Erica L Fletcher

List of Publications by Citations

137 papers	4,920 citations	42 h-index	63 g-index
149 ext. papers	5,592 ext. citations	4.3 avg, IF	5.61 L-index

#	Paper	IF	Citations
137	Glycine and GABA receptors in the mammalian retina. *Vision Research*, **1998**, 38, 1411-30	2.1	222
136	Immunocytochemical localization of the postsynaptic density protein PSD-95 in the mammalian retina. *Journal of Neuroscience*, **1998**, 18, 10136-49	6.6	188
135	Neuronal and glial cell abnormality as predictors of progression of diabetic retinopathy. *Current Pharmaceutical Design*, **2007**, 13, 2699-712	3.3	155
134	Synaptic localization of NMDA receptor subunits in the rat retina **2000**, 420, 98-112		140
133	Immunocytochemical localization of the amino acid neurotransmitters in the chicken retina. *Journal of Comparative Neurology*, **1993**, 336, 174-93	3.4	136
132	Paired-flash identification of rod and cone dysfunction in the diabetic rat. *Investigative Ophthalmology and Visual Science*, **2004**, 45, 4592-600		117
131	Early inner retinal astrocyte dysfunction during diabetes and development of hypoxia, retinal stress, and neuronal functional loss **2011**, 52, 9316-26		109
130	The renin-angiotensin system in retinal health and disease: Its influence on neurons, glia and the vasculature. *Progress in Retinal and Eye Research*, **2010**, 29, 284-311	20.5	106
129	GABAA and GABAC receptors on mammalian rod bipolar cells. *Journal of Comparative Neurology*, **1998**, 396, 351-65	3.4	106
128	Purines in the eye: recent evidence for the physiological and pathological role of purines in the RPE, retinal neurons, astrocytes, M□ller cells, lens, trabecular meshwork, cornea and lacrimal gland. *Experimental Eye Research*, **2014**, 127, 270-9	3.7	92
127	Subthreshold Nanosecond Laser Intervention in Age-Related Macular Degeneration: The LEAD Randomized Controlled Clinical Trial. *Ophthalmology*, **2019**, 126, 829-838	7.3	89
126	Synaptic localization of P2X7 receptors in the rat retina. *Journal of Comparative Neurology*, **2004**, 472, 13-23	3.4	88
125	Localisation of amino acid neurotransmitters during postnatal development of the rat retina. *Journal of Comparative Neurology*, **1997**, 380, 449-71	3.4	85
124	Dysfunction of retinal neurons and glia during diabetes. *Australasian journal of optometry, The*, **2005**, 88, 132-45	2.7	85
123	AT1 receptor inhibition prevents astrocyte degeneration and restores vascular growth in oxygen-induced retinopathy. *Glia*, **2008**, 56, 1076-90	9	80
122	Correlation of Histologic Features with In□Vivo Imaging of Reticular Pseudodrusen. *Ophthalmology*, **2016**, 123, 1320-31	7.3	77
121	Characterization of retinal function and glial cell response in a mouse model of oxygen-induced retinopathy. *Journal of Comparative Neurology*, **2011**, 519, 506-27	3.4	75

120	Synaptic distribution of ionotropic glutamate receptors in the inner plexiform layer of the primate retina. *Journal of Comparative Neurology*, **2002**, 447, 138-51	3.4	74
119	Nanosecond laser therapy reverses pathologic and molecular changes in age-related macular degeneration without retinal damage. *FASEB Journal*, **2015**, 29, 696-710	0.9	73
118	Neurochemical architecture of the normal and degenerating rat retina. *Journal of Comparative Neurology*, **1996**, 376, 343-60	3.4	72
117	Retinitis pigmentosa: understanding the clinical presentation, mechanisms and treatment options. *Australasian journal of optometry, The*, **2004**, 87, 65-80	2.7	69
