

Andreas Reichenbach

List of Publications by Year in descending order

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189
papers

14,281
citations

31976

53
h-index

24982

109
g-index

189
all docs

189
docs citations

189
times ranked

9692
citing authors

#	ARTICLE	IF	CITATIONS
1	Müller cells in the healthy and diseased retina. <i>Progress in Retinal and Eye Research</i> , 2006, 25, 397-424.	15.5	1,500
2	The Müller cell: a functional element of the retina. <i>Trends in Neurosciences</i> , 1996, 19, 307-312.	8.6	713
3	Microdomains for neuron-glia interaction: parallel fiber signaling to Bergmann glial cells. <i>Nature Neuroscience</i> , 1999, 2, 139-143.	14.8	612
4	Cellular signaling and factors involved in Müller cell gliosis: Neuroprotective and detrimental effects. <i>Progress in Retinal and Eye Research</i> , 2009, 28, 423-451.	15.5	607
5	New functions of Müller cells. <i>Glia</i> , 2013, 61, 651-678.	4.9	564
6	Viscoelastic properties of individual glial cells and neurons in the CNS. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 17759-17764.	7.1	473
7	Müller cells are living optical fibers in the vertebrate retina. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 8287-8292.	7.1	356
8	Perineuronal nets provide a polyanionic, glia-associated form of microenvironment around certain neurons in many parts of the rat brain. <i>Glia</i> , 1993, 8, 183-200.	4.9	324
9	Pathomechanisms of Cystoid Macular Edema. <i>Ophthalmic Research</i> , 2004, 36, 241-249.	1.9	250
10	Müller cells as players in retinal degeneration and edema. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2007, 245, 627-636.	1.9	232
11	Role of retinal glial cells in neurotransmitter uptake and metabolism. <i>Neurochemistry International</i> , 2009, 54, 143-160.	3.8	226
12	The primate fovea: Structure, function and development. <i>Progress in Retinal and Eye Research</i> , 2018, 66, 49-84.	15.5	221
13	Morphology and dynamics of perisynaptic glia. <i>Brain Research Reviews</i> , 2010, 63, 11-25.	9.0	213
14	A potassium channel-linked mechanism of glial cell swelling in the postischemic retina. <i>Molecular and Cellular Neurosciences</i> , 2004, 26, 493-502.	2.2	200
15	Kir potassium channel subunit expression in retinal glial cells: Implications for spatial potassium buffering. <i>Glia</i> , 2002, 39, 292-303.	4.9	189
16	Diabetes Alters Osmotic Swelling Characteristics and Membrane Conductance of Glial Cells in Rat Retina. <i>Diabetes</i> , 2006, 55, 633-639.	0.6	184
17	Purinergic signaling in special senses. <i>Trends in Neurosciences</i> , 2009, 32, 128-141.	8.6	174
18	P2X ₇ Receptors in Müller Glial Cells from the Human Retina. <i>Journal of Neuroscience</i> , 2000, 20, 5965-5972.	3.6	173

