

Apolinary Sobieszek

List of Publications by Year in descending order

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57
papers

2,014
citations

346980

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274796

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57
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57
docs citations

57
times ranked

558
citing authors

#	ARTICLE	IF	CITATIONS
1	Myosin assembly of smooth muscle: from ribbons and side polarity to a row polar helical model. <i>Journal of Muscle Research and Cell Motility</i> , 2022, 43, 113-133.	0.9	3
2	Helical model of smooth muscle myosin filament and the ribbons made of caldesmon: history revisited. <i>European Biophysics Journal</i> , 2016, 45, 861-867.	1.2	5
3	Catch Muscle Myorod Modulates ATPase Activity of Myosin in a Phosphorylation-Dependent Way. <i>PLoS ONE</i> , 2015, 10, e0125379.	1.1	2
4	The role of caldesmon and its phosphorylation by ERK on the binding force of unphosphorylated myosin to actin. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 3218-3225.	1.1	6
5	Unphosphorylated calponin enhances the binding force of unphosphorylated myosin to actin. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 4634-4641.	1.1	12
6	Molecular Mechanical Differences between Isoforms of Contractile Actin in the Presence of Isoforms of Smooth Muscle Tropomyosin. <i>PLoS Computational Biology</i> , 2013, 9, e1003273.	1.5	9
7	Catch muscle of bivalve molluscs contains myosin- and twitchin-associated protein kinase phosphorylating myorod. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010, 1804, 884-890.	1.1	8
8	Phosphorylation of caldesmon by myosin light chain kinase increases its binding affinity for phosphorylated myosin filaments. <i>Biological Chemistry</i> , 2010, 391, 1091-104.	1.2	7
9	Myosin Kinase of Molluscan Smooth Muscle. Regulation by Binding of Calcium to the Substrate and Inhibition of Myorod and Twitchin Phosphorylation by Myosin. <i>Biochemistry</i> , 2010, 49, 4191-4199.	1.2	4
10	Effect of actin C-terminal modification on tropomyosin isoforms binding and thin filament regulation. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009, 1794, 237-243.	1.1	20
11	Length Adaptation of Airway Smooth Muscle. <i>Proceedings of the American Thoracic Society</i> , 2008, 5, 62-67.	3.5	50
12	Physical Integrity of Smooth Muscle Myosin Filaments is Enhanced by Phosphorylation of the Regulatory Myosin Light Chain. <i>Cellular Physiology and Biochemistry</i> , 2007, 20, 649-658.	1.1	15
13	Phosphorylation of myorod (catchin) by kinases tightly associated to molluscan and vertebrate smooth muscle myosins. <i>Archives of Biochemistry and Biophysics</i> , 2006, 454, 197-205.	1.4	22
14	Modulation of myosin filament activation by telokin in smooth muscle. <i>Biophysical Chemistry</i> , 2005, 113, 25-40.	1.5	15
15	Vectorial activation of smooth muscle myosin filaments and its modulation by telokin. <i>Canadian Journal of Physiology and Pharmacology</i> , 2005, 83, 899-912.	0.7	3
16	(+)Insert smooth muscle myosin heavy chain (SM-B) isoform expression in human tissues. <i>American Journal of Physiology - Cell Physiology</i> , 2005, 289, C1277-C1285.	2.1	33
17	Slowing effects of Mg ²⁺ on contractile kinetics of skinned preparations of rat hearts depending on myosin heavy chain isoform content. <i>Pflugers Archiv European Journal of Physiology</i> , 2003, 447, 135-141.	1.3	2
18	Vectorial phosphorylation of filamentous smooth muscle myosin by calmodulin and myosin light chain kinase complex. <i>Journal of Muscle Research and Cell Motility</i> , 2001, 22, 505-511.	0.9	6