116	Glutamate uptake in retinal glial cells during diabetes. *Diabetologia*, **2005**, 48, 351-60	10.3	67
115	Evidence for the involvement of purinergic P2X receptors in outer retinal processing. *European Journal of Neuroscience*, **2006**, 24, 7-19	3.5	66
114	Extracellular ATP induces retinal photoreceptor apoptosis through activation of purinoceptors in rodents. *Journal of Comparative Neurology*, **2009**, 513, 430-40	3.4	63
113	Animal models of retinal disease. *Progress in Molecular Biology and Translational Science*, **2011**, 100, 211-86	4	63
112	Functional remodeling of glutamate receptors by inner retinal neurons occurs from an early stage of retinal degeneration. *Journal of Comparative Neurology*, **2009**, 514, 473-91	3.4	60
111	Neurochemical development of the degenerating rat retina. *Journal of Comparative Neurology*, **1997**, 388, 1-22	3.4	59
110	Rod photoreceptor dysfunction in diabetes: activation, deactivation, and dark adaptation. *Investigative Ophthalmology and Visual Science*, **2006**, 47, 3187-94		59
109	Distribution of two splice variants of the glutamate transporter GLT1 in the retinas of humans, monkeys, rabbits, rats, cats, and chickens. *Journal of Comparative Neurology*, **2002**, 445, 1-12	3.4	58
108	Studying age-related macular degeneration using animal models. *Optometry and Vision Science*, **2014**, 91, 878-86	2.1	56
107	RILLKKMPSV influences the vasculature, neurons and glia, and (pro)renin receptor expression in the retina. *Hypertension*, **2010**, 55, 1454-60	8.5	55
106	Retinal dysfunction in diabetic ren-2 rats is ameliorated by treatment with valsartan but not atenolol. *Investigative Ophthalmology and Visual Science*, **2007**, 48, 927-34		52
105	Localization and expression of the glutamate transporter, excitatory amino acid transporter 4, within astrocytes of the rat retina. *Cell and Tissue Research*, **2004**, 315, 305-10	4.2	51
104	A rare functional haplotype of the P2RX4 and P2RX7 genes leads to loss of innate phagocytosis and confers increased risk of age-related macular degeneration. *FASEB Journal*, **2013**, 27, 1479-87	0.9	49
103	Rod and cone pathway signalling is altered in the P2X7 receptor knock out mouse. *PLoS ONE*, **2012**, 7, e29990	3.7	49

102	Neuronal and glial cell expression of angiotensin II type 1 (AT1) and type 2 (AT2) receptors in the rat retina. *Neuroscience*, **2009**, 161, 195-213	3.9	48
101	Neuronal and glial cell changes are determined by retinal vascularization in retinopathy of prematurity. *Journal of Comparative Neurology*, **2007**, 504, 404-17	3.4	47
100	Ccl2/Cx3cr1 knockout mice have inner retinal dysfunction but are not an accelerated model of AMD **2012**, 53, 7833-46		45
99	Neuronal expression of P2X3 purinoceptors in the rat retina. *Neuroscience*, **2007**, 146, 403-14	3.9	45
98	Angiotensin and bradykinin: targets for the treatment of vascular and neuro-glial pathology in diabetic retinopathy. *Current Pharmaceutical Design*, **2004**, 10, 3313-30	3.3	43
97	How Azobenzene Photoswitches Restore Visual Responses to the Blind Retina. *Neuron*, **2016**, 92, 100-113	3.9	43
96	The significance of neuronal and glial cell changes in the rat retina during oxygen-induced retinopathy. *Documenta Ophthalmologica*, **2010**, 120, 67-86	2.2	42
95	Functional and neurochemical development in the normal and degenerating mouse retina. *Journal of Comparative Neurology*, **2013**, 521, 1251-67	3.4	40
