Andreas Reichenbach

List of Publications by Year
in descending order

189 papers	14,281 citations	31902 53 h-index	24915 109 g-index
189 all docs	189 docs citations	189 times ranked	9692 citing authors

#	Article	IF	Citations
1	MÃ¼ller cells in the healthy and diseased retina. Progress in Retinal and Eye Research, 2006, 25, 397-424.	7.3	1,500
2	The MÃ¼ller cell: a functional element of the retina. Trends in Neurosciences, 1996, 19, 307-312.	4.2	713
3	Microdomains for neuronâ€“glia interaction: parallel fiber signaling to Bergmann glial cells. Nature Neuroscience, 1999, 2, 139-143.	7.1	612
4	Cellular signaling and factors involved in MÃ¼ller cell gliosis: Neuroprotective and detrimental effects. Progress in Retinal and Eye Research, 2009, 28, 423-451.	7.3	607
5	New functions of MÃ¼ller cells. Glia, 2013, 61, 651-678.	2.5	564
6	Viscoelastic properties of individual glial cells and neurons in the CNS. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 17759-17764.	3.3	473
7	Muller cells are living optical fibers in the vertebrate retina. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 8287-8292.	3.3	356
8	Perineuronal nets provide a polyanionic, glia-associated form of microenvironment around certain neurons in many parts of the rat brain. Glia, 1993, 8, 183-200.	2.5	324
9	Pathomechanisms of Cystoid Macular Edema. Ophthalmic Research, 2004, 36, 241-249.	1.0	250
10	MÃ¼ller cells as players in retinal degeneration and edema. Graefe's Archive for Clinical and Experimental Ophthalmology, 2007, 245, 627-636.	1.0	232
11	Role of retinal glial cells in neurotransmitter uptake and metabolism. Neurochemistry International, 2009, 54, 143-160.	1.9	226
12	The primate fovea: Structure, function and development. Progress in Retinal and Eye Research, 2018, 66, 49-84.	7.3	221
13	Morphology and dynamics of perisynaptic glia. Brain Research Reviews, 2010, 63, 11-25.	9.1	213
14	A potassium channel-linked mechanism of glial cell swelling in the postischemic retina. Molecular and Cellular Neurosciences, 2004, 26, 493-502.	1.0	200
15	Kir potassium channel subunit expression in retinal glial cells: Implications for spatial potassium buffering. Glia, 2002, 39, 292-303.	2.5	189
16	Diabetes Alters Osmotic Swelling Characteristics and Membrane Conductance of Glial Cells in Rat Retina. Diabetes, 2006, 55, 633-639.	0.3	184
17	Purinergic signaling in special senses. Trends in Neurosciences, 2009, 32, 128-141.	4.2	174
18	P2X₇ Receptors in MÃ¼ller Glial Cells from the Human Retina. Journal of Neuroscience, 2000, 20, 5965-5972.	1.7	173

#	Article	IF	Citations
19	Glia of the human retina. Glia, 2020, 68, 768-796.	2.5	173
20	Neurite Branch Retraction Is Caused by a Threshold-Dependent Mechanical Impact. Biophysical Journal, 2009, 97, 1883-1890.	0.2	154
21	Reactive glial cells: increased stiffness correlates with increased intermediate filament expression. FASEB Journal, 2011, 25, 624-631.	0.2	148
22	Retinal Glial (MÃ¼ller) Cells: Sensing and Responding to Tissue Stretch. , 2010, 51, 1683.		138
23	Under stress, the absence of intermediate filaments from MuÌˆller cells in the retina has structural and functional consequences. Journal of Cell Science, 2004, 117, 3481-3488.	1.2	131
24	GABA and Glutamate Uptake and Metabolism in Retinal Glial (MÃ¼ller) Cells. Frontiers in Endocrinology, 2013, 4, 48.	1.5	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 Mï¿½ller cells. , 2000, 29, 35-44.		121
27	Targeted inactivation of dystrophin gene product Dp71: phenotypic impact in mouse retina. Human Molecular Genetics, 2003, 12, 1543-1554.	1.4	121
