James B Hurley

List of Publications by Year in Descending Order

48 papers	4,656 citations	24 h-index	56 g-index
56 ext. papers	5,353 ext. citations	7.8 avg, IF	4.63 L-index

#	Paper	IF	Citations
48	Monocarboxylate Transporter 1 (MCT1) Mediates Succinate Export in the Retina. **2022**, 63, 1		1
47	An Analysis of Metabolic Changes in the Retina and Retinal Pigment Epithelium of Aging Mice **2021**, 62, 20		2
46	Extracellular matrix dysfunction in Sorsby patient-derived retinal pigment epithelium.. *Experimental Eye Research*, **2021**, 215, 108899	3.7	0
45	Effect of selectively knocking down key metabolic genes in M□ler glia on photoreceptor health. *Glia*, **2021**, 69, 1966-1986	9	5
44	Mitochondria: The Retina\s Achilles\Heel in AMD. *Advances in Experimental Medicine and Biology*, **2021**, 1256, 237-264	3.6	1
43	Absence of retbindin blocks glycolytic flux, disrupts metabolic homeostasis, and leads to photoreceptor degeneration. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	5
42	Retina Metabolism and Metabolism in the Pigmented Epithelium: A Busy Intersection. *Annual Review of Vision Science*, **2021**, 7, 665-692	8.2	8
41	Daily mitochondrial dynamics in cone photoreceptors. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 28816-28827	11.5	11
40	Non-photopic and photopic visual cycles differentially regulate immediate, early, and late phases of cone photoreceptor-mediated vision. *Journal of Biological Chemistry*, **2020**, 295, 6482-6497	5.4	9
39	Succinate Can Shuttle Reducing Power from the Hypoxic Retina to the O-Rich Pigment Epithelium. *Cell Reports*, **2020**, 31, 107606	10.6	29
38	Retinal disease: How to use proteomics to speed up diagnosis and metabolomics to slow down degeneration. *EBioMedicine*, **2020**, 53, 102687	8.8	3
37	Mitochondrial Calcium Uniporter (MCU) deficiency reveals an alternate path for Ca uptake in photoreceptor mitochondria. *Scientific Reports*, **2020**, 10, 16041	4.9	11
36	Increasing Ca in photoreceptor mitochondria alters metabolites, accelerates photoresponse recovery, and reveals adaptations to mitochondrial stress. *Cell Death and Differentiation*, **2020**, 27, 1067-1085	12.7	17
35	Loss of MPC1 reprograms retinal metabolism to impair visual function. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 3530-3535	11.5	43
34	Pyruvate kinase M2 regulates photoreceptor structure, function, and viability. *Cell Death and Disease*, **2018**, 9, 240	9.8	25
33	How Excessive cGMP Impacts Metabolic Proteins in Retinas at the Onset of Degeneration. *Advances in Experimental Medicine and Biology*, **2018**, 1074, 289-295	3.6	6
32	Impact of euthanasia, dissection and postmortem delay on metabolic profile in mouse retina and RPE/choroid. *Experimental Eye Research*, **2018**, 174, 113-120	3.7	15

