

Fumio Matsumura

List of Publications by Year in descending order

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64
papers

7,134
citations

81839

39
h-index

123376

61
g-index

65
all docs

65
docs citations

65
times ranked

6642
citing authors

#	ARTICLE	IF	CITATIONS
1	Distinct Roles of Rock (Rho-Kinase) and Mlck in Spatial Regulation of Mlc Phosphorylation for Assembly of Stress Fibers and Focal Adhesions in 3t3 Fibroblasts. <i>Journal of Cell Biology</i> , 2000, 150, 797-806.	2.3	595
2	Inhibition of Myosin Light Chain Kinase by p21-Activated Kinase. <i>Science</i> , 1999, 283, 2083-2085.	6.0	547
3	Phosphorylation of Myosin-Binding Subunit (Mbs) of Myosin Phosphatase by Rho-Kinase in Vivo. <i>Journal of Cell Biology</i> , 1999, 147, 1023-1038.	2.3	520
4	Molecular Dissection of the Rho-associated Protein Kinase (p160ROCK)-regulated Neurite Remodeling in Neuroblastoma N1E-115 Cells. <i>Journal of Cell Biology</i> , 1998, 141, 1625-1636.	2.3	448
5	Distinct roles of MLCK and ROCK in the regulation of membrane protrusions and focal adhesion dynamics during cell migration of fibroblasts. <i>Journal of Cell Biology</i> , 2004, 164, 427-439.	2.3	361
6	Regulation of myosin II during cytokinesis in higher eukaryotes. <i>Trends in Cell Biology</i> , 2005, 15, 371-377.	3.6	350
7	ROCK-I regulates closure of the eyelids and ventral body wall by inducing assembly of actomyosin bundles. <i>Journal of Cell Biology</i> , 2005, 168, 941-953.	2.3	289
8	Fascin, an Actin-bundling Protein, Induces Membrane Protrusions and Increases Cell Motility of Epithelial Cells. <i>Molecular Biology of the Cell</i> , 1998, 9, 993-1006.	0.9	233
9	Specification of Actin Filament Function and Molecular Composition by Tropomyosin Isoforms. <i>Molecular Biology of the Cell</i> , 2003, 14, 1002-1016.	0.9	231
10	Specific Localization of Serine 19 Phosphorylated Myosin II during Cell Locomotion and Mitosis of Cultured Cells. <i>Journal of Cell Biology</i> , 1998, 140, 119-129.	2.3	214
11	Rho-kinase/ROCK is involved in cytokinesis through the phosphorylation of myosin light chain and not ezrin/radixin/moesin proteins at the cleavage furrow. <i>Oncogene</i> , 2000, 19, 6059-6064.	2.6	201
12	The GTP binding proteins Gem and Rad are negative regulators of the Rho-Rho kinase pathway. <i>Journal of Cell Biology</i> , 2002, 157, 291-302.	2.3	183
13	Citron Kinase, a Rho-dependent Kinase, Induces Di-phosphorylation of Regulatory Light Chain of Myosin II. <i>Molecular Biology of the Cell</i> , 2003, 14, 1745-1756.	0.9	183
14	Phosphorylation of non-muscle caldesmon by p34cdc2 kinase during mitosis. <i>Nature</i> , 1991, 349, 169-172.	13.7	181
15	Identification of an Actin Binding Region and a Protein Kinase C Phosphorylation Site on Human Fascin. <i>Journal of Biological Chemistry</i> , 1997, 272, 2527-2533.	1.6	166
16	Myosin phosphatase target subunit: Many roles in cell function. <i>Biochemical and Biophysical Research Communications</i> , 2008, 369, 149-156.	1.0	166
17	Myosin Phosphatase-Targeting Subunit 1 Regulates Mitosis by Antagonizing Polo-like Kinase 1. <i>Developmental Cell</i> , 2008, 14, 787-797.	3.1	143
18	Small GTP-binding Protein Rho Stimulates the Actomyosin System, Leading to Invasion of Tumor Cells. <i>Journal of Biological Chemistry</i> , 1998, 273, 5146-5154.	1.6	141

