

Troy Stevens

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

127
papers

4,336
citations

42
h-index

64
g-index

140
ext. papers

4,764
ext. citations

4.2
avg, IF

5.27
L-index

#	Paper	IF	Citations
127	Structural and functional characteristics of lung macro- and microvascular endothelial cell phenotypes. <i>Microvascular Research</i> , 2004 , 67, 139-51	3.7	207
126	Development and pathology of pulmonary hypertension. <i>Journal of the American College of Cardiology</i> , 2009 , 54, S3-S9	15.1	205
125	The actin cytoskeleton in endothelial cell phenotypes. <i>Microvascular Research</i> , 2009 , 77, 53-63	3.7	192
124	The cancer paradigm of severe pulmonary arterial hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2008 , 178, 558-64	10.2	189
123	Mechanisms regulating endothelial cell barrier function. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2000 , 279, L419-22	5.8	184
122	Critical role for lactate dehydrogenase A in aerobic glycolysis that sustains pulmonary microvascular endothelial cell proliferation. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2010 , 299, L513-22	5.8	107
121	Downregulation of endothelin-1 by farnesoid X receptor in vascular endothelial cells. <i>Circulation Research</i> , 2006 , 98, 192-9	15.7	107
120	On lung endothelial cell heterogeneity. <i>Microvascular Research</i> , 2004 , 68, 1-12	3.7	102
119	Paradoxical cAMP-induced lung endothelial hyperpermeability revealed by <i>Pseudomonas aeruginosa</i> ExoY. <i>Circulation Research</i> , 2004 , 95, 196-203	15.7	91
118	Activation of the endothelial store-operated ISOC Ca ²⁺ channel requires interaction of protein 4.1 with TRPC4. <i>Circulation Research</i> , 2005 , 97, 1164-72	15.7	90
117	Soluble adenylyl cyclase reveals the significance of cAMP compartmentation on pulmonary microvascular endothelial cell barrier. <i>Circulation Research</i> , 2006 , 98, 675-81	15.7	88
116	Activated leukocyte cell adhesion molecule is a component of the endothelial junction involved in transendothelial monocyte migration. <i>FEBS Letters</i> , 2006 , 580, 2637-45	3.8	88
115	A view through the clouds of imprinting. <i>FASEB Journal</i> , 2001 , 15, 1677	0.9	88
114	Dominant regulation of interendothelial cell gap formation by calcium-inhibited type 6 adenylyl cyclase. <i>Journal of Cell Biology</i> , 2002 , 157, 1267-78	7.3	87
113	Signal transduction and regulation of lung endothelial cell permeability. Interaction between calcium and cAMP. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 1998 , 275, L203-22	5.8	85
112	Cav3.1 (alpha1G) T-type Ca ²⁺ channels mediate vaso-occlusion of sickled erythrocytes in lung microcirculation. <i>Circulation Research</i> , 2003 , 93, 346-53	15.7	75
111	Store-operated calcium entry promotes shape change in pulmonary endothelial cells expressing Trp1. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 1998 , 275, L574-82	5.8	74

