

Masumi Eto

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75
papers

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62
g-index

83
ext. papers

4,125
ext. citations

4.6
avg, IF

5.04
L-index

#	Paper	IF	Citations
75	A novel protein phosphatase-1 inhibitory protein potentiated by protein kinase C. Isolation from porcine aorta media and characterization. <i>Journal of Biochemistry</i> , 1995 , 118, 1104-7	3.1	272
74	Agonists trigger G protein-mediated activation of the CPI-17 inhibitor phosphoprotein of myosin light chain phosphatase to enhance vascular smooth muscle contractility. <i>Journal of Biological Chemistry</i> , 2000 , 275, 9897-900	5.4	261
73	Molecular cloning of a novel phosphorylation-dependent inhibitory protein of protein phosphatase-1 (CPI17) in smooth muscle: its specific localization in smooth muscle. <i>FEBS Letters</i> , 1997 , 410, 356-60	3.8	207
72	Phosphorylation of the myosin phosphatase targeting subunit and CPI-17 during Ca ²⁺ sensitization in rabbit smooth muscle. <i>Journal of Physiology</i> , 2003 , 546, 879-89	3.9	196
71	Expression of CPI-17 and myosin phosphatase correlates with Ca(2+) sensitivity of protein kinase C-induced contraction in rabbit smooth muscle. <i>Journal of Physiology</i> , 2001 , 535, 553-64	3.9	193
70	Histamine-induced vasoconstriction involves phosphorylation of a specific inhibitor protein for myosin phosphatase by protein kinase C alpha and delta isoforms. <i>Journal of Biological Chemistry</i> , 2001 , 276, 29072-8	5.4	172
69	Possible involvement of the novel CPI-17 protein in protein kinase C signal transduction of rabbit arterial smooth muscle. <i>Journal of Physiology</i> , 1998 , 508 (Pt 3), 871-81	3.9	149
68	Reconstitution of protein kinase C-induced contractile Ca ²⁺ sensitization in triton X-100-demembrated rabbit arterial smooth muscle. <i>Journal of Physiology</i> , 1999 , 520 Pt 1, 139-52	3.9	131
67	Ca ²⁺ -dependent rapid Ca ²⁺ sensitization of contraction in arterial smooth muscle. <i>Circulation Research</i> , 2007 , 100, 121-9	15.7	129
66	Differential signalling by muscarinic receptors in smooth muscle: m ₂ -mediated inactivation of myosin light chain kinase via Gi ₃ , Cdc42/Rac1 and p21-activated kinase 1 pathway, and m ₃ -mediated MLC20 (20 kDa regulatory light chain of myosin II) phosphorylation via Rho-associated kinase/myosin phosphatase targeting subunit 1 and protein kinase C/CPI-17 pathway. <i>Biochemical Journal</i> , 2003 , 374, 145-55	3.8	129
65	RhoA-mediated Ca ²⁺ sensitization in erectile function. <i>Journal of Biological Chemistry</i> , 2002 , 277, 30614-21	3.1	124
64	Activation of myosin light chain phosphatase in intact arterial smooth muscle during nitric oxide-induced relaxation. <i>Journal of Biological Chemistry</i> , 2001 , 276, 34681-5	5.4	116
63	Phosphorylation of the myosin phosphatase inhibitors, CPI-17 and PHI-1, by integrin-linked kinase. <i>Biochemical Journal</i> , 2002 , 367, 517-24	3.8	114
62	Regulation of cellular protein phosphatase-1 (PP1) by phosphorylation of the CPI-17 family, C-kinase-activated PP1 inhibitors. <i>Journal of Biological Chemistry</i> , 2009 , 284, 35273-7	5.4	113
61	Dual Ser and Thr phosphorylation of CPI-17, an inhibitor of myosin phosphatase, by MYPT-associated kinase. <i>FEBS Letters</i> , 2001 , 493, 91-4	3.8	96
60	Rho kinase and matrix metalloproteinase inhibitors cooperate to inhibit angiogenesis and growth of human prostate cancer xenotransplants. <i>FASEB Journal</i> , 2003 , 17, 223-34	0.9	89
59	A novel phosphoprotein inhibitor of protein type-1 phosphatase holoenzymes. <i>Biochemistry</i> , 1999 , 38, 16952-7	3.2	87

