

# Yoshikazu Imanishi

## List of Publications by Citations

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56  
papers

3,099  
citations

30  
h-index

55  
g-index

58  
ext. papers

3,380  
ext. citations

6.6  
avg, IF

4.65  
L-index

#	Paper	IF	Citations
56	Lecithin-retinol acyltransferase is essential for accumulation of all-trans-retinyl esters in the eye and in the liver. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 10422-32	5.4	273
55	Essential role of Ca <sup>2+</sup> -binding protein 4, a Cav1.4 channel regulator, in photoreceptor synaptic function. <i>Nature Neuroscience</i> , <b>2004</b> , 7, 1079-87	25.5	243
54	Noninvasive two-photon imaging reveals retinyl ester storage structures in the eye. <i>Journal of Cell Biology</i> , <b>2004</b> , 164, 373-83	7.3	159
53	Pharmacological chaperone-mediated in vivo folding and stabilization of the P23H-opsin mutant associated with autosomal dominant retinitis pigmentosa. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 14442-14450	5.4	158
52	Dual-substrate specificity short chain retinol dehydrogenases from the vertebrate retina. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 45537-45546	5.4	146
51	Calcium-binding proteins: intracellular sensors from the calmodulin superfamily. <i>Biochemical and Biophysical Research Communications</i> , <b>2002</b> , 290, 615-23	3.4	141
50	RBP4 disrupts vitamin A uptake homeostasis in a STRA6-deficient animal model for Matthew-Wood syndrome. <i>Cell Metabolism</i> , <b>2008</b> , 7, 258-68	24.6	138
49	Role of photoreceptor-specific retinol dehydrogenase in the retinoid cycle in vivo. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 18822-32	5.4	126
48	Rhodopsin phosphorylation: 30 years later. <i>Progress in Retinal and Eye Research</i> , <b>2003</b> , 22, 417-34	20.5	116
47	Pharmacological and rAAV gene therapy rescue of visual functions in a blind mouse model of Leber congenital amaurosis. <i>PLoS Medicine</i> , <b>2005</b> , 2, e333	11.6	104
46	Retinol dehydrogenase (RDH12) protects photoreceptors from light-induced degeneration in mice. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 37697-704	5.4	88
45	Characterization of retinal guanylate cyclase-activating protein 3 (GCAP3) from zebrafish to man. <i>European Journal of Neuroscience</i> , <b>2002</b> , 15, 63-78	3.5	88
44	Retinosomes: new insights into intracellular managing of hydrophobic substances in lipid bodies. <i>Journal of Cell Biology</i> , <b>2004</b> , 166, 447-53	7.3	85
43	A novel subtype of G-protein-coupled receptor kinase, GRK7, in teleost cone photoreceptors. <i>FEBS Letters</i> , <b>1998</b> , 424, 159-64	3.8	83
42	Diversity of guanylate cyclase-activating proteins (GCAPs) in teleost fish: characterization of three novel GCAPs (GCAP4, GCAP5, GCAP7) from zebrafish ( <i>Danio rerio</i> ) and prediction of eight GCAPs (GCAP1-8) in pufferfish ( <i>Fugu rubripes</i> ). <i>Journal of Molecular Evolution</i> , <b>2004</b> , 59, 204-217	3.1	82
41	Effects of potent inhibitors of the retinoid cycle on visual function and photoreceptor protection from light damage in mice. <i>Molecular Pharmacology</i> , <b>2006</b> , 70, 1220-9	4.3	75
40	Identification of all-trans-retinol:all-trans-13,14-dihydroretinol saturase. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 50230-42	5.4	72

39	Usher syndrome IIIA gene clarin-1 is essential for hair cell function and associated neural activation. <i>Human Molecular Genetics</i> , <b>2009</b> , 18, 2748-60	5.6	65
38	Noninvasive multiphoton fluorescence microscopy resolves retinol and retinal condensation products in mouse eyes. <i>Nature Medicine</i> , <b>2010</b> , 16, 1444-9	50.5	59
37	An unconventional secretory pathway mediates the cilia targeting of peripherin/rds. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 992-1006	6.6	57
36	Lecithin:retinol acyltransferase is responsible for amidation of retinylamine, a potent inhibitor of the retinoid cycle. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 42263-73	5.4	54
35	Retinoid cycle in the vertebrate retina: experimental approaches and mechanisms of isomerization. <i>Vision Research</i> , <b>2003</b> , 43, 2959-81	2.1	53
34	Rhodopsin Trafficking and Mistrafficking: Signals, Molecular Components, and Mechanisms. <i>Progress in Molecular Biology and Translational Science</i> , <b>2015</b> , 132, 39-71	4	50
33	Two-photon microscopy: shedding light on the chemistry of vision. <i>Biochemistry</i> , <b>2007</b> , 46, 9674-84	3.2	49
32	Topology and membrane association of lecithin: retinol acyltransferase. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 2081-90	5.4	47
31	The mechanosensory structure of the hair cell requires clarin-1, a protein encoded by Usher syndrome III causative gene. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 9485-98	6.6	46
30	Signals governing the trafficking and mistrafficking of a ciliary GPCR, rhodopsin. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 13621-38	6.6	44
29	Clarin-1, encoded by the Usher Syndrome III causative gene, forms a membranous microdomain: possible role of clarin-1 in organizing the actin cytoskeleton. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 18980-93	5.4	43
28	A small molecule mitigates hearing loss in a mouse model of Usher syndrome III. <i>Nature Chemical Biology</i> , <b>2016</b> , 12, 444-51	11.7	38
27	Aberrant metabolites in mouse models of congenital blinding diseases: formation and storage of retinyl esters. <i>Biochemistry</i> , <b>2006</b> , 45, 4210-9	3.2	34
26	Three kinds of guanylate cyclase expressed in medaka photoreceptor cells in both retina and pineal organ. <i>Biochemical and Biophysical Research Communications</i> , <b>1999</b> , 255, 216-20	3.4	28
25	Submembrane assembly and renewal of rod photoreceptor cGMP-gated channel: insight into the actin-dependent process of outer segment morphogenesis. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 8164-74	6.6	25
24	Retinyl ester homeostasis in the adipose differentiation-related protein-deficient retina. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 25091-102	5.4	22
23	Autosomal recessive retinitis pigmentosa and E150K mutation in the opsin gene. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 22289-22298	5.4	21
22	Arrestins expressed in killifish photoreceptor cells. <i>FEBS Letters</i> , <b>1997</b> , 411, 12-8	3.8	20

