

Masaki Fukata

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/96216/masaki-fukata-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

99
papers

8,799
citations

51
h-index

93
g-index

105
ext. papers

9,821
ext. citations

9.4
avg. IF

5.79
L-index

#	Paper	IF	Citations
99	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
98	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
97	Acyl-PEGyl exchange gel-shift (APEGS) assay for palmitoylation quantification 2021 , 65, 41-45		
96	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
95	Trans-synaptic LGI1-ADAM22-MAGUK in AMPA and NMDA receptor regulation. <i>Neuropharmacology</i> , 2021 , 194, 108628	5.5	3
94	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
93	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
92	14-3-3 proteins stabilize LGI1-ADAM22 levels to regulate seizure thresholds in mice.. <i>Cell Reports</i> , 2021 , 37, 110107	10.6	0
91	Encephalitis patient-derived monoclonal GABAA receptor antibodies cause epileptic seizures. <i>Journal of Experimental Medicine</i> , 2021 , 218,	16.6	3
90	Forelimb movements evoked by optogenetic stimulation of the macaque motor cortex. <i>Nature Communications</i> , 2020 , 11, 3253	17.4	14
89	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
88	Human Cerebrospinal Fluid Monoclonal LGI1 Autoantibodies Increase Neuronal Excitability. <i>Annals of Neurology</i> , 2020 , 87, 405-418	9.4	32
87	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
86	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
85	Targeting CCR5 trafficking to inhibit HIV-1 infection. <i>Science Advances</i> , 2019 , 5, eaax0821	14.3	13
84	Dynamic palmitoylation controls the microdomain localization of the DKK1 receptors CKAP4 and LRP6. <i>Science Signaling</i> , 2019 , 12,	8.8	13
83	ABHD10 is an S-depalmitoylase affecting redox homeostasis through peroxiredoxin-5. <i>Nature Chemical Biology</i> , 2019 , 15, 1232-1240	11.7	36

82	Structural basis of epilepsy-related ligand-receptor complex LGI1-ADAM22. <i>Nature Communications</i> , 2018 , 9, 1546	17.4	27
81	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
80	Neurobiology of autoimmune encephalitis. <i>Current Opinion in Neurobiology</i> , 2018 , 48, 1-8	7.6	22
79	Epilepsy and synaptic proteins. <i>Current Opinion in Neurobiology</i> , 2017 , 45, 1-8	7.6	46
78	Secreted Metalloproteinase ADAMTS-3 Inactivates Reelin. <i>Journal of Neuroscience</i> , 2017 , 37, 3181-3191	6.6	36
77	In situ screening for postsynaptic cell adhesion molecules during synapse formation. <i>Journal of Biochemistry</i> , 2017 , 162, 295-302	3.1	2
76	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
75	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
74	Astrocyte-mediated infantile-onset leukoencephalopathy mouse model. <i>Glia</i> , 2017 , 65, 150-168	9	14
73	The LGI1-ADAM22 protein complex in synaptic transmission and synaptic disorders. <i>Neuroscience Research</i> , 2017 , 116, 39-45	2.9	23
72	Local Palmitoylation Cycles and Specialized Membrane Domain Organization. <i>Current Topics in Membranes</i> , 2016 , 77, 97-141	2.2	37
71	Identification of PSD-95 Depalmitoylating Enzymes. <i>Journal of Neuroscience</i> , 2016 , 36, 6431-44	6.6	134
70	Dysfunctional ADAM22 implicated in progressive encephalopathy with cortical atrophy and epilepsy. <i>Neurology: Genetics</i> , 2016 , 2, e46	3.8	28
69	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, E4129-37	11.5	55
68	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
67	BAI1 regulates spatial learning and synaptic plasticity in the hippocampus. <i>Journal of Clinical Investigation</i> , 2015 , 125, 1497-508	15.9	51
66	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
65	Postsynaptic nanodomains generated by local palmitoylation cycles. <i>Biochemical Society Transactions</i> , 2015 , 43, 199-204	5.1	7

64	Identification and characterization of GABA(A) receptor autoantibodies in autoimmune encephalitis. <i>Journal of Neuroscience</i> , 2014 , 34, 8151-63	6.6	73
63	Non-microtubular localizations of microtubule-associated protein 6 (MAP6). <i>PLoS ONE</i> , 2014 , 9, e114905	3.7	7
62	Functional phylogenetic analysis of LGI proteins identifies an interaction motif crucial for myelination. <i>Development (Cambridge)</i> , 2014 , 141, 1749-56	6.6	24
61	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	
60	Local palmitoylation cycles define activity-regulated postsynaptic subdomains. <i>Journal of Cell Biology</i> , 2013 , 202, 145-61	7.3	187
59	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
58	2-Bromopalmitate analogues as activity-based probes to explore palmitoyl acyltransferases. <i>Journal of the American Chemical Society</i> , 2013 , 135, 7082-5	16.4	68
57	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
56	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
55	Local palmitoylation cycles define activity-regulated postsynaptic subdomains. <i>Journal of General Physiology</i> , 2013 , 142, 1422OIA19	3.4	
54	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
53	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
52	Phosphatidylinositol 4-kinase III α is palmitoylated by Golgi-localized palmitoyltransferases in cholesterol-dependent manner. <i>Journal of Biological Chemistry</i> , 2012 , 287, 21856-65	5.4	59
51	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
50	LGI2 truncation causes a remitting focal epilepsy in dogs. <i>PLoS Genetics</i> , 2011 , 7, e1002194	6	71
49	Protein palmitoylation in neuronal development and synaptic plasticity. <i>Nature Reviews Neuroscience</i> , 2010 , 11, 161-75	13.5	409
48	Ndel1 palmitoylation: a new mean to regulate cytoplasmic dynein activity. <i>EMBO Journal</i> , 2010 , 29, 107-19		43
47	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

