocytic Infiltrates in Alzheimer's Retinae. <i>Journal of Neuropathology and Experimental Neurology</i> , 1994, 53, 150-157.	0.9	24
66	A distinctive soma size gradient among catecholaminergic neurones of human retinae. <i>Brain Research</i> , 1990, 527, 69-75.	1.1	23
67	What Determines Motor Neuron Number? Slow Scaling of Facial Motor Neuron Numbers With Body Mass in Marsupials and Primates. <i>Anatomical Record</i> , 2012, 295, 1683-1691.	0.8	23
68	Differential effects of TGF $\beta$ <sup>1</sup> and FGF $\beta$ <sup>2</sup> on <i>in vitro</i> proliferation and migration of primate retinal endothelial and Müller cells. <i>Acta Ophthalmologica</i> , 2011, 89, e263-8.	0.6	19
69	Differential distribution of fibroblast growth factor receptors (FGFRs) on foveal cones: FGFR-4 is an early marker of cone photoreceptors. <i>Molecular Vision</i> , 2004, 10, 1-14.	1.1	19
70	A new theoretical approach to improving face recognition in disorders of central vision: Face caricaturing. <i>Journal of Vision</i> , 2014, 14, 12-12.	0.1	18
71	Photobiomodulation with 670Ånm light ameliorates Müller cell-mediated activation of microglia and macrophages in retinal degeneration. <i>Experimental Eye Research</i> , 2017, 165, 78-89.	1.2	18
72	RETINAL DEVELOPMENT IN HUMANS: THE ROLES OF DIFFERENTIAL GROWTH RATES, CELL MIGRATION AND NATURALLY OCCURRING CELL DEATH. <i>Australian and New Zealand Journal of Ophthalmology</i> , 1985, 13, 125-133.	0.4	17

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73	Gradients of Eph-A6 expression in primate retina suggest roles in both vascular and axon guidance. <i>Molecular Vision</i> , 2009, 15, 2649-62.	1.1	17
74	The Role of Pyruvate in Protecting 661W Photoreceptor-Like Cells Against Light-Induced Cell Death. <i>Current Eye Research</i> , 2016, 41, 1473-1481.	0.7	16
75	Proteomic Analysis of Embryonic and Young Human Vitreous. , 2015, 56, 7036.		14
76	Role of Chemokines in Shaping Macrophage Activity in AMD. <i>Advances in Experimental Medicine and Biology</i> , 2016, 854, 11-16.	0.8	13
77	VISUAL DEPRIVATION IN INFANCY AND CHILDHOOD: CLINICAL ASPECTS. <i>Australian and New Zealand Journal of Ophthalmology</i> , 1985, 13, 279-286.	0.4	12
78	Development of the foveal avascular zone. <i>Ophthalmology</i> , 2000, 107, 1026.	2.5	12
79	Muller cell expression of glutamate cycle related proteins and anti-apoptotic proteins in early human retinal development. <i>British Journal of Ophthalmology</i> , 2006, 90, 223-228.	2.1	12
80	Photoreceptor Stability and Degeneration in Mammalian Retina: Lessons from the Edge. , 2005, , 149-165.		8
81	Differential gene expression in the developing human macula: microarray analysis using rare tissue samples. <i>Journal of Ocular Biology, Diseases, and Informatics</i> , 2009, 2, 176-189.	0.2	8
82	Integral-geometry characterization of photobiomodulation effects on retinal vessel morphology. <i>Biomedical Optics Express</i> , 2014, 5, 2317.	1.5	8
83	Morphology of intraretinal new vessels in the PETH rat. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 1988, 226, 576-582.	1.0	7
84	Preservation of the Foveal Avascular Zone in Achromatopsia Despite the Absence of a Fully Formed Pit. , 2020, 61, 52.		7
85	Anti-inflammatory and neuroprotective properties of the corticosteroid fludrocortisone in retinal degeneration. <i>Experimental Eye Research</i> , 2021, 212, 108765.	1.2	7
86	Endothelial cell proliferation in the choriocapillaris during human retinal differentiation. <i>British Journal of Ophthalmology</i> , 2006, 90, 1046-1051.	2.1	6
87	Neuropeptide expression in the human fetal hyaloid vasculature and vitreous. <i>Australian and New Zealand Journal of Ophthalmology</i> , 1996, 24, 72-74.	0.4	4
88	Morphological, functional and gene expression analysis of the hyperoxic mouse retina. <i>Experimental Eye Research</i> , 2011, 92, 306-314.	1.2	4
89	Complement Activation in Retinal Degeneration. <i>Advances in Experimental Medicine and Biology</i> , 2012, 723, 31-36.	0.8	4
90	A safety and feasibility study of the use of 670nm red light in premature neonates. <i>Journal of Perinatology</i> , 2015, 35, 493-496.	0.9	3

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91	Immunology and Age-Related Macular Degeneration. , 2005, , 25-44.		2
92	II.A. Development and Developmental Disorders of Vitreous. , 2014, , 95-111.		2
93	Ablation of C3 modulates macrophage reactivity in the outer retina during photo-oxidative damage. Molecular Vision, 2020, 26, 679-690.	1.1	1
94	The paradoxical effects of light on photoreceptors. Clinical and Experimental Ophthalmology, 2014, 42, 513-514.	1.3	0