110	Lung vascular cell heterogeneity: endothelium, smooth muscle, and fibroblasts. <i>Proceedings of the American Thoracic Society</i> , 2008 , 5, 783-91		72
109	On the endothelial cell I(SOC). <i>Cell Calcium</i> , 2003 , 33, 323-36	4	70
108	Human pulmonary microvascular endothelial cells support productive replication of highly pathogenic avian influenza viruses: possible involvement in the pathogenesis of human H5N1 virus infection. <i>Journal of Virology</i> , 2012 , 86, 667-78	6.6	69
107	<i>Pseudomonas aeruginosa</i> exotoxin Y is a promiscuous cyclase that increases endothelial tau phosphorylation and permeability. <i>Journal of Biological Chemistry</i> , 2012 , 287, 25407-18	5.4	68
106	Paired-related homeobox gene Prx1 is required for pulmonary vascular development. <i>Circulation Research</i> , 2004 , 94, 1507-14	15.7	67
105	Essential role of a Ca ²⁺ -selective, store-operated current (ISOC) in endothelial cell permeability: determinants of the vascular leak site. <i>Circulation Research</i> , 2005 , 96, 856-63	15.7	67
104	Functional and molecular heterogeneity of pulmonary endothelial cells. <i>Proceedings of the American Thoracic Society</i> , 2011 , 8, 453-7		65
103	Hydraulic conductance of pulmonary microvascular and macrovascular endothelial cell monolayers. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2006 , 291, L30-7	5.8	65
102	Control of cAMP in lung endothelial cell phenotypes. Implications for control of barrier function. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 1999 , 277, L119-26	5.8	63
101	Essential control of an endothelial cell ISOC by the spectrin membrane skeleton. <i>Journal of Cell Biology</i> , 2001 , 154, 1225-33	7.3	62
100	Transmembrane proteoglycans control stretch-activated channels to set cytosolic calcium levels. <i>Journal of Cell Biology</i> , 2015 , 210, 1199-211	7.3	61
99	Lung microvascular and arterial endothelial cells differ in their responses to intercellular adhesion molecule-1 ligation. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2002 , 166, 872-7	10.2	60
98	Orai1 determines calcium selectivity of an endogenous TRPC heterotetramer channel. <i>Circulation Research</i> , 2012 , 110, 1435-44	15.7	59
97	Strategic plan for lung vascular research: An NHLBI-ORDR Workshop Report. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2010 , 182, 1554-62	10.2	59
96	TRPing on the lung endothelium: calcium channels that regulate barrier function. <i>Antioxidants and Redox Signaling</i> , 2009 , 11, 765-76	8.4	58
95	Regulation of endothelial cell barrier function by store-operated calcium entry. <i>Microcirculation</i> , 2006 , 13, 709-23	2.9	57
94	Segmental regulation of pulmonary vascular permeability by store-operated Ca ²⁺ entry. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 1999 , 276, L41-50	5.8	56
93	The <i>Pseudomonas aeruginosa</i> exoenzyme Y impairs endothelial cell proliferation and vascular repair following lung injury. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014 , 306, L915-24	5.8	52

92	Heterogeneity of barrier function in the lung reflects diversity in endothelial cell junctions. <i>Microvascular Research</i> , 2008 , 75, 391-402	3.7	50
91	Pulmonary function and hypoxic ventilatory response in subjects susceptible to high-altitude pulmonary edema. <i>Chest</i> , 1993 , 103, 111-6	5.3	50
90	Coordinate regulation of membrane cAMP by Ca ²⁺ -inhibited adenylyl cyclase and phosphodiesterase activities. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2003 , 284, L100-7	5.8	48
89	Cyclic nucleotide-gated channels mediate membrane depolarization following activation of store-operated calcium entry in endothelial cells. <i>Journal of Biological Chemistry</i> , 2000 , 275, 18887-96	5.4	48
88	Molecular and cellular determinants of lung endothelial cell heterogeneity. <i>Chest</i> , 2005 , 128, 558S-564S	5.3	47
87	New developments in lung endothelial heterogeneity: Von Willebrand factor, P-selectin, and the Weibel-Palade body. <i>Seminars in Thrombosis and Hemostasis</i> , 2010 , 36, 301-8	5.3	46
86	Studies on the cell biology of interendothelial cell gaps. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2012 , 302, L275-86	5.8	41
85	Spectrin-anchored phosphodiesterase 4D4 restricts cAMP from disrupting microtubules and inducing endothelial cell gap formation. <i>Journal of Cell Science</i> , 2008 , 121, 110-9	5.3	41
84	Perivascular fluid cuffs decrease lung compliance by increasing tissue resistance. <i>Critical Care Medicine</i> , 2010 , 38, 1458-66	1.4	40
83	Phenotypic heterogeneity in lung capillary and extra-alveolar endothelial cells. Increased extra-alveolar endothelial permeability is sufficient to decrease compliance. <i>Journal of Surgical Research</i> , 2007 , 143, 70-7	2.5	37
82	<i>Pseudomonas aeruginosa</i> exotoxin Y-mediated tau hyperphosphorylation impairs microtubule assembly in pulmonary microvascular endothelial cells. <i>PLoS ONE</i> , 2013 , 8, e74343	3.7	34
81	Store-operated calcium entry channels in pulmonary endothelium: the emerging story of TRPCS and Orai1. <i>Advances in Experimental Medicine and Biology</i> , 2010 , 661, 137-54	3.6	33
80	Receptor-dependent activation of store-operated calcium entry increases endothelial cell permeability. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2000 , 279, L691-8	5.8	33
79	TRPC4 inactivation confers a survival benefit in severe pulmonary arterial hypertension. <i>American Journal of Pathology</i> , 2013 , 183, 1779-1788	5.8	31
78	Filamin A is a phosphorylation target of membrane but not cytosolic adenylyl cyclase activity. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2011 , 301, L117-24	5.8	31
77	Microtubule motors regulate ISOC activation necessary to increase endothelial cell permeability. <i>Journal of Biological Chemistry</i> , 2007 , 282, 34801-8	5.4	29
76	Soluble adenylyl cyclase-dependent microtubule disassembly reveals a novel mechanism of endothelial cell retraction. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2009 , 297, L73-83	5.8	27
75	<i>Pseudomonas aeruginosa</i> exoenzymes U and Y induce a transmissible endothelial proteinopathy. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016 , 310, L337-53	5.8	25

