Hironori Katoh

List of Publications by Year
in descending order

58	4,094	136740	149479
papers	citations	32 h-index	56 g-index

59	59	59	4266
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Interaction of Arginine-Rich Peptides with Membrane-Associated Proteoglycans Is Crucial for Induction of Actin Organization and Macropinocytosisâ€. Biochemistry, 2007, 46, 492-501.	1.2	364
2	The Semaphorin 4D Receptor Plexin-B1 Is a GTPase Activating Protein for R-Ras. Science, 2004, 305, 862-865.	6.0	347
3	RhoG activates Rac1 by direct interaction with the Dock180-binding protein Elmo. Nature, 2003, 424, 461-464.	13.7	312
4	Immunohistochemical localization of prostaglandin EP3 receptor in the rat nervous system. , 2000, 421, 543-569.		179
5	p160 RhoA-binding Kinase ROKÎ± Induces Neurite Retraction. Journal of Biological Chemistry, 1998, 273, 2489-2492.	1.6	161
6	Rac-GAP Î±-Chimerin Regulates Motor-Circuit Formation as a Key Mediator of EphrinB3/EphA4 Forward Signaling. Cell, 2007, 130, 742-753.	13.5	161
7	Activation of Rac1 by RhoG regulates cell migration. Journal of Cell Science, 2006, 119, 56-65.	1.2	155
8	Small GTPase RhoG Is a Key Regulator for Neurite Outgrowth in PC12 Cells. Molecular and Cellular Biology, 2000, 20, 7378-7387.	1.1	129
9	Sema4D/plexinâ€B1 activates GSKâ€3Î² through Râ€Ras GAP activity, inducing growth cone collapse. EMBO Reports, 2006, 7, 704-709.	2.0	127
10	Ephexin4 and EphA2 mediate cell migration through a RhoG-dependent mechanism. Journal of Cell Biology, 2010, 190, 461-477.	2.3	121
11	Molecular Dissection of the Semaphorin 4D Receptor Plexin-B1-Stimulated R-Ras GTPase-Activating Protein Activity and Neurite Remodeling in Hippocampal Neurons. Journal of Neuroscience, 2004, 24, 11473-11480.	1.7	113
12	Rho Family GTPases as Key Regulators for Neuronal Network Formation. Journal of Biochemistry, 2002, 132, 157-166.	0.9	108
13	Direct Interaction of Rnd1 with Plexin-B1 Regulates PDZ-RhoGEF-mediated Rho Activation by Plexin-B1 and Induces Cell Contraction in COS-7 Cells. Journal of Biological Chemistry, 2003, 278, 25671-25677.	1.6	108
14	Semaphorin 4D/Plexin-B1â€“mediated R-Ras GAP activity inhibits cell migration by regulating Î²1 integrin activity. Journal of Cell Biology, 2006, 173, 601-613.	2.3	95
15	Different Requirement for Rnd GTPases of R-Ras GAP Activity of Plexin-C1 and Plexin-D1. Journal of Biological Chemistry, 2009, 284, 6743-6751.	1.6	93
16	Pragmin, a Novel Effector of Rnd2 GTPase, Stimulates RhoA Activity. Journal of Biological Chemistry, 2006, 281, 10355-10364.	1.6	78
17	Cystine uptake through the cystine/glutamate antiporter xCT triggers glioblastoma cell death under glucose deprivation. Journal of Biological Chemistry, 2017, 292, 19721-19732.	1.6	77
18	Dock4 is regulated by RhoG and promotes Rac-dependent cell migration. Experimental Cell Research, 2006, 312, 4205-4216.	1.2	76

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19	Rapostlin Is a Novel Effector of Rnd2 GTPase Inducing Neurite Branching. Journal of Biological Chemistry, 2002, 277, 45428-45434.	1.6	74
20	Socius Is a Novel Rnd GTPase-Interacting Protein Involved in Disassembly of Actin Stress Fibers. Molecular and Cellular Biology, 2002, 22, 2952-2964.	1.1	74
21	A Role of Rnd1 GTPase in Dendritic Spine Formation in Hippocampal Neurons. Journal of Neuroscience, 2003, 23, 11065-11072.	1.7	72
22	Rho Family GTPases and Dendrite Plasticity. Neuroscientist, 2005, 11, 187-191.	2.6	71
23	Differential Responses to Nerve Growth Factor and Epidermal Growth Factor in Neurite Outgrowth of PC12 Cells Are Determined by Rac1 Activation Systems. Journal of Biological Chemistry, 2001, 276, 15298-15305.	1.6	57
24	Dock4 regulates dendritic development in hippocampal neurons. Journal of Neuroscience Research, 2008, 86, 3052-3061.	1.3	57
25	EphA2 is a key effector of the MEK/ERK/RSK pathway regulating glioblastoma cell proliferation. Cellular Signalling, 2016, 28, 937-945.	1.7	55
26	R-Ras Controls Axon Specification Upstream of Glycogen Synthase Kinase-3Î² through Integrin-linked Kinase. Journal of Biological Chemistry, 2007, 282, 303-318.	1.6	52
27	Regulation of Neuronal Morphology by Toca-1, an F-BAR/EFC Protein That Induces Plasma Membrane Invagination. Journal of Biological Chemistry, 2006, 281, 29042-29053.	1.6	51
28	Semaphorin 4D/Plexin-B1 Stimulates PTEN Activity through R-Ras GTPase-activating Protein Activity, Inducing Growth Cone Collapse in Hippocampal Neurons. Journal of Biological Chemistry, 2010, 285, 28200-28209.	1.6	51
29	Direct Interaction of Rnd1 with FRS2Î² Regulates Rnd1-induced Down-regulation of RhoA Activity and Is Involved in Fibroblast Growth Factor-induced Neurite Outgrowth in PC12 Cells. Journal of Biological Chemistry, 2005, 280, 18418-18424.	1.6	50
30	Regulation of dendrite growth by the Cdc42 activator Zizimin1/Dock9 in hippocampal neurons. Journal of Neuroscience Research, 2009, 87, 1794-1805.	1.3	47
31	Rac GEF Dock4 interacts with cortactin to regulate dendritic spine formation. Molecular Biology of the Cell, 2013, 24, 1602-1613.	0.9	44
32	Ephexin4 and EphA2 mediate resistance to anoikis through RhoG and phosphatidylinositol 3-kinase. Experimental Cell Research, 2011, 317, 1701-1713.	1.2	42
33	Rnd1, a Novel Rho Family GTPase, Induces the Formation of Neuritic Processes in PC12 Cells. Biochemical and Biophysical Research Communications, 2000, 278, 604-608.	1.0	37
34	Ephexin4â€mediated promotion of cell migration and anoikis resistance is regulated by serine 897 phosphorylation of EphA2. FEBS Open Bio, 2013, 3, 78-82.	1.0	35
35	Dock4 forms a complex with SH3YL1 and regulates cancer cell migration. Cellular Signalling, 2014, 26, 1082-1088.	1.7	35
36	High cell density increases glioblastoma cell viability under glucose deprivation via degradation of the cystine/glutamate transporter xCT (SLC7A11). Journal of Biological Chemistry, 2020, 295, 6936-6945.	1.6	33