28	Expression of glial fibrillary acidic protein (GFAP), glutamine synthetase (GS), and Bcl-2 protooncogene protein by MÃ¼ller (glial) cells in retinal light damage of rats. Neuroscience Letters, 1995, 185, 119-122.	1.0	107
29	Neuronal versus glial cell swelling in the ischaemic retina. Acta Ophthalmologica, 2005, 83, 528-538.	0.4	105
30	P2Y Receptor-Mediated Stimulation of MuÌˆller Glial Cell DNA Synthesis: Dependence on EGF and PDGF Receptor Transactivation. , 2003, 44, 1211.		101
31	Angiogenesis-related factors derived from retinal glial (MÃ¼ller) cells in hypoxia. NeuroReport, 2004, 15, 1633-1637.	0.6	94
32	P2 receptor-types involved in astrogliosis in vivo. British Journal of Pharmacology, 2001, 134, 1180-1189.	2.7	93
33	Glutamate release by neurons evokes a purinergic inhibitory mechanism of osmotic glial cell swelling in the rat retina: Activation by neuropeptide Y. Journal of Neuroscience Research, 2006, 83, 538-550.	1.3	93
34	Glia:Neuron index: Review and hypothesis to account for different values in various mammals. Glia, 1989, 2, 71-77.	2.5	90
35	Retinal Gene Expression and MuÌˆller 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. Soft Matter, 2011, 7, 3147.	1.2	90

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37	MÃ¼ller Glial Cell-Provided Cellular Light Guidance through the Vital Guinea-Pig Retina. Biophysical Journal, 2011, 101, 2611-2619.	0.2	87
38	PEDF derived from glial MÃ¼ller cells: a possible regulator of retinal angiogenesis. Experimental Cell Research, 2004, 299, 68-78.	1.2	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. Journal of Pharmacology and Experimental Therapeutics, 2005, 315, 1036-1045.	1.3	78
41	Attempt to classify glial cells by means of their process specialization using the rabbit retinal MÃ¼ller cell as an example of cytotopographic specialization of glial cells. Glia, 1989, 2, 250-259.	2.5	75
42	Selective staining by vital dyes of MÃ¼ller glial cells in retinal wholemounts. Glia, 2004, 45, 59-66.	2.5	75
43	Ocular inflammation alters swelling and membrane characteristics of rat MÃ¼ller glial cells. Journal of Neuroimmunology, 2005, 161, 145-154.	1.1	74
44	Glutamate-Evoked Alterations of Glial and Neuronal Cell Morphology in the Guinea Pig Retina. Journal of Neuroscience, 2004, 24, 10149-10158.	1.7	72
45	Mul̀ˆler 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. Pflugers Archiv European Journal of Physiology, 1988, 411, 654-660.	1.3	71
47	Purinergic signaling involved in MÃ¼ller cell function in the mammalian retina. Progress in Retinal and Eye Research, 2011, 30, 324-342.	7.3	71
48	Photonic Crystal Light Collectors in Fish Retina Improve Vision in Turbid Water. Science, 2012, 336, 1700-1703.	6.0	71
49	Glutamate transport by retinal MÃ¼ller cells in glutamate/aspartate transporter-knockout mice. Glia, 2005, 49, 184-196.	2.5	69
50	Relevance of Exocytotic Glutamate Release from Retinal Glia. Neuron, 2012, 74, 504-516.	3.8	69
51	Purinergic signaling in retinal degeneration and regeneration. Neuropharmacology, 2016, 104, 194-211.	2.0	67
52	Spermine/spermidine is expressed by retinal glial (mï¿½ller) cells and controls distinct K+ channels of their membrane. , 1998, 23, 209-220.		65
53	MÃ¼ller Cells in the Healthy and Diseased Retina. , 2010, , .		64
54	Mammalian retinal glial (Mï¿½ller) cells express large-conductance Ca2+-activated K+ channels that are modulated by Mg2+ and pH and activated by protein kinase A. , 1997, 19, 311-323.		63

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55	MÃ¼ller glial cells of the primate foveola: An electron microscopical study. Experimental Eye Research, 2018, 167, 110-117.	1.2	63