58	Cerebellar long-term synaptic depression requires PKC-mediated activation of CPI-17, a myosin/moesin phosphatase inhibitor. <i>Neuron</i> , 2002 , 36, 1145-58	13.9	84
57	Phosphoprotein inhibitor CPI-17 specificity depends on allosteric regulation of protein phosphatase-1 by regulatory subunits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 8888-93	11.5	83
56	Phosphorylation-dependent autoinhibition of myosin light chain phosphatase accounts for Ca ²⁺ sensitization force of smooth muscle contraction. <i>Journal of Biological Chemistry</i> , 2009 , 284, 21569-79	5.4	80
55	Inhibitor-2 regulates protein phosphatase-1 complexed with NimA-related kinase to induce centrosome separation. <i>Journal of Biological Chemistry</i> , 2002 , 277, 44013-20	5.4	78
54	Identification of trimeric myosin phosphatase (PP1M) as a target for a novel PKC-potentiated protein phosphatase-1 inhibitory protein (CPI17) in porcine aorta smooth muscle. <i>Journal of Biochemistry</i> , 1999 , 125, 354-62	3.1	75
53	RhoA-Rho kinase pathway mediates thrombin- and U-46619-induced phosphorylation of a myosin phosphatase inhibitor, CPI-17, in vascular smooth muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , 2005 , 289, C352-60	5.4	55
52	Agonist- and depolarization-induced signals for myosin light chain phosphorylation and force generation of cultured vascular smooth muscle cells. <i>Journal of Cell Science</i> , 2006 , 119, 1769-80	5.3	53
51	Reconstituted human myosin light chain phosphatase reveals distinct roles of two inhibitory phosphorylation sites of the regulatory subunit, MYPT1. <i>Biochemistry</i> , 2014 , 53, 2701-9	3.2	50
50	Defining the structural determinants and a potential mechanism for inhibition of myosin phosphatase by the protein kinase C-potentiated inhibitor protein of 17 kDa. <i>Journal of Biological Chemistry</i> , 2001 , 276, 39858-63	5.4	49
49	Phosphorylation of the myosin-binding subunit of myosin phosphatase by Raf-1 and inhibition of phosphatase activity. <i>Journal of Biological Chemistry</i> , 2002 , 277, 3053-9	5.4	47
48	Thromboxane A ₂ -induced bi-directional regulation of cerebral arterial tone. <i>Journal of Biological Chemistry</i> , 2009 , 284, 6348-60	5.4	46
47	Phosphorylation-induced conformational switching of CPI-17 produces a potent myosin phosphatase inhibitor. <i>Structure</i> , 2007 , 15, 1591-602	5.2	40
46	Inhibition of myosin/moesin phosphatase by expression of the phosphoinhibitor protein CPI-17 alters microfilament organization and retards cell spreading. <i>Cytoskeleton</i> , 2000 , 46, 222-34		39
45	Nitric oxide-induced biphasic mechanism of vascular relaxation via dephosphorylation of CPI-17 and MYPT1. <i>Journal of Physiology</i> , 2009 , 587, 3587-603	3.9	38
44	ROCK mediates phorbol ester-induced apoptosis in prostate cancer cells via p21Cip1 up-regulation and JNK. <i>Journal of Biological Chemistry</i> , 2009 , 284, 29365-75	5.4	37
43	CPI-17-deficient smooth muscle of chicken. <i>Journal of Physiology</i> , 2004 , 557, 515-28	3.9	37
42	Phosphorylation of protein phosphatase type-1 inhibitory proteins by integrin-linked kinase and cyclic nucleotide-dependent protein kinases. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 306, 382-7	3.4	37
41	Solution NMR structure of the myosin phosphatase inhibitor protein CPI-17 shows phosphorylation-induced conformational changes responsible for activation. <i>Journal of Molecular Biology</i> , 2001 , 314, 839-49	6.5	37

