Yuko Fukata

List of Publications by Year
in descending order

94 papers	13,571 citations	36303 51 h-index	45317 90 g-index
98 all docs	98 docs citations	98 times ranked	12526 citing authors

#	Article	IF	Citations
1	Phosphorylation and Activation of Myosin by Rho-associated Kinase (Rho-kinase). Journal of Biological Chemistry, 1996, 271, 20246-20249.	3.4	1,767
2	Formation of Actin Stress Fibers and Focal Adhesions Enhanced by Rho-Kinase. Science, 1997, 275, 1308-1311.	12.6	999
3	Rhoâ€“Rho-kinase pathway in smooth muscle contraction and cytoskeletal reorganization of non-muscle cells. Trends in Pharmacological Sciences, 2001, 22, 32-39.	8.7	693
4	CRMP-2 binds to tubulin heterodimers to promote microtubule assembly. Nature Cell Biology, 2002, 4, 583-591.	10.3	687
5	Protein palmitoylation in neuronal development and synaptic plasticity. Nature Reviews Neuroscience, 2010, 11, 161-175.	10.2	532
6	Phosphorylation of Myosin-Binding Subunit (Mbs) of Myosin Phosphatase by Rho-Kinase in Vivo. Journal of Cell Biology, 1999, 147, 1023-1038.	5.2	520
7	Identification of PSD-95 Palmitoylating Enzymes. Neuron, 2004, 44, 987-996.	8.1	483
8	Regulation and Functions of Rho-Associated Kinase. Experimental Cell Research, 2000, 261, 44-51.	2.6	466
9	Epilepsy-Related Ligand/Receptor Complex LGI1 and ADAM22 Regulate Synaptic Transmission. Science, 2006, 313, 1792-1795.	12.6	352
10	Autoantibodies to Epilepsy-Related LGI1 in Limbic Encephalitis Neutralize LGI1-ADAM22 Interaction and Reduce Synaptic AMPA Receptors. Journal of Neuroscience, 2013, 33, 18161-18174.	3.6	288
11	Disruption of LGI1â€“linked synaptic complex causes abnormal synaptic transmission and epilepsy. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 3799-3804.	7.1	287
12	Phosphorylation of Adducin by Rho-Kinase Plays a Crucial Role in Cell Motility. Journal of Cell Biology, 1999, 145, 347-361.	5.2	278
13	Inhibition of Myosin Phosphatase by Upregulated Rho-Kinase Plays a Key Role for Coronary Artery Spasm in a Porcine Model With Interleukin-1Î². Circulation, 2000, 101, 1319-1323.	1.6	257
14	Role of the PAR-3â€“KIF3 complex in the establishment of neuronal polarity. Nature Cell Biology, 2004, 6, 328-334.	10.3	255
15	Local palmitoylation cycles define activity-regulated postsynaptic subdomains. Journal of Cell Biology, 2013, 202, 145-161.	5.2	239
16	Myosin II activation promotes neurite retraction during the action of Rho and Rhoâ€kinase. Genes To Cells, 1998, 3, 177-188.	1.2	236
17	Phosphorylation by Rho Kinase Regulates CRMP-2 Activity in Growth Cones. Molecular and Cellular Biology, 2005, 25, 9973-9984.	2.3	234
18	CRMP-2 regulates polarized Numb-mediated endocytosis for axon growth. Nature Cell Biology, 2003, 5, 819-826.	10.3	227