31	Preparing Fresh Retinal Slices from Adult Zebrafish for Ex Vivo Imaging Experiments. *Journal of Visualized Experiments*, **2018**,	1.6	1
30	Mitochondria Maintain Distinct Ca Pools in Cone Photoreceptors. *Journal of Neuroscience*, **2017**, 37, 2061-2072	6.2	30
29	Human retinal pigment epithelial cells prefer proline as a nutrient and transport metabolic intermediates to the retinal side. *Journal of Biological Chemistry*, **2017**, 292, 12895-12905	5.4	48
28	Biochemical adaptations of the retina and retinal pigment epithelium support a metabolic ecosystem in the vertebrate eye. *ELife*, **2017**, 6,	8.9	146
27	Warburg's vision. *ELife*, **2017**, 6,	8.9	1
26	Phototransduction Influences Metabolic Flux and Nucleotide Metabolism in Mouse Retina. *Journal of Biological Chemistry*, **2016**, 291, 4698-710	5.4	58
25	Reprogramming metabolism by targeting sirtuin 6 attenuates retinal degeneration. *Journal of Clinical Investigation*, **2016**, 126, 4659-4673	15.9	52
24	Deficient glucose and glutamine metabolism in knockout mice contributes to altered visual function. *Molecular Vision*, **2016**, 22, 1198-1212	2.3	9
23	Reductive carboxylation is a major metabolic pathway in the retinal pigment epithelium. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 14710-14715	11.5	59
22	Probing Metabolism in the Intact Retina Using Stable Isotope Tracers. *Methods in Enzymology*, **2015**, 561, 149-70	1.7	45
21	Glucose, lactate, and shuttling of metabolites in vertebrate retinas. *Journal of Neuroscience Research*, **2015**, 93, 1079-92	4.4	127
20	Deregulated Myc requires MondoA/Mlx for metabolic reprogramming and tumorigenesis. *Cancer Cell*, **2015**, 27, 271-85	24.3	124
19	Pyruvate kinase and aspartate-glutamate carrier distributions reveal key metabolic links between neurons and glia in retina. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 15579-84	11.5	83
18	The retinal pigment epithelium utilizes fatty acids for ketogenesis. *Journal of Biological Chemistry*, **2014**, 289, 20570-82	5.4	81
17	Inhibition of mitochondrial pyruvate transport by zaprinast causes massive accumulation of aspartate at the expense of glutamate in the retina. *Journal of Biological Chemistry*, **2013**, 288, 36129-40	5.4	51
16	Cytosolic reducing power preserves glutamate in retina. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 18501-6	11.5	41
15	Guidelines for the use and interpretation of assays for monitoring autophagy. *Autophagy*, **2012**, 8, 445-544	10.2	2783
14	Flow of energy in the outer retina in darkness and in light. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 8599-604	11.5	81

13	Identification of a zebrafish cone photoreceptor-specific promoter and genetic rescue of achromatopsia in the nof mutant. *Investigative Ophthalmology and Visual Science*, **2007**, 48, 522-9		64
12	Scotopic and Photopic Visual Thresholds and Spatial and Temporal Discrimination Evaluated by Behavior of Mice in a Water Maze *Photochemistry and Photobiology*, **2006**, 82, 1489-1494	3.6	28
11	Shedding light on adaptation. *Journal of General Physiology*, **2002**, 119, 125-8	3.4	24
10	A thyroid hormone receptor that is required for the development of green cone photoreceptors. *Nature Genetics*, **2001**, 27, 94-8	36.3	397
9	Normal light response, photoreceptor integrity, and rhodopsin dephosphorylation in mice lacking both protein phosphatases with EF hands (PPEF-1 and PPEF-2). *Molecular and Cellular Biology*, **2001** , 21, 8605-14	4.8	21
8	Functional characterization of missense mutations at codon 838 in retinal guanylate cyclase correlates with disease severity in patients with autosomal dominant cone-rod dystrophy. *Human Molecular Genetics*, **2000**, 9, 3065-73	5.6	56
7	Monitoring calcium-induced conformational changes in recoverin by electrospray mass spectrometry. *Protein Science*, **1997**, 6, 843-50	6.3	16
6	Recoverin and Ca2+ in vertebrate phototransduction. *Behavioral and Brain Sciences*, **1995**, 18, 425	0.9	3
5	Recoverin, a calcium-binding protein in photoreceptors. *Behavioral and Brain Sciences*, **1995**, 18, 497	0.9	0
4	Affinities of bovine photoreceptor cGMP phosphodiesterases for rod and cone inhibitory subunits. *FEBS Letters*, **1993**, 318, 157-61	3.8	30
3	Monocarboxylate Transporter 1 (MCT1) mediates succinate export in the retina		1
2	Biochemical adaptations of the retina and retinal pigment epithelium support a metabolic ecosystem in the vertebrate eye		1
1	Succinate can shuttle reducing power from the hypoxic retina to the O2-rich pigment epithelium		2