Masaki Fukata

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105 9,821 9.4 5.79 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
99	Rac1 and Cdc42 capture microtubules through IQGAP1 and CLIP-170. <i>Cell</i> , 2002 , 109, 873-85	56.2	487
98	Protein palmitoylation in neuronal development and synaptic plasticity. <i>Nature Reviews Neuroscience</i> , 2010 , 11, 161-75	13.5	409
97	Identification of PSD-95 palmitoylating enzymes. <i>Neuron</i> , 2004 , 44, 987-96	13.9	400
96	Role of IQGAP1, a target of the small GTPases Cdc42 and Rac1, in regulation of E-cadherin-mediated cell-cell adhesion. <i>Science</i> , 1998 , 281, 832-5	33.3	400
95	Roles of Rho-family GTPases in cell polarisation and directional migration. <i>Current Opinion in Cell Biology</i> , 2003 , 15, 590-7	9	392
94	Interaction with IQGAP1 links APC to Rac1, Cdc42, and actin filaments during cell polarization and migration. <i>Developmental Cell</i> , 2004 , 7, 871-83	10.2	381
93	Rho-family GTPases in cadherin-mediated cell-cell adhesion. <i>Nature Reviews Molecular Cell Biology</i> , 2001 , 2, 887-97	48.7	357
92	Epilepsy-related ligand/receptor complex LGI1 and ADAM22 regulate synaptic transmission. <i>Science</i> , 2006 , 313, 1792-5	33.3	292
91	Identification of IQGAP as a putative target for the small GTPases, Cdc42 and Rac1. <i>Journal of Biological Chemistry</i> , 1996 , 271, 23363-7	5.4	254
90	Autoantibodies to epilepsy-related LGI1 in limbic encephalitis neutralize LGI1-ADAM22 interaction and reduce synaptic AMPA receptors. <i>Journal of Neuroscience</i> , 2013 , 33, 18161-74	6.6	237
89	Disruption of LGI1-linked synaptic complex causes abnormal synaptic transmission and epilepsy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 3799-804	11.5	236
88	Dynamic interaction of stargazin-like TARPs with cycling AMPA receptors at synapses. <i>Science</i> , 2004 , 303, 1508-11	33.3	202
87	Differential activity-dependent secretion of brain-derived neurotrophic factor from axon and dendrite. <i>Journal of Neuroscience</i> , 2009 , 29, 14185-98	6.6	195
86	Local palmitoylation cycles define activity-regulated postsynaptic subdomains. <i>Journal of Cell Biology</i> , 2013 , 202, 145-61	7.3	187
85	p140Sra-1 (specifically Rac1-associated protein) is a novel specific target for Rac1 small GTPase. <i>Journal of Biological Chemistry</i> , 1998 , 273, 291-5	5.4	181
84	Cdc42 and Rac1 regulate the interaction of IQGAP1 with beta-catenin. <i>Journal of Biological Chemistry</i> , 1999 , 274, 26044-50	5.4	175
83	Regulation of cadherin-mediated cell-cell adhesion by the Rho family GTPases. <i>Current Opinion in Cell Biology</i> , 1999 , 11, 591-6	9	166

(2008-1997)