94	P2X2 receptors on ganglion and amacrine cells in cone pathways of the rat retina. *Journal of Comparative Neurology*, **2006**, 496, 595-609	3.4	39
93	Indoleamine-accumulating amacrine cells are presynaptic to rod bipolar cells through GABA(C) receptors. *Journal of Comparative Neurology*, **1999**, 413, 155-67	3.4	39
92	Using the rd1 mouse to understand functional and anatomical retinal remodelling and treatment implications in retinitis pigmentosa: A review. *Experimental Eye Research*, **2016**, 150, 106-21	3.7	38
91	Neuronal and glial localization of GABA transporter immunoreactivity in the myenteric plexus. *Cell and Tissue Research*, **2002**, 308, 339-46	4.2	38
90	Vesicular expression and release of ATP from dopaminergic neurons of the mouse retina and midbrain. *Frontiers in Cellular Neuroscience*, **2015**, 9, 389	6.1	37
89	Angiotensin type-1 receptor inhibition is neuroprotective to amacrine cells in a rat model of retinopathy of prematurity. *Journal of Comparative Neurology*, **2010**, 518, 41-63	3.4	37
88	Early markers of retinal degeneration in rd/rd mice. *Molecular Vision*, **2005**, 11, 717-28	2.3	36
87	Connexin43 Mimetic Peptide Improves Retinal Function and Reduces Inflammation in a Light-Damaged Albino Rat Model **2016**, 57, 3961-73		35
86	A review of the role of glial cells in understanding retinal disease. *Australasian journal of optometry, The*, **2008**, 91, 67-77	2.7	31
85	Localization and possible function of P2Y(4) receptors in the rodent retina. *Neuroscience*, **2008**, 155, 1263-74	3.3	31

84	Expression, distribution and ultrastructural localization of the synapse-organizing molecule agrin in the mature avian retina. *European Journal of Neuroscience*, **1999**, 11, 4188-96	3.5	31
83	Innate phagocytosis by peripheral blood monocytes is altered in Alzheimer's disease. *Acta Neuropathologica*, **2016**, 132, 377-89	14.3	30
82	Adenosine triphosphate-induced photoreceptor death and retinal remodeling in rats. *Journal of Comparative Neurology*, **2014**, 522, 2928-50	3.4	30
81	Retinal dysfunction, photoreceptor protein dysregulation and neuronal remodelling in the R6/1 mouse model of Huntington's disease. *Neurobiology of Disease*, **2012**, 45, 887-96	7.5	29
80	A role for omega-3 polyunsaturated fatty acid supplements in diabetic neuropathy **2010**, 51, 1755-64		29
79	In vivo quantification of retinal changes associated with drusen in age-related macular degeneration. *Investigative Ophthalmology and Visual Science*, **2015**, 56, 1689-700		28
78	A naturally occurring mouse model of achromatopsia: characterization of the mutation in cone transducin and subsequent retinal phenotype **2013**, 54, 3350-9		28
77	The role of pili in the attachment of Pseudomonas aeruginosa to unworn hydrogel contact lenses. *Current Eye Research*, **1993**, 12, 1067-71	2.9	28
76	ATP-induced photoreceptor death in a feline model of retinal degeneration. *Investigative Ophthalmology and Visual Science*, **2014**, 55, 8319-29		27
75	The effect of photoreceptor degeneration on ganglion cell morphology. *Journal of Comparative Neurology*, **2014**, 522, 1155-70	3.4	27
74	Retinal amino acid neurochemistry in health and disease. *Australasian journal of optometry, The*, **2013**, 96, 310-32	2.7	26
73	Characterization of the Circumlimbal Suture Model of Chronic IOP Elevation in Mice and Assessment of Changes in Gene Expression of Stretch Sensitive Channels. *Frontiers in Neuroscience*, **2017**, 11, 41	5.1	25
72	Amyloid precursor protein is required for normal function of the rod and cone pathways in the mouse retina. *PLoS ONE*, **2012**, 7, e29892	3.7	25