46	Palmitoylation regulates epidermal homeostasis and hair follicle differentiation. <i>PLoS Genetics</i> , 2009 , 5, e1000748	6	70
45	Identification of G protein alpha subunit-palmitoylating enzyme. <i>Molecular and Cellular Biology</i> , 2009 , 29, 435-47	4.8	100
44	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
43	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
42	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
41	Mobile DHHC palmitoylating enzyme mediates activity-sensitive synaptic targeting of PSD-95. <i>Journal of Cell Biology</i> , 2009 , 186, 147-60	7.3	154
40	Dynamic protein palmitoylation in cellular signaling. <i>Progress in Lipid Research</i> , 2009 , 48, 117-27	14.3	84
39	Palmitoylation and membrane interactions of the neuroprotective chaperone cysteine-string protein. <i>Journal of Biological Chemistry</i> , 2008 , 283, 25014-26	5.4	89
38	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
37	Discovery of protein-palmitoylating enzymes. <i>Pflügers Archiv European Journal of Physiology</i> , 2008 , 456, 1199-206	4.6	74
36	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
35	IQGAP3, a novel effector of Rac1 and Cdc42, regulates neurite outgrowth. <i>Journal of Cell Science</i> , 2007 , 120, 567-77	5.3	117
34	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
33	2P021 Structural and functional studies of CLIP-170(Proteins-structure and structure-function relationship,Poster Presentations). <i>Seibutsu Butsuri</i> , 2007 , 47, S118	0	
32	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
31	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
30	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
29	Epilepsy-related ligand/receptor complex LGI1 and ADAM22 regulate synaptic transmission. <i>Science</i> , 2006 , 313, 1792-5	33.3	292

28	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
27	Systematic screening for palmitoyl transferase activity of the DHHC protein family in mammalian cells. <i>Methods</i> , 2006 , 40, 177-82	4.6	90
26	Protein Palmitoylation by DHHC Protein Family. <i>Frontiers in Neuroscience</i> , 2006 , 83-89		6
25	Molecular constituents of neuronal AMPA receptors. <i>Journal of Cell Biology</i> , 2005 , 169, 399-404	7.3	97
24	Neurotransmitter release regulated by a MALS-liprin-alpha presynaptic complex. <i>Journal of Cell Biology</i> , 2005 , 170, 1127-34	7.3	106
23	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
22	Dynamic interaction of stargazin-like TARPs with cycling AMPA receptors at synapses. <i>Science</i> , 2004 , 303, 1508-11	33.3	202
21	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
20	Identification of PSD-95 palmitoylating enzymes. <i>Neuron</i> , 2004 , 44, 987-96	13.9	400
19	Roles of Rho-family GTPases in cell polarisation and directional migration. <i>Current Opinion in Cell Biology</i> , 2003 , 15, 590-7	9	392
18	Effects of Rho family GTPases on cell-cell adhesion. <i>Methods in Molecular Biology</i> , 2002 , 189, 121-8	1.4	10
17	Rac1 and Cdc42 capture microtubules through IQGAP1 and CLIP-170. <i>Cell</i> , 2002 , 109, 873-85	56.2	487
16	Rho-family GTPases in cadherin-mediated cell-cell adhesion. <i>Nature Reviews Molecular Cell Biology</i> , 2001 , 2, 887-97	48.7	357
15	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
14	Phosphorylation of ERM proteins at filopodia induced by Cdc42. <i>Genes To Cells</i> , 2000 , 5, 571-81	2.3	95
13	Identification of a novel beta-catenin-interacting protein. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 273, 712-7	3.4	55
12	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
11	Cdc42 and Rac1 regulate the interaction of IQGAP1 with beta-catenin. <i>Journal of Biological Chemistry</i> , 1999 , 274, 26044-50	5.4	175

10	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
9	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
8	Cell adhesion and Rho small GTPases. <i>Journal of Cell Science</i> , 1999 , 112, 4491-4500	5-3	69
7	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
6	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
5	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
4	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
3	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
2	A genetically encoded red fluorescence dopamine biosensor enables dual imaging of dopamine and norepinephrine		
1	Encephalitis patient derived monoclonal GABAA receptor antibodies cause catatonia and epileptic seizures		4