82	Regulation of cross-linking of actin filament by IQGAP1, a target for Cdc42. <i>Journal of Biological Chemistry</i> , 1997 , 272, 29579-83	5.4	157
81	Mobile DHHC palmitoylating enzyme mediates activity-sensitive synaptic targeting of PSD-95. Journal of Cell Biology, 2009 , 186, 147-60	7-3	154
80	GODZ-mediated palmitoylation of GABA(A) receptors is required for normal assembly and function of GABAergic inhibitory synapses. <i>Journal of Neuroscience</i> , 2006 , 26, 12758-68	6.6	137
79	Identification of PSD-95 Depalmitoylating Enzymes. <i>Journal of Neuroscience</i> , 2016 , 36, 6431-44	6.6	134
78	Identification of Golgi-localized acyl transferases that palmitoylate and regulate endothelial nitric oxide synthase. <i>Journal of Cell Biology</i> , 2006 , 174, 369-77	7.3	131
77	Alzheimer disease Abeta production in the absence of S-palmitoylation-dependent targeting of BACE1 to lipid rafts. <i>Journal of Biological Chemistry</i> , 2009 , 284, 3793-803	5.4	119
76	Positive role of IQGAP1, an effector of Rac1, in actin-meshwork formation at sites of cell-cell contact. <i>Molecular Biology of the Cell</i> , 2004 , 15, 1065-76	3.5	118
75	IQGAP3, a novel effector of Rac1 and Cdc42, regulates neurite outgrowth. <i>Journal of Cell Science</i> , 2007 , 120, 567-77	5.3	117
74	Neurotransmitter release regulated by a MALS-liprin-alpha presynaptic complex. <i>Journal of Cell Biology</i> , 2005 , 170, 1127-34	7:3	106
73	Identification of G protein alpha subunit-palmitoylating enzyme. <i>Molecular and Cellular Biology</i> , 2009 , 29, 435-47	4.8	100
72	Molecular constituents of neuronal AMPA receptors. <i>Journal of Cell Biology</i> , 2005 , 169, 399-404	7.3	97
71	Impaired activation and localization of LAT in anergic T cells as a consequence of a selective palmitoylation defect. <i>Immunity</i> , 2006 , 24, 513-22	32.3	96
70	Phosphorylation of ERM proteins at filopodia induced by Cdc42. <i>Genes To Cells</i> , 2000 , 5, 571-81	2.3	95
69	Structural basis for tubulin recognition by cytoplasmic linker protein 170 and its autoinhibition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 10346-51	11.5	94
68	Identification of the stef gene that encodes a novel guanine nucleotide exchange factor specific for Rac1. <i>Journal of Biological Chemistry</i> , 1999 , 274, 17837-44	5.4	93
67	Regulation of cell-cell adhesion of MDCK cells by Cdc42 and Rac1 small GTPases. <i>Biochemical and Biophysical Research Communications</i> , 1997 , 240, 430-5	3.4	91
66	Systematic screening for palmitoyl transferase activity of the DHHC protein family in mammalian cells. <i>Methods</i> , 2006 , 40, 177-82	4.6	90
65	Palmitoylation and membrane interactions of the neuroprotective chaperone cysteine-string protein. <i>Journal of Biological Chemistry</i> , 2008 , 283, 25014-26	5.4	89

64	Dynamic protein palmitoylation in cellular signaling. <i>Progress in Lipid Research</i> , 2009 , 48, 117-27	14.3	84
63	Involvement of IQGAP1, an effector of Rac1 and Cdc42 GTPases, in cell-cell dissociation during cell scattering. <i>Molecular and Cellular Biology</i> , 2001 , 21, 2165-83	4.8	81
62	Discovery of protein-palmitoylating enzymes. <i>Pflugers Archiv European Journal of Physiology</i> , 2008 , 456, 1199-206	4.6	74
61	Identification and characterization of GABA(A) receptor autoantibodies in autoimmune encephalitis. <i>Journal of Neuroscience</i> , 2014 , 34, 8151-63	6.6	73
60	LGI2 truncation causes a remitting focal epilepsy in dogs. <i>PLoS Genetics</i> , 2011 , 7, e1002194	6	71
59	Palmitoylation regulates epidermal homeostasis and hair follicle differentiation. <i>PLoS Genetics</i> , 2009 , 5, e1000748	6	70
58	Cell adhesion and Rho small GTPases. <i>Journal of Cell Science</i> , 1999 , 112, 4491-4500	5.3	69
57	2-Bromopalmitate analogues as activity-based probes to explore palmitoyl acyltransferases. Journal of the American Chemical Society, 2013, 135, 7082-5	16.4	68
56	The hydrophobic cysteine-rich domain of SNAP25 couples with downstream residues to mediate membrane interactions and recognition by DHHC palmitoyl transferases. <i>Molecular Biology of the Cell</i> , 2009 , 20, 1845-54	3.5	62
55	Fibroblast growth factor-regulated palmitoylation of the neural cell adhesion molecule determines neuronal morphogenesis. <i>Journal of Neuroscience</i> , 2008 , 28, 8897-907	6.6	61
54	Dynamic Palmitoylation Targets MAP6 to the Axon to Promote Microtubule Stabilization during Neuronal Polarization. <i>Neuron</i> , 2017 , 94, 809-825.e7	13.9	60
53	Cdc42, Rac1, and their effector IQGAP1 as molecular switches for cadherin-mediated cell-cell adhesion. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 262, 1-6	3.4	60
52	Phosphatidylinositol 4-kinase IIIIs palmitoylated by Golgi-localized palmitoyltransferases in cholesterol-dependent manner. <i>Journal of Biological Chemistry</i> , 2012 , 287, 21856-65	5.4	59
51	The LGI1-ADAM22 protein complex directs synapse maturation through regulation of PSD-95 function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E4	129-37	· 55
50	Identification of a novel beta-catenin-interacting protein. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 273, 712-7	3.4	55
49	BAI1 regulates spatial learning and synaptic plasticity in the hippocampus. <i>Journal of Clinical Investigation</i> , 2015 , 125, 1497-508	15.9	51
48	Chemical corrector treatment ameliorates increased seizure susceptibility in a mouse model of familial epilepsy. <i>Nature Medicine</i> , 2015 , 21, 19-26	50.5	48
47	Epilepsy and synaptic proteins. <i>Current Opinion in Neurobiology</i> , 2017 , 45, 1-8	7.6	46

