

# Jahar Bhattacharya

## List of Publications by Citations

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94  
papers

5,388  
citations

38  
h-index

73  
g-index

102  
ext. papers

6,289  
ext. citations

7.6  
avg, IF

5.44  
L-index

#	Paper	IF	Citations
94	Mitochondrial transfer from bone-marrow-derived stromal cells to pulmonary alveoli protects against acute lung injury. <i>Nature Medicine</i> , <b>2012</b> , 18, 759-65	50.5	889
93	Future research directions in acute lung injury: summary of a National Heart, Lung, and Blood Institute working group. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2003</b> , 167, 1027-35	10.2	430
92	Efficient generation of lung and airway epithelial cells from human pluripotent stem cells. <i>Nature Biotechnology</i> , <b>2014</b> , 32, 84-91	44.5	392
91	A three-dimensional model of human lung development and disease from pluripotent stem cells. <i>Nature Cell Biology</i> , <b>2017</b> , 19, 542-549	23.4	297
90	Sessile alveolar macrophages communicate with alveolar epithelium to modulate immunity. <i>Nature</i> , <b>2014</b> , 506, 503-6	50.4	250
89	Concentration-dependent inhibition of angiogenesis by mesenchymal stem cells. <i>Blood</i> , <b>2009</b> , 113, 4197-205	20.5	239
88	Regulation and repair of the alveolar-capillary barrier in acute lung injury. <i>Annual Review of Physiology</i> , <b>2013</b> , 75, 593-615	23.1	194
87	Mechanisms regulating endothelial cell barrier function. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2000</b> , 279, L419-22	5.8	184
86	Regulatory T Cells Promote Macrophage Efferocytosis during Inflammation Resolution. <i>Immunity</i> , <b>2018</b> , 49, 666-677.e6	32.3	127
85	Connexin 43 mediates spread of Ca <sup>2+</sup> -dependent proinflammatory responses in lung capillaries. <i>Journal of Clinical Investigation</i> , <b>2006</b> , 116, 2193-200	15.9	121
84	Mitochondria in lung biology and pathology: more than just a powerhouse. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2014</b> , 306, L962-74	5.8	117
83	Pressure is proinflammatory in lung venular capillaries. <i>Journal of Clinical Investigation</i> , <b>1999</b> , 104, 495-503	3.9	116
82	[Ca <sup>2+</sup> ] <sub>i</sub> oscillations regulate type II cell exocytosis in the pulmonary alveolus. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2000</b> , 279, L5-13	5.8	110
81	Mechano-oxidative coupling by mitochondria induces proinflammatory responses in lung venular capillaries. <i>Journal of Clinical Investigation</i> , <b>2003</b> , 111, 691-9	15.9	103
80	Alveolar expansion imaged by optical sectioning microscopy. <i>Journal of Applied Physiology</i> , <b>2007</b> , 103, 1037-44	3.7	94
79	Migration of fibrocytes in fibrogenic liver injury. <i>American Journal of Pathology</i> , <b>2011</b> , 179, 189-98	5.8	90
78	Red blood cells induce hypoxic lung inflammation. <i>Blood</i> , <b>2008</b> , 111, 5205-14	2.2	88