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19	Glia of the human retina. <i>Glia</i> , 2020, 68, 768-796.	4.9	173
20	Neurite Branch Retraction Is Caused by a Threshold-Dependent Mechanical Impact. <i>Biophysical Journal</i> , 2009, 97, 1883-1890.	0.5	154
21	Reactive glial cells: increased stiffness correlates with increased intermediate filament expression. <i>FASEB Journal</i> , 2011, 25, 624-631.	0.5	148
22	Retinal Glial (Müller) Cells: Sensing and Responding to Tissue Stretch. , 2010, 51, 1683.		138
23	Under stress, the absence of intermediate filaments from Müller cells in the retina has structural and functional consequences. <i>Journal of Cell Science</i> , 2004, 117, 3481-3488.	2.0	131
24	GABA and Glutamate Uptake and Metabolism in Retinal Glial (Müller) Cells. <i>Frontiers in Endocrinology</i> , 2013, 4, 48.	3.5	130
25	Glial Cell Reactivity in a Porcine Model of Retinal Detachment. , 2006, 47, 2161.		124
26	Role of glial K ⁺ channels in ontogeny and gliosis: A hypothesis based upon studies on Müller cells. <i>Glia</i> , 2000, 29, 35-44.	4.9	121
27	Targeted inactivation of dystrophin gene product Dp71: phenotypic impact in mouse retina. <i>Human Molecular Genetics</i> , 2003, 12, 1543-1554.	2.9	121
28	Expression of glial fibrillary acidic protein (GFAP), glutamine synthetase (GS), and Bcl-2 protooncogene protein by Müller (glial) cells in retinal light damage of rats. <i>Neuroscience Letters</i> , 1995, 185, 119-122.	2.1	107
29	Neuronal versus glial cell swelling in the ischaemic retina. <i>Acta Ophthalmologica</i> , 2005, 83, 528-538.	0.3	105
30	P2Y Receptor-Mediated Stimulation of Müller Glial Cell DNA Synthesis: Dependence on EGF and PDGF Receptor Transactivation. , 2003, 44, 1211.		101
31	Angiogenesis-related factors derived from retinal glial (Müller) cells in hypoxia. <i>NeuroReport</i> , 2004, 15, 1633-1637.	1.2	94
32	P2 receptor-types involved in astrogliosis in vivo. <i>British Journal of Pharmacology</i> , 2001, 134, 1180-1189.	5.4	93
33	Glutamate release by neurons evokes a purinergic inhibitory mechanism of osmotic glial cell swelling in the rat retina: Activation by neuropeptide Y. <i>Journal of Neuroscience Research</i> , 2006, 83, 538-550.	2.9	93
34	Glia:Neuron index: Review and hypothesis to account for different values in various mammals. <i>Glia</i> , 1989, 2, 71-77.	4.9	90
35	Retinal Gene Expression and Müller Cell Responses after Branch Retinal Vein Occlusion in the Rat. , 2009, 50, 2359.		90
36	Spatial mapping of the mechanical properties of the living retina using scanning force microscopy. <i>Soft Matter</i> , 2011, 7, 3147.	2.7	90

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37	Müller Glial Cell-Provided Cellular Light Guidance through the Vital Guinea-Pig Retina. <i>Biophysical Journal</i> , 2011, 101, 2611-2619.	0.5	87
38	PEDF derived from glial Müller cells: a possible regulator of retinal angiogenesis. <i>Experimental Cell Research</i> , 2004, 299, 68-78.	2.6	86
39	Loss of inwardly rectifying potassium currents by human retinal glial cells in diseases of the eye. , 1997, 20, 210-218.		84
40	The Glucocorticoid Triamcinolone Acetonide Inhibits Osmotic Swelling of Retinal Glial Cells via Stimulation of Endogenous Adenosine Signaling. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2005, 315, 1036-1045.	2.5	78
41	Attempt to classify glial cells by means of their process specialization using the rabbit retinal Müller cell as an example of cytotopographic specialization of glial cells. <i>Glia</i> , 1989, 2, 250-259.	4.9	75
42	Selective staining by vital dyes of Müller glial cells in retinal wholemounts. <i>Glia</i> , 2004, 45, 59-66.	4.9	75
43	Ocular inflammation alters swelling and membrane characteristics of rat Müller glial cells. <i>Journal of Neuroimmunology</i> , 2005, 161, 145-154.	2.3	74
44	Glutamate-Evoked Alterations of Glial and Neuronal Cell Morphology in the Guinea Pig Retina. <i>Journal of Neuroscience</i> , 2004, 24, 10149-10158.	3.6	72
45	Müller Cell Response to Blue Light Injury of the Rat Retina. , 2008, 49, 3559.		72
46	Efficient K ⁺ buffering by mammalian retinal glial cells is due to cooperation of specialized ion channels. <i>Pflügers Archiv European Journal of Physiology</i> , 1988, 411, 654-660.	2.8	71
47	Purinergic signaling involved in Müller cell function in the mammalian retina. <i>Progress in Retinal and Eye Research</i> , 2011, 30, 324-342.	15.5	71
48	Photonic Crystal Light Collectors in Fish Retina Improve Vision in Turbid Water. <i>Science</i> , 2012, 336, 1700-1703.	12.6	71
49	Glutamate transport by retinal Müller cells in glutamate/aspartate transporter ^{−/−} knockout mice. <i>Glia</i> , 2005, 49, 184-196.	4.9	69
50	Relevance of Exocytotic Glutamate Release from Retinal Glia. <i>Neuron</i> , 2012, 74, 504-516.	8.1	69
51	Purinergic signaling in retinal degeneration and regeneration. <i>Neuropharmacology</i> , 2016, 104, 194-211.	4.1	67
52	Spermine/spermidine is expressed by retinal glial (Müller) cells and controls distinct K ⁺ channels of their membrane. , 1998, 23, 209-220.		65
53	Müller Cells in the Healthy and Diseased Retina. , 2010, , .		64
54	Mammalian retinal glial (Müller) cells express large-conductance Ca ²⁺ -activated K ⁺ channels that are modulated by Mg ²⁺ and pH and activated by protein kinase A. , 1997, 19, 311-323.		63