71	Restorative retinal laser therapy: Present state and future directions. *Survey of Ophthalmology*, **2018**, 63, 307-328	6.1	24
70	Diamond Devices for High Acuity Prosthetic Vision. *Advanced Biology*, **2017**, 1, e1600003	3.5	23
69	Sildenafil alters retinal function in mouse carriers of retinitis pigmentosa. *Experimental Eye Research*, **2014**, 128, 43-56	3.7	23
68	Retinal prosthesis safety: alterations in microglia morphology due to thermal damage and retinal implant contact **2012**, 53, 7802-12		23
67	Relationship between the magnitude of intraocular pressure during an episode of acute elevation and retinal damage four weeks later in rats. *PLoS ONE*, **2013**, 8, e70513	3.7	23

66	Loss of Function of P2X7 Receptor Scavenger Activity in Aging Mice: A Novel Model for Investigating the Early Pathogenesis of Age-Related Macular Degeneration. *American Journal of Pathology*, **2017**, 187, 1670-1685	5.8	22
65	Immunolocalization of the P2X4 receptor on neurons and glia in the mammalian retina. *Neuroscience*, **2014**, 277, 55-71	3.9	22
64	Micro-CT and Histological Evaluation of an Neural Interface Implanted Within a Blood Vessel. *IEEE Transactions on Biomedical Engineering*, **2017**, 64, 928-934	5	22
63	Subsets of retinal neurons and glia express P2Y1 receptors. *Neuroscience*, **2009**, 160, 555-66	3.9	22
62	Localization and possible function of the glutamate transporter, EAAC1, in the rat retina. *Cell and Tissue Research*, **2002**, 310, 31-40	4.2	22
61	Gene expression and localization of GABA(C) receptors in neurons of the rat gastrointestinal tract. *Neuroscience*, **2001**, 107, 181-9	3.9	22
60	Changes in ganglion cells during retinal degeneration. *Neuroscience*, **2016**, 329, 1-11	3.9	22
59	Early remodeling of MÜller cells in the rd/rd mouse model of retinal dystrophy. *Journal of Comparative Neurology*, **2013**, 521, 2439-53	3.4	21
58	Rod Photoreceptor Activation Alone Defines the Release of Dopamine in the Retina. *Current Biology*, **2019**, 29, 763-774.e5	6.3	19
57	The Role of the Microglial Cx3cr1 Pathway in the Postnatal Maturation of Retinal Photoreceptors. *Journal of Neuroscience*, **2018**, 38, 4708-4723	6.6	19
56	Retinal metabolic state of the proline-23-histidine rat model of retinitis pigmentosa. *American Journal of Physiology - Cell Physiology*, **2010**, 298, C764-74	5.4	19
55	Retinal anatomy and function of the transthyretin null mouse. *Experimental Eye Research*, **2001**, 73, 651-9	3.7	19
54	Mechanisms of photoreceptor death during retinal degeneration. *Optometry and Vision Science*, **2010**, 87, 269-75	2.1	19
53	Alterations in neurochemistry during retinal degeneration. *Microscopy Research and Technique*, **2000**, 50, 89-102	2.8	17
52	The renin-angiotensin system and the retinal neurovascular unit: A role in vascular regulation and disease. *Experimental Eye Research*, **2019**, 187, 107753	3.7	16
51	Assessment of retinal function and morphology in aging Ccl2 knockout mice. *Investigative Ophthalmology and Visual Science*, **2015**, 56, 1238-52		16
50	Stimulation of a Suprachoroidal Retinal Prosthesis Drives Cortical Responses in a Feline Model of Retinal Degeneration **2016**, 57, 5216-5229		16
49	Electronic restoration of vision in those with photoreceptor degenerations. *Australasian journal of optometry, The*, **2012**, 95, 473-83	2.7	15

48	Mapping kainate activation of inner neurons in the rat retina. *Journal of Comparative Neurology*, **2013**, 521, 2416-38	3.4	15
