

# Y Fukada

## List of Publications by Citations

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97  
papers

4,901  
citations

40  
h-index

68  
g-index

100  
ext. papers

5,038  
ext. citations

6.1  
avg. IF

4.65  
L-index

#	Paper	IF	Citations
97	Farnesylated gamma-subunit of photoreceptor G protein indispensable for GTP-binding. <i>Nature</i> , <b>1990</b> , 346, 658-60	50.4	450
96	Primary structures of chicken cone visual pigments: vertebrate rhodopsins have evolved out of cone visual pigments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1992</b> , 89, 5932-6	11.5	304
95	Pinopsin is a chicken pineal photoreceptive molecule. <i>Nature</i> , <b>1994</b> , 372, 94-7	50.4	296
94	Lipid modification at the N terminus of photoreceptor G-protein alpha-subunit. <i>Nature</i> , <b>1992</b> , 359, 749-52	50.4	233
93	Studies on structure and function of rhodopsin by use of cyclopentatrienylidene 11-cis-locked-rhodopsin. <i>Biochemistry</i> , <b>1984</b> , 23, 5826-32	3.2	138
92	Vertebrate ancient-long opsin: a green-sensitive photoreceptive molecule present in zebrafish deep brain and retinal horizontal cells. <i>Journal of Neuroscience</i> , <b>2000</b> , 20, 2845-51	6.6	127
91	Purification of cone visual pigments from chicken retina. <i>Biochemistry</i> , <b>1989</b> , 28, 8848-56	3.2	120
90	Exo-rhodopsin: a novel rhodopsin expressed in the zebrafish pineal gland. <i>Molecular Brain Research</i> , <b>1999</b> , 73, 110-8		115
89	Carboxyl methylation and farnesylation of transducin gamma-subunit synergistically enhance its coupling with metarhodopsin II.. <i>EMBO Journal</i> , <b>1991</b> , 10, 3669-3674	13	113
88	Cone visual pigments are present in gecko rod cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1992</b> , 89, 6841-5	11.5	103
87	Light-induced phase-delay of the chicken pineal circadian clock is associated with the induction of cE4bp4, a potential transcriptional repressor of cPer2 gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2001</b> , 98, 8089-94	11.5	93
86	Effects of carboxyl methylation of photoreceptor G protein gamma-subunit in visual transduction.. <i>Journal of Biological Chemistry</i> , <b>1994</b> , 269, 5163-5170	5.4	86
85	Identification of nonvisual photomotor response cells in the vertebrate hindbrain. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 3834-43	6.6	77
84	Is chicken green-sensitive cone visual pigment a rhodopsin-like pigment? A comparative study of the molecular properties between chicken green and rhodopsin. <i>Biochemistry</i> , <b>1994</b> , 33, 9040-4	3.2	73
83	Effects of carboxyl methylation of photoreceptor G protein gamma-subunit in visual transduction. <i>Journal of Biological Chemistry</i> , <b>1994</b> , 269, 5163-70	5.4	72
82	Chicken pineal clock genes: implication of BMAL2 as a bidirectional regulator in circadian clock oscillation. <i>Genes To Cells</i> , <b>2001</b> , 6, 825-36	2.3	71
81	Role of circadian activation of mitogen-activated protein kinase in chick pineal clock oscillation. <i>Journal of Neuroscience</i> , <b>2000</b> , 20, 986-91	6.6	70

