

# Steven M Dudek

## List of Publications by Year in descending order

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85  
papers

4,905  
citations

101496

36  
h-index

91828

69  
g-index

85  
all docs

85  
docs citations

85  
times ranked

4856  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cytoskeletal regulation of pulmonary vascular permeability. <i>Journal of Applied Physiology</i> , 2001, 91, 1487-1500.	1.2	892
2	Activated Protein C Mediates Novel Lung Endothelial Barrier Enhancement. <i>Journal of Biological Chemistry</i> , 2005, 280, 17286-17293.	1.6	349
3	Pulmonary Endothelial Cell Barrier Enhancement by Sphingosine 1-Phosphate. <i>Journal of Biological Chemistry</i> , 2004, 279, 24692-24700.	1.6	271
4	Regulation of sphingosine 1-phosphate-induced endothelial cytoskeletal rearrangement and barrier enhancement by S1P 1 receptor, PI3 kinase, Tiam1/Rac1, and $\alpha$ -actinin. <i>FASEB Journal</i> , 2005, 19, 1646-1656.	0.2	265
5	Transactivation of Sphingosine 1-Phosphate Receptors Is Essential for Vascular Barrier Regulation. <i>Journal of Biological Chemistry</i> , 2006, 281, 34381-34393.	1.6	169
6	Differential Effects of Sphingosine 1-Phosphate Receptors on Airway and Vascular Barrier Function in the Murine Lung. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2010, 43, 394-402.	1.4	150
7	Regulation of vascular permeability by sphingosine 1-phosphate. <i>Microvascular Research</i> , 2009, 77, 39-45.	1.1	149
8	Cytoskeletal Activation and Altered Gene Expression in Endothelial Barrier Regulation by Simvastatin. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2004, 30, 662-670.	1.4	144
9	Sphingosine-1-Phosphate, FTY720, and Sphingosine-1-Phosphate Receptors in the Pathobiology of Acute Lung Injury. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2013, 49, 6-17.	1.4	127
10	Arachidonic acid cascade in endothelial pathobiology. <i>Microvascular Research</i> , 2005, 69, 107-127.	1.1	107
11	Abl Tyrosine Kinase Phosphorylates Nonmuscle Myosin Light Chain Kinase to Regulate Endothelial Barrier Function. <i>Molecular Biology of the Cell</i> , 2010, 21, 4042-4056.	0.9	101
12	Novel interaction of cortactin with endothelial cell myosin light chain kinase. <i>Biochemical and Biophysical Research Communications</i> , 2002, 298, 511-519.	1.0	91
13	DPP4 inhibition by sitagliptin attenuates LPS-induced lung injury in mice. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2018, 315, L834-L845.	1.3	89
14	Endothelial cell barrier enhancement by ATP is mediated by the small GTPase Rac and cortactin. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2006, 291, L289-L295.	1.3	83
15	Enhanced interaction between focal adhesion and adherens junction proteins: Involvement in sphingosine 1-phosphate-induced endothelial barrier enhancement. <i>Microvascular Research</i> , 2009, 77, 304-313.	1.1	79
16	Endothelial permeability is controlled by spatially defined cytoskeletal mechanics: Atomic force microscopy force mapping of pulmonary endothelial monolayer. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2009, 5, 30-41.	1.7	77
17	Role of c-Met/Phosphatidylinositol 3-Kinase (PI3k)/Akt Signaling in Hepatocyte Growth Factor (HGF)-mediated Lamellipodia Formation, Reactive Oxygen Species (ROS) Generation, and Motility of Lung Endothelial Cells. <i>Journal of Biological Chemistry</i> , 2014, 289, 13476-13491.	1.6	73
18	Imatinib attenuates inflammation and vascular leak in a clinically relevant two-hit model of acute lung injury. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015, 309, L1294-L1304.	1.3	72