40	Assembly of MYPT1 with protein phosphatase-1 in fibroblasts redirects localization and reorganizes the actin cytoskeleton. <i>Cytoskeleton</i> , 2005 , 62, 100-9		32
39	Interleukin 6 mediates production of interleukin 10 in metastatic melanoma. <i>Cancer Immunology, Immunotherapy</i> , 2012 , 61, 145-155	7.4	29
38	Diversity and plasticity in signaling pathways that regulate smooth muscle responsiveness: Paradigms and paradoxes for the myosin phosphatase, the master regulator of smooth muscle contraction. <i>Journal of Smooth Muscle Research</i> , 2017 , 53, 1-19	0.4	27
37	Association of the tensin N-terminal protein-tyrosine phosphatase domain with the alpha isoform of protein phosphatase-1 in focal adhesions. <i>Journal of Biological Chemistry</i> , 2007 , 282, 17806-15	5.4	27
36	Caffeine relaxes smooth muscle through actin depolymerization. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2012 , 303, L334-42	5.8	24
35	Endogenous inhibitor proteins that connect Ser/Thr kinases and phosphatases in cell signaling. <i>IUBMB Life</i> , 2012 , 64, 732-9	4.7	22
34	Uncoupling of GPCR and RhoA-induced Ca ²⁺ -sensitization of chicken amnion smooth muscle lacking CPI-17. <i>FEBS Letters</i> , 2004 , 578, 73-9	3.8	19
33	Reciprocal regulation controlling the expression of CPI-17, a specific inhibitor protein for the myosin light chain phosphatase in vascular smooth muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , 2012 , 303, C58-68	5.4	18
32	Roles of the amino acid side chains in the actin-binding S-site of myosin heavy chain. <i>Journal of Biochemistry</i> , 1990 , 108, 499-504	3.1	18
31	Molecular mechanism of telokin-mediated disinhibition of myosin light chain phosphatase and cAMP/cGMP-induced relaxation of gastrointestinal smooth muscle. <i>Journal of Biological Chemistry</i> , 2012 , 287, 20975-85	5.4	16
30	Distinctive solution conformation of phosphatase inhibitor CPI-17 substituted with aspartate at the phosphorylation-site threonine residue. <i>Journal of Molecular Biology</i> , 2003 , 326, 1539-47	6.5	16
29	Nuclear localization of CPI-17, a protein phosphatase-1 inhibitor protein, affects histone H3 phosphorylation and corresponds to proliferation of cancer and smooth muscle cells. <i>Biochemical and Biophysical Research Communications</i> , 2013 , 434, 137-42	3.4	15
28	Domains of type 1 protein phosphatase inhibitor-2 required for nuclear and cytoplasmic localization in response to cell-cell contact. <i>Journal of Cell Science</i> , 2002 , 115, 3739-45	5.3	14
27	Protein phosphatases 1 and 2A and their naturally occurring inhibitors: current topics in smooth muscle physiology and chemical biology. <i>Journal of Physiological Sciences</i> , 2018 , 68, 1-17	2.3	13
26	Y27632, a Rho-activated kinase inhibitor, normalizes dysregulation in alpha1-adrenergic receptor-induced contraction of Lyon hypertensive rat artery smooth muscle. <i>Fundamental and Clinical Pharmacology</i> , 2009 , 23, 169-78	3.1	13
25	Expression of CPI-17 in smooth muscle during embryonic development and in neointimal lesion formation. <i>Histochemistry and Cell Biology</i> , 2009 , 132, 191-8	2.4	12
24	Phospho-pivot modeling predicts specific interactions of protein phosphatase-1 with a phospho-inhibitor protein CPI-17. <i>Journal of Biochemistry</i> , 2005 , 137, 633-41	3.1	10
23	Unfair competition governs the interaction of pCPI-17 with myosin phosphatase (PP1-MYPT1). <i>ELife</i> , 2017 , 6,	8.9	10