21	Applications of phototransformable fluorescent proteins for tracking the dynamics of cellular components. <i>Photochemical and Photobiological Sciences</i> , <b>2015</b> , 14, 1787-806	4.2	19
20	Müller glia phagocytose dead photoreceptor cells in a mouse model of retinal degenerative disease. <i>FASEB Journal</i> , <b>2019</b> , 33, 3680-3692	0.9	19
19	Proteomic changes in the photoreceptor outer segment upon intense light exposure. <i>Journal of Proteome Research</i> , <b>2010</b> , 9, 1173-81	5.6	17
18	Organization of cGMP sensing structures on the rod photoreceptor outer segment plasma membrane. <i>Channels</i> , <b>2014</b> , 8, 528-35	3	16
17	Hippocalcin in the olfactory epithelium: a mediator of second messenger signaling. <i>Biochemical and Biophysical Research Communications</i> , <b>2004</b> , 322, 1131-9	3.4	13
16	Two types of arrestins expressed in medaka rod photoreceptors. <i>FEBS Letters</i> , <b>1999</b> , 462, 31-6	3.8	13
15	Visualization of retinoid storage and trafficking by two-photon microscopy. <i>Methods in Molecular Biology</i> , <b>2010</b> , 652, 247-61	1.4	11
14	Retrograde intraciliary trafficking of opsin during the maintenance of cone-shaped photoreceptor outer segments of <i>Xenopus laevis</i> . <i>Journal of Comparative Neurology</i> , <b>2014</b> , 522, 3577-3589	3.4	10
13	Impairment of Vision in a Mouse Model of Usher Syndrome Type III <b>2016</b> , 57, 866-75		8
12	Retinol dehydrogenase 8 and ATP-binding cassette transporter 4 modulate dark adaptation of M-cones in mammalian retina. <i>Journal of Physiology</i> , <b>2015</b> , 593, 4923-41	3.9	7
11	Disrupted Plasma Membrane Protein Homeostasis in a Model of Retinitis Pigmentosa. <i>Journal of Neuroscience</i> , <b>2019</b> , 39, 5581-5593	6.6	6
10	Protein Sorting in Healthy and Diseased Photoreceptors. <i>Annual Review of Vision Science</i> , <b>2019</b> , 5, 73-98	8.2	6
9	Monitoring of rhodopsin trafficking and mistrafficking in live photoreceptors. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1271, 293-307	1.4	6
8	RPE Cells Engulf Microvesicles Secreted by Degenerating Rod Photoreceptors. <i>ENeuro</i> , <b>2020</b> , 7,	3.9	4
7	Pharmacological chaperone-mediated in vivo folding and stabilization of the P23H-opsin mutant associated with autosomal dominant retinitis pigmentosa. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 21314	5.4	4
6	A third photoreceptor-specific GRK found in the retina of <i>Oryzias latipes</i> (Japanese killifish). <i>Zoological Science</i> , <b>2007</b> , 24, 87-93	0.8	3
5	Aster proteins mediate carotenoid transport in mammalian cells.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2200068119	11.5	3
4	Evolution of visual pigments and related molecules. <i>Novartis Foundation Symposium</i> , <b>1999</b> , 224, 44-52; discussion 52-3		2

- 3 Retrograde intraciliary trafficking of opsin during the maintenance of cone-shaped photoreceptor outer segments of *Xenopus laevis*. *Journal of Comparative Neurology*, **2014**, 522, Spc1-Spc1 3.4
- 2 A smartphone based method for mouse fundus imaging. *Experimental Eye Research*, **2021**, 206, 108530 3.7
- 1 Spatiotemporal Analysis of Protein Transport and Membrane Morphogenesis in Vertebrate Photoreceptors. *Seibutsu Butsuri*, **2016**, 56, 018-022 0