80	Identification of rhodopsin in the pigeon deep brain. <i>FEBS Letters</i> , <b>1998</b> , 424, 53-6	3.8	69
79	Chicken pineal Cry genes: light-dependent up-regulation of cCry1 and cCry2 transcripts. <i>Neuroscience Letters</i> , <b>2001</b> , 313, 13-6	3.3	69
78	Activation by G protein beta gamma subunits of beta-adrenergic and muscarinic receptor kinase.. <i>Journal of Biological Chemistry</i> , <b>1993</b> , 268, 7753-7758	5.4	68
77	Primary structure of a gamma subunit of G protein, gamma 12, and its phosphorylation by protein kinase C. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 29469-75	5.4	67
76	Activation by G protein beta gamma subunits of beta-adrenergic and muscarinic receptor kinase. <i>Journal of Biological Chemistry</i> , <b>1993</b> , 268, 7753-8	5.4	62
75	Light-dependent and circadian clock-regulated activation of sterol regulatory element-binding protein, X-box-binding protein 1, and heat shock factor pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 4864-9	11.5	60
74	What makes red visual pigments red? A resonance Raman microprobe study of retinal chromophore structure in iodopsin. <i>Biochemistry</i> , <b>1994</b> , 33, 2151-60	3.2	58
73	Comparative study on the chromophore binding sites of rod and red-sensitive cone visual pigments by use of synthetic retinal isomers and analogues. <i>Biochemistry</i> , <b>1990</b> , 29, 3133-40	3.2	56
72	The primary structure of iodopsin, a chicken red-sensitive cone pigment. <i>FEBS Letters</i> , <b>1990</b> , 272, 128-32	3.8	55
71	βSubunit of Bovine Transducin Composed of Two Components with Distinctive βSubunits. <i>Journal of Biological Chemistry</i> , <b>1989</b> , 264, 5937-5943	5.4	54
70	Circular dichroism of metaiodopsin II and its binding to transducin: a comparative study between meta II intermediates of iodopsin and rhodopsin. <i>Biochemistry</i> , <b>1994</b> , 33, 4940-6	3.2	51
69	Beta gamma-subunit of bovine transducin composed of two components with distinctive gamma-subunits. <i>Journal of Biological Chemistry</i> , <b>1989</b> , 264, 5937-43	5.4	51
68	Characterization of interactions between transducin alpha/beta gamma-subunits and lipid membranes. <i>Journal of Biological Chemistry</i> , <b>1994</b> , 269, 30358-63	5.4	51
67	Presence of two rhodopsin intermediates responsible for transducin activation. <i>Biochemistry</i> , <b>1997</b> , 36, 14173-80	3.2	49
66	Effects of chloride on chicken iodopsin and the chromophore transfer reactions from iodopsin to scotopsin and B-photopsin. <i>Biochemistry</i> , <b>1990</b> , 29, 5843-8	3.2	48
65	Immunocytochemical identification of pinopsin in pineal glands of chicken and pigeon. <i>Molecular Brain Research</i> , <b>1997</b> , 50, 190-6		47
64	Pineal expression-promoting element (PIPE), a cis-acting element, directs pineal-specific gene expression in zebrafish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 15456-61	11.5	47
63	Characterization of interactions between transducin alpha/beta gamma-subunits and lipid membranes.. <i>Journal of Biological Chemistry</i> , <b>1994</b> , 269, 30358-30363	5.4	46

62	Photosensitivities of iodopsin and rhodopsins. <i>Photochemistry and Photobiology</i> , <b>1992</b> , 56, 995-1001	3.6	45
61	A deep brain photoreceptive molecule in the toad hypothalamus. <i>FEBS Letters</i> , <b>1998</b> , 424, 69-72	3.8	43
60	Specific isoprenyl group linked to transducin gamma-subunit is a determinant of its unique signaling properties among G-proteins. <i>Biochemistry</i> , <b>1998</b> , 37, 9843-50	3.2	43
59	Activation of phosphodiesterase in frog rod outer segment by an intermediate of rhodopsin photolysis. II. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>1981</b> , 675, 195-200	4	43
58	Visual pigments in the pineal complex of the Japanese quail, Japanese grass lizard and bullfrog: immunocytochemistry and HPLC analysis. <i>Tissue and Cell</i> , <b>1994</b> , 26, 101-13	2.7	41
57	Differentiation of both rod and cone types of photoreceptors in the in vivo and in vitro developing pineal glands of the quail. <i>Developmental Brain Research</i> , <b>1992</b> , 65, 85-92		39
56	Effect of chloride ion on the thermal decay process of the batho intermediate of iodopsin at low temperature. <i>Biochemistry</i> , <b>1989</b> , 28, 9412-6	3.2	39
55	Chimeric nature of pinopsin between rod and cone visual pigments. <i>Biochemistry</i> , <b>1999</b> , 38, 14738-45	3.2	37
54	A specific beta gamma-subunit of transducin stimulates ADP-ribosylation of the alpha-subunit by pertussis toxin. <i>Biochemical and Biophysical Research Communications</i> , <b>1990</b> , 167, 1235-41	3.4	37
53	Cloning of mouse BMAL2 and its daily expression profile in the suprachiasmatic nucleus: a remarkable acceleration of Bmal2 sequence divergence after Bmal gene duplication. <i>Neuroscience Letters</i> , <b>2001</b> , 300, 111-4	3.3	36
52	Phototransduction molecules in the pigeon deep brain. <i>Journal of Comparative Neurology</i> , <b>2000</b> , 428, 138-44	3.4	34
51	Phosphorylation of iodopsin, chicken red-sensitive cone visual pigment. <i>Biochemistry</i> , <b>1990</b> , 29, 10102-6	3.2	34
50	Purification of four forms of the beta gamma subunit complex of G proteins containing different gamma subunits. <i>Journal of Biological Chemistry</i> , <b>1993</b> , 268, 20512-9	5.4	34
49	Photoreception and circadian clock system of the chicken pineal gland. <i>Microscopy Research and Technique</i> , <b>2001</b> , 53, 72-80	2.8	33
48	Nanosecond laser photolysis of iodopsin, a chicken red-sensitive cone visual pigment. <i>Biochemistry</i> , <b>1993</b> , 32, 10832-8	3.2	33
47	Purification of four forms of the beta gamma subunit complex of G proteins containing different gamma subunits.. <i>Journal of Biological Chemistry</i> , <b>1993</b> , 268, 20512-20519	5.4	32
46	Circadian and photic regulation of MAP kinase by Ras- and protein phosphatase-dependent pathways in the chick pineal gland. <i>FEBS Letters</i> , <b>2001</b> , 491, 71-5	3.8	31
45	Molecular properties of chimerical mutants of gecko blue and bovine rhodopsin. <i>Biochemistry</i> , <b>1996</b> , 35, 2625-9	3.2	31