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19	Enzyme kinetic characterization of the smooth muscle myosin phosphorylating system: activation by calcium and calmodulin and possible inhibitory mechanisms of antagonists. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1999, 1450, 77-91.	1.9	8
20	Purification and Characterization of a Smooth Muscle Myosin Light Chain Kinase-Phosphatase Complex. <i>Journal of Biological Chemistry</i> , 1997, 272, 7034-7041.	1.6	27
21	Purification and Characterization of a Kinase-associated, Myofibrillar Smooth Muscle Myosin Light Chain Phosphatase Possessing a Calmodulin-targeting Subunit. <i>Journal of Biological Chemistry</i> , 1997, 272, 7027-7033.	1.6	20
22	Telokin (kinase-related protein) modulates the oligomeric state of smooth-muscle myosin light-chain kinase and its interaction with myosin filaments. <i>Biochemical Journal</i> , 1997, 322, 65-71.	1.7	29
23	Kinase-related protein (telokin) is phosphorylated by smooth-muscle myosin light-chain kinase and modulates the kinase activity. <i>Biochemical Journal</i> , 1997, 328, 425-430.	1.7	15
24	Oligomerization of smooth muscle myosin light chain kinase and its modifications by melittin and calmodulin. , 1997, 42, 673-686.		1
25	Modulation of Smooth Muscle Myosin Light Chain Kinase Activity by Ca ²⁺ /Calmodulin-Dependent, Oligomeric-Type Modifications. <i>Biochemistry</i> , 1995, 34, 6366-6372.	1.2	19
26	Calmodulin-Dependent Autophosphorylation of Smooth Muscle Myosin Light Chain Kinase: Intermolecular Reaction Mechanism via Dimerization of the Kinase and Potentiation of the Catalytic Activity Following Activation. <i>Biochemistry</i> , 1995, 34, 11855-11863.	1.2	20
27	Regulation of myosin light chain kinase: kinetic mechanism, autophosphorylation, and cooperative activation by Ca ²⁺ and calmodulin. <i>Canadian Journal of Physiology and Pharmacology</i> , 1994, 72, 1368-1376.	0.7	8
28	Gradient polyacrylamide gel electrophoresis in presence of sodium dodecyl sulfate: A practical approach to muscle contractile and regulatory proteins. <i>Electrophoresis</i> , 1994, 15, 1014-1020.	1.3	18
29	Smooth Muscle Myosin: Molecule Conformation, Filament Assembly and Associated Regulatory Enzymes. , 1994, , 1-29.		14
30	Purification and characterization of the myofibrillar form of myosin light-chain phosphatase from turkey gizzard smooth muscle. <i>BBA - Proteins and Proteomics</i> , 1993, 1203, 230-235.	2.1	6
31	Regulation of smooth muscle myosin light chain kinase. <i>Journal of Molecular Biology</i> , 1991, 220, 947-957.	2.0	33
32	Regulation of smooth-muscle myosin-light-chain kinase. Steady-state kinetic studies of the reaction mechanism. <i>FEBS Journal</i> , 1991, 199, 735-743.	0.2	14
33	Conformational transitions within the head and at the head-rod junction in smooth muscle myosin studied with a limited proteolysis method. <i>FEBS Journal</i> , 1990, 192, 601-608.	0.2	3
34	Smooth muscle myosin as a calmodulin binding protein. Affinity increase on filament assembly. <i>Journal of Muscle Research and Cell Motility</i> , 1990, 11, 114-124.	0.9	23
35	Diverse actions of cadmium on the smooth muscle myosin phosphorylation system. <i>FEBS Letters</i> , 1990, 263, 381-384.	1.3	20
36	Interaction of Tropomyosin with F-Actin-Heavy Meromyosin Complex. <i>Biological Chemistry Hoppe-Seyler</i> , 1989, 370, 399-408.	1.4	13

