

Susan J Gunst

List of Publications by Year in descending order

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65
papers

3,269
citations

147726

31
h-index

149623

56
g-index

65
all docs

65
docs citations

65
times ranked

2254
citing authors

#	ARTICLE	IF	CITATIONS
1	Actin cytoskeletal dynamics in smooth muscle: a new paradigm for the regulation of smooth muscle contraction. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 295, C576-C587.	2.1	305
2	Invited Review: Focal adhesion and small heat shock proteins in the regulation of actin remodeling and contractility in smooth muscle. <i>Journal of Applied Physiology</i> , 2001, 91, 963-972.	1.2	266
3	Actin polymerization stimulated by contractile activation regulates force development in canine tracheal smooth muscle. <i>Journal of Physiology</i> , 1999, 519, 829-840.	1.3	217
4	Mechanosensitive tyrosine phosphorylation of paxillin and focal adhesion kinase in tracheal smooth muscle. <i>American Journal of Physiology - Cell Physiology</i> , 1999, 276, C250-C258.	2.1	140
5	Cytoskeletal remodeling of the airway smooth muscle cell: a mechanism for adaptation to mechanical forces in the lung. <i>Respiratory Physiology and Neurobiology</i> , 2003, 137, 151-168.	0.7	132
6	The first three minutes: smooth muscle contraction, cytoskeletal events, and soft glasses. <i>Journal of Applied Physiology</i> , 2003, 95, 413-425.	1.2	121
7	Tension development during contractile stimulation of smooth muscle requires recruitment of paxillin and vinculin to the membrane. <i>American Journal of Physiology - Cell Physiology</i> , 2004, 286, C433-C447.	2.1	119
8	Cytoskeletal remodeling in differentiated vascular smooth muscle is actin isoform dependent and stimulus dependent. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 295, C768-C778.	2.1	113
9	Selected Contribution: Plasticity of airway smooth muscle stiffness and extensibility: role of length-adaptive mechanisms. <i>Journal of Applied Physiology</i> , 2001, 90, 741-749.	1.2	106
10	Activation of the Arp2/3 complex by N-WASp is required for actin polymerization and contraction in smooth muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2005, 288, C1145-C1160.	2.1	106
11	Interactions of Airway Smooth Muscle Cells with Their Tissue Matrix: Implications for Contraction. <i>Proceedings of the American Thoracic Society</i> , 2008, 5, 32-39.	3.5	105
12	Silencing of p21-activated kinase attenuates vimentin phosphorylation on Ser-56 and reorientation of the vimentin network during stimulation of smooth muscle cells by 5-hydroxytryptamine. <i>Biochemical Journal</i> , 2005, 388, 773-783.	1.7	94
13	The Small GTPase Cdc42 Regulates Actin Polymerization and Tension Development during Contractile Stimulation of Smooth Muscle. <i>Journal of Biological Chemistry</i> , 2004, 279, 51722-51728.	1.6	91
14	The Adapter Protein CrkII Regulates Neuronal Wiskott-Aldrich Syndrome Protein, Actin Polymerization, and Tension Development during Contractile Stimulation of Smooth Muscle. <i>Journal of Biological Chemistry</i> , 2005, 280, 23380-23389.	1.6	85
15	The Small GTPase RhoA Regulates the Contraction of Smooth Muscle Tissues by Catalyzing the Assembly of Cytoskeletal Signaling Complexes at Membrane Adhesion Sites. <i>Journal of Biological Chemistry</i> , 2012, 287, 33996-34008.	1.6	80
16	Depletion of focal adhesion kinase by antisense depresses contractile activation of smooth muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2001, 280, C874-C883.	2.1	70
17	Dynamic association between $\hat{1}\pm$ -actinin and $\hat{1}^2$ -integrin regulates contraction of canine tracheal smooth muscle. <i>Journal of Physiology</i> , 2006, 572, 659-676.	1.3	63
18	Actin Depolymerization Factor/Cofilin Activation Regulates Actin Polymerization and Tension Development in Canine Tracheal Smooth Muscle. <i>Journal of Biological Chemistry</i> , 2008, 283, 36522-36531.	1.6	62