44	Localization of iodopsin and rod-opsin immunoreactivity in the retina and pineal complex of the river lamprey, <i>Lampetra japonica</i> . <i>Cell and Tissue Research</i> , <b>1994</b> , 278, 1-10	4.2	30
43	Phototransduction cascade and circadian oscillator in chicken pineal gland. <i>Journal of Pineal Research</i> , <b>1997</b> , 22, 145-51	10.4	28
42	Immunoreactivities to rhodopsin and rod/cone transducin antisera in the retina, pineal complex and deep brain of the bullfrog, <i>Rana catesbeiana</i> . <i>Zoological Science</i> , <b>1994</b> , 11, 675-80	0.8	26
41	Rod-type transducin alpha-subunit mediates a phototransduction pathway in the chicken pineal gland. <i>Journal of Neurochemistry</i> , <b>2000</b> , 75, 217-24	6	25
40	Immunohistochemical localization of iodopsin in the retina of the chicken and Japanese quail. <i>Cell and Tissue Research</i> , <b>1990</b> , 261, 397-401	4.2	25
39	Bathiodopsin, a primary intermediate of iodopsin at physiological temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1990</b> , 87, 8908-12	11.5	25
38	Role of heterogeneous N-terminal acylation of recoverin in rhodopsin phosphorylation. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 15459-62	5.4	24
37	Monoclonal antibodies to chicken iodopsin. <i>Experimental Eye Research</i> , <b>1989</b> , 48, 281-93	3.7	24
36	Light-dependent expression of pinopsin gene in chicken pineal gland. <i>Journal of Neurochemistry</i> , <b>1998</b> , 70, 908-13	6	23
35	Calcium-bound recoverin targets rhodopsin kinase to membranes to inhibit rhodopsin phosphorylation. <i>FEBS Letters</i> , <b>1996</b> , 384, 227-30	3.8	23
34	Non-visual photoreception by a variety of vertebrate opsins. <i>Novartis Foundation Symposium</i> , <b>1999</b> , 224, 265-79; discussion 279-82		23
33	Immunoelectron-microscopic investigation of the subcellular localization of pinopsin in the pineal organ of the chicken. <i>Cell and Tissue Research</i> , <b>1997</b> , 289, 235-41	4.2	21
32	Purification and low temperature spectroscopy of gecko visual pigments green and blue. <i>Biochemistry</i> , <b>1995</b> , 34, 1096-106	3.2	20
31	Identification and isolation of common and tissue-specific geranylgeranylated gamma subunits of guanine-nucleotide-binding regulatory proteins in various tissues. <i>FEBS Journal</i> , <b>1992</b> , 210, 1061-9		20
30	Ectopic expression of cone-specific G-protein-coupled receptor kinase GRK7 in zebrafish rods leads to lower photosensitivity and altered responses. <i>Journal of Physiology</i> , <b>2011</b> , 589, 2321-48	3.9	19
29	Diversity of opsin immunoreactivities in the extraretinal tissues of four anuran amphibians. <i>The Journal of Experimental Zoology</i> , <b>2000</b> , 286, 136-42		19
28	Circadian activation of bullfrog retinal mitogen-activated protein kinase associates with oscillator function. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 37078-85	5.4	19
27	Prenylation and carboxymethylation of G-protein gamma subunit. <i>Methods in Enzymology</i> , <b>1995</b> , 250, 91-105	1.7	19