46	Ndel1 palmitoylation: a new mean to regulate cytoplasmic dynein activity. EMBO Journal, 2010, 29, 107	-19	43
45	GM1-ganglioside-induced Abeta assembly on synaptic membranes of cultured neurons. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007 , 1768, 1128-37	3.8	40
44	Renal defects associated with improper polarization of the CRB and DLG polarity complexes in MALS-3 knockout mice. <i>Journal of Cell Biology</i> , 2007 , 179, 151-64	7.3	38
43	Local Palmitoylation Cycles and Specialized Membrane Domain Organization. <i>Current Topics in Membranes</i> , 2016 , 77, 97-141	2.2	37
42	Secreted Metalloproteinase ADAMTS-3 Inactivates Reelin. <i>Journal of Neuroscience</i> , 2017 , 37, 3181-3191	6.6	36
41	ABHD10 is an S-depalmitoylase affecting redox homeostasis through peroxiredoxin-5. <i>Nature Chemical Biology</i> , 2019 , 15, 1232-1240	11.7	36
40	ELMOD2 is anchored to lipid droplets by palmitoylation and regulates adipocyte triglyceride lipase recruitment. <i>Molecular Biology of the Cell</i> , 2015 , 26, 2333-42	3.5	34
39	Human Cerebrospinal Fluid Monoclonal LGI1 Autoantibodies Increase Neuronal Excitability. <i>Annals of Neurology</i> , 2020 , 87, 405-418	9.4	32
38	In silico screening for palmitoyl substrates reveals a role for DHHC1/3/10 (zDHHC1/3/11)-mediated neurochondrin palmitoylation in its targeting to Rab5-positive endosomes. <i>Journal of Biological Chemistry</i> , 2013 , 288, 19816-29	5.4	31
37	Dysfunctional ADAM22 implicated in progressive encephalopathy with cortical atrophy and epilepsy. <i>Neurology: Genetics</i> , 2016 , 2, e46	3.8	28
36	Structural basis of epilepsy-related ligand-receptor complex LGI1-ADAM22. <i>Nature Communications</i> , 2018 , 9, 1546	17.4	27
35	Synaptic plasticity regulated by protein-protein interactions and posttranslational modifications. <i>International Review of Cell and Molecular Biology</i> , 2012 , 297, 1-43	6	25
34	Subcellular Golgi localization of stathmin family proteins is promoted by a specific set of DHHC palmitoyl transferases. <i>Molecular Biology of the Cell</i> , 2011 , 22, 1930-42	3.5	25
33	Functional phylogenetic analysis of LGI proteins identifies an interaction motif crucial for myelination. <i>Development (Cambridge)</i> , 2014 , 141, 1749-56	6.6	24
32	The LGI1-ADAM22 protein complex in synaptic transmission and synaptic disorders. <i>Neuroscience Research</i> , 2017 , 116, 39-45	2.9	23
31	Neurobiology of autoimmune encephalitis. <i>Current Opinion in Neurobiology</i> , 2018 , 48, 1-8	7.6	22
30	Neuronal major histocompatibility complex class I molecules are implicated in the generation of asymmetries in hippocampal circuitry. <i>Journal of Physiology</i> , 2013 , 591, 4777-91	3.9	20
29	LGI1-ADAM22-MAGUK configures transsynaptic nanoalignment for synaptic transmission and epilepsy prevention. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	16

