

Anna A Birukova

List of Publications by Year in descending order

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92
papers

5,256
citations

61984

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92
docs citations

92
times ranked

4581
citing authors

#	ARTICLE	IF	CITATIONS
1	The Role of the Microtubules in Tumor Necrosis Factor- α -Induced Endothelial Cell Permeability. American Journal of Respiratory Cell and Molecular Biology, 2003, 28, 574-581.	2.9	295
2	Prostaglandins PGE2 and PGI2 promote endothelial barrier enhancement via PKA- and Epac1/Rap1-dependent Rac activation. Experimental Cell Research, 2007, 313, 2504-2520.	2.6	251
3	Role of Rho GTPases in thrombin-induced lung vascular endothelial cells barrier dysfunction. Microvascular Research, 2004, 67, 64-77.	2.5	247
4	Magnitude-dependent regulation of pulmonary endothelial cell barrier function by cyclic stretch. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2003, 285, L785-L797.	2.9	233
5	Novel role of microtubules in thrombin-induced endothelial barrier dysfunction. FASEB Journal, 2004, 18, 1879-1890.	0.5	182
6	Microtubule disassembly induces cytoskeletal remodeling and lung vascular barrier dysfunction: Role of Rho-dependent mechanisms. Journal of Cellular Physiology, 2004, 201, 55-70.	4.1	170
7	GEF-H1 is involved in agonist-induced human pulmonary endothelial barrier dysfunction. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2006, 290, L540-L548.	2.9	151
8	Epoxy cyclopentenone-Containing Oxidized Phospholipids Restore Endothelial Barrier Function via Cdc42 and Rac. Circulation Research, 2004, 95, 892-901.	4.5	146
9	Microtubule disassembly increases endothelial cell barrier dysfunction: role of MLC phosphorylation. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2001, 281, L565-L574.	2.9	145
10	Measurement of local permeability at subcellular level in cell models of agonist- and ventilator-induced lung injury. Laboratory Investigation, 2013, 93, 254-263.	3.7	130
11	Epac/Rap and PKA are novel mechanisms of ANP-induced Rac-mediated pulmonary endothelial barrier protection. Journal of Cellular Physiology, 2008, 215, 715-724.	4.1	127
12	HGF attenuates thrombin-induced endothelial permeability by Tiam1-mediated activation of the Rac pathway and by Tiam1/Rac-dependent inhibition of the Rho pathway. FASEB Journal, 2007, 21, 2776-2786.	0.5	119
13	Involvement of microtubules and Rho pathway in TGF- β 1-induced lung vascular barrier dysfunction. Journal of Cellular Physiology, 2005, 204, 934-947.	4.1	107
14	Differential Regulation of Pulmonary Endothelial Monolayer Integrity by Varying Degrees of Cyclic Stretch. American Journal of Pathology, 2006, 168, 1749-1761.	3.8	106
15	Oxidative Stress Contributes to Lung Injury and Barrier Dysfunction via Microtubule Destabilization. American Journal of Respiratory Cell and Molecular Biology, 2012, 47, 688-697.	2.9	105
16	Mechanotransduction by GEF-H1 as a novel mechanism of ventilator-induced vascular endothelial permeability. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2010, 298, L837-L848.	2.9	90
17	Endothelial barrier disruption and recovery is controlled by substrate stiffness. Microvascular Research, 2013, 87, 50-57.	2.5	81
18	Paxillin- β -catenin interactions are involved in Rac/Cdc42-mediated endothelial barrier-protective response to oxidized phospholipids. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2007, 293, L199-L211.	2.9	80