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55	Müller glial cells of the primate foveola: An electron microscopical study. <i>Experimental Eye Research</i> , 2018, 167, 110-117.	2.6	63
56	Size and density of glial and neuronal cells within the cerebral neocortex of various insectivorian species. <i>Glia</i> , 1989, 2, 78-84.	4.9	59
57	Activation of P2Y receptors stimulates potassium and cation currents in acutely isolated human Müller (glial) cells. <i>Glia</i> , 2002, 37, 139-152.	4.9	59
58	Deletion of aquaporin-4 renders retinal glial cells more susceptible to osmotic stress. <i>Journal of Neuroscience Research</i> , 2010, 88, 2877-2888.	2.9	59
59	Experimental retinal detachment causes widespread and multilayered degeneration in rabbit retina. <i>Journal of Neurocytology</i> , 2002, 30, 379-390.	1.5	58
60	P2X7 receptor-mRNA and -protein in the mouse retina; changes during retinal degeneration in BALB/C mice. <i>Neurochemistry International</i> , 2005, 47, 235-242.	3.8	57
61	Early Activation of Inflammation- and Immune Response-Related Genes after Experimental Detachment of the Porcine Retina. , 2008, 49, 1262.		56
62	K ⁺ ion regulation in retina. <i>Canadian Journal of Physiology and Pharmacology</i> , 1992, 70, S239-S247.	1.4	55
63	Development of the rabbit retina. V. The question of "columnar units". <i>Developmental Brain Research</i> , 1994, 79, 72-84.	1.7	54
64	High-affinity GABA uptake in retinal glial (Müller) cells of the guinea pig: Electrophysiological characterization, immunohistochemical localization, and modeling of efficiency. <i>Glia</i> , 2002, 39, 217-228.	4.9	54
65	Altered membrane physiology in Müller glial cells after transient ischemia of the rat retina. <i>Glia</i> , 2005, 50, 1-11.	4.9	54
66	Expression of CXCL8, CXCR1, and CXCR2 in Neurons and Glial Cells of the Human and Rabbit Retina. , 2008, 49, 4578.		53
67	Three distinct types of voltage-dependent K ⁺ channels are expressed by Müller (glial) cells of the rabbit retina. <i>Pflugers Archiv European Journal of Physiology</i> , 1994, 426, 51-60.	2.8	52
68	Na ⁺ channels of Müller (glial) cells isolated from retinæ of various mammalian species including man. <i>Glia</i> , 1994, 10, 173-185.	4.9	51
69	Atypical gliosis in Müller cells of the slowly degenerating rds mutant mouse retina. <i>Experimental Eye Research</i> , 2006, 82, 449-457.	2.6	50
70	The developmental expression of K ⁺ channels in retinal glial cells is associated with a decrease of osmotic cell swelling. <i>Glia</i> , 2006, 54, 411-423.	4.9	49
71	Glial cell-derived glutamate mediates autocrine cell volume regulation in the retina: activation by VEGF. <i>Journal of Neurochemistry</i> , 2008, 104, 386-399.	3.9	49
72	Endogenous purinergic signaling is required for osmotic volume regulation of retinal glial cells. <i>Journal of Neurochemistry</i> , 2010, 112, 1261-1272.	3.9	49

