

# Rebecca M Sappington

## 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.

36 papers	1,836 citations	20 h-index	39 g-index
39 ext. papers	2,128 ext. citations	5.1 avg, IF	4.72 L-index

#	Paper	IF	Citations
36	Interleukin-6 promotes microtubule stability in axons via Stat3 protein-protein interactions. <i>IScience</i> , <b>2021</b> , 24, 103141	6.1	1
35	Pressure-dependent modulation of inward-rectifying K channels: implications for cation homeostasis and K dynamics in glaucoma. <i>American Journal of Physiology - Cell Physiology</i> , <b>2019</b> , 317, C375-C389	5.4	2
34	Phenotypes of primary retinal macroglia: Implications for purification and culture conditions. <i>Experimental Eye Research</i> , <b>2019</b> , 182, 85-92	3.7	2
33	The relationship between the Young's modulus and dry etching rate of polydimethylsiloxane (PDMS). <i>Biomedical Microdevices</i> , <b>2019</b> , 21, 26	3.7	15
32	Impairment of Membrane Repolarization Accompanies Axon Transport Deficits in Glaucoma. <i>Frontiers in Neuroscience</i> , <b>2019</b> , 13, 1139	5.1	8
31	Increased bioavailability of cyclic guanylate monophosphate prevents retinal ganglion cell degeneration. <i>Neurobiology of Disease</i> , <b>2019</b> , 121, 65-75	7.5	6
30	The nitric oxide-guanylate cyclase pathway and glaucoma. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2018</b> , 77, 75-87	5	29
29	The Microbead Occlusion Model of Ocular Hypertension in Mice. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1695, 23-39	1.4	22
28	Ccl5 Mediates Proper Wiring of Feedforward and Lateral Inhibition Pathways in the Inner Retina. <i>Frontiers in Neuroscience</i> , <b>2018</b> , 12, 702	5.1	6
27	Impact of Graphene on the Efficacy of Neuron Culture Substrates. <i>Advanced Healthcare Materials</i> , <b>2018</b> , 7, e1701290	10.1	15
26	The challenge of regenerative therapies for the optic nerve in glaucoma. <i>Experimental Eye Research</i> , <b>2017</b> , 157, 28-33	3.7	35
25	Constitutive and Stress-induced Expression of CCL5 Machinery in Rodent Retina. <i>Journal of Clinical &amp; Cellular Immunology</i> , <b>2017</b> , 8,	2.7	8
24	Oral Delivery of a Synthetic Sterol Reduces Axonopathy and Inflammation in a Rodent Model of Glaucoma. <i>Frontiers in Neuroscience</i> , <b>2017</b> , 11, 45	5.1	10
23	Interleukin-6 Deficiency Attenuates Retinal Ganglion Cell Axonopathy and Glaucoma-Related Vision Loss. <i>Frontiers in Neuroscience</i> , <b>2017</b> , 11, 318	5.1	31
22	Interleukin-6: A Constitutive Modulator of Glycoprotein 130, Neuroinflammatory and Cell Survival Signaling in Retina. <i>Journal of Clinical &amp; Cellular Immunology</i> , <b>2016</b> , 7,	2.7	12
21	Probing electrical signals in the retina via graphene-integrated microfluidic platforms. <i>Nanoscale</i> , <b>2016</b> , 8, 19043-19049	7.7	12
20	Virus-mediated EpoR76E Therapy Slows Optic Nerve Axonopathy in Experimental Glaucoma. <i>Molecular Therapy</i> , <b>2016</b> , 24, 230-239	11.7	24

19	Activation of transient receptor potential vanilloid-1 (TRPV1) influences how retinal ganglion cell neurons respond to pressure-related stress. <i>Channels</i> , <b>2015</b> , 9, 102-13	3	43
18	Pressure-Induced Alterations in PEDF and PEDF-R Expression: Implications for Neuroprotective Signaling in Glaucoma. <i>Journal of Clinical &amp; Experimental Ophthalmology</i> , <b>2015</b> , 6,	0	10
17	Retina-on-a-chip: a microfluidic platform for point access signaling studies. <i>Biomedical Microdevices</i> , <b>2015</b> , 17, 114	3.7	45
16	Astrocyte Reactivity: A Biomarker for Retinal Ganglion Cell Health in Retinal Neurodegeneration. <i>Journal of Clinical &amp; Cellular Immunology</i> , <b>2014</b> , 5,	2.7	37
15	Short-term increases in transient receptor potential vanilloid-1 mediate stress-induced enhancement of neuronal excitation. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 15369-81	6.6	42
14	Stressor-dependent Alterations in Glycoprotein 130: Implications for Glial Cell Reactivity, Cytokine Signaling and Ganglion Cell Health in Glaucoma. <i>Journal of Clinical &amp; Experimental Ophthalmology</i> , <b>2013</b> , 4,	0	12
13	Spatial regulation of interleukin-6 signaling in response to neurodegenerative stressors in the retina. <i>American Journal of Neurodegenerative Disease</i> , <b>2012</b> , 1, 168-79	2.5	17
12	Optic neuropathy due to microbead-induced elevated intraocular pressure in the mouse <b>2011</b> , 52, 36-44		126
11	The microbead occlusion model: a paradigm for induced ocular hypertension in rats and mice <b>2010</b> , 51, 207-16		253
10	Morphometric changes in the rat optic nerve following short-term intermittent elevations in intraocular pressure <b>2010</b> , 51, 6431-40		37
9	Distal axonopathy with structural persistence in glaucomatous neurodegeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 5196-201	11.5	257
8	TRPV1: contribution to retinal ganglion cell apoptosis and increased intracellular Ca <sup>2+</sup> with exposure to hydrostatic pressure <b>2009</b> , 50, 717-28		144
7	Induced autoimmunity to heat shock proteins elicits glaucomatous loss of retinal ganglion cell neurons via activated T-cell-derived fas-ligand. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 12085-96	6.6	159
6	Contribution of TRPV1 to microglia-derived IL-6 and NFkappaB translocation with elevated hydrostatic pressure <b>2008</b> , 49, 3004-17		103
5	Interleukin-6 protects retinal ganglion cells from pressure-induced death. <i>Investigative Ophthalmology and Visual Science</i> , <b>2006</b> , 47, 2932-42		123
4	Quantitative correlation of optic nerve pathology with ocular pressure and corneal thickness in the DBA/2 mouse model of glaucoma. <i>Investigative Ophthalmology and Visual Science</i> , <b>2006</b> , 47, 986-96		106
3	Pressure-induced regulation of IL-6 in retinal glial cells: involvement of the ubiquitin/proteasome pathway and NFkappaB. <i>Investigative Ophthalmology and Visual Science</i> , <b>2006</b> , 47, 3860-9		38
2	Morphological identification of ganglion cells expressing the alpha subunit of type II calmodulin-dependent protein kinase in the macaque retina. <i>Journal of Comparative Neurology</i> , <b>2005</b> , 481, 194-209	3.4	16

- 1 Optic nerve degeneration in a murine model of juvenile ceroid lipofuscinosis. *Investigative Ophthalmology and Visual Science*, **2003**, 44, 3725-31

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