47	The Role of Angiotensin II/AT1 Receptor Signaling in Regulating Retinal Microglial Activation **2018**, 59, 487-498		14
46	Design, development and characterization of synthetic Bruch's membranes. *Acta Biomaterialia*, **2017**, 64, 357-376	10.8	13
45	Targeting P2X7 receptors as a means for treating retinal disease. *Drug Discovery Today*, **2019**, 24, 1598-1605	6.8	13
44	Characterization of histamine projections and their potential cellular targets in the mouse retina. *Neuroscience*, **2009**, 158, 932-44	3.9	13
43	Retinal Changes in an ATP-Induced Model of Retinal Degeneration. *Frontiers in Neuroanatomy*, **2016**, 10, 46	3.6	13
42	Failure of Autophagy-Lysosomal Pathways in Rod Photoreceptors Causes the Early Retinal Degeneration Phenotype Observed in Cln6nclf Mice **2018**, 59, 5082-5097		13
41	The role of purinergic receptors in retinal function and disease. *Advances in Experimental Medicine and Biology*, **2010**, 664, 385-91	3.6	13
40	Contribution of microglia and monocytes to the development and progression of age related macular degeneration. *Ophthalmic and Physiological Optics*, **2020**, 40, 128-139	4.1	12
39	Localization and Possible Function of P2X Receptors in Normal and Diseased Retinae. *Journal of Ocular Pharmacology and Therapeutics*, **2016**, 32, 509-517	2.6	12
38	Uteroplacental insufficiency leads to hypertension, but not glucose intolerance or impaired skeletal muscle mitochondrial biogenesis, in 12-month-old rats. *Physiological Reports*, **2015**, 3, e12556	2.6	12
37	The vasoneuronal effects of AT1 receptor blockade in a rat model of retinopathy of prematurity **2014**, 55, 3957-70		12
36	Prorenin and the (pro)renin receptor: do they have a pathogenic role in the retina?. *Frontiers in Bioscience - Elite*, **2010**, 2, 1054-64	1.6	11
35	Alternative pathways in the development of diabetic retinopathy: the renin-angiotensin and kallikrein-kinin systems. *Australasian journal of optometry, The*, **2012**, 95, 282-9	2.7	10
34	Inner retinal change in a novel rd1-FTL mouse model of retinal degeneration. *Frontiers in Cellular Neuroscience*, **2015**, 9, 293	6.1	10
33	Reversibility of Retinal Ganglion Cell Dysfunction From Chronic IOP Elevation **2019**, 60, 3878-3886		9
32	Changes in morphology of retinal ganglion cells with eccentricity in retinal degeneration. *Cell and Tissue Research*, **2016**, 364, 263-71	4.2	9
31	Increased Müller cell density during diabetes is ameliorated by aminoguanidine and ramipril. *Australasian journal of optometry, The*, **2001**, 84, 276-281	2.7	9

30	Topographic Rod Recovery Profiles after a Prolonged Dark Adaptation in Subjects with Reticular Pseudodrusen. *Ophthalmology Retina*, **2018**, 2, 1206-1217	3.8	8
29	Nanosecond Laser Treatment for Age-Related Macular Degeneration Does Not Induce Focal Vision Loss or New Vessel Growth in the Retina **2018**, 59, 731-745		8
28	Mapping cation entry in photoreceptors and inner retinal neurons during early degeneration in the P23H-3 rat retina. *Visual Neuroscience*, **2013**, 30, 65-75	1.7	8
27	Seizure-related gene 6 (Sez-6) in amacrine cells of the rodent retina and the consequence of gene deletion. *PLoS ONE*, **2009**, 4, e6546	3.7	8
26	The role of histamine in the retina: studies on the Hdc knockout mouse. *PLoS ONE*, **2014**, 9, e116025	3.7	7
25	Reticular pseudodrusen: A critical phenotype in age-related macular degeneration. *Progress in Retinal and Eye Research*, **2021**, 101017	20.5	7