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19	Differential Activity-Dependent Secretion of Brain-Derived Neurotrophic Factor from Axon and Dendrite. Journal of Neuroscience, 2009, 29, 14185-14198.	3.6	226
20	Phosphorylation of Moesin by Rho-associated Kinase (Rho-kinase) Plays a Crucial Role in the Formation of Microvilli-like Structures. Journal of Biological Chemistry, 1998, 273, 34663-34666.	3.4	208
21	Association of the Myosin-binding Subunit of Myosin Phosphatase and Moesin: Dual Regulation of Moesin Phosphorylation by Rho-associated Kinase and Myosin Phosphatase. Journal of Cell Biology, 1998, 141, 409-418.	5.2	197
22	Mobile DHHC palmitoylating enzyme mediates activity-sensitive synaptic targeting of PSD-95. Journal of Cell Biology, 2009, 186, 147-160.	5.2	194
23	PIP₃ is involved in neuronal polarization and axon formation. Journal of Neurochemistry, 2004, 89, 109-118.	3.9	193
24	Identification of PSD-95 Depalmitoylating Enzymes. Journal of Neuroscience, 2016, 36, 6431-6444.	3.6	189
25	Regulation of the Association of Adducin with Actin Filaments by Rho-associated Kinase (Rho-kinase) and Myosin Phosphatase. Journal of Biological Chemistry, 1998, 273, 5542-5548.	3.4	186
26	Role of CRMP-2 in neuronal polarity. Journal of Neurobiology, 2004, 58, 34-47.	3.6	168
27	GODZ-Mediated Palmitoylation of GABAA Receptors Is Required for Normal Assembly and Function of GABAergic Inhibitory Synapses. Journal of Neuroscience, 2006, 26, 12758-12768.	3.6	148
28	Identification of Golgi-localized acyl transferases that palmitoylate and regulate endothelial nitric oxide synthase. Journal of Cell Biology, 2006, 174, 369-377.	5.2	146
29	Identification of G Protein Î± Subunit-Palmitoylating Enzyme. Molecular and Cellular Biology, 2009, 29, 435-447.	2.3	127
30	Positive Role of IQGAP1, an Effector of Rac1, in Actin-Meshwork Formation at Sites of Cell-Cell Contact. Molecular Biology of the Cell, 2004, 15, 1065-1076.	2.1	122
31	Palmitoylation and Membrane Interactions of the Neuroprotective Chaperone Cysteine-string Protein. Journal of Biological Chemistry, 2008, 283, 25014-25026.	3.4	110
32	Phosphorylation of ERM proteins at filopodia induced by Cdc42. Genes To Cells, 2000, 5, 571-581.	1.2	108
33	Systematic screening for palmitoyl transferase activity of the DHHC protein family in mammalian cells. Methods, 2006, 40, 177-182.	3.8	108
34	Identification and Characterization of GABAA Receptor Autoantibodies in Autoimmune Encephalitis. Journal of Neuroscience, 2014, 34, 8151-8163.	3.6	108
35	Molecular constituents of neuronal AMPA receptors. Journal of Cell Biology, 2005, 169, 399-404.	5.2	105
36	Dynamic protein palmitoylation in cellular signaling. Progress in Lipid Research, 2009, 48, 117-127.	11.6	95

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37	Identification of Tau and MAP2 as novel substrates of Rho-kinase and myosin phosphatase. Journal of Neurochemistry, 2003, 87, 780-790.	3.9	91
38	Axon specification in hippocampal neurons. Neuroscience Research, 2002, 43, 305-315.	1.9	88
39	LGI2 Truncation Causes a Remitting Focal Epilepsy in Dogs. PLoS Genetics, 2011, 7, e1002194.	3.5	88
40	Discovery of protein-palmitoylating enzymes. Pflugers Archiv European Journal of Physiology, 2008, 456, 1199-1206.	2.8	84
41	Palmitoylation Regulates Epidermal Homeostasis and Hair Follicle Differentiation. PLoS Genetics, 2009, 5, e1000748.	3.5	81
42	The LGI1â€“ADAM22 protein complex directs synapse maturation through regulation of PSD-95 function. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4129-37.	7.1	80
43	Phosphatidylinositol 4-Kinase IIÎ± Is Palmitoylated by Golgi-localized Palmitoyltransferases in Cholesterol-dependent Manner. Journal of Biological Chemistry, 2012, 287, 21856-21865.	3.4	77
44	The Hydrophobic Cysteine-rich Domain of SNAP25 Couples with Downstream Residues to Mediate Membrane Interactions and Recognition by DHHC Palmitoyl Transferases. Molecular Biology of the Cell, 2009, 20, 1845-1854.	2.1	75
45	ABHD10 is an S-depalmitoylase affecting redox homeostasis through peroxiredoxin-5. Nature Chemical Biology, 2019, 15, 1232-1240.	8.0	72
46	Human Cerebrospinal Fluid Monoclonal LGI1 Autoantibodies Increase Neuronal Excitability. Annals of Neurology, 2020, 87, 405-418.	5.3	72
47	Epilepsy and synaptic proteins. Current Opinion in Neurobiology, 2017, 45, 1-8.	4.2	68
48	Elongation Factor-1Î± Is a Novel Substrate of Rho-Associated Kinase. Biochemical and Biophysical Research Communications, 2000, 278, 72-78.	2.1	64
49	Fibroblast Growth Factor-Regulated Palmitoylation of the Neural Cell Adhesion Molecule Determines Neuronal Morphogenesis. Journal of Neuroscience, 2008, 28, 8897-8907.	3.6	63
50	Chemical corrector treatment ameliorates increased seizure susceptibility in a mouse model of familial epilepsy. Nature Medicine, 2015, 21, 19-26.	30.7	63
51	Stargazin interacts functionally with the AMPA receptor glutamate-binding module. Neuropharmacology, 2007, 52, 87-91.	4.1	61
52	Structural basis of epilepsy-related ligandâ€“receptor complex LGI1â€“ADAM22. Nature Communications, 2018, 9, 1546.	12.8	54
53	Local Palmitoylation Cycles andÂSpecialized Membrane Domain Organization. Current Topics in Membranes, 2016, 77, 97-141.	0.9	52
54	GM1-ganglioside-induced AÎ² assembly on synaptic membranes of cultured neurons. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 1128-1137.	2.6	51