56	Size and density of glial and neuronal cells within the cerebral neocortex of various insectivorian species. Glia, 1989, 2, 78-84.	2.5	59
57	Activation of P2Y receptors stimulates potassium and cation currents in acutely isolated human MÃ¼ller (glial) cells. Glia, 2002, 37, 139-152.	2.5	59
58	Deletion of aquaporinâ€4 renders retinal glial cells more susceptible to osmotic stress. Journal of Neuroscience Research, 2010, 88, 2877-2888.	1.3	59
59	Experimental retinal detachment causes widespread and multilayered degeneration in rabbit retina. Journal of Neurocytology, 2002, 30, 379-390.	1.6	58
60	P2X7 receptor-mRNA and -protein in the mouse retina; changes during retinal degeneration in BALBCrds mice. Neurochemistry International, 2005, 47, 235-242.	1.9	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. Canadian Journal of Physiology and Pharmacology, 1992, 70, S239-S247.	0.7	55
63	Development of the rabbit retina. V. The question of â€˜columnar unitsâ€™. Developmental Brain Research, 1994, 79, 72-84.	2.1	54
64	High-affinity GABA uptake in retinal glial (MÃ¼ller) cells of the guinea pig: Electrophysiological characterization, immunohistochemical localization, and modeling of efficiency. Glia, 2002, 39, 217-228.	2.5	54
65	Altered membrane physiology in MÃ¼ller glial cells after transient ischemia of the rat retina. Glia, 2005, 50, 1-11.	2.5	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 Mï¿½ller (glial) cells of the rabbit retina. Pflugers Archiv European Journal of Physiology, 1994, 426, 51-60.	1.3	52
68	Na+channels of MÃ¼ller (glial) cells isolated from retinae of various mammalian species including man. Glia, 1994, 10, 173-185.	2.5	51
69	Atypical gliosis in MÃ¼ller cells of the slowly degenerating rds mutant mouse retina. Experimental Eye Research, 2006, 82, 449-457.	1.2	50
70	The developmental expression of K+ channels in retinal glial cells is associated with a decrease of osmotic cell swelling. Glia, 2006, 54, 411-423.	2.5	49
71	Glial cellâ€derived glutamate mediates autocrine cell volume regulation in the retina: activation by VEGF. Journal of Neurochemistry, 2008, 104, 386-399.	2.1	49
72	Endogenous purinergic signaling is required for osmotic volume regulation of retinal glial cells. Journal of Neurochemistry, 2010, 112, 1261-1272.	2.1	49

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73	Glial cell-mediated spread of retinal degeneration during detachment: A hypothesis based upon studies in rabbits. Vision Research, 2005, 45, 2256-2267.	0.7	48
74	Differential regulation of Kir4.1 and Kir2.1 expression in the ischemic rat retina. Neuroscience Letters, 2006, 396, 97-101.	1.0	48
75	Osmotic swelling characteristics of glial cells in the murine hippocampus, cerebellum, and retina in situ. Journal of Neurochemistry, 2008, 105, 1405-1417.	2.1	48
76	Identification of P2Y Receptor Subtypes in Human Mul̀ˆller Glial Cells by Physiology, Single Cell RT-PCR, and Immunohistochemistry. , 2005, 46, 3000.		46
77	P2Y receptor-mediated stimulation of MÃ¼ller glial DNA synthesis. Investigative Ophthalmology and Visual Science, 2002, 43, 766-73.	3.3	46
78	Effects of Ischemiaâ€“Reperfusion on Physiological Properties of MÃ¼ller 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 MÃ¼ller glial cells of the rodent retina: Involvement in inhibition of osmotic cell swelling. Purinergic Signalling, 2007, 3, 423-433.	1.1	43
81	Purinergic receptor activation inhibits osmotic glial cell swelling in the diabetic rat retina. Experimental Eye Research, 2008, 87, 385-393.	1.2	43
