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Current understanding of signal amplification in phototransduction

DOI: 10.4161/cl.29390
Cellular Logistics, 2014, 4, e29390.

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Version: 2024-04-28

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#	Paper	IF	Citations
47	G protein coupled receptor signaling complexes in live cells. <i>Cellular Logistics</i> , 2014 , 4, e29392		11
46	At the physical limit - chemosensation in sperm. <i>Current Opinion in Neurobiology</i> , 2015 , 34, 110-6	7.6	20
45	Temperature sensation in Drosophila. <i>Current Opinion in Neurobiology</i> , 2015 , 34, 8-13	7.6	67
44	Optogenetic Vision Restoration Using Rhodopsin for Enhanced Sensitivity. <i>Molecular Therapy</i> , 2015 , 23, 1562-71	11.7	83
43	Discs of mammalian rod photoreceptors form through the membrane evagination mechanism. <i>Journal of Cell Biology</i> , 2015 , 211, 495-502	7.3	65
42	Photoreceptors at a glance. <i>Journal of Cell Science</i> , 2015 , 128, 4039-45	5.3	91
41	Aryl Hydrocarbon Receptor-interacting Protein-like 1 Is an Obligate Chaperone of Phosphodiesterase 6 and Is Assisted by the β Subunit of Its Client. <i>Journal of Biological Chemistry</i> , 2016 , 291, 16282-91	5.4	23
40	Sperm Sensory Signaling. <i>Cold Spring Harbor Perspectives in Biology</i> , 2017 , 9,	10.2	28
39	Bright flash response recovery of mammalian rods in vivo is rate limited by RGS9. <i>Journal of General Physiology</i> , 2017 , 149, 443-454	3.4	11
38	AiPL1: A specialized chaperone for the phototransduction effector. <i>Cellular Signalling</i> , 2017 , 40, 183-189	4.9	18
37	Fractional integral-like processing in retinal cones reduces noise and improves adaptation. <i>PLoS ONE</i> , 2018 , 13, e0205099	3.7	
36	Enhanced Mutant Compensates for Defects in Rhodopsin Phosphorylation in the Presence of Endogenous Arrestin-1. <i>Frontiers in Molecular Neuroscience</i> , 2018 , 11, 203	6.1	6
35	Cone photoreceptor classification in the living human eye from photostimulation-induced phase dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 7951-7956	11.5	66
34	Interaction of the tetratricopeptide repeat domain of aryl hydrocarbon receptor-interacting protein-like 1 with the regulatory β subunit of phosphodiesterase 6. <i>Journal of Biological Chemistry</i> , 2019 , 294, 15795-15807	5.4	7
33	The differential actions of clozapine and other antipsychotic drugs on the translocation of dopamine D2 receptors to the cell surface. <i>Journal of Biological Chemistry</i> , 2019 , 294, 5604-5615	5.4	9
32	Rejection of the biophoton hypothesis on the origin of photoreceptor dark noise. <i>Journal of General Physiology</i> , 2019 , 151, 887-897	3.4	2
31	Chemical shift assignments of retinal guanylyl cyclase activating protein 5 (GCAP5). <i>Biomolecular NMR Assignments</i> , 2019 , 13, 201-205	0.7	1

30	Autophagy in rod photoreceptors is independently regulated by phototransduction and misfolded RHO. <i>Autophagy</i> , 2019 , 15, 1970-1989	10.2	6
29	Mechanisms of Cellular Signal Transduction. 2019 , 21-48		
28	Elementary response triggered by transducin in retinal rods. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 5144-5153	11.5	15
27	Retinal degeneration 3 (RD3) protein, a retinal guanylyl cyclase regulator, forms a monomeric and elongated four-helix bundle. <i>Journal of Biological Chemistry</i> , 2019 , 294, 2318-2328	5.4	8
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24	Dark noise and retinal degeneration from D190N-rhodopsin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 23033-23043	11.5	2
23	Microglia Activation and Inflammation During the Death of Mammalian Photoreceptors. <i>Annual Review of Vision Science</i> , 2020 , 6, 149-169	8.2	7
22	Apo-Op sin and Its Dark Constitutive Activity across Retinal Cone Subtypes. <i>Current Biology</i> , 2020 , 30, 4921-4931.e5	6.3	4
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19	A lipid-anchored neurokinin 1 receptor antagonist prolongs pain relief by a three-pronged mechanism of action targeting the receptor at the plasma membrane and in endosomes. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100345	5.4	3
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6	Phototransduction in Anuran Green Rods: Origins of Extra-Sensitivity.. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	0
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