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37	Identification of Splicing Variants of Rapostlin, a Novel Rnd2 Effector that Interacts with Neural Wiskott-Aldrich Syndrome Protein and Induces Neurite Branching. Journal of Biological Chemistry, 2004, 279, 14104-14110.	1.6	31
38	RhoG regulates anoikis through a phosphatidylinositol 3-kinase-dependent mechanism. Experimental Cell Research, 2007, 313, 2821-2832.	1.2	30
39	PACAP activates Rac1 and synergizes with NGF to activate ERK1/2, thereby inducing neurite outgrowth in PC12 cells. Molecular Brain Research, 2004, 123, 18-26.	2.5	28
40	RhoG Promotes Neural Progenitor Cell Proliferation in Mouse Cerebral Cortex. Molecular Biology of the Cell, 2009, 20, 4941-4950.	0.9	25
41	EphB6 promotes anoikis by modulating EphA2 signaling. Cellular Signalling, 2014, 26, 2879-2884.	1.7	25
42	Role of ferritinophagy in cystine deprivation-induced cell death in glioblastoma cells. Biochemical and Biophysical Research Communications, 2021, 539, 56-63.	1.0	22
43	Small GTPase Rnd1 is involved in neuronal activity-dependent dendritic development in hippocampal neurons. Neuroscience Letters, 2006, 400, 218-223.	1.0	20
44	The F-BAR Protein Rapostlin Regulates Dendritic Spine Formation in Hippocampal Neurons. Journal of Biological Chemistry, 2011, 286, 32672-32683.	1.6	20
45	Î²2â€Chimaerin binds to EphA receptors and regulates cell migration. FEBS Letters, 2009, 583, 1237-1242.	1.3	19
46	HGF-induced serine 897 phosphorylation of EphA2 regulates epithelial morphogenesis of MDCK cells in 3D culture. Journal of Cell Science, 2015, 128, 1912-1921.	1.2	19
47	Expression of gamma-glutamyltransferase 1 in glioblastoma cells confers resistance to cystine deprivationâ€“induced ferroptosis. Journal of Biological Chemistry, 2022, 298, 101703.	1.6	18
48	Developmental changes in expression of small GTPase RhoG mRNA in the rat brain. Molecular Brain Research, 2002, 106, 145-150.	2.5	17
49	The cystine/glutamate antiporter xCT is a key regulator of EphA2 S897 phosphorylation under glucose-limited conditions. Cellular Signalling, 2019, 62, 109329.	1.7	16
50	Tyrosine kinase activity of EphA2 promotes its S897 phosphorylation and glioblastoma cell proliferation. Biochemical and Biophysical Research Communications, 2018, 499, 920-926.	1.0	14
51	Differential distribution of ELMO1 and ELMO2 mRNAs in the developing mouse brain. Brain Research, 2006, 1073-1074, 103-108.	1.1	13
52	Epidermal growth factor promotes glioblastoma cell death under glucose deprivation via upregulation of xCT (SLC7A11). Cellular Signalling, 2021, 78, 109874.	1.7	10
53	RasGRF1 mediates brain-derived neurotrophic factor-induced axonal growth in primary cultured cortical neurons. Biochemistry and Biophysics Reports, 2019, 17, 56-64.	0.7	9
54	Tyrosine Phosphorylation of SGEF Regulates RhoG Activity and Cell Migration. PLoS ONE, 2016, 11, e0159617.	1.1	7

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55	Socius, a novel binding partner of GÎ±12/13, promotes the GÎ±12-induced RhoA activation. Biochemical and Biophysical Research Communications, 2005, 337, 615-620.	1.0	6
56	EphA3 is up-regulated by epidermal growth factor and promotes formation of glioblastoma cell aggregates. Biochemical and Biophysical Research Communications, 2019, 508, 715-721.	1.0	3
57	Filamin A forms a complex with EphA2 and regulates EphA2 serine 897 phosphorylation and glioblastoma cell proliferation. Biochemical and Biophysical Research Communications, 2022, 597, 64-70.	1.0	1
58	HGF-induced serine 897 phosphorylation of EphA2 regulates epithelial morphogenesis of MDCK cells in 3D culture. Development (Cambridge), 2015, 142, e1105-e1105.	1.2	0