

Avril V Somlyo

List of Publications by Year in descending order

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29
papers

5,021
citations

361296

20
h-index

501076

28
g-index

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.	13.7	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.	13.1	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.	1.0	217
4	The effects of the Rho-kinase inhibitor Y-27632 on arachidonic acid, GTP γ S, and phorbol ester-induced Ca ²⁺ sensitization of smooth muscle. <i>FEBS Letters</i> , 1998, 440, 183-187.	1.3	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.	0.9	121
6	Compartmentalization of sickle-cell calcium in endocytic inside-out vesicles. <i>Nature</i> , 1985, 315, 586-589.	13.7	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.	0.2	96
8	Deciphering the Molecular and Functional Basis of RHOGAP Family Proteins. <i>Journal of Biological Chemistry</i> , 2016, 291, 20353-20371.	1.6	87
9	Hemoglobin \pm /eNOS Coupling at Myoendothelial Junctions Is Required for Nitric Oxide Scavenging During Vasoconstriction. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, 2594-2600.	1.1	72
10	Smooth muscle myosin: regulation and properties. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2004, 359, 1921-1930.	1.8	49
11	Thromboxane A2-induced Bi-directional Regulation of Cerebral Arterial Tone. <i>Journal of Biological Chemistry</i> , 2009, 284, 6348-6360.	1.6	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.	1.1	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.	0.9	40
14	The Actin Associated Protein Palladin Is Important for the Early Smooth Muscle Cell Differentiation. <i>PLoS ONE</i> , 2010, 5, e12823.	1.1	40
15	The unimportance of being (protein kinase C) epsilon 1. <i>FASEB Journal</i> , 1998, 12, 813-821.	0.2	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.	1.3	31
17	p63RhoGEF: A New Switch for Gq-Mediated Activation of Smooth Muscle. <i>Trends in Cardiovascular Medicine</i> , 2012, 22, 122-127.	2.3	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.	0.9	24

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19	Smooth Muscle: Excitation-Contraction Coupling, Contractile Regulation, and the Cross-Bridge Cycle. <i>Alcoholism: Clinical and Experimental Research</i> , 1994, 18, 138-143.	1.4	23
20	Uncoupling of GPCR and RhoA-induced Ca ²⁺ -sensitization of chicken amnion smooth muscle lacking CPI-17. <i>FEBS Letters</i> , 2004, 578, 73-79.	1.3	23
21	Agonist-induced Ca ²⁺ Sensitization in Smooth Muscle. <i>Journal of Biological Chemistry</i> , 2013, 288, 34030-34040.	1.6	21
22	Human RhoA/RhoGDI complex expressed in yeast: Gtp exchange is sufficient for translocation of RhoA to liposomes. <i>Protein Science</i> , 2000, 9, 376-386.	3.1	14
23	The p90 Ribosomal S6 Kinase (RSK) Is a Mediator of Smooth Muscle Contractility. <i>PLoS ONE</i> , 2013, 8, e58703.	1.1	14
24	Signaling Pathways That Control Rho Kinase Activity Maintain the Embryonic Epicardial Progenitor State. <i>Journal of Biological Chemistry</i> , 2015, 290, 10353-10367.	1.6	13
25	RSK2 contributes to myogenic vasoconstriction of resistance arteries by activating smooth muscle myosin and the Na ⁺ /H ⁺ exchanger. <i>Science Signaling</i> , 2018, 11, .	1.6	13
26	Role of Telokin in Regulating Murine Gastric Fundus Smooth Muscle Tension. <i>PLoS ONE</i> , 2015, 10, e0134876.	1.1	6
27	Bacterial Expression, Purification and In Vitro Phosphorylation of Full-Length Ribosomal S6 Kinase 2 (RSK2). <i>PLoS ONE</i> , 2016, 11, e0164343.	1.1	6
28	Smooth muscle myosin filament controversy, once again?. <i>Journal of Physiology</i> , 2015, 593, 473-475.	1.3	5
29	The cAMP responsive Rap1 guanine nucleotide exchange factor, Epac, induces smooth muscle relaxation by down regulation of RhoA activity. <i>FASEB Journal</i> , 2011, 25, .	0.2	0