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55	Ndel1 palmitoylation: a new mean to regulate cytoplasmic dynein activity. EMBO Journal, 2010, 29, 107-119.	7.8	49
56	LGI1â€“ADAM22â€“MAGUK configures transsynaptic nanoalignment for synaptic transmission and epilepsy prevention. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	49
57	Forelimb movements evoked by optogenetic stimulation of the macaque motor cortex. Nature Communications, 2020, 11, 3253.	12.8	36
58	Synaptic Plasticity Regulated by Proteinâ€“Protein Interactions and Posttranslational Modifications. International Review of Cell and Molecular Biology, 2012, 297, 1-43.	3.2	35
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. Journal of Biological Chemistry, 2013, 288, 19816-19829.	3.4	35
60	The LGI1â€“ADAM22 protein complex in synaptic transmission and synaptic disorders. Neuroscience Research, 2017, 116, 39-45.	1.9	34
61	Dysfunctional ADAM22 implicated in progressive encephalopathy with cortical atrophy and epilepsy. Neurology: Genetics, 2016, 2, e46.	1.9	33
62	Ivermectin activates GIRK channels in a PIP₂â€dependent, G_{Î²Î³}â€independent manner and an amino acid residue at the slide helix governs the activation. Journal of Physiology, 2017, 595, 5895-5912.	2.9	33
63	Activation of moesin and adducin by Rho-kinase downstream of Rho. Biophysical Chemistry, 1999, 82, 139-147.	2.8	30
64	Functional phylogenetic analysis of LGI proteins identifies an interaction motif crucial for myelination. Development (Cambridge), 2014, 141, 1749-1756.	2.5	30
65	Neurobiology of autoimmune encephalitis. Current Opinion in Neurobiology, 2018, 48, 1-8.	4.2	30
66	Subcellular Golgi localization of stathmin family proteins is promoted by a specific set of DHHC palmitoyl transferases. Molecular Biology of the Cell, 2011, 22, 1930-1942.	2.1	29
67	Targeting CCR5 trafficking to inhibit HIV-1 infection. Science Advances, 2019, 5, eaax0821.	10.3	26
68	Dynamic palmitoylation controls the microdomain localization of the DKK1 receptors CKAP4 and LRP6. Science Signaling, 2019, 12, .	3.6	26
69	Neuronal major histocompatibility complex class I molecules are implicated in the generation of asymmetries in hippocampal circuitry. Journal of Physiology, 2013, 591, 4777-4791.	2.9	23
70	Trans-synaptic LGI1â€“ADAM22â€“MAGUK in AMPA and NMDA receptor regulation. Neuropharmacology, 2021, 194, 108628.	4.1	20
71	Canonical versus non-canonical transsynaptic signaling of neuroligin 3 tunes development of sociality in mice. Nature Communications, 2021, 12, 1848.	12.8	19
72	Encephalitis patient-derived monoclonal GABAA receptor antibodies cause epileptic seizures. Journal of Experimental Medicine, 2021, 218, .	8.5	19