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73	Glial cell-mediated spread of retinal degeneration during detachment: A hypothesis based upon studies in rabbits. <i>Vision Research</i> , 2005, 45, 2256-2267.	1.4	48
74	Differential regulation of Kir4.1 and Kir2.1 expression in the ischemic rat retina. <i>Neuroscience Letters</i> , 2006, 396, 97-101.	2.1	48
75	Osmotic swelling characteristics of glial cells in the murine hippocampus, cerebellum, and retina in situ. <i>Journal of Neurochemistry</i> , 2008, 105, 1405-1417.	3.9	48
76	Identification of P2Y Receptor Subtypes in Human Müller Glial Cells by Physiology, Single Cell RT-PCR, and Immunohistochemistry. , 2005, 46, 3000.		46
77	P2Y receptor-mediated stimulation of Müller glial DNA synthesis. <i>Investigative Ophthalmology and Visual Science</i> , 2002, 43, 766-73.	3.3	46
78	Effects of Ischemia-Perfusion on Physiological Properties of Müller Glial Cells in the Porcine Retina. , 2011, 52, 3360.		45
79	Early Glial Cell Reactivity in Experimental Retinal Detachment: Effect of Suramin. , 2003, 44, 4114.		43
80	Ectonucleotidases in Müller glial cells of the rodent retina: Involvement in inhibition of osmotic cell swelling. <i>Purinergic Signalling</i> , 2007, 3, 423-433.	2.2	43
81	Purinergic receptor activation inhibits osmotic glial cell swelling in the diabetic rat retina. <i>Experimental Eye Research</i> , 2008, 87, 385-393.	2.6	43
82	Modification of glutamine synthetase expression by mammalian Müller (glial) cells in retinal organ cultures. <i>NeuroReport</i> , 1997, 8, 3067-3072.	1.2	42
83	Membrane conductance of Müller glial cells in proliferative diabetic retinopathy. <i>Canadian Journal of Ophthalmology</i> , 2002, 37, 221-227.	0.7	42
84	Changes in Membrane Conductance Play a Pathogenic Role in Osmotic Glial Cell Swelling in Detached Retinas. <i>American Journal of Pathology</i> , 2006, 169, 1990-1998.	3.8	40
85	Pigment epithelium-derived factor acts as an opponent of growth-stimulatory factors in retinal glial-endothelial cell interactions. <i>Glia</i> , 2007, 55, 642-651.	4.9	40
86	Expression and function of P2Y receptors on Müller cells of the postnatal rat retina. <i>Glia</i> , 2009, 57, 1680-1690.	4.9	40
87	Alterations in protein expression and membrane properties during Müller cell gliosis in a murine model of transient retinal ischemia. <i>Neuroscience Letters</i> , 2010, 472, 73-78.	2.1	40
88	Electrophysiological properties of rat retinal Müller (glial) cells in postnatally developing and in pathologically altered retinae. <i>Glia</i> , 2001, 34, 190-199.	4.9	39
89	Retinal Endothelial Angiogenic Activity: Effects of Hypoxia and Glial (Müller) Cells. <i>Microcirculation</i> , 2004, 11, 577-586.	1.8	39
90	Spatial distribution of spermine/spermidine content and K ⁺ -current rectification in frog retinal glial (Müller) cells. <i>Glia</i> , 2000, 31, 84-90.	4.9	38