77	Ca <sup>2+</sup> waves in lung capillary endothelium. <i>Circulation Research</i> , <b>1996</b> , 79, 898-908	15.7	82
76	Micromechanics of alveolar edema. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2011</b> , 44, 34-9	5.7	81
75	A novel signaling mechanism between gas and blood compartments of the lung. <i>Journal of Clinical Investigation</i> , <b>2000</b> , 105, 905-13	15.9	78
74	Activation of TNFR1 ectodomain shedding by mitochondrial Ca <sup>2+</sup> determines the severity of inflammation in mouse lung microvessels. <i>Journal of Clinical Investigation</i> , <b>2011</b> , 121, 1986-99	15.9	73
73	Pulmonary vascular endothelium: the orchestra conductor in respiratory diseases: Highlights from basic research to therapy. <i>European Respiratory Journal</i> , <b>2018</b> , 51,	13.6	68
72	Endothelial barrier strengthening by activation of focal adhesion kinase. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 13342-9	5.4	65
71	Soluble ligands of the alpha v beta 3 integrin mediate enhanced tyrosine phosphorylation of multiple proteins in adherent bovine pulmonary artery endothelial cells. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 16781-7	5.4	62
70	Ongoing angiogenesis in blood vessels of the abdominal aortic aneurysm. <i>Experimental and Molecular Medicine</i> , <b>2004</b> , 36, 524-33	12.8	61
69	Strategic plan for lung vascular research: An NHLBI-ORDR Workshop Report. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2010</b> , 182, 1554-62	10.2	59
68	Pressure-induced endothelial Ca <sup>2+</sup> oscillations in lung capillaries. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2002</b> , 282, L917-23	5.8	59
67	Real-time lung microscopy. <i>Journal of Applied Physiology</i> , <b>2007</b> , 102, 1255-64	3.7	56
66	Mitochondrial reactive oxygen species regulate spatial profile of proinflammatory responses in lung venular capillaries. <i>Journal of Immunology</i> , <b>2002</b> , 169, 7078-86	5.3	51
65	When cells become organelle donors. <i>Physiology</i> , <b>2013</b> , 28, 414-22	9.8	50
64	Atomic force microscope elastography reveals phenotypic differences in alveolar cell stiffness. <i>Journal of Applied Physiology</i> , <b>2008</b> , 105, 652-61	3.7	50
63	Chloride-dependent secretion of alveolar wall liquid determined by optical-sectioning microscopy. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2007</b> , 36, 688-96	5.7	50
62	Live imaging of the lung. <i>Annual Review of Physiology</i> , <b>2014</b> , 76, 431-45	23.1	49
61	Hyperosmolarity enhances the lung capillary barrier. <i>Journal of Clinical Investigation</i> , <b>2003</b> , 112, 1541-9	15.9	48
60	Macrophage-epithelial interactions in pulmonary alveoli. <i>Seminars in Immunopathology</i> , <b>2016</b> , 38, 461-9	12	48

59	Ligation of endothelial alpha v beta 3 integrin increases capillary hydraulic conductivity of rat lung. <i>Circulation Research</i> , <b>1995</b> , 77, 651-9	15.7	46
58	Intercellular mitochondrial transfer: bioenergetic crosstalk between cells. <i>Current Opinion in Genetics and Development</i> , <b>2016</b> , 38, 97-101	4.9	45
57	High tidal volume ventilation induces proinflammatory signaling in rat lung endothelium. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2003</b> , 28, 218-24	5.7	41
56	alpha(v)beta(3) integrin induces tyrosine phosphorylation-dependent Ca(2+) influx in pulmonary endothelial cells. <i>Circulation Research</i> , <b>2000</b> , 86, 456-62	15.7	33
55	Inhibition of acid-induced lung injury by hyperosmolar sucrose in rats. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2005</b> , 172, 1002-7	10.2	32
54	Paracrine purinergic signaling determines lung endothelial nitric oxide production. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2009</b> , 296, L901-10	5.8	26
53	Cell therapy for lung diseases. Report from an NIH-NHLBI workshop, November 13-14, 2012. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2013</b> , 188, 370-5	10.2	24
52	Pressure-induced leukocyte margination in lung postcapillary venules. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2005</b> , 289, L407-12	5.8	24
51	Hypercapnia attenuates ventilator-induced lung injury via a disintegrin and metalloprotease-17. <i>Journal of Physiology</i> , <b>2014</b> , 592, 4507-21	3.9	21
50	Erythrocytes induce proinflammatory endothelial activation in hypoxia. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2013</b> , 48, 78-86	5.7	19
49	Disruption of staphylococcal aggregation protects against lethal lung injury. <i>Journal of Clinical Investigation</i> , <b>2018</b> , 128, 1074-1086	15.9	19
48	Pulmonary surfactant and drug delivery: Vehiculization, release and targeting of surfactant/tacrolimus formulations. <i>Journal of Controlled Release</i> , <b>2021</b> , 329, 205-222	11.7	17
47	Platelets induce endothelial tissue factor expression in a mouse model of acid-induced lung injury. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2012</b> , 302, L1209-20	5.8	12
46	Microvascular pressures in the isolated, perfused dog lung: comparison between theory and measurement. <i>Microvascular Research</i> , <b>1982</b> , 23, 67-76	3.7	12
45	F-actin scaffold stabilizes lamellar bodies during surfactant secretion. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2014</b> , 306, L50-7	5.8	11
44	Interpreting the lung microvascular filtration coefficient. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2007</b> , 293, L9-L10	5.8	11
43	Cadherin selectivity filter regulates endothelial sieving properties. <i>Nature Communications</i> , <b>2012</b> , 3, 1099	7.4	9
42	Factors affecting lung microvascular pressure. <i>Annals of the New York Academy of Sciences</i> , <b>1982</b> , 384, 107-14	6.5	9

