Y Fukada

List of Publications by Year in Descending Order

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	Identification of nonvisual photomotor response cells in the vertebrate hindbrain. *Journal of Neuroscience*, **2013**, 33, 3834-43	6.6	77
96	Ectopic expression of cone-specific G-protein-coupled receptor kinase GRK7 in zebrafish rods leads to lower photosensitivity and altered responses. *Journal of Physiology*, **2011**, 589, 2321-48	3.9	19
95	Light-dependent and circadian clock-regulated activation of sterol regulatory element-binding protein, X-box-binding protein 1, and heat shock factor pathways. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 4864-9	11.5	60
94	Pineal expression-promoting element (PIPE), a cis-acting element, directs pineal-specific gene expression in zebrafish. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 15456-61	11.5	47
93	Chicken pineal clock genes: implication of BMAL2 as a bidirectional regulator in circadian clock oscillation. *Genes To Cells*, **2001**, 6, 825-36	2.3	71
92	Photoreception and circadian clock system of the chicken pineal gland. *Microscopy Research and Technique*, **2001**, 53, 72-80	2.8	33
91	Light-induced phase-delay of the chicken pineal circadian clock is associated with the induction of cE4bp4, a potential transcriptional repressor of cPer2 gene. *Proceedings of the National Academy of Sciences of the United States of America*, **2001**, 98, 8089-94	11.5	93
90	Effect of brefeldin A on melatonin secretion of chick pineal cells. *Journal of Biochemistry*, **2001**, 129, 51-9	3.1	11
89	Cloning of mouse BMAL2 and its daily expression profile in the suprachiasmatic nucleus: a remarkable acceleration of Bmal2 sequence divergence after Bmal gene duplication. *Neuroscience Letters*, **2001**, 300, 111-4	3.3	36
88	Chicken pineal Cry genes: light-dependent up-regulation of cCry1 and cCry2 transcripts. *Neuroscience Letters*, **2001**, 313, 13-6	3.3	69
87	Circadian and photic regulation of MAP kinase by Ras- and protein phosphatase-dependent pathways in the chick pineal gland. *FEBS Letters*, **2001**, 491, 71-5	3.8	31
86	Regulatory mechanism for the stability of the meta II intermediate of pinopsin. *Journal of Biochemistry*, **2001**, 129, 329-34	3.1	6
85	Rod-type transducin alpha-subunit mediates a phototransduction pathway in the chicken pineal gland. *Journal of Neurochemistry*, **2000**, 75, 217-24	6	25
84	Photoreceptors in pineal gland and brain: cloning, localization, and overexpression. *Methods in Enzymology*, **2000**, 316, 278-91	1.7	8
83	Functional analysis of farnesylation and methylation of transducin. *Methods in Enzymology*, **2000**, 316, 465-81	1.7	11
82	Diversity of opsin immunoreactivities in the extraretinal tissues of four anuran amphibians. *The Journal of Experimental Zoology*, **2000**, 286, 136-42		19
81	Phototransduction molecules in the pigeon deep brain. *Journal of Comparative Neurology*, **2000**, 428, 138-44	3.4	34