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19	Use of continuous positive airway pressure reduces airway reactivity in adults with asthma. <i>European Respiratory Journal</i> , 2013, 41, 317-322.	3.1	61
20	Limitation of Maximal Bronchoconstriction in Living Dogs. <i>The American Review of Respiratory Disease</i> , 1992, 145, 553-560.	2.9	60
21	Expression of Non-phosphorylatable Paxillin Mutants in Canine Tracheal Smooth Muscle Inhibits Tension Development. <i>Journal of Physiology</i> , 2003, 553, 21-35.	1.3	59
22	The focal adhesion protein paxillin regulates contraction in canine tracheal smooth muscle. <i>Journal of Physiology</i> , 2002, 542, 501-513.	1.3	57
23	Integrin-linked Kinase Regulates N-WASP-mediated Actin Polymerization and Tension Development in Tracheal Smooth Muscle. <i>Journal of Biological Chemistry</i> , 2007, 282, 34568-34580.	1.6	51
24	Selected Contribution: Roles of focal adhesion kinase and paxillin in the mechanosensitive regulation of myosin phosphorylation in smooth muscle. <i>Journal of Applied Physiology</i> , 2001, 91, 1452-1459.	1.2	48
25	Activation of Vinculin Induced by Cholinergic Stimulation Regulates Contraction of Tracheal Smooth Muscle Tissue. <i>Journal of Biological Chemistry</i> , 2011, 286, 3630-3644.	1.6	48
26	A novel role for RhoA GTPase in the regulation of airway smooth muscle contraction. <i>Canadian Journal of Physiology and Pharmacology</i> , 2015, 93, 129-136.	0.7	48
27	Non-muscle (NM) myosin heavy chain phosphorylation regulates the formation of NM myosin filaments, adhesome assembly and smooth muscle contraction. <i>Journal of Physiology</i> , 2017, 595, 4279-4300.	1.3	40
28	The effects of the small GTPase RhoA on the muscarinic contraction of airway smooth muscle result from its role in regulating actin polymerization. <i>American Journal of Physiology - Cell Physiology</i> , 2010, 299, C298-C306.	2.1	37
29	Mechanical stimuli and IL-13 interact at integrin adhesion complexes to regulate expression of smooth muscle myosin heavy chain in airway smooth muscle tissue. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2011, 301, L275-L284.	1.3	37
30	Role of Rho in Ca ²⁺ -insensitive contraction and paxillin tyrosine phosphorylation in smooth muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2000, 279, C308-C318.	2.1	36
31	Rho kinase collaborates with p21-activated kinase to regulate actin polymerization and contraction in airway smooth muscle. <i>Journal of Physiology</i> , 2018, 596, 3617-3635.	1.3	35
32	Vinculin Phosphorylation at Tyr1065 Regulates Vinculin Conformation and Tension Development in Airway Smooth Muscle Tissues. <i>Journal of Biological Chemistry</i> , 2014, 289, 3677-3688.	1.6	34
33	Integrin-linked kinase regulates smooth muscle differentiation marker gene expression in airway tissue. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2008, 295, L988-L997.	1.3	31
34	p21-Activated kinase (Pak) regulates airway smooth muscle contraction by regulating paxillin complexes that mediate actin polymerization. <i>Journal of Physiology</i> , 2016, 594, 4879-4900.	1.3	30
35	Vasodilator-stimulated Phosphoprotein (VASP) Regulates Actin Polymerization and Contraction in Airway Smooth Muscle by a Vinculin-dependent Mechanism. <i>Journal of Biological Chemistry</i> , 2015, 290, 11403-11416.	1.6	28
36	Altered calcium signaling in colonic smooth muscle of type 1 diabetic mice. <i>American Journal of Physiology - Renal Physiology</i> , 2012, 302, G66-G76.	1.6	27