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19	Phosphorylation of Human Fascin Inhibits Its Actin Binding and Bundling Activities. <i>Journal of Biological Chemistry</i> , 1996, 271, 12632-12638.	1.6	120
20	Cell-Matrix Adhesions Differentially Regulate Fascin Phosphorylation. <i>Molecular Biology of the Cell</i> , 1999, 10, 4177-4190.	0.9	118
21	Dissociation of FAK/p130CAS/c-Src Complex during Mitosis: Role of Mitosis-specific Serine Phosphorylation of FAK. <i>Journal of Cell Biology</i> , 1999, 144, 315-324.	2.3	112
22	A fluorescent resonant energy transfer-based biosensor reveals transient and regional myosin light chain kinase activation in lamella and cleavage furrows. <i>Journal of Cell Biology</i> , 2002, 156, 543-553.	2.3	111
23	Role of the actin bundling protein fascin in growth cone morphogenesis: Localization in filopodia and lamellipodia. <i>Cytoskeleton</i> , 2001, 48, 109-120.	4.4	110
24	Caldesmon. <i>Current Opinion in Cell Biology</i> , 1993, 5, 70-76.	2.6	109
25	cDNA Cloning and Expression of the Human Homolog of the Sea Urchin <i>fascin</i> and <i>Drosophila</i> <i>singed</i> Genes Which Encodes an Actin-Bundling Protein. <i>DNA and Cell Biology</i> , 1994, 13, 821-827.	0.9	75
26	Structure, Evolutionary Conservation, and Conformational Dynamics of Homo sapiens Fascin-1, an F-actin Crosslinking Protein. <i>Journal of Molecular Biology</i> , 2010, 400, 589-604.	2.0	75
27	Fascin1 Promotes Cell Migration of Mature Dendritic Cells. <i>Journal of Immunology</i> , 2011, 186, 2850-2859.	0.4	74
28	Expression of the Actin-Bundling Protein Fascin in Cultured Human Dendritic Cells Correlates with Dendritic Morphology and Cell Differentiation. <i>Journal of Investigative Dermatology</i> , 2000, 115, 658-663.	0.3	73
29	Langerhans Cell Histiocytosis. <i>American Journal of Clinical Pathology</i> , 2002, 118, 335-343.	0.4	72
30	Regulation of Actin Binding and Actin Bundling Activities of Fascin by Caldesmon Coupled with Tropomyosin. <i>Journal of Biological Chemistry</i> , 1998, 273, 26991-26997.	1.6	64
31	Activation of Myosin Phosphatase Targeting Subunit by Mitosis-specific Phosphorylation. <i>Journal of Cell Biology</i> , 1999, 144, 735-744.	2.3	58
32	Fascin1 is dispensable for mouse development but is favorable for neonatal survival. <i>Cytoskeleton</i> , 2009, 66, 524-534.	4.4	55
33	Advances in Cytokinesis Research. Role of Myosin Light Chain Phosphorylation in the Regulation of Cytokinesis.. <i>Cell Structure and Function</i> , 2001, 26, 639-644.	0.5	53
34	Mutant Caldesmon Lacking cdc2 Phosphorylation Sites Delays M-Phase Entry and Inhibits Cytokinesis. <i>Molecular Biology of the Cell</i> , 2001, 12, 239-250.	0.9	53
35	Caldesmon Inhibits Arp2/3-mediated Actin Nucleation. <i>Journal of Biological Chemistry</i> , 2003, 278, 17937-17944.	1.6	49
36	Regulation of mitotic function of Chk1 through phosphorylation at novel sites by cyclin-dependent kinase 1 (Cdk1). <i>Genes To Cells</i> , 2006, 11, 477-485.	0.5	45