74	Lactate dehydrogenase a expression is necessary to sustain rapid angiogenesis of pulmonary microvascular endothelium. <i>PLoS ONE</i> , 2013 , 8, e75984	3.7	24
73	Endothelial hyperpermeability in severe pulmonary arterial hypertension: role of store-operated calcium entry. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016 , 311, L560-9	5.8	24
72	Cold exposure reveals two populations of microtubules in pulmonary endothelia. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2011 , 300, L132-8	5.8	23
71	Sodium entry through endothelial store-operated calcium entry channels: regulation by Orai1. <i>American Journal of Physiology - Cell Physiology</i> , 2015 , 308, C277-88	5.4	20
70	Cell-surface protein disulfide isomerase is required for transnitrosation of metallothionein by S-nitroso-albumin in intact rat pulmonary vascular endothelial cells. <i>Experimental Biology and Medicine</i> , 2006 , 231, 1507-15	3.7	20
69	Stat3 activity is required for centrosome duplication in chinese hamster ovary cells. <i>Journal of Biological Chemistry</i> , 2004 , 279, 41801-6	5.4	19
68	infection liberates transmissible, cytotoxic prion amyloids. <i>FASEB Journal</i> , 2017 , 31, 2785-2796	0.9	18
67	The Pseudomonas aeruginosa Exoenzyme Y: A Promiscuous Nucleotidyl Cyclase Edema Factor and Virulence Determinant. <i>Handbook of Experimental Pharmacology</i> , 2017 , 238, 67-85	3.2	17
66	Transient Receptor Potential Channel 4 Encodes a Vascular Permeability Defect and High-Frequency Ca(2+) Transients in Severe Pulmonary Arterial Hypertension. <i>American Journal of Pathology</i> , 2016 , 186, 1701-9	5.8	14
65	A unique pulmonary microvascular endothelial cell niche revealed by Weibel-Palade bodies and Griffonia simplicifolia. <i>Pulmonary Circulation</i> , 2014 , 4, 110-5	2.7	14
64	Single cell cloning generates lung endothelial colonies with conserved growth, angiogenic, and bioenergetic characteristics. <i>Pulmonary Circulation</i> , 2017 , 7, 777-792	2.7	13
63	The Effect of Hypoxia on Endothelial Cell Function. <i>Endothelium: Journal of Endothelial Cell Research</i> , 1995 , 3, 1-11		13
62	Extrinsic acidosis suppresses glycolysis and migration while increasing network formation in pulmonary microvascular endothelial cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2019 , 317, L188-L201	5.8	12
61	Virulent Pseudomonas aeruginosa infection converts antimicrobial amyloids into cytotoxic prions. <i>FASEB Journal</i> , 2020 , 34, 9156-9179	0.9	11
60	Carbonic anhydrase IX is a critical determinant of pulmonary microvascular endothelial cell pH regulation and angiogenesis during acidosis. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2018 , 315, L41-L51	5.8	10
59	The extracellular matrix microenvironment specifies pulmonary endothelial cell identity: roles of tenascin-C and RhoA. <i>Chest</i> , 2005 , 128, 564S	5.3	10
58	Nosocomial Pneumonia Elicits an Endothelial Proteinopathy: Evidence for a Source of Neurotoxic Amyloids in Critically Ill Patients. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018 , 198, 1575-1578	10.2	10
57	Exoenzyme Y Contributes to End-Organ Dysfunction Caused by Pneumonia in Critically Ill Patients: An Exploratory Study. <i>Toxins</i> , 2020 , 12,	4.9	9