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91	Membrane-associated guanylate kinase proteins MPP4 and MPP5 associate with Veli3 at distinct intercellular junctions of the neurosensory retina. <i>Journal of Comparative Neurology</i> , 2005, 481, 31-41.	1.6	38
92	Purinergic neuron-glia interactions in sensory systems. <i>Pflugers Archiv European Journal of Physiology</i> , 2014, 466, 1859-1872.	2.8	38
93	The human MÃ¼ller cell line MIO-M1 expresses opsins. <i>Molecular Vision</i> , 2011, 17, 2738-50.	1.1	38
94	Upregulation of extracellular ATP-induced MÃ¼ller cell responses in a disease model of proliferative vitreoretinopathy. <i>Investigative Ophthalmology and Visual Science</i> , 2002, 43, 870-81.	3.3	38
95	ATP-evoked calcium responses of radial glial (MÃ¼ller) cells in the postnatal rabbit retina. <i>Journal of Neuroscience Research</i> , 2002, 70, 209-218.	2.9	36
96	Involvement of oxidative stress and mitochondrial dysfunction in the osmotic swelling of retinal glial cells from diabetic rats. <i>Experimental Eye Research</i> , 2011, 92, 87-93.	2.6	36
97	Functional Implication of Dp71 in Osmoregulation and Vascular Permeability of the Retina. <i>PLoS ONE</i> , 2009, 4, e7329.	2.5	36
98	Mammalian MÃ¼ller (glial) cells express functional D2 dopamine receptors. <i>NeuroReport</i> , 1995, 6, 609-612.	1.2	34
99	Light stimulation evokes two different calcium responses in MÃ¼ller glial cells of the guinea pig retina. <i>European Journal of Neuroscience</i> , 2009, 29, 1165-1176.	2.6	34
100	Quantitative phylogenetic constancy of cerebellar purkinje cell morphological complexity. <i>Journal of Comparative Neurology</i> , 1993, 331, 402-406.	1.6	32
101	Resensitization of P2Y Receptors by Growth Factorâ€‘Mediated Activation of the Phosphatidylinositol-3 Kinase in Retinal Glial Cells. , 2005, 46, 1525.		32
102	Localization of glial aquaporin-4 and Kir4.1 in the light-injured murine retina. <i>Neuroscience Letters</i> , 2008, 434, 317-321.	2.1	32
103	Postnatal mammalian retinal development: Quantitative data and general rules. <i>Progress in Retinal and Eye Research</i> , 2012, 31, 605-621.	15.5	32
104	Beyond Polarity: Functional Membrane Domains in Astrocytes and MÃ¼ller Cells. <i>Neurochemical Research</i> , 2012, 37, 2513-2523.	3.3	32
105	Early evolution of radial glial cells in Bilateria. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20170743.	2.6	32
106	Mitochondria of Retinal MÃ¼ller (Glial) Cells: The Effects of Aging and of Application of Free Radical Scavengers. <i>Ophthalmic Research</i> , 2000, 32, 229-236.	1.9	31
107	Dim light vision â€‘ Morphological and functional adaptations of the eye of the mormyrid fish, <i>Cnathonemus petersii</i> . <i>Journal of Physiology (Paris)</i> , 2008, 102, 291-303.	2.1	31
108	Grouped retinæ and tapetal cups in some Teleostian fish: Occurrence, structure, and function. <i>Progress in Retinal and Eye Research</i> , 2014, 38, 43-69.	15.5	31