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19	Mechanosensitive PPA2B Regulates Endothelial Responses to Atherorelevant Hemodynamic Forces. <i>Circulation Research</i> , 2015, 117, e41-e53.	4.5	75
20	MAP kinases in lung endothelial permeability induced by microtubule disassembly. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2005, 289, L75-L84.	2.9	73
21	Protein kinase A attenuates endothelial cell barrier dysfunction induced by microtubule disassembly. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2004, 287, L86-L93.	2.9	72
22	Rac GTPase is a hub for protein kinase A and Epac signaling in endothelial barrier protection by cAMP. <i>Microvascular Research</i> , 2010, 79, 128-138.	2.5	70
23	Rap-afadin axis in control of Rho signaling and endothelial barrier recovery. <i>Molecular Biology of the Cell</i> , 2013, 24, 2678-2688.	2.1	68
24	Paxillin Is Involved in the Differential Regulation of Endothelial Barrier by HGF and VEGF. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2009, 40, 99-107.	2.9	67
25	Oxidized phospholipids reduce ventilator-induced vascular leak and inflammation in vivo. <i>Critical Care</i> , 2008, 12, R27.	5.8	65
26	Polar head groups are important for barrier-protective effects of oxidized phospholipids on pulmonary endothelium. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2007, 292, L924-L935.	2.9	64
27	Fragmented oxidation products define barrier disruptive endothelial cell response to OxPAPC. <i>Translational Research</i> , 2013, 161, 495-504.	5.0	63
28	Magnitude-dependent effects of cyclic stretch on HGF- and VEGF-induced pulmonary endothelial remodeling and barrier regulation. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2008, 295, L612-L623.	2.9	60
29	Atrial natriuretic peptide attenuates LPS-induced lung vascular leak: role of PAK1. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2010, 299, L652-L663.	2.9	59
30	Iloprost improves endothelial barrier function in lipopolysaccharide-induced lung injury. <i>European Respiratory Journal</i> , 2013, 41, 165-176.	6.7	58
31	Tiam1 and β PIX mediate Rac-dependent endothelial barrier protective response to oxidized phospholipids. <i>Journal of Cellular Physiology</i> , 2007, 211, 608-617.	4.1	57
32	Stimulation of Rho signaling by pathologic mechanical stretch is a second hit to Rho-independent lung injury induced by IL-6. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2012, 302, L965-L975.	2.9	57
33	Association between adherens junctions and tight junctions via rap1 promotes barrier protective effects of oxidized phospholipids. <i>Journal of Cellular Physiology</i> , 2011, 226, 2052-2062.	4.1	56
34	Activation of Vascular Endothelial Growth Factor (VEGF) Receptor 2 Mediates Endothelial Permeability Caused by Cyclic Stretch. <i>Journal of Biological Chemistry</i> , 2016, 291, 10032-10045.	3.4	56
35	Gap Junction Protein Connexin43 Exacerbates Lung Vascular Permeability. <i>PLoS ONE</i> , 2014, 9, e100931.	2.5	53
36	GRP78 is a novel receptor initiating a vascular barrier protective response to oxidized phospholipids. <i>Molecular Biology of the Cell</i> , 2014, 25, 2006-2016.	2.1	49

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37	Lung endothelial barrier protection by iloprost in the 2-hit models of ventilator-induced lung injury (VILI) involves inhibition of Rho signaling. <i>Translational Research</i> , 2010, 155, 44-54.	5.0	47
38	ALK5 and Smad4 are involved in TGF- β 1-induced pulmonary endothelial permeability. <i>FEBS Letters</i> , 2005, 579, 4031-4037.	2.8	46
39	p190RhoGAP mediates protective effects of oxidized phospholipids in the models of ventilator-induced lung injury. <i>Experimental Cell Research</i> , 2011, 317, 859-872.	2.6	46
40	Signaling pathways involved in OxPAPC-induced pulmonary endothelial barrier protection. <i>Microvascular Research</i> , 2007, 73, 173-181.	2.5	45
41	Rap1 mediates protective effects of iloprost against ventilator-induced lung injury. <i>Journal of Applied Physiology</i> , 2009, 107, 1900-1910.	2.5	45
42	Prostacyclin post-treatment improves LPS-induced acute lung injury and endothelial barrier recovery via Rap1. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015, 1852, 778-791.	3.8	45
43	Oxidized phospholipids protect against lung injury and endothelial barrier dysfunction caused by heat-inactivated <i>Staphylococcus aureus</i> . <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015, 308, L550-L562.	2.9	45
44	VE-cadherin trans- β 1 interactions modulate Rac activation and enhancement of lung endothelial barrier by iloprost. <i>Journal of Cellular Physiology</i> , 2012, 227, 3405-3416.	4.1	43
45	Afadin controls p120-catenin-ZO-1 interactions leading to endothelial barrier enhancement by oxidized phospholipids. <i>Journal of Cellular Physiology</i> , 2012, 227, 1883-1890.	4.1	42
46	Asef mediates HGF protective effects against LPS-induced lung injury and endothelial barrier dysfunction. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015, 308, L452-L463.	2.9	40
47	Induction of cellular antioxidant defense by amifostine improves ventilator-induced lung injury*. <i>Critical Care Medicine</i> , 2011, 39, 2711-2721.	0.9	38
48	Dual role of vinculin in barrier-disruptive and barrier-enhancing endothelial cell responses. <i>Cellular Signalling</i> , 2016, 28, 541-551.	3.6	38
49	Anti-Inflammatory Effects of OxPAPC Involve Endothelial Cell-Mediated Generation of LXA4. <i>Circulation Research</i> , 2017, 121, 244-257.	4.5	37
50	<i>Staphylococcus aureus</i> -induced endothelial permeability and inflammation are mediated by microtubule destabilization. <i>Journal of Biological Chemistry</i> , 2019, 294, 3369-3384.	3.4	37
51	Long-term cyclic stretch controls pulmonary endothelial permeability at translational and post-translational levels. <i>Experimental Cell Research</i> , 2008, 314, 3466-3477.	2.6	36
52	Stiffness-Activated GEF-H1 Expression Exacerbates LPS-Induced Lung Inflammation. <i>PLoS ONE</i> , 2014, 9, e92670.	2.5	36
53	Hepatocyte Growth Factor-induced Asef-IQGAP1 Complex Controls Cytoskeletal Remodeling and Endothelial Barrier. <i>Journal of Biological Chemistry</i> , 2015, 290, 4097-4109.	3.4	36
54	IQGAP1 Regulates Endothelial Barrier Function via EB1-Cortactin Cross Talk. <i>Molecular and Cellular Biology</i> , 2014, 34, 3546-3558.	2.3	35