56	Infection-induced endothelial amyloids impair memory. <i>FASEB Journal</i> , 2019 , 33, 10300-10314	0.9	8
55	Pulmonary vascular dysfunction secondary to pulmonary arterial hypertension: insights gained through retrograde perfusion. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2018 , 314, L835-L845	5.8	7
54	Putative role for a myosin motor in store-operated calcium entry. <i>Cell Biochemistry and Biophysics</i> , 2002 , 37, 53-70	3.2	7
53	Regulation of pulmonary endothelial cell shape by Trp-mediated calcium entry. <i>Chest</i> , 1998 , 114, 36S-38S	5.3	7
52	Exoenzyme Y induces extracellular active caspase-7 accumulation independent from apoptosis: modulation of transmissible cytotoxicity. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020 , 319, L380-L390	5.8	6
51	Vitamin E Attenuates the Severity of α -naphthylthiourea-induced Pneumonia. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020 , 63, 234-243	5.7	6
50	Methods for Detecting Cytotoxic Amyloids Following Infection of Pulmonary Endothelial Cells by <i>Pseudomonas aeruginosa</i> . <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	5
49	Biventricular diastolic dysfunction, thrombocytopenia, and red blood cell macrocytosis in experimental pulmonary arterial hypertension. <i>Pulmonary Circulation</i> , 2020 , 10, 2045894020908787	2.7	4
48	Development of an endothelial cell-restricted transgenic reporter rat: a resource for physiological studies of vascular biology. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020 , 319, H349-H358	5.2	4
47	Unleashing shear: Role of intercellular traction and cellular moments in collective cell migration. <i>Biochemical and Biophysical Research Communications</i> , 2020 , 522, 279-285	3.4	4
46	Pneumonia initiates a tauopathy. <i>FASEB Journal</i> , 2021 , 35, e21807	0.9	4
45	Pneumonia-induced endothelial amyloids reduce dendritic spine density in brain neurons. <i>Scientific Reports</i> , 2020 , 10, 9327	4.9	3
44	KD025 Shifts Pulmonary Endothelial Cell Bioenergetics and Decreases Baseline Lung Permeability. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020 , 63, 519-530	5.7	3
43	The role of endothelial leak in pulmonary hypertension (2017 Grover Conference Series). <i>Pulmonary Circulation</i> , 2018 , 8, 2045894018798569	2.7	3
42	Ca ²⁺ dependence of mechanical injury to lung capillaries. <i>Journal of Applied Physiology</i> , 1999 , 86, 775-6	3.7	3
41	Mechanical signaling in a pulmonary microvascular endothelial cell monolayer. <i>Biochemical and Biophysical Research Communications</i> , 2019 , 519, 337-343	3.4	2
40	Lung Endothelium. <i>Colloquium Series on Integrated Systems Physiology From Molecule To Function</i> , 2015 , 7, 1-66		2
39	Chapter 5 Adenylyl cyclase and cAMP regulation of the endothelial barrier. <i>Advances in Molecular and Cell Biology</i> , 2005 , 35, 139-164		2

38	On resolving the molecular identity of the endothelial cell nucleosome assembly protein. <i>FASEB Journal</i> , 2007 , 21, A1433	0.9	2
37	Impact of Na ⁺ permeation on collective migration of pulmonary arterial endothelial cells. <i>PLoS ONE</i> , 2021 , 16, e0250095	3.7	2
36	A cancer amidst us: the plexiform lesion in pulmonary arterial hypertension. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020 , 318, L1142-L1144	5.8	1
35	Cytotoxic tau released from lung microvascular endothelial cells upon infection with <i>Pseudomonas aeruginosa</i> promotes neuronal tauopathy.. <i>Journal of Biological Chemistry</i> , 2021 , 298, 101482	5.4	1
34	exoY increases <i>Pseudomonas aeruginosa</i> virulence. <i>FASEB Journal</i> , 2008 , 22, 928.6	0.9	1
33	Subunit stoichiometry of the endogenous endothelial ISOC channel in the pulmonary microcirculation. <i>FASEB Journal</i> , 2009 , 23, 964.12	0.9	1
32	Cystatin C regulates the cytotoxicity of infection-induced endothelial-derived amyloid. <i>FEBS Open Bio</i> , 2020 , 10, 2464-2477	2.7	1
31	Endothelial metabolism in pulmonary vascular homeostasis and acute respiratory distress syndrome. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2021 , 321, L358-L376	5.8	1
30	Chapter 10 Heterogeneity of lung endothelial cells. <i>Advances in Molecular and Cell Biology</i> , 2005 , 35, 277-310		0
29	Carbonic Anhydrase IX and Hypoxia Promote Rat Pulmonary Endothelial Cell Survival during Infection. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2021 , 65, 630-645	5.7	0
28	Heterogeneity of Endothelial Sheet Migration: Role in Angiogenic Plasticity.. <i>Blood</i> , 2005 , 106, 3692-3692.		2
27	Control of Store Operated Calcium Entry by the Spectrin Membrane Skeleton. <i>FASEB Journal</i> , 2006 , 20, A869	0.9	
26	Association of cAMP phosphodiesterase with microtubule binding proteins in pulmonary endothelium: the PKA-mediated phosphorylation of Tau and MAP4. <i>FASEB Journal</i> , 2006 , 20, A1164	0.9	
25	Disruption of spectrin-f-actin binding is sufficient to induce inter-endothelial gaps. <i>FASEB Journal</i> , 2006 , 20, A748	0.9	
24	Disruption of the proline rich region/protein 4.1 binding domain on the endothelial Isoc channel inhibits intercellular gap formation. <i>FASEB Journal</i> , 2006 , 20, A748	0.9	
23	Subunit stoichiometry of the endothelial ISOC channel. <i>FASEB Journal</i> , 2007 , 21, A1432	0.9	
22	Adenylyl cyclase 5/6 colocalizes with TRPC4 and cell adhesion molecules to caveolin-enriched fractions of pulmonary microvascular endothelial cells (PMVECs). <i>FASEB Journal</i> , 2007 , 21, A1431	0.9	
21	Cyclic AMP Phosphodiesterase 4D4 Expression in Lung Endothelium is a Determinant of Cell Phenotype. <i>FASEB Journal</i> , 2007 , 21, A1433	0.9	