26	Identification of a retina-specific MEKA protein as a 33 K protein. <i>Biochemical and Biophysical Research Communications</i> , <b>1989</b> , 162, 1063-8	3.4	19
25	Activation of phosphodiesterase by rhodopsin and its analogues. <i>Biophysics of Structure and Mechanism</i> , <b>1983</b> , 9, 245-58		18
24	Photoreceptor cell types in the retina of various vertebrate species: immunocytochemistry with antibodies against rhodopsin and iodopsin. <i>Photochemistry and Photobiology</i> , <b>1992</b> , 56, 1157-66	3.6	17
23	Chicken red-sensitive cone visual pigment retains a binding domain for transducin. <i>FEBS Letters</i> , <b>1989</b> , 246, 69-72	3.8	17
22	Activation of phosphodiesterase in frog rod outer segment by an intermediate of rhodopsin photolysis I. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>1981</b> , 675, 188-94	4	17
21	Colocalization of pinopsin with two types of G-protein $\beta$ subunits in the chicken pineal gland. <i>Cell and Tissue Research</i> , <b>2000</b> , 299, 245-251	4.2	15
20	Molecular basis for tetrachromatic color vision. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , <b>1995</b> , 112, 405-14	2.3	14
19	MEKA/phosducin attenuates hydrophobicity of transducin beta gamma subunits without binding to farnesyl moiety. <i>Biochemical and Biophysical Research Communications</i> , <b>1996</b> , 223, 587-91	3.4	14
18	Carboxyl methylation and farnesylation of transducin gamma-subunit synergistically enhance its coupling with metarhodopsin II. <i>EMBO Journal</i> , <b>1991</b> , 10, 3669-74	13	14
17	Colocalization of pinopsin with two types of G-protein alpha-subunits in the chicken pineal gland. <i>Cell and Tissue Research</i> , <b>2000</b> , 299, 245-51	4.2	13
16	Differentiation of pinopsin-immunoreactive cells in the developing quail pineal organ: an in-vivo and in-vitro immunohistochemical study. <i>Cell and Tissue Research</i> , <b>1999</b> , 296, 667-71	4.2	13
15	Localization of iodopsin in the chick retina during in vivo and in vitro cone differentiation. <i>Investigative Ophthalmology and Visual Science</i> , <b>1990</b> , 31, 1466-73		12
14	Molecular cloning of heterotrimeric G-protein alpha-subunits in chicken pineal gland. <i>Journal of Molecular Evolution</i> , <b>1997</b> , 44 Suppl 1, S91-7	3.1	11
13	Effect of brefeldin A on melatonin secretion of chick pineal cells. <i>Journal of Biochemistry</i> , <b>2001</b> , 129, 51-9	3.1	11
12	Functional analysis of farnesylation and methylation of transducin. <i>Methods in Enzymology</i> , <b>2000</b> , 316, 465-81	1.7	11
11	Activation of phosphodiesterase by chicken iodopsin. <i>FEBS Letters</i> , <b>1982</b> , 149, 117-22	3.8	11
10	Identification of the alpha-subunits of rod and cone transducin in chicken photoreceptor cells. <i>Experimental Eye Research</i> , <b>1993</b> , 57, 135-40	3.7	9
9	Activation of phosphodiesterase in frog rod outer segment by rhodopsin analogues. <i>BBA - Proteins and Proteomics</i> , <b>1982</b> , 708, 112-7		9

8	Photoreceptors in pineal gland and brain: cloning, localization, and overexpression. <i>Methods in Enzymology</i> , <b>2000</b> , 316, 278-91	1.7	8
7	Binding of GTP to transducin is not inhibited by arrestin and phosphorylated rhodopsin. <i>FEBS Letters</i> , <b>1990</b> , 261, 419-22	3.8	8
6	Regulatory mechanism for the stability of the meta II intermediate of pinopsin. <i>Journal of Biochemistry</i> , <b>2001</b> , 129, 329-34	3.1	6
5	Preparation and characterization of monoclonal antibodies specific for lauroylated isoform of bovine transducin alpha-subunit: immunohistochemical analysis of bovine retinas. <i>Journal of Neurochemistry</i> , <b>1996</b> , 66, 2188-96	6	2
4	Structure and function of gamma-subunit of photoreceptor G-protein (transducin). <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , <b>1991</b> , 100, 433-8		2
3	Localization of iodopsin and rod-opsin immunoreactivity in the retina and pineal complex of the river lamprey, <i>Lampetra japonica</i> . <i>Cell and Tissue Research</i> , <b>1994</b> , 278, 1-10	4.2	2
2	Functional heterogeneity of beta gamma-subunit of frog transducin. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , <b>1990</b> , 95, 763-5		1
1	Characterization of N-acylation of Go alpha purified from bovine retinas. <i>NeuroReport</i> , <b>1999</b> , 10, 2999-3002		