28	Forelimb movements evoked by optogenetic stimulation of the macaque motor cortex. <i>Nature Communications</i> , 2020 , 11, 3253	17.4	14
27	Astrocyte-mediated infantile-onset leukoencephalopathy mouse model. <i>Glia</i> , 2017 , 65, 150-168	9	14
26	Targeting CCR5 trafficking to inhibit HIV-1 infection. Science Advances, 2019, 5, eaax0821	14.3	13
25	Dynamic palmitoylation controls the microdomain localization of the DKK1 receptors CKAP4 and LRP6. <i>Science Signaling</i> , 2019 , 12,	8.8	13
24	Leucine-rich glioma inactivated 1 (Lgi1), an epilepsy-related secreted protein, has a nuclear localization signal and localizes to both the cytoplasm and the nucleus of the caudal ganglionic eminence neurons. <i>European Journal of Neuroscience</i> , 2012 , 36, 2284-92	3.5	11
23	Effects of Rho family GTPases on cell-cell adhesion. <i>Methods in Molecular Biology</i> , 2002 , 189, 121-8	1.4	10
22	The extracellular domain of angulin-1 and palmitoylation of its cytoplasmic region are required for angulin-1 assembly at tricellular contacts. <i>Journal of Biological Chemistry</i> , 2020 , 295, 4289-4302	5.4	8
21	Systematic Screening of Depalmitoylating Enzymes and Evaluation of Their Activities by the Acyl-PEGyl Exchange Gel-Shift (APEGS) Assay. <i>Methods in Molecular Biology</i> , 2019 , 2009, 83-98	1.4	7
20	Postsynaptic nanodomains generated by local palmitoylation cycles. <i>Biochemical Society Transactions</i> , 2015 , 43, 199-204	5.1	7
19	Non-microtubular localizations of microtubule-associated protein 6 (MAP6). <i>PLoS ONE</i> , 2014 , 9, e11490.	53.7	7
18	Deleted in colorectal cancer (netrin-1 receptor) antibodies and limbic encephalitis in a cat with hippocampal necrosis. <i>Journal of Veterinary Internal Medicine</i> , 2019 , 33, 1440-1445	3.1	6
17	Protein Palmitoylation by DHHC Protein Family. Frontiers in Neuroscience, 2006, 83-89		6
16	Long-term clinical follow-up of a patient with non-paraneoplastic cerebellar ataxia associated with anti-mGluR1 autoantibodies. <i>Journal of Neuroimmunology</i> , 2018 , 319, 63-67	3.5	5
15	Coupling of a voltage-gated Ca channel homologue with a plasma membrane H -ATPase in yeast. <i>Genes To Cells</i> , 2017 , 22, 94-104	2.3	4
14	Canonical versus non-canonical transsynaptic signaling of neuroligin 3 tunes development of sociality in mice. <i>Nature Communications</i> , 2021 , 12, 1848	17.4	4
13	Encephalitis patient derived monoclonal GABAA receptor antibodies cause catatonia and epileptic seizu	ıres	4
12	Trans-synaptic LGI1-ADAM22-MAGUK in AMPA and NMDA receptor regulation. <i>Neuropharmacology</i> , 2021 , 194, 108628	5.5	3
11	Encephalitis patient-derived monoclonal GABAA receptor antibodies cause epileptic seizures. Journal of Experimental Medicine, 2021 , 218,	16.6	3

LIST OF PUBLICATIONS

10	In situ screening for postsynaptic cell adhesion molecules during synapse formation. <i>Journal of Biochemistry</i> , 2017 , 162, 295-302	3.1	2
9	A genetically encoded red fluorescence dopamine biosensor enables dual imaging of dopamine and no	orepine	phrine
8	MAGUKs are essential, but redundant, in long-term potentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	1
7	A novel red fluorescence dopamine biosensor selectively detects dopamine in the presence of norepinephrine in vitro. <i>Molecular Brain</i> , 2021 , 14, 173	4.5	1
6	Palmitoylation of the small GTPase Cdc42 by DHHC5 modulates spine formation and gene transcription. <i>Journal of Biological Chemistry</i> , 2022 , 102048	5.4	1
5	14-3-3 proteins stabilize LGI1-ADAM22 levels to regulate seizure thresholds in mice <i>Cell Reports</i> , 2021 , 37, 110107	10.6	O
4	2P021 Structural and functional studies of CLIP-170(Proteins-structure and structure-function relationship,Poster Presentations). <i>Seibutsu Butsuri</i> , 2007 , 47, S118	O	
3	Functional phylogenetic analysis of LGI proteins identifies an interaction motif crucial for myelination. <i>Journal of Cell Science</i> , 2014 , 127, e1-e1	5.3	
2	Local palmitoylation cycles define activity-regulated postsynaptic subdomains. <i>Journal of General Physiology</i> , 2013 , 142, 1422OIA19	3.4	
1	Acyl-PEGyl exchange gel-shift (APEGS) assay for palmitoylation quantification 2021, 65, 41-45		