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55	Cross talk between paxillin and Rac is critical for mediation of barrier-protective effects by oxidized phospholipids. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2008, 295, L593-L602.	2.9	34
56	Atrial natriuretic peptide protects against <i>Staphylococcus aureus</i> -induced lung injury and endothelial barrier dysfunction. <i>Journal of Applied Physiology</i> , 2011, 110, 213-224.	2.5	34
57	Control of Vascular Permeability by Atrial Natriuretic Peptide via a GEF-H1-dependent Mechanism. <i>Journal of Biological Chemistry</i> , 2014, 289, 5168-5183.	3.4	33
58	Paxillin mediates stretch-induced Rho signaling and endothelial permeability via assembly of paxillin-p42/44MAPK-GEF-H1 complex. <i>FASEB Journal</i> , 2014, 28, 3249-3260.	0.5	32
59	Novel role of stathmin in microtubule-dependent control of endothelial permeability. <i>FASEB Journal</i> , 2012, 26, 3862-3874.	0.5	29
60	Mechanical induction of group V phospholipase A2 causes lung inflammation and acute lung injury. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2013, 304, L689-L700.	2.9	29
61	Regulation of lung endothelial permeability and inflammatory responses by prostaglandin A2: role of EP4 receptor. <i>Molecular Biology of the Cell</i> , 2017, 28, 1622-1635.	2.1	29
62	Synthetic Amphipathic Helical Peptides Targeting CD36 Attenuate Lipopolysaccharide-Induced Inflammation and Acute Lung Injury. <i>Journal of Immunology</i> , 2016, 197, 611-619.	0.8	28
63	A Role for VEGFR2 Activation in Endothelial Responses Caused by Barrier Disruptive OxPAPC Concentrations. <i>PLoS ONE</i> , 2012, 7, e30957.	2.5	27
64	Elevated truncated oxidized phospholipids as a factor exacerbating ALI in the aging lungs. <i>FASEB Journal</i> , 2019, 33, 3887-3900.	0.5	24
65	Asef controls vascular endothelial permeability and barrier recovery in the lung. <i>Molecular Biology of the Cell</i> , 2015, 26, 636-650.	2.1	23
66	Effects of prostaglandin lipid mediators on agonist-induced lung endothelial permeability and inflammation. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017, 313, L710-L721.	2.9	22
67	Role of Cingulin in Agonist-induced Vascular Endothelial Permeability. <i>Journal of Biological Chemistry</i> , 2016, 291, 23681-23692.	3.4	20
68	Mechanosensitive Rap1 activation promotes barrier function of lung vascular endothelium under cyclic stretch. <i>Molecular Biology of the Cell</i> , 2019, 30, 959-974.	2.1	20
69	Cell-type-specific crosstalk between p38 MAPK and Rho signaling in lung micro- and macrovascular barrier dysfunction induced by <i>Staphylococcus aureus</i> -derived pathogens. <i>Translational Research</i> , 2013, 162, 45-55.	5.0	18
70	Role of Krev Interaction Trapped-1 in Prostacyclin-Induced Protection against Lung Vascular Permeability Induced by Excessive Mechanical Forces and Thrombin Receptor Activating Peptide 6. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2015, 53, 834-843.	2.9	17
71	Selective Role of Vinculin in Contractile Mechanisms of Endothelial Permeability. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2016, 55, 476-486.	2.9	17
72	Microtubule destabilization caused by particulate matter contributes to lung endothelial barrier dysfunction and inflammation. <i>Cellular Signalling</i> , 2019, 53, 246-255.	3.6	17