22	Remodeling of the rat distal colon in diabetes: function and ultrastructure. <i>American Journal of Physiology - Cell Physiology</i> , 2016 , 310, C151-60	5.4	8
21	Effects of a fluorescent Myosin light chain phosphatase inhibitor on prostate cancer cells. <i>Frontiers in Oncology</i> , 2011 , 1, 27	5.3	8
20	Phosphoprotein inhibitors of protein phosphatase-1. <i>Methods in Enzymology</i> , 2003 , 366, 243-60	1.7	8
19	F-actin clustering and cell dysmotility induced by the pathological W148R missense mutation of filamin B at the actin-binding domain. <i>American Journal of Physiology - Cell Physiology</i> , 2016 , 310, C89-98	5.4	8
18	Heat shock augments angiotensin II-induced vascular contraction through increased production of reactive oxygen species. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 399, 452-7	3.4	7
17	Reactivities of Cys707 (SH1) in intermediate states of myosin subfragment-1 ATPase. <i>Journal of Biochemistry</i> , 1998 , 124, 609-14	3.1	7
16	Solution structure of the inhibitory phosphorylation domain of myosin phosphatase targeting subunit 1. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009 , 77, 732-5	4.2	4
15	RSK2 contributes to myogenic vasoconstriction of resistance arteries by activating smooth muscle myosin and the Na/H exchanger. <i>Science Signaling</i> , 2018 , 11,	8.8	4
14	Kinase activity-tagged western blotting assay. <i>BioTechniques</i> , 2020 , 68, 211-213	2.5	3
13	Computational simulation for interactions of nano-molecules: The phospho-pivot modeling algorithm for prediction of interactions between a phospho-protein and its receptor. <i>Science and Technology of Advanced Materials</i> , 2005 , 6, 463-467	7.1	3
12	Localization of 17-kDa myosin light chain isoforms in cultured aortic smooth muscle cells. <i>Journal of Biochemistry</i> , 1999 , 125, 334-42	3.1	2
11	Endogenous inhibitor proteins that connect Ser/Thr kinases and phosphatases in cell signaling. <i>IUBMB Life</i> , 2012 , 64, scope-scope	4.7	1
10	Assay for three-way interaction of protein phosphatase-1 (Glc7) with regulatory subunits plus phosphatase inhibitor-2. <i>Methods in Molecular Biology</i> , 2007 , 365, 197-208	1.4	1
9	Phosphorylation-induced conformational change responsible for the function of a myosin phosphatase inhibitor, CPI-17. <i>Science and Technology of Advanced Materials</i> , 2004 , 5, 383-386	7.1	1
8	Fluorescence lifetime imaging of green fluorescent protein in a single living cell 1999 , 3604, 6		1
7	Mechanism of myosin phosphatase inhibition via phosphorylation of MYPT1 subunit by RhoA/ROCK. <i>FASEB Journal</i> , 2008 , 22, 965.10	0.9	1
6	A temporal Ca desensitization of myosin light chain kinase in phasic smooth muscles induced by CaMKK1/PP2A pathways. <i>American Journal of Physiology - Cell Physiology</i> , 2021 , 321, C549-C558	5.4	1
5	Possible roles of N- and C-terminal unstructured tails of CPI-17 in regulating Ca sensitization force of smooth muscle.. <i>Journal of Smooth Muscle Research</i> , 2022 , 58, 22-33	0.4	0

- 4 Overexpression of progranulin increases pathological protein accumulation by suppressing autophagic flux.. *Biochemical and Biophysical Research Communications*, **2022**, 611, 78-84 3-4 ○
- 3 Inhibition of acto-myosin subfragment-1 ATPase activity by peptides corresponding to various segments of the 20-kDa domain of myosin heavy chain. *Journal of Biochemistry*, **1994**, 115, 701-7 3-1
- 2 Structural Basis of a Myosin Phosphatase Inhibitory Protein, CPI-17. *Seibutsu Butsuri*, **2005**, 45, 72-77 ○
- 1 An Actin-Binding Site on Myosin **1991**, 39-48