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19	Non-muscle Myosin Light Chain Kinase Isoform Is a Viable Molecular Target in Acute Inflammatory Lung Injury. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2011, 44, 40-52.	1.4	69
20	Pathologic Mechanical Stress and Endotoxin Exposure Increases Lung Endothelial Microparticle Shedding. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2015, 52, 193-204.	1.4	68
21	Targeting Abl Kinases to Regulate Vascular Leak During Sepsis and Acute Respiratory Distress Syndrome. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 1071-1079.	1.1	64
22	Regulation of Hyperoxia-induced NADPH Oxidase Activation in Human Lung Endothelial Cells by the Actin Cytoskeleton and Cortactin. <i>Journal of Biological Chemistry</i> , 2007, 282, 23284-23295.	1.6	63
23	Secretory group V phospholipase A <sub>2</sub> regulates acute lung injury and neutrophilic inflammation caused by LPS in mice. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2009, 296, L879-L887.	1.3	60
24	Regulation of the Micromechanical Properties of Pulmonary Endothelium by S1P and Thrombin: Role of Cortactin. <i>Biophysical Journal</i> , 2008, 95, 886-894.	0.2	58
25	Ezrin/radixin/moesin proteins differentially regulate endothelial hyperpermeability after thrombin. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2013, 305, L240-L255.	1.3	58
26	Role of sphingolipids in murine radiation-induced lung injury: protection by sphingosine 1-phosphate analogs. <i>FASEB Journal</i> , 2011, 25, 3388-3400.	0.2	57
27	Phosphotyrosine protein dynamics in cell membrane rafts of sphingosine-1-phosphate-stimulated human endothelium: Role in barrier enhancement. <i>Cellular Signalling</i> , 2009, 21, 1945-1960.	1.7	53
28	Endothelial eNAMPT amplifies pre-clinical acute lung injury: efficacy of an eNAMPT-neutralising monoclonal antibody. <i>European Respiratory Journal</i> , 2021, 57, 2002536.	3.1	53
29	Role of FAK in S1P-regulated endothelial permeability. <i>Microvascular Research</i> , 2012, 83, 22-30.	1.1	52
30	Differential involvement of ezrin/radixin/moesin proteins in sphingosine 1-phosphate-induced human pulmonary endothelial cell barrier enhancement. <i>Cellular Signalling</i> , 2011, 23, 2086-2096.	1.7	49
31	Quantitative distribution and colocalization of non-muscle myosin light chain kinase isoforms and cortactin in human lung endothelium. <i>Microvascular Research</i> , 2010, 80, 75-88.	1.1	45
32	FTY720 (S)-Phosphonate Preserves Sphingosine 1-Phosphate Receptor 1 Expression and Exhibits Superior Barrier Protection to FTY720 in Acute Lung Injury. <i>Critical Care Medicine</i> , 2014, 42, e189-e199.	0.4	45
33	Protective effects of high-molecular weight Polyethylene Glycol (PEG) in human lung endothelial cell barrier regulation: Role of actin cytoskeletal rearrangement. <i>Microvascular Research</i> , 2009, 77, 174-186.	1.1	43
34	Functional promoter variants in sphingosine 1-phosphate receptor 3 associate with susceptibility to sepsis-associated acute respiratory distress syndrome. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2013, 305, L467-L477.	1.3	43
35	Novel Role for Non-muscle Myosin Light Chain Kinase (MLCK) in Hyperoxia-induced Recruitment of Cytoskeletal Proteins, NADPH Oxidase Activation, and Reactive Oxygen Species Generation in Lung Endothelium. <i>Journal of Biological Chemistry</i> , 2012, 287, 9360-9375.	1.6	42
36	Angiocrine Sphingosine-1-Phosphate Activation of S1PR2-YAP Signaling Axis in Alveolar Type II Cells Is Essential for Lung Repair. <i>Cell Reports</i> , 2020, 31, 107828.	2.9	38