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109	Nerve growth factor inhibits osmotic swelling of rat retinal glial (Müller) and bipolar cells by inducing glial cytokine release. <i>Journal of Neurochemistry</i> , 2014, 131, 303-313.	3.9	31
110	Functional expression of Kir 6.1/SUR1-KATPchannels in frog retinal Müller glial cells. <i>Glia</i> , 2002, 38, 256-267.	4.9	30
111	Nonvesicular Release of ATP from Rat Retinal Glial (Müller) Cells is Differentially Mediated in Response to Osmotic Stress and Glutamate. <i>Neurochemical Research</i> , 2015, 40, 651-660.	3.3	30
112	Development of A-type (axonless) horizontal cells in the rabbit retina. <i>Journal of Comparative Neurology</i> , 1995, 354, 438-458.	1.6	29
113	Electrophysiological alterations and upregulation of ATP receptors in retinal glial Müller cells from rats infected with the Borna disease virus. <i>Glia</i> , 2001, 35, 213-223.	4.9	29
114	Ischemia-Reperfusion Causes Exudative Detachment of the Rabbit Retina. , 2005, 46, 2592.		29
115	K ⁺ currents fail to change in reactive retinal glial cells in a mouse model of glaucoma. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2008, 246, 1249-1254.	1.9	29
116	Mechanisms of VEGF- and Glutamate-Induced Inhibition of Osmotic Swelling of Murine Retinal Glial (Müller) Cells: Indications for the Involvement of Vesicular Glutamate Release and Connexin-Mediated ATP Release. <i>Neurochemical Research</i> , 2012, 37, 268-278.	3.3	29
117	GABA _A receptors in Müller glial cells of the human retina. <i>Glia</i> , 2004, 46, 302-310.	4.9	28
118	Genetic Deletion of Laminin Isoforms β 2 and β 3 Induces a Reduction in Kir4.1 and Aquaporin-4 Expression and Function in the Retina. <i>PLoS ONE</i> , 2011, 6, e16106.	2.5	28
119	Age-related decrease of potassium currents in glial (Müller) cells of the human retina. <i>Canadian Journal of Ophthalmology</i> , 2003, 38, 464-468.	0.7	27
120	Complex rectification of Müller cell Kir currents. <i>Glia</i> , 2008, 56, 775-790.	4.9	27
121	A New Glance at Glia. <i>Science</i> , 2008, 322, 693-694.	12.6	27
122	Sex Steroids Inhibit Osmotic Swelling of Retinal Glial Cells. <i>Neurochemical Research</i> , 2010, 35, 522-530.	3.3	27
123	Retinal functional alterations in mice lacking intermediate filament proteins glial fibrillary acidic protein and vimentin. <i>FASEB Journal</i> , 2015, 29, 4815-4828.	0.5	26
124	Cytotopographical specialization of enzymatically isolated rabbit retinal Müller (glial) cells: K ⁺ conductivity of the cell membrane. <i>Glia</i> , 1988, 1, 191-197.	4.9	25
125	HB-EGF: Increase in the ischemic rat retina and inhibition of osmotic glial cell swelling. <i>Biochemical and Biophysical Research Communications</i> , 2006, 347, 310-318.	2.1	25
126	Proliferative gliosis causes mislocation and inactivation of inwardly rectifying K ⁺ (Kir) channels in rabbit retinal glial cells. <i>Experimental Eye Research</i> , 2008, 86, 305-313.	2.6	25

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127	Kir subfamily in frog retina: specific spatial distribution of Kir 6.1 in glial (Müller) cells. <i>NeuroReport</i> , 2001, 12, 1437-1441.	1.2	24
128	SUR1 and Kir6.1 subunits of KATP-channels are co-localized in retinal glial (Müller) cells. <i>NeuroReport</i> , 2002, 13, 57-60.	1.2	24
129	Electrophysiological characterization of retinal Müller glial cells from mouse during postnatal development: Comparison with rabbit cells. <i>Glia</i> , 2002, 38, 268-272.	4.9	24
130	Experimental Diabetic-Induced Retinopathy Causes Up-Regulation of P2Y Receptor-Mediated Calcium Responses in Müller Glial Cells. <i>Ophthalmic Research</i> , 2003, 35, 30-41.	1.9	24
131	Quantitative-morphometric aspects of bergmann glial (Golgi epithelial) cell development in rats. <i>Anatomy and Embryology</i> , 1987, 177, 183-188.	1.5	23
132	Immunolocalization of aquaporin-6 in the rat retina. <i>Neuroscience Letters</i> , 2011, 490, 130-134.	2.1	23
133	Müller glial cells in anuran retina. <i>Microscopy Research and Technique</i> , 2000, 50, 384-393.	2.2	22
134	Hypoosmotic and glutamate-induced swelling of bipolar cells in the rat retina: comparison with swelling of Müller glial cells. <i>Journal of Neurochemistry</i> , 2013, 126, 372-381.	3.9	22
135	Müller Cell Reactivity in Response to Photoreceptor Degeneration in Rats with Defective Polycystin-2. <i>PLoS ONE</i> , 2013, 8, e61631.	2.5	22
136	A function of delayed rectifier potassium channels in glial cells: maintenance of an auxiliary membrane potential under pathological conditions. <i>Brain Research</i> , 2000, 862, 187-193.	2.2	21
137	Müller cell gliosis in retinal organ culture mimics gliotic alterations after ischemia <i>in vivo</i> . <i>International Journal of Developmental Neuroscience</i> , 2008, 26, 745-751.	1.6	21
138	Biomechanical properties of retinal glial cells: Comparative and developmental data. <i>Experimental Eye Research</i> , 2013, 113, 60-65.	2.6	21
139	Unidirectional Photoreceptor-to-Müller Glia Coupling and Unique K ⁺ Channel Expression in Caiman Retina. <i>PLoS ONE</i> , 2014, 9, e97155.	2.5	21
140	Role of Purines in Müller Glia. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2016, 32, 518-533.	1.4	21
141	Involvement of A ₁ adenosine receptors in osmotic volume regulation of retinal glial cells in mice. <i>Molecular Vision</i> , 2009, 15, 1858-67.	1.1	21
142	Atrial natriuretic peptide inhibits osmotical glial cell swelling in the ischemic rat retina: Dependence on glutamatergic-purinergic signaling. <i>Experimental Eye Research</i> , 2006, 83, 962-971.	2.6	20
143	Na ⁺ channels are expressed by mammalian retinal glial (Müller) cells. <i>NeuroReport</i> , 1993, 4, 575-578.	1.2	19
144	Two different mechanosensitive calcium responses in Müller glial cells of the guinea pig retina: Differential dependence on purinergic receptor signaling. <i>Glia</i> , 2017, 65, 62-74.	4.9	19