82	Modification of glutamine synthetase expression by mammalian MÃ¼ller (glial) cells in retinal organ cultures. NeuroReport, 1997, 8, 3067-3072.	0.6	42
83	Membrane conductance of MÃ¼ller glial cells in proliferative diabetic retinopathy. Canadian Journal of Ophthalmology, 2002, 37, 221-227.	0.4	42
84	Changes in Membrane Conductance Play a Pathogenic Role in Osmotic Glial Cell Swelling in Detached Retinas. American Journal of Pathology, 2006, 169, 1990-1998.	1.9	40
85	Pigment epithelium-derived factor acts as an opponent of growth-stimulatory factors in retinal glialâ€“endothelial cell interactions. Glia, 2007, 55, 642-651.	2.5	40
86	Expression and function of P2Y receptors on MÃ¼ller cells of the postnatal rat retina. Glia, 2009, 57, 1680-1690.	2.5	40
87	Alterations in protein expression and membrane properties during MÃ¼ller cell gliosis in a murine model of transient retinal ischemia. Neuroscience Letters, 2010, 472, 73-78.	1.0	40
88	Electrophysiological properties of rat retinal MÃ¼ller (glial) cells in postnatally developing and in pathologically altered retinae. Glia, 2001, 34, 190-199.	2.5	39
89	Retinal Endothelial Angiogenic Activity: Effects of Hypoxia and Glial (MÃ¼ller) Cells. Microcirculation, 2004, 11, 577-586.	1.0	39
90	Spatial distribution of spermine/spermidine content and K+-current rectification in frog retinal glial (Mï¿½ller) cells. , 2000, 31, 84-90.		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. Journal of Comparative Neurology, 2005, 481, 31-41.	0.9	38
92	Purinergic neuron-glia interactions in sensory systems. Pflugers Archiv European Journal of Physiology, 2014, 466, 1859-1872.	1.3	38
93	The human MÃ¼ller cell line MIO-M1 expresses opsins. Molecular Vision, 2011, 17, 2738-50.	1.1	38
94	Upregulation of extracellular ATP-induced MÃ¼ller cell responses in a dispase model of proliferative vitreoretinopathy. Investigative Ophthalmology and Visual Science, 2002, 43, 870-81.	3.3	38
95	ATP-evoked calcium responses of radial glial (MÃ¼ller) cells in the postnatal rabbit retina. Journal of Neuroscience Research, 2002, 70, 209-218.	1.3	36
96	Involvement of oxidative stress and mitochondrial dysfunction in the osmotic swelling of retinal glial cells from diabetic rats. Experimental Eye Research, 2011, 92, 87-93.	1.2	36
97	Functional Implication of Dp71 in Osmoregulation and Vascular Permeability of the Retina. PLoS ONE, 2009, 4, e7329.	1.1	36
98	Mammalian MÃ¼ller (glial) cells express functional D2 dopamine receptors. NeuroReport, 1995, 6, 609-612.	0.6	34
99	Light stimulation evokes two different calcium responses in MÃ¼ller glial cells of the guinea pig retina. European Journal of Neuroscience, 2009, 29, 1165-1176.	1.2	34
100	Quantitative phylogenetic constancy of cerebellar purkinje cell morphological complexity. Journal of Comparative Neurology, 1993, 331, 402-406.	0.9	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. Neuroscience Letters, 2008, 434, 317-321.	1.0	32
103	Postnatal mammalian retinal development: Quantitative data and general rules. Progress in Retinal and Eye Research, 2012, 31, 605-621.	7.3	32
104	Beyond Polarity: Functional Membrane Domains in Astrocytes and MÃ¼ller Cells. Neurochemical Research, 2012, 37, 2513-2523.	1.6	32
105	Early evolution of radial glial cells in Bilateria. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20170743.	1.2	32
106	Mitochondria of Retinal MÃ¼ller (Glial) Cells: The Effects of Aging and of Application of Free Radical Scavengers. Ophthalmic Research, 2000, 32, 229-236.	1.0	31
107	Dim light vision â€" Morphological and functional adaptations of the eye of the mormyrid fish, Gnathonemus petersii. Journal of Physiology (Paris), 2008, 102, 291-303.	2.1	31