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37	Ca ²⁺ -Regulated actin and phospholipid binding protein (68kD-protein) from bovine liver: Identification as a homologue for annexin VI and intracellular localization. <i>Cytoskeleton</i> , 1992, 22, 200-210.	4.4	44
38	Myosin light chain kinases and phosphatase in mitosis and cytokinesis. <i>Archives of Biochemistry and Biophysics</i> , 2011, 510, 76-82.	1.4	42
39	Rac-induced increase of phosphorylation of myosin regulatory light chain in HeLa cells. <i>Cytoskeleton</i> , 2004, 58, 186-199.	4.4	40
40	Polymorphism of tubulin assembly In vitro formation of sheet, twisted ribbon and microtubule. <i>Biochimica Et Biophysica Acta (BBA) - Protein Structure</i> , 1976, 453, 162-175.	1.7	39
41	Mitosis-specific phosphorylation of caldesmon: Possible molecular mechanism of cell rounding during mitosis. <i>BioEssays</i> , 1991, 13, 563-568.	1.2	39
42	Characterization of the COOH Terminus of Non-muscle Caldesmon Mutants Lacking Mitosis-specific Phosphorylation Sites. <i>Journal of Biological Chemistry</i> , 1995, 270, 4023-4030.	1.6	37
43	An Oncogenic Epidermal Growth Factor Receptor Signals via a p21-activated Kinase-Caldesmon-Myosin Phosphotyrosine Complex. <i>Journal of Biological Chemistry</i> , 2000, 275, 35328-35334.	1.6	37
44	Centrosome/Spindle Pole-associated Protein Regulates Cytokinesis via Promoting the Recruitment of MyoGEF to the Central Spindle. <i>Molecular Biology of the Cell</i> , 2009, 20, 1428-1440.	0.9	37
45	Calcium binding to bovine brain tubulin. <i>FEBS Letters</i> , 1975, 58, 222-225.	1.3	27
46	Visualization of monoclonal antibody binding to tropomyosin on native smooth muscle thin filaments by electron microscopy. <i>Journal of Molecular Biology</i> , 1982, 157, 163-171.	2.0	27
47	Synapsin I Is Phosphorylated at Ser603 by p21-activated Kinases (PAKs) in Vitro and in PC12 Cells Stimulated with Bradykinin. <i>Journal of Biological Chemistry</i> , 2002, 277, 45473-45479.	1.6	26
48	Tension generation by actomyosin thread from a non-muscle system. <i>Nature</i> , 1980, 285, 169-171.	13.7	24
49	Phosphorylation of MyoGEF on Thr-574 by Plk1 Promotes MyoGEF Localization to the Central Spindle. <i>Journal of Biological Chemistry</i> , 2008, 283, 28392-28400.	1.6	21
50	Role of a novel coiled-coil domain-containing protein CCDC69 in regulating central spindle assembly. <i>Cell Cycle</i> , 2010, 9, 4117-4129.	1.3	18
51	Caldesmon: Possible Functions in Microfilament Reorganization During Mitosis and Cell Transformation. <i>Advances in Experimental Medicine and Biology</i> , 1994, 358, 113-122.	0.8	18
52	Reversible superprecipitation and bundle formation of plasmodium actomyosin. <i>Biochimica Et Biophysica Acta (BBA) - Protein Structure</i> , 1978, 533, 511-523.	1.7	15
53	Fascin Confers Resistance to <i>Listeria</i> Infection in Dendritic Cells. <i>Journal of Immunology</i> , 2013, 191, 6156-6164.	0.4	13
54	Myosin Phosphatase-targeting Subunit 1 Controls Chromatid Segregation*. <i>Journal of Biological Chemistry</i> , 2011, 286, 10825-10833.	1.6	12

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55	Incorporation of microinjected mutant and wildtype recombinant tropomyosins into stress fibers in fibroblasts. <i>Cytoskeleton</i> , 1993, 24, 119-128.	4.4	11
56	Role of the Basic C-Terminal Half of Caldesmon in Its Regulation of F-Actin: Comparison between Caldesmon and Calponin. <i>Journal of Biochemistry</i> , 2005, 138, 805-813.	0.9	8
57	Phosphorylation of Myosin II-interacting Guanine Nucleotide Exchange Factor (MyoGEF) at Threonine 544 by Aurora B Kinase Promotes the Binding of Polo-like Kinase 1 to MyoGEF. <i>Journal of Biological Chemistry</i> , 2014, 289, 7142-7150.	1.6	7
58	Artificial Phosphorylation Removes Gelsolin's Dependence on Calcium.. <i>Cell Structure and Function</i> , 2000, 25, 57-65.	0.5	4
59	Role of the actin bundling protein fascin in growth cone morphogenesis: Localization in filopodia and lamellipodia. <i>Cytoskeleton</i> , 2001, 48, 109-120.	4.4	4
60	Investigation of Fascin1, a Marker of Mature Dendritic Cells, Reveals a New Role for IL-6 Signaling in CCR7-Mediated Chemotaxis. <i>Journal of Immunology</i> , 2021, 207, 938-949.	0.4	3
61	Calcium channel blocker influences the density of alpha-actinin labeling at the rat neuromuscular junction. <i>Muscle and Nerve</i> , 1990, 13, 348-354.	1.0	2
62	Phosphorylation of Caldesmon and Cell Cycle.. <i>Seibutsu Butsuri</i> , 1991, 31, 58-63.	0.0	0
63	Fascin. , 2016, , 1-7.		0
64	Fascin. , 2018, , 1681-1687.		0