80	Colocalization of pinopsin with two types of G-protein □subunits in the chicken pineal gland. *Cell and Tissue Research*, **2000**, 299, 245-251	4.2	15
79	Vertebrate ancient-long opsin: a green-sensitive photoreceptive molecule present in zebrafish deep brain and retinal horizontal cells. *Journal of Neuroscience*, **2000**, 20, 2845-51	6.6	127
78	Role of circadian activation of mitogen-activated protein kinase in chick pineal clock oscillation. *Journal of Neuroscience*, **2000**, 20, 986-91	6.6	70
77	Circadian activation of bullfrog retinal mitogen-activated protein kinase associates with oscillator function. *Journal of Biological Chemistry*, **2000**, 275, 37078-85	5.4	19
76	Colocalization of pinopsin with two types of G-protein alpha-subunits in the chicken pineal gland. *Cell and Tissue Research*, **2000**, 299, 245-51	4.2	13
75	Differentiation of pinopsin-immunoreactive cells in the developing quail pineal organ: an in-vivo and in-vitro immunohistochemical study. *Cell and Tissue Research*, **1999**, 296, 667-71	4.2	13
74	Exo-rhodopsin: a novel rhodopsin expressed in the zebrafish pineal gland. *Molecular Brain Research*, **1999**, 73, 110-8		115
73	Chimeric nature of pinopsin between rod and cone visual pigments. *Biochemistry*, **1999**, 38, 14738-45	3.2	37
72	Characterization of N-acylation of Go alpha purified from bovine retinas. *NeuroReport*, **1999**, 10, 2999-3002		17
71	Non-visual photoreception by a variety of vertebrate opsins. *Novartis Foundation Symposium*, **1999**, 224, 265-79; discussion 279-82		23
70	Identification of rhodopsin in the pigeon deep brain. *FEBS Letters*, **1998**, 424, 53-6	3.8	69
69	A deep brain photoreceptive molecule in the toad hypothalamus. *FEBS Letters*, **1998**, 424, 69-72	3.8	43
68	Light-dependent expression of pinopsin gene in chicken pineal gland. *Journal of Neurochemistry*, **1998**, 70, 908-13	6	23
67	Specific isoprenyl group linked to transducin gamma-subunit is a determinant of its unique signaling properties among G-proteins. *Biochemistry*, **1998**, 37, 9843-50	3.2	43
66	Presence of two rhodopsin intermediates responsible for transducin activation. *Biochemistry*, **1997**, 36, 14173-80	3.2	49
65	Immunocytochemical identification of pinopsin in pineal glands of chicken and pigeon. *Molecular Brain Research*, **1997**, 50, 190-6		47
64	Phototransduction cascade and circadian oscillator in chicken pineal gland. *Journal of Pineal Research*, **1997**, 22, 145-51	10.4	28
63	Molecular cloning of heterotrimeric G-protein alpha-subunits in chicken pineal gland. *Journal of Molecular Evolution*, **1997**, 44 Suppl 1, S91-7	3.1	11

62	Immunoelectron-microscopic investigation of the subcellular localization of pinopsin in the pineal organ of the chicken. *Cell and Tissue Research*, **1997**, 289, 235-41	4.2	21
61	Preparation and characterization of monoclonal antibodies specific for lauroylated isoform of bovine transducin alpha-subunit: immunohistochemical analysis of bovine retinas. *Journal of Neurochemistry*, **1996**, 66, 2188-96	6	2
60	Calcium-bound recoverin targets rhodopsin kinase to membranes to inhibit rhodopsin phosphorylation. *FEBS Letters*, **1996**, 384, 227-30	3.8	23
59	MEKA/phosducin attenuates hydrophobicity of transducin beta gamma subunits without binding to farnesyl moiety. *Biochemical and Biophysical Research Communications*, **1996**, 223, 587-91	3.4	14
58	Molecular properties of chimerical mutants of gecko blue and bovine rhodopsin. *Biochemistry*, **1996** , 35, 2625-9	3.2	31
57	Primary structure of a gamma subunit of G protein, gamma 12, and its phosphorylation by protein kinase C. *Journal of Biological Chemistry*, **1995**, 270, 29469-75	5.4	67
56	Role of heterogeneous N-terminal acylation of recoverin in rhodopsin phosphorylation. *Journal of Biological Chemistry*, **1995**, 270, 15459-62	5.4	24
55	Purification and low temperature spectroscopy of gecko visual pigments green and blue. *Biochemistry*, **1995**, 34, 1096-106	3.2	20
54	Molecular basis for tetrachromatic color vision. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **1995**, 112, 405-14	2.3	14
53	Prenylation and carboxylmethylation of G-protein gamma subunit. *Methods in Enzymology*, **1995**, 250, 91-105	1.7	19
52	Localization of iodopsin and rod-opsin immunoreactivity in the retina and pineal complex of the river lamprey, Lampetra japonica. *Cell and Tissue Research*, **1994**, 278, 1-10	4.2	30
51	Pinopsin is a chicken pineal photoreceptive molecule. *Nature*, **1994**, 372, 94-7	50.4	296
50	Circular dichroism of metaiodopsin II and its binding to transducin: a comparative study between meta II intermediates of iodopsin and rhodopsin. *Biochemistry*, **1994**, 33, 4940-6	3.2	51
49	Visual pigments in the pineal complex of the Japanese quail, Japanese grass lizard and bullfrog: immunocytochemistry and HPLC analysis. *Tissue and Cell*, **1994**, 26, 101-13	2.7	41
48	What makes red visual pigments red? A resonance Raman microprobe study of retinal chromophore structure in iodopsin. *Biochemistry*, **1994**, 33, 2151-60	3.2	58
47	Is chicken green-sensitive cone visual pigment a rhodopsin-like pigment? A comparative study of the molecular properties between chicken green and rhodopsin. *Biochemistry*, **1994**, 33, 9040-4	3.2	73
46	Immunoreactivities to rhodopsin and rod/cone transducin antisera in the retina, pineal complex and deep brain of the bullfrog, Rana catesbeiana. *Zoological Science*, **1994**, 11, 675-80	0.8	26
45	Characterization of interactions between transducin alpha/beta gamma-subunits and lipid membranes. *Journal of Biological Chemistry*, **1994**, 269, 30358-63	5.4	51