108	Grouped retinae and tapetal cups in some Teleostian fish: Occurrence, structure, and function. Progress in Retinal and Eye Research, 2014, 38, 43-69.	7.3	31

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109	Nerve growth factor inhibits osmotic swelling of rat retinal glial (MÃ¼ller) and bipolar cells by inducing glial cytokine release. Journal of Neurochemistry, 2014, 131, 303-313.	2.1	31
110	Functional expression of Kir 6.1/SUR1-KATPchannels in frog retinal MÃ¼ller glial cells. Glia, 2002, 38, 256-267.	2.5	30
111	Nonvesicular Release of ATP from Rat Retinal Glial (MÃ¼ller) Cells is Differentially Mediated in Response to Osmotic Stress and Glutamate. Neurochemical Research, 2015, 40, 651-660.	1.6	30
112	Development of A-type (axonless) horizontal cells in the rabbit retina. Journal of Comparative Neurology, 1995, 354, 438-458.	0.9	29
113	Electrophysiological alterations and upregulation of ATP receptors in retinal glial MÃ¼ller cells from rats infected with the Borna disease virus. Glia, 2001, 35, 213-223.	2.5	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. Graefe's Archive for Clinical and Experimental Ophthalmology, 2008, 246, 1249-1254.	1.0	29
116	Mechanisms of VEGF- and Glutamate-Induced Inhibition of Osmotic Swelling of Murine Retinal Glial (MÃ¼ller) Cells: Indications for the Involvement of Vesicular Glutamate Release and Connexin-Mediated ATP Release. Neurochemical Research, 2012, 37, 268-278.	1.6	29
117	GABAAreceptors in MÃ¼ller glial cells of the human retina. Glia, 2004, 46, 302-310.	2.5	28
118	Genetic Deletion of Laminin Isoforms Î²2 and Î³3 Induces a Reduction in Kir4.1 and Aquaporin-4 Expression and Function in the Retina. PLoS ONE, 2011, 6, e16106.	1.1	28
119	Age-related decrease of potassium currents in glial (MÃ¼ller) cells of the human retina. Canadian Journal of Ophthalmology, 2003, 38, 464-468.	0.4	27
120	Complex rectification of MÃ¼ller cell Kir currents. Glia, 2008, 56, 775-790.	2.5	27
121	A New Glance at Glia. Science, 2008, 322, 693-694.	6.0	27
122	Sex Steroids Inhibit Osmotic Swelling of Retinal Glial Cells. Neurochemical Research, 2010, 35, 522-530.	1.6	27
123	Retinal functional alterations in mice lacking intermediate filament proteins glial fibrillary acidic protein and vimentin. FASEB Journal, 2015, 29, 4815-4828.	0.2	26
124	Cytotopographical specialization of enzymatically isolated rabbit retinal MÃ¼ller (glial) cells: K+conductivity of the cell membrane. Glia, 1988, 1, 191-197.	2.5	25
125	HB-EGF: Increase in the ischemic rat retina and inhibition of osmotic glial cell swelling. Biochemical and Biophysical Research Communications, 2006, 347, 310-318.	1.0	25
126	Proliferative gliosis causes mislocation and inactivation of inwardly rectifying K+ (Kir) channels in rabbit retinal glial cells. Experimental Eye Research, 2008, 86, 305-313.	1.2	25

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127	Kir subfamily in frog retina: specific spatial distribution of Kir 6.1 in glial (M??ller) cells. NeuroReport, 2001, 12, 1437-1441.	0.6	24
128	SUR1 and Kir6.1 subunits of KATP-channels are co-localized in retinal glial (MÃ¼ller) cells. NeuroReport, 2002, 13, 57-60.	0.6	24
129	Electrophysiological characterization of retinal MÃ¼ller glial cells from mouse during postnatal development: Comparison with rabbit cells. Glia, 2002, 38, 268-272.	2.5	24
130	Experimental Dispase-Induced Retinopathy Causes Up-Regulation of P2Y Receptor-Mediated Calcium Responses in MÃ¼ller Glial Cells. Ophthalmic Research, 2003, 35, 30-41.	1.0	24
