Trevor D Lamb

List of Publications by Year
in descending order

34 papers	1,747 citations	567281 15 h-index	552781 26 g-index
34 all docs	34 docs citations	34 times ranked	1977 citing authors

#	Article	IF	Citations
1	Photoreceptor physiology and evolution: cellular and molecular basis of rod and cone phototransduction. Journal of Physiology, 2022, 600, 4585-4601.	2.9	26
2	Analysis of Paralogons, Origin of the Vertebrate Karyotype, and Ancient Chromosomes Retained in Extant Species. Genome Biology and Evolution, 2021, 13, .	2.5	17
3	Visual Opsin Diversity in Sharks and Rays. Molecular Biology and Evolution, 2020, 37, 811-827.	8.9	20
4	Evolution of the genes mediating phototransduction in rod and cone photoreceptors. Progress in Retinal and Eye Research, 2020, 76, 100823.	15.5	27
5	Mechanosensitivity is an essential component of phototransduction in vertebrate rods. PLoS Biology, 2020, 18, e3000750.	5.6	18
6	Functional Imaging of the Outer Retinal Complex using High Fidelity Imaging Retinal Densitometry. Scientific Reports, 2020, 10, 4494.	3.3	3
7	A quantitative account of mammalian rod phototransduction with PDE6 dimeric activation: responses to bright flashes. Open Biology, 2020, 10, 190241.	3.6	10
8	Mechanosensitivity is an essential component of phototransduction in vertebrate rods. , 2020, 18, e3000750.		0
9	Mechanosensitivity is an essential component of phototransduction in vertebrate rods. , 2020, 18, e3000750.		0
10	Mechanosensitivity is an essential component of phototransduction in vertebrate rods. , 2020, 18, e3000750.		0
11	Mechanosensitivity is an essential component of phototransduction in vertebrate rods. , 2020, 18, e3000750.		0
12	Mechanosensitivity is an essential component of phototransduction in vertebrate rods. , 2020, 18, e3000750.		0
13	Mechanosensitivity is an essential component of phototransduction in vertebrate rods. , 2020, 18, e3000750.		0
14	A singleâ€cell transcriptome atlas of the adult human retina. EMBO Journal, 2019, 38, e100811.	7.8	185
15	Phototransduction gain at the G-protein, transducin, and effector protein, phosphodiesterase-6, stages in retinal rods. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8653-8654.	7.1	6
16	Evolution of the shut-off steps of vertebrate phototransduction. Open Biology, 2018, 8, 170232.	3.6	10
17	It takes two transducins to activate the cGMP-phosphodiesterase 6 in retinal rods. Open Biology, 2018, 8, .	3.6	34
18	Evolution of the calcium feedback steps of vertebrate phototransduction. Open Biology, 2018, 8, 180119.	3.6	12

#	Article	IF	Citations
19	Topographic Rod Recovery Profiles after a Prolonged Dark Adaptation in Subjects with Reticular Pseudodrusen. Ophthalmology Retina, 2018, 2, 1206-1217.	2.4	18
20	Implications of dimeric activation of PDE6 for rod phototransduction. Open Biology, 2018, 8, .	3.6	20
21	Evolution of the vertebrate phototransduction cascade activation steps. Developmental Biology, 2017, 431, 77-92.	2.0	25
22	Evolution of Vertebrate Phototransduction: Cascade Activation. Molecular Biology and Evolution, 2016, 33, 2064-2087.	8.9	44
23	Quantitative modeling of the molecular steps underlying shut-off of rhodopsin activity in rod phototransduction. Molecular Vision, 2016, 22, 674-96.	1.1	14
24	The kinetics of regeneration of rhodopsin under enzyme-limited availability of 11-cis retinoid. Vision Research, 2015, 110, 23-33.	1.4	8
25	Evolution of phototransduction, vertebrate photoreceptors and retina. Progress in Retinal and Eye Research, 2013, 36, 52-119.	15.5	306
26	Modelling the initial phase of the human rod photoreceptor response to the onset of steady illumination. Documenta Ophthalmologica, 2012, 124, 125-131.	2.2	11
27	Light Adaptation in Photoreceptors. , 2011, , 429-442.		5
28	Evolution of the eye. Scientists now have a clear vision of how our notoriously complex eye came to be. Scientific American, 2011, 305, 64-9.	1.0	5
29	The evolution of phototransduction and eyes. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 2791-2793.	4.0	25
30	Evolution of vertebrate retinal photoreception. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 2911-2924.	4.0	57
31	The Origin of the Vertebrate Eye. Evolution: Education and Outreach, 2008, 1, 415-426.	0.8	35
32	Evolution of the vertebrate eye: opsins, photoreceptors, retina and eye cup. Nature Reviews Neuroscience, 2007, 8, 960-976.	10.2	400
33	Phototransduction, Dark Adaptation, and Rhodopsin Regeneration The Proctor Lecture. , 2006, 47, 5138.		230
34	The Gain of Rod Phototransduction. Neuron, 2000, 27, 525-537.	8.1	176