44	Effects of carboxyl methylation of photoreceptor G protein gamma-subunit in visual transduction. *Journal of Biological Chemistry*, **1994**, 269, 5163-70	5.4	72
43	Localization of iodopsin and rod-opsin immunoreactivity in the retina and pineal complex of the river lamprey, Lampetra japonica. *Cell and Tissue Research*, **1994**, 278, 1-10	4.2	2
42	Effects of carboxyl methylation of photoreceptor G protein gamma-subunit in visual transduction.. *Journal of Biological Chemistry*, **1994**, 269, 5163-5170	5.4	86
41	Characterization of interactions between transducin alpha/beta gamma-subunits and lipid membranes.. *Journal of Biological Chemistry*, **1994**, 269, 30358-30363	5.4	46
40	Identification of the alpha-subunits of rod and cone transducin in chicken photoreceptor cells. *Experimental Eye Research*, **1993**, 57, 135-40	3.7	9
39	Nanosecond laser photolysis of iodopsin, a chicken red-sensitive cone visual pigment. *Biochemistry*, **1993**, 32, 10832-8	3.2	33
38	Purification of four forms of the beta gamma subunit complex of G proteins containing different gamma subunits. *Journal of Biological Chemistry*, **1993**, 268, 20512-9	5.4	34
37	Activation by G protein beta gamma subunits of beta-adrenergic and muscarinic receptor kinase. *Journal of Biological Chemistry*, **1993**, 268, 7753-8	5.4	62
36	Activation by G protein beta gamma subunits of beta-adrenergic and muscarinic receptor kinase.. *Journal of Biological Chemistry*, **1993**, 268, 7753-7758	5.4	68
35	Purification of four forms of the beta gamma subunit complex of G proteins containing different gamma subunits.. *Journal of Biological Chemistry*, **1993**, 268, 20512-20519	5.4	32
34	Primary structures of chicken cone visual pigments: vertebrate rhodopsins have evolved out of cone visual pigments. *Proceedings of the National Academy of Sciences of the United States of America*, **1992**, 89, 5932-6	11.5	304
33	Cone visual pigments are present in gecko rod cells. *Proceedings of the National Academy of Sciences of the United States of America*, **1992**, 89, 6841-5	11.5	103
32	Differentiation of both rod and cone types of photoreceptors in the in vivo and in vitro developing pineal glands of the quail. *Developmental Brain Research*, **1992**, 65, 85-92		39
31	Lipid modification at the N terminus of photoreceptor G-protein alpha-subunit. *Nature*, **1992**, 359, 749-52	30.4	233
30	Photosensitivities of iodopsin and rhodopsins. *Photochemistry and Photobiology*, **1992**, 56, 995-1001	3.6	45
29	Photoreceptor cell types in the retina of various vertebrate species: immunocytochemistry with antibodies against rhodopsin and iodopsin. *Photochemistry and Photobiology*, **1992**, 56, 1157-66	3.6	17
28	Identification and isolation of common and tissue-specific geranylgeranylated gamma subunits of guanine-nucleotide-binding regulatory proteins in various tissues. *FEBS Journal*, **1992**, 210, 1061-9		20
27	Structure and function of gamma-subunit of photoreceptor G-protein (transducin). *Comparative Biochemistry and Physiology Part B: Comparative Biochemistry*, **1991**, 100, 433-8		2