131	Quantitative-morphometric aspects of bergmann glial (Golgi epithelial) cell development in rats. Anatomy and Embryology, 1987, 177, 183-188.	1.5	23
132	Immunolocalization of aquaporin-6 in the rat retina. Neuroscience Letters, 2011, 490, 130-134.	1.0	23
133	Mï¿½ller glial cells in anuran retina. Microscopy Research and Technique, 2000, 50, 384-393.	1.2	22
134	Hypoosmotic and glutamateâ€induced swelling of bipolar cells in the rat retina: comparison with swelling of <scp>M</scp>Ã¼ller glial cells. Journal of Neurochemistry, 2013, 126, 372-381.	2.1	22
135	MÃ¼ller Cell Reactivity in Response to Photoreceptor Degeneration in Rats with Defective Polycystin-2. PLoS ONE, 2013, 8, e61631.	1.1	22
136	A function of delayed rectifier potassium channels in glial cells: maintenance of an auxiliary membrane potential under pathological conditions. Brain Research, 2000, 862, 187-193.	1.1	21
137	MÃ¼ller cell gliosis in retinal organ culture mimics gliotic alterations after ischemia <i>in vivo</i>. International Journal of Developmental Neuroscience, 2008, 26, 745-751.	0.7	21
138	Biomechanical properties of retinal glial cells: Comparative and developmental data. Experimental Eye Research, 2013, 113, 60-65.	1.2	21
139	Unidirectional Photoreceptor-to-MÃ¼ller Glia Coupling and Unique K+ Channel Expression in Caiman Retina. PLoS ONE, 2014, 9, e97155.	1.1	21
140	Role of Purines in MÃ¼ller Glia. Journal of Ocular Pharmacology and Therapeutics, 2016, 32, 518-533.	0.6	21
141	Involvement of A(1) adenosine receptors in osmotic volume regulation of retinal glial cells in mice. Molecular Vision, 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. Experimental Eye Research, 2006, 83, 962-971.	1.2	20
143	Na+ channels are expressed by mammalian retinal glial (MÃ¼ller) cells. NeuroReport, 1993, 4, 575-578.	0.6	19
144	<scp>T</scp>wo different mechanosensitive calcium responses in MÃ¼ller glial cells of the guinea pig retina: <scp>D</scp>ifferential dependence on purinergic receptor signaling. Glia, 2017, 65, 62-74.	2.5	19

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145	Na+,K+-activated adenosine triphosphatase of isolated MÃ¼ller cells from the rabbit retina shows a K+ dependence similar to that of brain astrocytes. Neuroscience Letters, 1985, 59, 281-284.	1.0	17
146	Morphological variability, lectin binding and Na+,K+-activated adenosine triphosphatase activity of isolated mÃ¼ller (glial) cells from the rabbit retina. Neuroscience Letters, 1985, 55, 29-34.	1.0	17
147	Calcium responses mediated by type 2 IP3-receptors are required for osmotic volume regulation of retinal glial cells in mice. Neuroscience Letters, 2009, 457, 85-88.	1.0	17
148	Optical properties of retinal tissue and the potential of adaptive optics to visualize retinal ganglion cells in vivo. Cell and Tissue Research, 2013, 353, 269-278.	1.5	17
149	Comparative electrophysiology of retinal MÃ¼ller glial cellsâ€"A survey on vertebrate species. Glia, 2017, 65, 533-568.	2.5	17
150	Cone-to-MÃ¼ller cell ratio in the mammalian retina: A survey of seven mammals with different lifestyle. Experimental Eye Research, 2019, 181, 38-48.	1.2	17
151	Farnesol modulates membrane currents in human retinal glial cells. Journal of Neuroscience Research, 2000, 62, 396-402.	1.3	16
152	Sigma-1 receptor activation inhibits osmotic swelling of rat retinal glial (MÃ¼ller) cells by transactivation of glutamatergic and purinergic receptors. Neuroscience Letters, 2016, 610, 13-18.	1.0	15
153	Retinal adaptation to dim light vision in spectacled caimans (Caiman crocodilus fuscus): Analysis of retinal ultrastructure. Experimental Eye Research, 2018, 173, 160-178.	1.2	15