24	Fluorescent Labeling and Quantification of Vesicular ATP Release Using Live Cell Imaging. *Methods in Molecular Biology*, **2020**, 2041, 209-221	1.4	7
23	Potential mechanisms of retinal ganglion cell type-specific vulnerability in glaucoma. *Australasian journal of optometry, The*, **2020**, 103, 562-571	2.7	7
22	The role of the P2X7 receptor in the retina: cell signalling and dysfunction. *Advances in Experimental Medicine and Biology*, **2012**, 723, 813-9	3.6	7
21	Prophylactic laser in age-related macular degeneration: the past, the present and the future. *Eye*, **2018**, 32, 972-980	4.4	5
20	Fractalkine-induced microglial vasoregulation occurs within the retina and is altered early in diabetic retinopathy.. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	5
19	Transcriptomic Profiling of Human Pluripotent Stem Cell-derived Retinal Pigment Epithelium over Time. *Genomics, Proteomics and Bioinformatics*, **2021**, 19, 223-242	6.5	4
18	Non-ulcerative infiltrative keratitis in RGP daily wear a case report. *Australasian journal of optometry, The*, **1990**, 73, 178-183	2.7	4
17	The Contribution of Microglia to the Development and Maturation of the Visual System. *Frontiers in Cellular Neuroscience*, **2021**, 15, 659843	6.1	4
16	Retinal ganglion cell dysfunction in mice following acute intraocular pressure is exacerbated by P2X7 receptor knockout. *Scientific Reports*, **2021**, 11, 4184	4.9	4
15	Photoreceptor Degeneration in Pro23His Transgenic Rats (Line 3) Involves Autophagic and Necroptotic Mechanisms. *Frontiers in Neuroscience*, **2020**, 14, 581579	5.1	3
14	X-ray fluorescence microscopic measurement of elemental distribution in the mouse retina with age. *Metallomics*, **2016**, 8, 1110-1121	4.5	3
13	Deficits in Monocyte Function in Age Related Macular Degeneration: A Novel Systemic Change Associated With the Disease. *Frontiers in Medicine*, **2021**, 8, 634177	4.9	3

12	Neurochemical architecture of the normal and degenerating rat retina **1996**, 376, 343		3
11	Viability of the inner retina in a novel mouse model of retinitis pigmentosa. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2010**, 2010, 553-6	0.9	2
10	Advances in understanding the mechanisms of retinal degenerations. *Australasian journal of optometry, The*, **2020**,	2.7	2
9	Treatments targeting autophagy ameliorate the age-related macular degeneration phenotype in mice lacking APOE (apolipoprotein E).. *Autophagy*, **2022**, 1-17	10.2	2
8	Ganglion Cell Assessment in Rodents with Retinal Degeneration. *Methods in Molecular Biology*, **2018**, 1753, 261-273	1.4	1
7	2016 Glenn A. Fry Award Lecture: Mechanisms and Potential Treatments of Early Age-Related Macular Degeneration. *Optometry and Vision Science*, **2017**, 94, 939-945	2.1	1
6	Transcriptomic analysis of choroidal neovascularization reveals dysregulation of immune and fibrosis pathways that are attenuated by a novel anti-fibrotic treatment.. *Scientific Reports*, **2022**, 12, 859	4.9	0
5	Reply to letter to the editor: comments on retinal metabolic state in P23H and normal retinas *American Journal of Physiology - Cell Physiology*, **2010**, 299, C186-C187	5.4	
4	Understanding neurochemical changes during retinal diseases. *Clinical and Experimental Ophthalmology*, **2004**, 32, 455-6	2.4	
3	Animal and Human Models of Retinal Diseases **2020**, 590-613		
2	Glutamate Transport in Retinal Glial Cells during Diabetes **2008**, 355-371		
1	Animal Models of Diseases of the Retinal Pigment Epithelium **2020**, 325-347		