41	Modulation of the NLRP3 inflammasome by Sars-CoV-2 Envelope protein.. <i>Scientific Reports</i> , <b>2021</b> , 11, 24432	4.9	9
40	ITF1697, a stable Lys-Pro-containing peptide, inhibits weibel-palade body exocytosis induced by ischemia/reperfusion and pressure elevation. <i>Molecular Medicine</i> , <b>2007</b> , 13, 615-24	6.2	8
39	Localized acid instillation by a wedged-catheter method reveals a role for vascular gap junctions in spatial expansion of acid injury. <i>Anatomical Record</i> , <b>2011</b> , 294, 1585-91	2.1	7
38	Lung injury: sphingosine-1-phosphate to the rescue. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2004</b> , 170, 928-9	10.2	5
37	Gene therapy for pulmonary edema. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2000</b> , 22, 640-1	5.7	4
36	The Pulmonary Microcirculation <b>2008</b> , 712-734		2
35	Alveolocapillary cross-talk: Giles F. Filley lecture. <i>Chest</i> , <b>2005</b> , 128, 553S-555S	5.3	2
34	Lung capillaries raise the hypoxia alarm. <i>Journal of Clinical Investigation</i> , <b>2012</b> , 122, 3845-7	15.9	2
33	Higher estimate of lung microvascular fluid production. <i>Acta Physiologica</i> , <b>2006</b> , 188, 75-75	5.6	1
32	Molecular programs of fibrotic change in aging human lung. <i>Nature Communications</i> , <b>2021</b> , 12, 6309	17.4	1
31	ATP induces alveolar/capillary cross talk in the lung. <i>FASEB Journal</i> , <b>2006</b> , 20, LB40	0.9	
30	Capillary Ca <sup>2+</sup> increase induces venular P-selectin expression in lung. <i>FASEB Journal</i> , <b>2006</b> , 20, A752	0.9	
29	Ca <sup>2+</sup> communication through connexin 43 in lung capillaries. <i>FASEB Journal</i> , <b>2006</b> , 20, A275	0.9	
28	Hyperosmolar sucrose protects against acid-induced lung injury in awake rats. <i>FASEB Journal</i> , <b>2006</b> , 20, LB40	0.9	
27	Lung endothelial barrier restoration by interactions of E-cadherin and focal adhesion kinase. <i>FASEB Journal</i> , <b>2006</b> , 20, A752	0.9	
26	Red blood cells induce lung inflammation in hypoxia. <i>FASEB Journal</i> , <b>2007</b> , 21, A1204	0.9	
25	Bone marrow stromal cells cause collapse of neocapillary networks in vitro. <i>FASEB Journal</i> , <b>2007</b> , 21, A1427	0.9	
24	Hyperosmolar sucrose treatment of acid-induced lung injury in FRNK-transfected mice. <i>FASEB Journal</i> , <b>2007</b> , 21, A555	0.9	