154	Intracellular recordings from isolated rabbit retinal Mï¿½ller (glial) cells. Pflugers Archiv European Journal of Physiology, 1986, 407, 348-353.	1.3	14
155	Heterogeneous expression of Ca2+â^' dependent K+ currents by MÃ¼ller glial cells. NeuroReport, 1997, 8, 3841-3845.	0.6	14
156	Physiological properties of retinal MÃ¼ller glial cells from the cynomolgus monkey, Macaca fascicularisâ€"a comparison to human MÃ¼ller cells. Vision Research, 2005, 45, 1781-1791.	0.7	14
157	The ultrastructure of rabbit sclera after scleral crosslinking with riboflavin and blue light of different intensities. Graefe's Archive for Clinical and Experimental Ophthalmology, 2016, 254, 1567-1577.	1.0	14
158	Tandem-pore K+channels display an uneven distribution in amphibian retina. NeuroReport, 2004, 15, 321-324.	0.6	13
159	ADPÎ²S evokes microglia activation in the rabbit retina in vivo. Purinergic Signalling, 2005, 1, 383-387.	1.1	13
160	Physiologic Properties of MÃ¼ller Cells from Human Eyes Affected with Uveal Melanoma. , 2012, 53, 4170.		12
161	Morphology of horseradish peroxidase (HRP)-injected glial cells in the myenteric plexus of the guinea-pig. Cell and Tissue Research, 1994, 278, 153-160.	1.5	11
162	High Na+ affinity of the Na+,K+ pump in isolated rabbit retinal MÃ¼ller (glial) cells. Neuroscience Letters, 1987, 75, 157-162.	1.0	10

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163	Recovery from hepatic retinopathy after liver transplantation. Graefe's Archive for Clinical and Experimental Ophthalmology, 2003, 241, 451-457.	1.0	10
164	Rabbit retinal organ culture as an in-vitro model of hepatic retinopathy. Graefe's Archive for Clinical and Experimental Ophthalmology, 2004, 242, 512-522.	1.0	10
165	Impaired Purinergic Regulation of the Glial (MÃ¼ller) Cell Volume in the Retina of Transgenic Rats Expressing Defective Polycystin-2. Neurochemical Research, 2016, 41, 1784-1796.	1.6	10
166	Arachidonic acid-induced inhibition of Ca2+ channel currents in retinal glial (MÃ¼ller) cells. , 2001, 239, 859-864.		9
167	Porcine MÃ¼ller Glial Cells Increase Expression of BKCaChannels in Retinal Detachment. Current Eye Research, 2007, 32, 143-151.	0.7	9
168	Changes of the organotypic retinal organization in Borna virus-infected Lewis rats. Journal of Neurocytology, 2001, 30, 801-820.	1.6	8
169	Ca2+ channel-mediated currents in retinal glial (MÃ¼ller) cells of the toad (Bufo marinus). Neuroscience Letters, 2000, 281, 155-158.	1.0	7
170	The retinal anatomy and function of the myelin mutant taiep rat. Brain Research, 2003, 964, 144-152.	1.1	7
171	Switch of K+ buffering conditions in rabbit retinal MÃ¼ller glial cells during postnatal development. Neuroscience Letters, 2004, 365, 167-170.	1.0	7
172	The Retina of Asian and African Elephants: Comparison of Newborn and Adult. Brain, Behavior and Evolution, 2017, 89, 84-103.	0.9	7
173	Na+ currents through Ca2+ channels in human retinal glial (MÃ¼ller) cells. Current Eye Research, 2000, 20, 420-429.	0.7	6
174	Differentiation of cones in cultured rabbit retina: effects of retinal pigment epithelial cell-conditioned medium. Neuroscience Letters, 2003, 341, 53-56.	1.0	6
175	Structural association of glia with the various compartments of neurons. , 2004, , 53-97.		6
176	Retinal Glia. Colloquium Series on Neuroglia in Biology and Medicine From Physiology To Disease, 2015, 2, 1-644.	0.5	5
177	Characteristics of MÃ¼ller glial cells in MNU-induced retinal degeneration. Visual Neuroscience, 2016, 33, E013.	0.5	5
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