26	Carboxyl methylation and farnesylation of transducin gamma-subunit synergistically enhance its coupling with metarhodopsin II.. *EMBO Journal*, **1991**, 10, 3669-3674	13	113
25	Carboxyl methylation and farnesylation of transducin gamma-subunit synergistically enhance its coupling with metarhodopsin II. *EMBO Journal*, **1991**, 10, 3669-74	13	14
24	Farnesylated gamma-subunit of photoreceptor G protein indispensable for GTP-binding. *Nature*, **1990**, 346, 658-60	50.4	450
23	Immunohistochemical localization of iodopsin in the retina of the chicken and Japanese quail. *Cell and Tissue Research*, **1990**, 261, 397-401	4.2	25
22	Functional heterogeneity of beta gamma-subunit of frog transducin. *Comparative Biochemistry and Physiology Part B: Comparative Biochemistry*, **1990**, 95, 763-5		1
21	Bathoiodopsin, a primary intermediate of iodopsin at physiological temperature. *Proceedings of the National Academy of Sciences of the United States of America*, **1990**, 87, 8908-12	11.5	25
20	Effects of chloride on chicken iodopsin and the chromophore transfer reactions from iodopsin to scotopsin and B-photopsin. *Biochemistry*, **1990**, 29, 5843-8	3.2	48
19	Phosphorylation of iodopsin, chicken red-sensitive cone visual pigment. *Biochemistry*, **1990**, 29, 10102-6	3.2	34
18	Comparative study on the chromophore binding sites of rod and red-sensitive cone visual pigments by use of synthetic retinal isomers and analogues. *Biochemistry*, **1990**, 29, 3133-40	3.2	56
17	The primary structure of iodopsin, a chicken red-sensitive cone pigment. *FEBS Letters*, **1990**, 272, 128-32	3.8	55
16	Binding of GTP to transducin is not inhibited by arrestin and phosphorylated rhodopsin. *FEBS Letters*, **1990**, 261, 419-22	3.8	8
15	A specific beta gamma-subunit of transducin stimulates ADP-ribosylation of the alpha-subunit by pertussis toxin. *Biochemical and Biophysical Research Communications*, **1990**, 167, 1235-41	3.4	37
14	Localization of iodopsin in the chick retina during in vivo and in vitro cone differentiation. *Investigative Ophthalmology and Visual Science*, **1990**, 31, 1466-73		12
13	Effect of chloride ion on the thermal decay process of the batho intermediate of iodopsin at low temperature. *Biochemistry*, **1989**, 28, 9412-6	3.2	39
12	Identification of a retina-specific MEKA protein as a 33 K protein. *Biochemical and Biophysical Research Communications*, **1989**, 162, 1063-8	3.4	19
11	Chicken red-sensitive cone visual pigment retains a binding domain for transducin. *FEBS Letters*, **1989**, 246, 69-72	3.8	17
10	Monoclonal antibodies to chicken iodopsin. *Experimental Eye Research*, **1989**, 48, 281-93	3.7	24
9	Purification of cone visual pigments from chicken retina. *Biochemistry*, **1989**, 28, 8848-56	3.2	120

8	Beta gamma-subunit of bovine transducin composed of two components with distinctive gamma-subunits. *Journal of Biological Chemistry*, **1989**, 264, 5937-43	5.4	51
7	Subunit of Bovine Transducin Composed of Two Components with Distinctive Subunits. *Journal of Biological Chemistry*, **1989**, 264, 5937-5943	5.4	54
6	Studies on structure and function of rhodopsin by use of cyclopentatrienylidene 11-cis-locked-rhodopsin. *Biochemistry*, **1984**, 23, 5826-32	3.2	138
5	Activation of phosphodiesterase by rhodopsin and its analogues. *Biophysics of Structure and Mechanism*, **1983**, 9, 245-58		18
4	Activation of phosphodiesterase by chicken iodopsin. *FEBS Letters*, **1982**, 149, 117-22	3.8	11
3	Activation of phosphodiesterase in frog rod outer segment by rhodopsin analogues. *BBA - Proteins and Proteomics*, **1982**, 708, 112-7		9
2	Activation of phosphodiesterase in frog rod outer segment by an intermediate of rhodopsin photolysis I. *Biochimica Et Biophysica Acta - General Subjects*, **1981**, 675, 188-94	4	17
1	Activation of phosphodiesterase in frog rod outer segment by an intermediate of rhodopsin photolysis. II. *Biochimica Et Biophysica Acta - General Subjects*, **1981**, 675, 195-200	4	43