- 23 Impaired mitochondrial Ca<sup>2+</sup> dynamics in lipopolysaccharide-treated lungs. *FASEB Journal*, **2007**, 21, A550 0.9
- 22 Tissue conduction of acid-induced lung injury. *FASEB Journal*, **2007**, 21, A555 0.9
- 21 Quantification of lung microvascular permeability by two-photon microscopy. *FASEB Journal*, **2007**, 21, A554 0.9
- 20 Profile of E-cadherin mobility in the endothelial junction. *FASEB Journal*, **2008**, 22, 964.33 0.9
- 19 Intravascular Delivery of TAT-conjugated Focal Adhesion Kinase Protects against Acute Lung Injury. *FASEB Journal*, **2019**, 33, 846.2 0.9
- 18 Optical Determination of Age-Related Changes in Subpleural Collagen of Live Human Lungs. *FASEB Journal*, **2020**, 34, 1-1 0.9
- 17 A Potential Role for Regulatory T Cells in Apoptotic Cell Clearance by Macrophages in a Murine Model of Acute Lung Injury. *FASEB Journal*, **2015**, 29, 148.3 0.9
- 16 Focal actin tethering regulates E-cadherin mobility in lung microvascular endothelial cells. *FASEB Journal*, **2009**, 23, 964.5 0.9
- 15 Lung microvascular mitochondria regulate TNF $\alpha$ -induced TNFR1 shedding. *FASEB Journal*, **2009**, 23, 1023.6.9
- 14 Mitochondria determine TNF $\alpha$ -receptor distribution in lung microvessels. *FASEB Journal*, **2009**, 23, 594.20.0.9
- 13 Red blood cell-induced proinflammatory lung endothelial signaling in hypoxia. *FASEB Journal*, **2009**, 23, 1023.4 0.9
- 12 Endothelial TNFR1 shedding by mitochondria. *FASEB Journal*, **2010**, 24, 777.9 0.9
- 11 TNFR1 shedding by mitochondrial RISP in lung microvascular endothelium. *FASEB Journal*, **2010**, 24, 797.8.9
- 10 Actin tethering in endothelial junctions. *FASEB Journal*, **2010**, 24, 598.10 0.9
- 9 E-cadherin ectodomains determine protein sieving properties of the endothelial barrier. *FASEB Journal*, **2011**, 25, 1101.4 0.9
- 8 Alveolar acid transiently permeabilizes the alveolar epithelium in mouse lungs. *FASEB Journal*, **2011**, 25, 865.7 0.9
- 7 Motility of alveolar mitochondria. *FASEB Journal*, **2011**, 25, 865.8 0.9
- 6 Intracellular delivery of activated focal adhesion kinase - a novel therapeutic strategy for acute lung injury. *FASEB Journal*, **2011**, 25, 1101.6 0.9

- 5 First detection of Ca<sup>2+</sup> responses in alveolar macrophages in situ. *FASEB Journal*, **2012**, 26, 1063.16 0.9
- 4 Cadherin ectodomains and cadherin-actin linkages regulate the endothelial barrier. *FASEB Journal*, **2012**, 26, 1063.3 0.9
- 3 First determination of ATP in alveolar epithelium in situ, effect of mesenchymal stem cells. *FASEB Journal*, **2012**, 26, 1063.15 0.9
- 2 Cell-specific expression of alveolar TNFR1. *FASEB Journal*, **2012**, 26, 1063.14 0.9
- 1 Synchronized activation of alveolar macrophages determined by live alveolar imaging. *FASEB Journal*, **2013**, 27, 914.5 0.9