20	Adenosine Monophosphate Kinase (AMPK) Expression in the Normoxic and Hypoxic Lung. <i>FASEB Journal</i> , 2007 , 21, A1436	0.9
19	Increased extra-alveolar vessel permeability decreases dynamic compliance in intubated rats. <i>FASEB Journal</i> , 2007 , 21, A557	0.9
18	Apical secretion of collagen II from endothelial cells precedes blood vessel formation during postnatal vasculogenesis. <i>FASEB Journal</i> , 2008 , 22, 1178.13	0.9
17	The pulmonary microvascular endothelial cell glycocalyx includes sialic acid important for endothelial barrier function. <i>FASEB Journal</i> , 2008 , 22, 1178.15	0.9
16	Mitochondria's Role in Store-Operated Calcium Entry. <i>FASEB Journal</i> , 2008 , 22, 964.25	0.9
15	Resolution of the subunit stoichiometry of the endogenous endothelial ISOC channel. <i>FASEB Journal</i> , 2008 , 22, 1178.16	0.9
14	Calcium phosphate complexation in ISOC channel inactivation. <i>FASEB Journal</i> , 2008 , 22, 1178.17	0.9
13	Bicarbonate Regulation of Intracellular cAMP in Pulmonary Endothelial Cells. <i>FASEB Journal</i> , 2008 , 22, 1178.14	0.9
12	Activation of Store-Operated Calcium Entry Channels Stably Increases Membrane-Localized Calcium. <i>FASEB Journal</i> , 2008 , 22, 964.27	0.9
11	Resolving tractions across cell-cell adhesion reveals the role of intercellular shear in plithotaxis. <i>FASEB Journal</i> , 2019 , 33, lb593	0.9
10	Rho-kinase Mediates Biventricular Coronary Arterial Remodeling During Pulmonary Arterial Hypertension in Fischer 344 Rats. <i>FASEB Journal</i> , 2015 , 29, 953.1	0.9
9	Selective targeting of cAMP signaling components and adhesion molecules to caveolin-enriched fractions of pulmonary microvascular endothelial cells (PMVECs). <i>FASEB Journal</i> , 2009 , 23, 815.3	0.9
8	Efficient combinatorial approach to isolating rat pulmonary endothelial cell phenotypes. <i>FASEB Journal</i> , 2009 , 23, 1024.3	0.9
7	<i>P. aeruginosa</i> ExoY Increases Lung Endothelial Permeability with a Concomitant Decrease in Lung Vascular Compliance. <i>FASEB Journal</i> , 2009 , 23, 1024.11	0.9
6	<i>P. aeruginosa</i> ExoY Disrupts Microtubules and Induces Endothelial Cell Gap Formation. <i>FASEB Journal</i> , 2009 , 23, 964.10	0.9
5	Essential role of lactate in controlling the rapid proliferation of pulmonary microvascular endothelial cells. <i>FASEB Journal</i> , 2009 , 23, 1024.12	0.9
4	The Isoc Channel is a Critical Determinant of Interendothelial Gap Formation. <i>FASEB Journal</i> , 2009 , 23, 964.7	0.9
3	Orai1 interacts with the endogenous endothelial ISOC channel both constitutively and dynamically. <i>FASEB Journal</i> , 2009 , 23, 964.11	0.9

- 2 Pulmonary vein endothelial cells (PVECs) exhibit characteristics of multiple lung endothelial cell phenotypes. *FASEB Journal*, **2010**, 24, 797.13 0.9
- 1 Lung Endothelial Phenotypes: Insights Derived from the Systematic Study of Calcium Channels 129-142