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145	Na ⁺ ,K ⁺ -activated adenosine triphosphatase of isolated Müller cells from the rabbit retina shows a K ⁺ dependence similar to that of brain astrocytes. <i>Neuroscience Letters</i> , 1985, 59, 281-284.	2.1	17
146	Morphological variability, lectin binding and Na ⁺ ,K ⁺ -activated adenosine triphosphatase activity of isolated Müller (glial) cells from the rabbit retina. <i>Neuroscience Letters</i> , 1985, 55, 29-34.	2.1	17
147	Calcium responses mediated by type 2 IP ₃ -receptors are required for osmotic volume regulation of retinal glial cells in mice. <i>Neuroscience Letters</i> , 2009, 457, 85-88.	2.1	17
148	Optical properties of retinal tissue and the potential of adaptive optics to visualize retinal ganglion cells in vivo. <i>Cell and Tissue Research</i> , 2013, 353, 269-278.	2.9	17
149	Comparative electrophysiology of retinal Müller glial cells – A survey on vertebrate species. <i>Glia</i> , 2017, 65, 533-568.	4.9	17
150	Cone-to-Müller cell ratio in the mammalian retina: A survey of seven mammals with different lifestyle. <i>Experimental Eye Research</i> , 2019, 181, 38-48.	2.6	17
151	Farnesol modulates membrane currents in human retinal glial cells. <i>Journal of Neuroscience Research</i> , 2000, 62, 396-402.	2.9	16
152	Sigma-1 receptor activation inhibits osmotic swelling of rat retinal glial (Müller) cells by transactivation of glutamatergic and purinergic receptors. <i>Neuroscience Letters</i> , 2016, 610, 13-18.	2.1	15
153	Retinal adaptation to dim light vision in spectacled caimans (<i>Caiman crocodilus fuscus</i>): Analysis of retinal ultrastructure. <i>Experimental Eye Research</i> , 2018, 173, 160-178.	2.6	15
154	Intracellular recordings from isolated rabbit retinal Müller (glial) cells. <i>Pflugers Archiv European Journal of Physiology</i> , 1986, 407, 348-353.	2.8	14
155	Heterogeneous expression of Ca ²⁺ -dependent K ⁺ currents by Müller glial cells. <i>NeuroReport</i> , 1997, 8, 3841-3845.	1.2	14
156	Physiological properties of retinal Müller glial cells from the cynomolgus monkey, <i>Macaca fascicularis</i> – a comparison to human Müller cells. <i>Vision Research</i> , 2005, 45, 1781-1791.	1.4	14
157	The ultrastructure of rabbit sclera after scleral crosslinking with riboflavin and blue light of different intensities. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2016, 254, 1567-1577.	1.9	14
158	Tandem-pore K ⁺ -channels display an uneven distribution in amphibian retina. <i>NeuroReport</i> , 2004, 15, 321-324.	1.2	13
159	ADP ² S evokes microglia activation in the rabbit retina in vivo. <i>Purinergic Signalling</i> , 2005, 1, 383-387.	2.2	13
160	Physiologic Properties of Müller Cells from Human Eyes Affected with Uveal Melanoma. , 2012, 53, 4170.		12
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