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37	Bulk isolation of the 20,000-Da light chain of smooth muscle myosin: Separation of the unphosphorylated and phosphorylated species. <i>Analytical Biochemistry</i> , 1988, 172, 43-50.	1.1	25
38	Binding of phosphorylated and dephosphorylated heavy meromyosin to F-actin. <i>FEBS Letters</i> , 1987, 210, 177-180.	1.3	7
39	Urea-glycerol-acrylamide gel electrophoresis of acidic low molecular weight muscle proteins: Rapid determination of myosin light chain phosphorylation in myosin, actomyosin and whole muscle samples. <i>Electrophoresis</i> , 1986, 7, 417-425.	1.3	46
40	Phosphorylation reaction of vertebrate smooth muscle myosin: an enzyme kinetic analysis. <i>Biochemistry</i> , 1985, 24, 1266-1274.	1.2	49
41	Influence of smooth muscle myosin conformation on myosin light chain kinase binding and on phosphorylation. <i>FEBS Letters</i> , 1985, 188, 367-374.	1.3	19
42	Conformational stability of the myosin rod. <i>FEBS Journal</i> , 1984, 145, 305-310.	0.2	29
43	Influence of an actin-modulating protein from smooth muscle on actin-myosin interaction. <i>FEBS Letters</i> , 1984, 177, 209-216.	1.3	13
44	Steady-state kinetic studies on the actin activation of skeletal muscle heavy meromyosin subfragments. <i>Journal of Molecular Biology</i> , 1982, 157, 275-286.	2.0	47
45	Properties of tropomyosin from the dual-regulated obliquely striated body wall muscle of the earthworm (<i>Lumbricus terrestris</i> L.). <i>Journal of Muscle Research and Cell Motility</i> , 1982, 3, 57-74.	0.9	7
46	Activation of smooth muscle myosin by smooth and skeletal muscle actins. <i>FEBS Letters</i> , 1981, 134, 197-202.	1.3	27
47	Effect of Muscle and Non-muscle Tropomyosins in Reconstituted Skeletal Muscle Actomyosin. <i>FEBS Journal</i> , 1981, 118, 533-539.	0.2	41
48	The Contractile Apparatus of Smooth Muscle. <i>International Review of Cytology</i> , 1980, 64, 241-306.	6.2	138
49	Regulation of the actin-myosin interaction in vertebrate smooth muscle: Activation via a myosin light-chain kinase and the effect of tropomyosin. <i>Journal of Molecular Biology</i> , 1977, 112, 559-576.	2.0	202
50	Ca-Linked Phosphorylation of a Light Chain of Vertebrate Smooth-Muscle Myosin. <i>FEBS Journal</i> , 1977, 73, 477-483.	0.2	181
51	Ca-Regulation of Mammalian Smooth Muscle Actomyosin via a Kinase-Phosphatase-Dependent Phosphorylation and Dephosphorylation of the 20000-Mr Light Chain of Myosin. <i>FEBS Journal</i> , 1977, 76, 521-530.	0.2	127
52	Myosin-linked calcium regulation in vertebrate smooth muscle. <i>Journal of Molecular Biology</i> , 1976, 102, 75-92.	2.0	166
53	Preparation and Properties of Vertebrate Smooth-Muscle Myofibrils and Actomyosin. <i>FEBS Journal</i> , 1975, 55, 49-60.	0.2	221
54	The fine structure of the contractile apparatus of the anterior byssus retractor muscle of <i>Mytilus edulis</i> . <i>Journal of Ultrastructure Research</i> , 1973, 43, 313-343.	1.4	94

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55	Filaments from Purified Smooth Muscle Myosin. Cold Spring Harbor Symposia on Quantitative Biology, 1973, 37, 109-111.	2.0	14
56	Cross-bridges on self-assembled smooth muscle myosin filaments. Journal of Molecular Biology, 1972, 70, 741-744.	2.0	46
57	Self-assembly of smooth muscle myosin filaments: adaptation of filament length by telokin and Mg ⁺ ATP. European Biophysics Journal, 0, , .	1.2	2