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73	Incorporation of iloprost in phospholipase-resistant phospholipid scaffold enhances its barrier protective effects on pulmonary endothelium. <i>Scientific Reports</i> , 2018, 8, 879.	3.3	16
74	Modulation of Endothelial Inflammation by Low and High Magnitude Cyclic Stretch. <i>PLoS ONE</i> , 2016, 11, e0153387.	2.5	16
75	Chronic high-magnitude cyclic stretch stimulates EC inflammatory response via VEGF receptor 2-dependent mechanism. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016, 310, L1062-L1070.	2.9	15
76	SIRT7 deficiency suppresses inflammation, induces EndoMT, and increases vascular permeability in primary pulmonary endothelial cells. <i>Scientific Reports</i> , 2020, 10, 12497.	3.3	15
77	Prostaglandin E receptor 4 receptor mediates endothelial barrier enhancing and anti-inflammatory effects of oxidized phospholipids. <i>FASEB Journal</i> , 2017, 31, 4187-4202.	0.5	14
78	Hepatocyte growth factor triggers distinct mechanisms of Asef and Tiam1 activation to induce endothelial barrier enhancement. <i>Cellular Signalling</i> , 2014, 26, 2306-2316.	3.6	12
79	Extracellular histones in lung dysfunction: a new biomarker and therapeutic target?. <i>Pulmonary Circulation</i> , 2020, 10, 1-8.	1.7	12
80	Microtubule Dynamics Control HGF-Induced Lung Endothelial Barrier Enhancement. <i>PLoS ONE</i> , 2014, 9, e105912.	2.5	12
81	TLR7 Mediates Acute Respiratory Distress Syndrome in Sepsis by Sensing Extracellular miR-146a. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2022, 67, 375-388.	2.9	12
82	Role of microtubules in attenuation of PepG-induced vascular endothelial dysfunction by atrial natriuretic peptide. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015, 1852, 104-119.	3.8	11
83	SOCS3 microtubule interaction via CLIP-170 and CLASP2 is critical for modulation of endothelial inflammation and lung injury. <i>Journal of Biological Chemistry</i> , 2021, 296, 100239.	3.4	10
84	Microtubule-dependent mechanism of anti-inflammatory effect of SOCS1 in endothelial dysfunction and lung injury. <i>FASEB Journal</i> , 2021, 35, e21388.	0.5	8
85	Contrasting effects of stored allogeneic red blood cells and their supernatants on permeability and inflammatory responses in human pulmonary endothelial cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 318, L533-L548.	2.9	6
86	Microtubules as Major Regulators of Endothelial Function: Implication for Lung Injury. <i>Frontiers in Physiology</i> , 2021, 12, 758313.	2.8	6
87	Class B Scavenger Receptors BI and BII Protect against LPS-Induced Acute Lung Injury in Mice by Mediating LPS. <i>Infection and Immunity</i> , 2021, 89, e0030121.	2.2	4
88	Oxidized phospholipids on alkyl-amide scaffold demonstrate anti-endotoxin and endothelial barrier-protective properties. <i>Free Radical Biology and Medicine</i> , 2021, 174, 264-271.	2.9	4
89	Role of End Binding Protein-1 in endothelial permeability response to barrier-disruptive and barrier-enhancing agonists. <i>Cellular Signalling</i> , 2017, 29, 1-11.	3.6	3
90	Toll-like Receptor 4 Mediates Histone Subunit H3-induced Endothelial Dysfunction in Human Lung Endothelium. <i>FASEB Journal</i> , 2022, 36, .	0.5	2

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91	GPR68 Inhibition with a Novel Group of Opiomorphin Inhibitors Upregulate Endothelial Barrier Function and Protect Against Bacterial Pathogens or Acidosis-induced Inflammation in Lung Endothelium. FASEB Journal, 2022, 36, .	0.5	1
92	Cellular Crosstalk between Pulmonary Endothelial Cells and Fibroblasts Suppresses Inflammatory and Fibrotic Responses in Acute Exacerbations of Pulmonary Fibrosis. FASEB Journal, 2018, 32, 746.5.	0.5	0