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73	Purification and in vitro activity of Rho-associated kinase. Methods in Enzymology, 2000, 325, 149-155.	1.0	16
74	Translocation of Na+,K+-ATPase is induced by Rho small GTPase in renal epithelial cells. Biochemical and Biophysical Research Communications, 2002, 297, 1231-1237.	2.1	16
75	The extracellular domain of angulin-1 and palmitoylation of its cytoplasmic region are required for angulin-1 assembly at tricellular contacts. Journal of Biological Chemistry, 2020, 295, 4289-4302.	3.4	16
76	Systematic Screening of Depalmitoylating Enzymes and Evaluation of Their Activities by the Acyl-PEGyl Exchange Gel-Shift (APEGS) Assay. Methods in Molecular Biology, 2019, 2009, 83-98.	0.9	15
77	A novel red fluorescence dopamine biosensor selectively detects dopamine in the presence of norepinephrine in vitro. Molecular Brain, 2021, 14, 173.	2.6	15
78	Long-term clinical follow-up of a patient with non-paraneoplastic cerebellar ataxia associated with anti-mGluR1 autoantibodies. Journal of Neuroimmunology, 2018, 319, 63-67.	2.3	13
79	Leucineâ€rich glioma inactivated 1 (Lgi1), an epilepsyâ€related secreted protein, has a nuclear localization signal and localizes to both the cytoplasm and the nucleus of the caudal ganglionic eminence neurons. European Journal of Neuroscience, 2012, 36, 2284-2292.	2.6	12
80	Non-Microtubular Localizations of Microtubule-Associated Protein 6 (MAP6). PLoS ONE, 2014, 9, e114905.	2.5	10
81	Protein Palmitoylation by DHHC Protein Family. Frontiers in Neuroscience, 2006, , 83-89.	0.0	10
82	14-3-3 proteins stabilize LGI1-ADAM22 levels to regulate seizure thresholds in mice. Cell Reports, 2021, 37, 110107.	6.4	10
83	Regulation of Cytoskeleton and Cell Adhesions by the Small GTPase Rho and Its Targets. Trends in Cardiovascular Medicine, 1998, 8, 162-168.	4.9	9
84	Postsynaptic nanodomains generated by local palmitoylation cycles. Biochemical Society Transactions, 2015, 43, 199-204.	3.4	9
85	Deleted in colorectal cancer (netrinâ€1 receptor) antibodies and limbic encephalitis in a cat with hippocampal necrosis. Journal of Veterinary Internal Medicine, 2019, 33, 1440-1445.	1.6	9
86	MAGUKs are essential, but redundant, in long-term potentiation. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	8
87	Biallelic ADAM22 pathogenic variants cause progressive encephalopathy and infantile-onset refractory epilepsy. Brain, 2022, 145, 2301-2312.	7.6	8
88	Coupling of a voltageâ€gated Ca²⁺ channel homologue with a plasma membrane H⁺â€ATPase in yeast. Genes To Cells, 2017, 22, 94-104.	1.2	5
89	In situ screening for postsynaptic cell adhesion molecules during synapse formation. Journal of Biochemistry, 2017, 162, 295-302.	1.7	2
90	CRMP-2 binds to tubulin heterodimers to promote microtubule assembly. , 0, .		1

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91	Insight into the function of a unique voltage-sensor protein (TMEM266) and its short form in mouse cerebellum. Biochemical Journal, 2022, , .	3.7	1
92	Acyl-PEGyl exchange gel-shift (APEGS) assay for palmitoylation quantification. Denki Eido, 2021, 65, 41-45.	0.0	0
93	Functional phylogenetic analysis of LGI proteins identifies an interaction motif crucial for myelination. Journal of Cell Science, 2014, 127, e1-e1.	2.0	0
94	DHHC Proteins. , 2018, , 1367-1372.		0