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37	Relationship between paxillin and myosin phosphorylation during muscarinic stimulation of smooth muscle. <i>American Journal of Physiology - Cell Physiology</i> , 1998, 274, C741-C747.	2.1	26
38	Th17 cells contribute to pulmonary fibrosis and inflammation during chronic kidney disease progression after acute ischemia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 314, R265-R273.	0.9	22
39	Comparison of the shear modulus of mature and immature rabbit lungs. <i>Journal of Applied Physiology</i> , 1999, 87, 711-714.	1.2	21
40	Actions by actin: reciprocal regulation of cortactin activity by tyrosine kinases and F-actin. <i>Biochemical Journal</i> , 2004, 380, e7-e8.	1.7	17
41	Inhibition of p21 Activated Kinase (PAK) Reduces Airway Responsiveness In Vivo and In Vitro in Murine and Human Airways. <i>PLoS ONE</i> , 2012, 7, e42601.	1.1	17
42	Focal adhesion kinase (FAK) and mechanical stimulation negatively regulate the transition of airway smooth muscle tissues to a synthetic phenotype. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016, 311, L893-L902.	1.3	15
43	Elastase alters contractility and promotes an inflammatory synthetic phenotype in airway smooth muscle tissues. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2018, 314, L626-L634.	1.3	15
44	S100A4 is secreted by airway smooth muscle tissues and activates inflammatory signaling pathways via receptors for advanced glycation end products. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 319, L185-L195.	1.3	15
45	Regulation of 130-kDa Smooth Muscle Myosin Light Chain Kinase Expression by an Intronic CARG Element. <i>Journal of Biological Chemistry</i> , 2013, 288, 34647-34657.	1.6	14
46	Point:Counterpoint: Alterations in airway smooth muscle phenotype do/do not cause airway hyperresponsiveness in asthma. <i>Journal of Applied Physiology</i> , 2012, 113, 837-839.	1.2	9
47	Applicability of the sliding filament/crossbridge paradigm to smooth muscle. , 1999, 134, 7-61.		8
48	Molecular Mechanisms for the Mechanical Modulation of Airway Responsiveness. <i>Journal of Engineering and Science in Medical Diagnostics and Therapy</i> , 2019, 2, .	0.3	6
49	Phenotype transitions induced by mechanical stimuli in airway smooth muscle are regulated by differential interactions of parvin isoforms with paxillin and Akt. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 318, L1036-L1055.	1.3	6
50	Halothane alters the response of isolated airway smooth muscle to carbon dioxide. <i>Respiration Physiology</i> , 1992, 87, 255-268.	2.8	5
51	Type V Collagen-induced Tolerance Prevents Airway Hyperresponsiveness. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013, 187, 454-457.	2.5	5
52	S100A4 is activated by RhoA and catalyses the polymerization of non-muscle myosin, adhesion complex assembly and contraction in airway smooth muscle. <i>Journal of Physiology</i> , 2020, 598, 4573-4590.	1.3	5
53	Does airway inflation stretch the bronchial mucosal membrane?. <i>Journal of Applied Physiology</i> , 2005, 99, 2059-2060.	1.2	4
54	The proprotein convertase furin inhibits IL-13-induced inflammation in airway smooth muscle by regulating integrin-associated signaling complexes. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2021, 321, L102-L115.	1.3	4

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55	Last Word on Point: Alterations in airway smooth muscle phenotype do cause airway hyperresponsiveness in asthma. <i>Journal of Applied Physiology</i> , 2012, 113, 847-847.	1.2	3
56	Effect of CPAP on airway reactivity and airway inflammation in children with moderate-severe asthma. <i>Respirology</i> , 2019, 24, 338-344.	1.3	3
57	Dynamics of Cytoskeletal and Contractile Protein Organization: An Emerging Paradigm for Airway Smooth Muscle Contraction. , 0, , 31-51.		2
58	Airway Smooth Muscle and Asthma. , 2012, , 1359-1369.		1
59	Promoting our early career members at AJP-Lung: The Editorial Board Fellowship Program and the Next Generation Physiologist Highlights section at our Journal. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2021, 321, L844-L846.	1.3	1
60	Integrin Linked Kinase (ILK) modulates SmMHC expression in tracheal smooth muscle tissues by regulating the activity of Serum Response Factor (SRF). <i>FASEB Journal</i> , 2007, 21, A1339.	0.2	1
61	Activation of Vinculin Induced by Cholinergic Stimulation Regulates Tension Development in Tracheal Smooth Muscle (TSM). <i>FASEB Journal</i> , 2009, 23, 781.10.	0.2	1
62	Role of Airway Smooth Muscle Mechanical Properties in the Regulation of Airway Caliber. , 2014, , 53-64.		1
63	Phosphorylation of Vasodilator-stimulated Phosphoprotein (VASP) Regulates Contractility of Airway Smooth Muscle (ASM) Tissues by Regulating Actin Dynamics. <i>FASEB Journal</i> , 2011, 25, 1115.1.	0.2	0
64	The effects of Type 1 diabetes on colon smooth muscle. <i>FASEB Journal</i> , 2011, 25, 1123.1.	0.2	0
65	Conformational Changes in Vinculin Measured by Fluorescence Resonance Energy Transfer (FRET) during Airway Smooth Muscle (ASM) Contraction Depend on Vinculin Phosphorylation at Tyrosine 1065. <i>FASEB Journal</i> , 2013, 27, 923.11.	0.2	0