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37	Parkin regulates lipopolysaccharide-induced proinflammatory responses in acute lung injury. <i>Translational Research</i> , 2017, 181, 71-82.	2.2	36
38	Cortical Actin Dynamics in Endothelial Permeability. <i>Current Topics in Membranes</i> , 2018, 82, 141-195.	0.5	35
39	Role of Growth Arrest and DNA Damage-inducible $\hat{1}$ in Akt Phosphorylation and Ubiquitination after Mechanical Stress-induced Vascular Injury. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2011, 184, 1030-1040.	2.5	33
40	Interaction of cortactin and Arp2/3 complex is required for sphingosine-1-phosphate-induced endothelial cell remodeling. <i>Experimental Cell Research</i> , 2004, 298, 107-121.	1.2	32
41	Nano-Biomechanical Study of Spatio-Temporal Cytoskeleton Rearrangements that Determine Subcellular Mechanical Properties and Endothelial Permeability. <i>Scientific Reports</i> , 2015, 5, 11097.	1.6	31
42	Loss of Cystic Fibrosis Transmembrane Conductance Regulator Impairs Lung Endothelial Cell Barrier Function and Increases Susceptibility to Microvascular Damage from Cigarette Smoke. <i>Pulmonary Circulation</i> , 2014, 4, 260-268.	0.8	30
43	Junctional complex and focal adhesion rearrangement mediates pulmonary endothelial barrier enhancement by FTY720 S-phosphonate. <i>Microvascular Research</i> , 2015, 99, 102-109.	1.1	28
44	Group V Phospholipase A2 Mediates Barrier Disruption of Human Pulmonary Endothelial Cells Caused by LPS In Vitro. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2011, 44, 361-368.	1.4	24
45	Development of ultrasound bioprobe for biological imaging. <i>Science Advances</i> , 2017, 3, e1701176.	4.7	24
46	A nonapoptotic endothelial barrier-protective role for caspase-3. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2019, 316, L1118-L1126.	1.3	24
47	eNAMPT neutralization reduces preclinical ARDS severity via rectified NF $\kappa$ B and Akt/mTORC2 signaling. <i>Scientific Reports</i> , 2022, 12, 696.	1.6	23
48	Pulmonary Endothelial Cell Barrier Enhancement by Novel FTY720 Analogs: Methoxy-FTY720, Fluoro-FTY720, and $\hat{1}$ -Glucuronide-FTY720. <i>Chemistry and Physics of Lipids</i> , 2015, 191, 16-24.	1.5	21
49	Secretory Phospholipase A2 Enzymes in Acute Lung Injury. <i>Cell Biochemistry and Biophysics</i> , 2021, 79, 609-617.	0.9	20
50	A common cortactin gene variation confers differential susceptibility to severe asthma. <i>Genetic Epidemiology</i> , 2008, 32, 757-766.	0.6	18
51	Myosin light chain kinase ( <i>MYLK</i> ) coding polymorphisms modulate human lung endothelial cell barrier responses via altered tyrosine phosphorylation, spatial localization, and lamellipodial protrusions. <i>Pulmonary Circulation</i> , 2018, 8, 1-7.	0.8	17
52	The ARP 2/3 complex mediates endothelial barrier function and recovery. <i>Pulmonary Circulation</i> , 2017, 7, 200-210.	0.8	16
53	Regulation of Thrombin-Induced Lung Endothelial Cell Barrier Disruption by Protein Kinase C Delta. <i>PLoS ONE</i> , 2016, 11, e0158865.	1.1	15
54	Proline-rich region of non-muscle myosin light chain kinase modulates kinase activity and endothelial cytoskeletal dynamics. <i>Microvascular Research</i> , 2014, 95, 94-102.	1.1	14

