Apolinary Sobieszek

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55 papers	1,768 citations	20 h-index	41 g-index
57 ext. papers	1,845 ext. citations	3.9 avg, IF	4.34 L-index

#	Paper	IF	Citations
55	Helical model of smooth muscle myosin filament and the ribbons made of caldesmon: history revisited. *European Biophysics Journal*, **2016**, 45, 861-867	1.9	3
54	Catch muscle myorod modulates ATPase activity of Myosin in a phosphorylation-dependent way. *PLoS ONE*, **2015**, 10, e0125379	3.7	2
53	The role of caldesmon and its phosphorylation by ERK on the binding force of unphosphorylated myosin to actin. *Biochimica Et Biophysica Acta - General Subjects*, **2014**, 1840, 3218-25	4	3
52	Unphosphorylated calponin enhances the binding force of unphosphorylated myosin to actin. *Biochimica Et Biophysica Acta - General Subjects*, **2013**, 1830, 4634-41	4	10
51	Molecular mechanical differences between isoforms of contractile actin in the presence of isoforms of smooth muscle tropomyosin. *PLoS Computational Biology*, **2013**, 9, e1003273	5	7
50	Phosphorylation of caldesmon by myosin light chain kinase increases its binding affinity for phosphorylated myosin filaments. *Biological Chemistry*, **2010**, 391, 1091-104	4.5	7
49	Myosin kinase of molluscan smooth muscle. Regulation by binding of calcium to the substrate and inhibition of myorod and twitchin phosphorylation by myosin. *Biochemistry*, **2010**, 49, 4191-9	3.2	4
48	Catch muscle of bivalve molluscs contains myosin- and twitchin-associated protein kinase phosphorylating myorod. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2010**, 1804, 884-90	4	8
47	Effect of actin C-terminal modification on tropomyosin isoforms binding and thin filament regulation. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2009**, 1794, 237-43	4	18
46	Length adaptation of airway smooth muscle. *Proceedings of the American Thoracic Society*, **2008**, 5, 62-7		44
45	Physical integrity of smooth muscle myosin filaments is enhanced by phosphorylation of the regulatory myosin light chain. *Cellular Physiology and Biochemistry*, **2007**, 20, 649-58	3.9	13
44	Phosphorylation of myorod (catchin) by kinases tightly associated to molluscan and vertebrate smooth muscle myosins. *Archives of Biochemistry and Biophysics*, **2006**, 454, 197-205	4.1	20
43	Modulation of myosin filament activation by telokin in smooth muscle liberation of myosin kinase and phosphatase from supramolecular complexes. *Biophysical Chemistry*, **2005**, 113, 25-40	3.5	13
42	Vectorial activation of smooth muscle myosin filaments and its modulation by telokin. *Canadian Journal of Physiology and Pharmacology*, **2005**, 83, 899-912	2.4	2
41	(+)Insert smooth muscle myosin heavy chain (SM-B) isoform expression in human tissues. *American Journal of Physiology - Cell Physiology*, **2005**, 289, C1277-85	5.4	29
40	Slowing effects of Mg2+ on contractile kinetics of skinned preparations of rat hearts depending on myosin heavy chain isoform content. *Pflugers Archiv European Journal of Physiology*, **2003**, 447, 135-41	4.6	2
39	Vectorial phosphorylation of filamentous smooth muscle myosin by calmodulin and myosin light chain kinase complex. *Journal of Muscle Research and Cell Motility*, **2001**, 22, 505-11	3.5	4

