

Avril V Somlyo

List of Publications by Year in descending order

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29
papers

5,021
citations

361413

20
h-index

501196

28
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29
all docs

29
docs citations

29
times ranked

4020
citing authors

#	ARTICLE	IF	CITATIONS
1	Signal transduction and regulation in smooth muscle. <i>Nature</i> , 1994, 372, 231-236.	27.8	1,829
2	Ca ²⁺ Sensitivity of Smooth Muscle and Nonmuscle Myosin II: Modulated by G Proteins, Kinases, and Myosin Phosphatase. <i>Physiological Reviews</i> , 2003, 83, 1325-1358.	28.8	1,817
3	Rho-Kinase Inhibitor Retards Migration and in Vivo Dissemination of Human Prostate Cancer Cells. <i>Biochemical and Biophysical Research Communications</i> , 2000, 269, 652-659.	2.1	217
4	The effects of the Rho-kinase inhibitor Y-27632 on arachidonic acid-, GTPγS-, and phorbol ester-induced Ca ²⁺ -sensitization of smooth muscle. <i>FEBS Letters</i> , 1998, 440, 183-187.	2.8	187
5	Immunogold localization of inositol 1,4,5-trisphosphate receptors and characterization of ultrastructural features of the sarcoplasmic reticulum in phasic and tonic smooth muscle. <i>Journal of Muscle Research and Cell Motility</i> , 1994, 15, 682-700.	2.0	121
6	Compartmentalization of sickle-cell calcium in endocytic inside-out vesicles. <i>Nature</i> , 1985, 315, 586-589.	27.8	118
7	Rho kinase and matrix metalloproteinase inhibitors cooperate to inhibit angiogenesis and growth of human prostate cancer xenotransplants. <i>FASEB Journal</i> , 2003, 17, 223-234.	0.5	96
8	Deciphering the Molecular and Functional Basis of RHOGAP Family Proteins. <i>Journal of Biological Chemistry</i> , 2016, 291, 20353-20371.	3.4	87
9	Hemoglobin ±/eNOS Coupling at Myoendothelial Junctions Is Required for Nitric Oxide Scavenging During Vasoconstriction. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, 2594-2600.	2.4	72
10	Smooth muscle myosin: regulation and properties. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2004, 359, 1921-1930.	4.0	49
11	Thromboxane A2-induced Bi-directional Regulation of Cerebral Arterial Tone. <i>Journal of Biological Chemistry</i> , 2009, 284, 6348-6360.	3.4	48
12	Rap1b in Smooth Muscle and Endothelium Is Required for Maintenance of Vascular Tone and Normal Blood Pressure. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, 1486-1494.	2.4	43
13	Telokin mediates Ca ²⁺ -desensitization through activation of myosin phosphatase in phasic and tonic smooth muscle. <i>Journal of Muscle Research and Cell Motility</i> , 2004, 25, 657-665.	2.0	40
14	The Actin Associated Protein Palladin Is Important for the Early Smooth Muscle Cell Differentiation. <i>PLoS ONE</i> , 2010, 5, e12823.	2.5	40
15	The unimportance of being (protein kinase C) epsilon 1. <i>FASEB Journal</i> , 1998, 12, 813-821.	0.5	36
16	Phosphorylation of telokin by cyclic nucleotide kinases and the identification of in vivo phosphorylation sites in smooth muscle. <i>FEBS Letters</i> , 2000, 479, 83-88.	2.8	31
17	p63RhoGEF: A New Switch for Gq-Mediated Activation of Smooth Muscle. <i>Trends in Cardiovascular Medicine</i> , 2012, 22, 122-127.	4.9	28
18	Mechanical properties of the extracellular matrix alter expression of smooth muscle protein LPP and its partner palladin; relationship to early atherosclerosis and vascular injury. <i>Journal of Muscle Research and Cell Motility</i> , 2009, 30, 41-55.	2.0	24

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19	Smooth Muscle: Excitation-Contraction Coupling, Contractile Regulation, and the Cross-Bridge Cycle. Alcoholism: Clinical and Experimental Research, 1994, 18, 138-143.	2.4	23
20	Uncoupling of GPCR and RhoA-induced Ca ²⁺ -sensitization of chicken amnion smooth muscle lacking CPI-17. FEBS Letters, 2004, 578, 73-79.	2.8	23
21	Agonist-induced Ca ²⁺ Sensitization in Smooth Muscle. Journal of Biological Chemistry, 2013, 288, 34030-34040.	3.4	21
22	Human RhoA/RhoGDI complex expressed in yeast: Gtp exchange is sufficient for translocation of RhoA to liposomes. Protein Science, 2000, 9, 376-386.	7.6	14
23	The p90 Ribosomal S6 Kinase (RSK) Is a Mediator of Smooth Muscle Contractility. PLoS ONE, 2013, 8, e58703.	2.5	14
24	Signaling Pathways That Control Rho Kinase Activity Maintain the Embryonic Epicardial Progenitor State. Journal of Biological Chemistry, 2015, 290, 10353-10367.	3.4	13
25	RSK2 contributes to myogenic vasoconstriction of resistance arteries by activating smooth muscle myosin and the Na ⁺ /H ⁺ exchanger. Science Signaling, 2018, 11, .	3.6	13
26	Role of Telokin in Regulating Murine Gastric Fundus Smooth Muscle Tension. PLoS ONE, 2015, 10, e0134876.	2.5	6
27	Bacterial Expression, Purification and In Vitro Phosphorylation of Full-Length Ribosomal S6 Kinase 2 (RSK2). PLoS ONE, 2016, 11, e0164343.	2.5	6
28	Smooth muscle myosin filament controversy, once again?. Journal of Physiology, 2015, 593, 473-475.	2.9	5
29	The cAMP responsive Rap1 guanine nucleotide exchange factor, Epac, induces smooth muscle relaxation by down regulation of RhoA activity. FASEB Journal, 2011, 25, .	0.5	0