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55	A genetic variant of cortactin linked to acute lung injury impairs lamellipodia dynamics and endothelial wound healing. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015, 309, L983-L994.	1.3	14
56	Group V Phospholipase A <sub>2</sub> Increases Pulmonary Endothelial Permeability Through Direct Hydrolysis of the Cell Membrane. <i>Pulmonary Circulation</i> , 2012, 2, 182-192.	0.8	13
57	“Pulmonary Endothelial Cell Barrier Enhancement by Novel FTY720 Analogs: Methoxy-FTY720, Fluoro-FTY720, and <sup>12</sup> -Glucuronide-FTY720” <i>Chemistry and Physics of Lipids</i> , 2016, 194, 85-93.	1.5	13
58	Novel ACE mutations mimicking sarcoidosis by increasing blood ACE levels. <i>Translational Research</i> , 2021, 230, 5-20.	2.2	12
59	Neutrophil-Derived Extracellular Vesicles Activate Platelets after Pneumolysin Exposure. <i>Cells</i> , 2021, 10, 3581.	1.8	12
60	Structure-Function Analysis of the Non-Muscle Myosin Light Chain Kinase (nmMLCK) Isoform by NMR Spectroscopy and Molecular Modeling: Influence of MYLK Variants. <i>PLoS ONE</i> , 2015, 10, e0130515.	1.1	11
61	Cortactin in Lung Cell Function and Disease. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4606.	1.8	11
62	MRSA-induced endothelial permeability and acute lung injury are attenuated by FTY720 S-phosphonate. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2022, 322, L149-L161.	1.3	10
63	Nonmuscle Myosin Light Chain Kinase Activity Modulates Radiation-Induced Lung Injury. <i>Pulmonary Circulation</i> , 2016, 6, 234-239.	0.8	9
64	Arg mediates LPS-induced disruption of the pulmonary endothelial barrier. <i>Vascular Pharmacology</i> , 2020, 128-129, 106677.	1.0	9
65	Group V Phospholipase A2 Mediates Endothelial Dysfunction and Acute Lung Injury Caused by Methicillin-Resistant <i>Staphylococcus Aureus</i> . <i>Cells</i> , 2021, 10, 1731.	1.8	9
66	Functional Roles for CD26/DPP4 in Mediating Inflammatory Responses of Pulmonary Vascular Endothelial Cells. <i>Cells</i> , 2021, 10, 3508.	1.8	9
67	Sphingosine-1-phosphate receptor-independent lung endothelial cell barrier disruption induced by FTY720 regioisomers. <i>Pulmonary Circulation</i> , 2020, 10, 1-10.	0.8	8
68	Genetic and epigenetic regulation of the non-muscle myosin light chain kinase isoform by lung inflammatory factors and mechanical stress. <i>Clinical Science</i> , 2021, 135, 963-977.	1.8	8
69	Epitope mapping of novel monoclonal antibodies to human angiotensin converting enzyme. <i>Protein Science</i> , 2021, 30, 1577-1593.	3.1	7
70	Phenotyping Angiotensin-Converting Enzyme in Blood: A Necessary Approach for Precision Medicine. <i>Journal of Applied Laboratory Medicine</i> , The, 2021, 6, 1179-1191.	0.6	7
71	Role of Lysocardiolipin Acyltransferase in Cigarette Smoke-Induced Lung Epithelial Cell Mitochondrial ROS, Mitochondrial Dynamics, and Apoptosis. <i>Cell Biochemistry and Biophysics</i> , 2022, 80, 203-216.	0.9	7
72	EVL is a novel focal adhesion protein involved in the regulation of cytoskeletal dynamics and vascular permeability. <i>Pulmonary Circulation</i> , 2021, 11, 1-10.	0.8	6

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73	Cortactin Modulates Lung Endothelial Apoptosis Induced by Cigarette Smoke. <i>Cells</i> , 2021, 10, 2869.	1.8	6
74	A cortactin CTTN coding SNP contributes to lung vascular permeability and inflammatory disease severity in African descent subjects. <i>Translational Research</i> , 2022, 244, 56-74.	2.2	6
75	Critical role for the lung endothelial nonmuscle myosin light chain kinase isoform in the severity of inflammatory murine lung injury. <i>Pulmonary Circulation</i> , 2022, 12, e12061.	0.8	6
76	Cholesterol-Dependent Modulation of Stem Cell Biomechanics: Application to Adipogenesis. <i>Journal of Biomechanical Engineering</i> , 2019, 141, .	0.6	5
77	Cigarette Smoke and Nicotine-Containing Electronic-Cigarette Vapor Downregulate Lung WWOX Expression, Which Is Associated with Increased Severity of Murine Acute Respiratory Distress Syndrome. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2021, 64, 89-99.	1.4	5
78	Degradation of group V secretory phospholipase A2 in lung endothelium is mediated by autophagy. <i>Microvascular Research</i> , 2020, 129, 103954.	1.1	4
79	Identification of novel in vitro protein kinase A phosphorylation sites on recombinant non-muscle myosin light chain kinase: nano-liquid chromatography tandem mass spectrometry methodology. <i>Journal of Organ Dysfunction</i> , 2009, 5, 242-253.	0.3	2
80	Cortactin in Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, 2278-2280.	1.1	2
81	Cortactin Loss Protects Against Hemin-Induced Acute Lung Injury in Sickle Cell Disease. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2022, , .	1.3	2
82	A Case of Candidemia after Long-term Presence of Urethral Foreign Bodies. <i>IDCases</i> , 2021, 25, e01176.	0.4	1
83	Development of an Image-Based HCS-Compatible Method for Endothelial Barrier Function Assessment. <i>SLAS Discovery</i> , 2021, 26, 1079-1090.	1.4	1
84	Comparison of polynomial fitting versus single time point analysis of ECIS data for barrier assessment. <i>Physiological Reports</i> , 2021, 9, e14983.	0.7	1
85	Decreased Pulmonary Function in Asymptomatic Long Term Survivors After Busulfan-Based Myeloablative Allogeneic Hematopoietic Stem Cell Transplant. <i>Blood</i> , 2012, 120, 4474-4474.	0.6	0