38	Enzyme kinetic characterization of the smooth muscle myosin phosphorylating system: activation by calcium and calmodulin and possible inhibitory mechanisms of antagonists. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **1999**, 1450, 77-91	4.9	8
37	Purification and characterization of a smooth muscle myosin light chain kinase-phosphatase complex. *Journal of Biological Chemistry*, **1997**, 272, 7034-41	5.4	21
36	Purification and characterization of a kinase-associated, myofibrillar smooth muscle myosin light chain phosphatase possessing a calmodulin-targeting subunit. *Journal of Biological Chemistry*, **1997**, 272, 7027-33	5.4	18
35	Telokin (kinase-related protein) modulates the oligomeric state of smooth-muscle myosin light-chain kinase and its interaction with myosin filaments. *Biochemical Journal*, **1997**, 322 (Pt 1), 65-71	3.8	26
34	Kinase-related protein (telokin) is phosphorylated by smooth-muscle myosin light-chain kinase and modulates the kinase activity. *Biochemical Journal*, **1997**, 328 (Pt 2), 425-30	3.8	13
33	Oligomerization of smooth muscle myosin light chain kinase and its modifications by melittin and calmodulin. *Biopolymers*, **1997**, 42, 673-86	2.2	1
32	Modulation of smooth muscle myosin light chain kinase activity by Ca2+/calmodulin-dependent, oligomeric-type modifications. *Biochemistry*, **1995**, 34, 6366-72	3.2	17
31	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. *Biochemistry*, **1995**, 34, 11855-63	3.2	20
30	Regulation of myosin light chain kinase: kinetic mechanism, autophosphorylation, and cooperative activation by Ca2+ and calmodulin. *Canadian Journal of Physiology and Pharmacology*, **1994**, 72, 1368-76	2.4	6
29	Gradient polyacrylamide gel electrophoresis in presence of sodium dodecyl sulfate: a practical approach to muscle contractile and regulatory proteins. *Electrophoresis*, **1994**, 15, 1014-20	3.6	16
28	Smooth Muscle Myosin: Molecule Conformation, Filament Assembly and Associated Regulatory Enzymes **1994**, 1-29		8
27	Purification and characterization of the myofibrillar form of myosin light-chain phosphatase from turkey gizzard smooth muscle. *BBA - Proteins and Proteomics*, **1993**, 1203, 230-5		6
26	Regulation of smooth-muscle myosin-light-chain kinase. Steady-state kinetic studies of the reaction mechanism. *FEBS Journal*, **1991**, 199, 735-43		13
25	Regulation of smooth muscle myosin light chain kinase. Allosteric effects and co-operative activation by calmodulin. *Journal of Molecular Biology*, **1991**, 220, 947-57	6.5	32
24	Conformational transitions within the head and at the head-rod junction in smooth muscle myosin studied with a limited proteolysis method. *FEBS Journal*, **1990**, 192, 601-8		2
23	Smooth muscle myosin as a calmodulin binding protein. Affinity increase on filament assembly. *Journal of Muscle Research and Cell Motility*, **1990**, 11, 114-24	3.5	19
22	Diverse actions of cadmium on the smooth muscle myosin phosphorylation system. *FEBS Letters*, **1990**, 263, 381-4	3.8	18
21	Interaction of tropomyosin with F-actin-heavy meromyosin complex. *Biological Chemistry Hoppe-Seyler*, **1989**, 370, 399-407		11

20	Bulk isolation of the 20,000-Da light chain of smooth muscle myosin: separation of the unphosphorylated and phosphorylated species. *Analytical Biochemistry*, **1988**, 172, 43-50	3.1	25
19	Binding of phosphorylated and dephosphorylated heavy meromyosin to F-actin. *FEBS Letters*, **1987**, 210, 177-80	3.8	6
18	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. *Electrophoresis*, **1986**, 7, 417-425	3.6	44
17	Phosphorylation reaction of vertebrate smooth muscle myosin: an enzyme kinetic analysis. *Biochemistry*, **1985**, 24, 1266-74	3.2	48
16	Influence of smooth muscle myosin conformation on myosin light chain kinase binding and on phosphorylation. *FEBS Letters*, **1985**, 188, 367-74	3.8	18
15	Conformational stability of the myosin rod. *FEBS Journal*, **1984**, 145, 305-10		25
14	Influence of an actin-modulating protein from smooth muscle on actin-myosin interaction. *FEBS Letters*, **1984**, 177, 209-16	3.8	13
13	Steady-state kinetic studies on the actin activation of skeletal muscle heavy meromyosin subfragments. Effects of skeletal, smooth and non-muscle tropomyosins. *Journal of Molecular Biology*, **1982**, 157, 275-86	6.5	42
12	Properties of tropomyosin from the dual-regulated obliquely striated body wall muscle of the earthworm (Lumbricus terrestris L.). *Journal of Muscle Research and Cell Motility*, **1982**, 3, 57-74	3.5	7
11	Activation of smooth muscle myosin by smooth and skeletal muscle actins. *FEBS Letters*, **1981**, 134, 197-202	3.8	26
10	Effect of muscle and non-muscle tropomyosins in reconstituted skeletal muscle actomyosin. *FEBS Journal*, **1981**, 118, 533-9		37
9	The contractile apparatus of smooth muscle. *International Review of Cytology*, **1980**, 64, 241-306		114
8	Regulation of the actin-myosin interaction in vertebrate smooth muscle: activation via a myosin light-chain kinase and the effect of tropomyosin. *Journal of Molecular Biology*, **1977**, 112, 559-76	6.5	175
7	Ca-linked phosphorylation of a light chain of vertebrate smooth-muscle myosin. *FEBS Journal*, **1977**, 73, 477-83		162
6	Ca-regulation of mammalian smooth muscle actomyosin via a kinase-phosphatase-dependent phosphorylation and dephosphorylation of the 20 000-Mr light chain of myosin. *FEBS Journal*, **1977**, 76, 521-30		107
5	Myosin-linked calcium regulation in vertebrate smooth muscle. *Journal of Molecular Biology*, **1976**, 102, 75-92	6.5	146
4	Preparation and properties of vertebrate smooth-muscle myofibrils and actomyosin. *FEBS Journal*, **1975**, 55, 49-60		195
3	The fine structure of the contractile apparatus of the anterior byssus retractor muscle of Mytilus edulis. *Journal of Ultrastructure Research*, **1973**, 43, 313-43		83

2	Filaments from Purified Smooth Muscle Myosin. *Cold Spring Harbor Symposia on Quantitative Biology*, **1973**, 37, 109-111	3.9	10
1	Cross-bridges on self-assembled smooth muscle myosin filaments. *Journal of Molecular Biology*, **1972**, 70, 741-4	6.5	39