

# Joshua Fessel

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

3,228  
citations

147566

31  
h-index

174990

52  
g-index

57  
all docs

57  
docs citations

57  
times ranked

4395  
citing authors

#	ARTICLE	IF	CITATIONS
1	Vascular stiffness mechanoactivates YAP/TAZ-dependent glutaminolysis to drive pulmonary hypertension. <i>Journal of Clinical Investigation</i> , 2016, 126, 3313-3335.	3.9	303
2	Isoprostanes and related products of lipid peroxidation in neurodegenerative diseases. <i>Chemistry and Physics of Lipids</i> , 2004, 128, 117-124.	1.5	222
3	Discovery of lipid peroxidation products formed in vivo with a substituted tetrahydrofuran ring (isofurans) that are favored by increased oxygen tension. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 16713-16718.	3.3	206
4	Sirt3 Impairment and SOD2 Hyperacetylation in Vascular Oxidative Stress and Hypertension. <i>Circulation Research</i> , 2017, 121, 564-574.	2.0	195
5	Fatty Acid Metabolic Defects and Right Ventricular Lipotoxicity in Human Pulmonary Arterial Hypertension. <i>Circulation</i> , 2016, 133, 1936-1944.	1.6	169
6	Evidence for Right Ventricular Lipotoxicity in Heritable Pulmonary Arterial Hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014, 189, 325-334.	2.5	146
7	Metabolomic Analysis of Bone Morphogenetic Protein Receptor Type 2 Mutations in Human Pulmonary Endothelium Reveals Widespread Metabolic Reprogramming. <i>Pulmonary Circulation</i> , 2012, 2, 201-213.	0.8	121
8	Oxidative Mediated Lipid Peroxidation Recapitulates Proarrhythmic Effects on Cardiac Sodium Channels. <i>Circulation Research</i> , 2005, 97, 1262-1269.	2.0	117
9	The biochemistry of the isoprostane, neuroprostane, and isofuran pathways of lipid peroxidation. <i>Chemistry and Physics of Lipids</i> , 2004, 128, 173-186.	1.5	105
10	A potential role for insulin resistance in experimental pulmonary hypertension. <i>European Respiratory Journal</i> , 2013, 41, 861-871.	3.1	104
11	Orthostatic hypertension: when pressor reflexes overcompensate. <i>Nature Clinical Practice Nephrology</i> , 2006, 2, 424-431.	2.0	100
12	The Biochemistry of the Isoprostane, Neuroprostane, and Isofuran Pathways of Lipid Peroxidation. <i>Brain Pathology</i> , 2005, 15, 143-148.	2.1	95
13	Isofurans, but not F <sub>2</sub> -isoprostanes, are increased in the substantia nigra of patients with Parkinson's disease and with dementia with Lewy body disease. <i>Journal of Neurochemistry</i> , 2003, 85, 645-650.	2.1	86
14	Estrogen Metabolite 16 $\beta$ -Hydroxyestrone Exacerbates Bone Morphogenetic Protein Receptor Type II-associated Pulmonary Arterial Hypertension Through MicroRNA-29-mediated Modulation of Cellular Metabolism. <i>Circulation</i> , 2016, 133, 82-97.	1.6	83
15	Mechanisms of Lipid Accumulation in the Bone Morphogenetic Protein Receptor Type 2 Mutant Right Ventricle. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016, 194, 719-728.	2.5	75
16	Dysfunctional Resident Lung Mesenchymal Stem Cells Contribute to Pulmonary Microvascular Remodeling. <i>Pulmonary Circulation</i> , 2013, 3, 31-49.	0.8	67
17	Dysfunctional BMPR2 signaling drives an abnormal endothelial requirement for glutamine in pulmonary arterial hypertension. <i>Pulmonary Circulation</i> , 2017, 7, 186-199.	0.8	57
18	Localization of isoketal adducts in vivo using a single-chain antibody. <i>Free Radical Biology and Medicine</i> , 2004, 36, 1163-1174.	1.3	53

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19	Mitochondrial dysfunction in the APP/PSEN1 mouse model of Alzheimer's disease and a novel protective role for ascorbate. <i>Free Radical Biology and Medicine</i> , 2017, 112, 515-523.	1.3	53
20	The Genetics of Pulmonary Arterial Hypertension in the Post-BMPR2 Era. <i>Pulmonary Circulation</i> , 2011, 1, 305-319.	0.8	52
21	Oxidative Injury is a Common Consequence of BMPR2 Mutations. <i>Pulmonary Circulation</i> , 2011, 1, 72-83.	0.8	51
22	Isfurans: Novel Products of Lipid Peroxidation that Define the Occurrence of Oxidant Injury in Settings of Elevated Oxygen Tension. <i>Antioxidants and Redox Signaling</i> , 2005, 7, 202-209.	2.5	49
23	Interaction between Bone Morphogenetic Protein Receptor Type 2 and Estrogenic Compounds in Pulmonary Arterial Hypertension. <i>Pulmonary Circulation</i> , 2013, 3, 564-577.	0.8	47
24	LKB1 deficiency enhances sensitivity to energetic stress induced by erlotinib treatment in non-small-cell lung cancer (NSCLC) cells. <i>Oncogene</i> , 2016, 35, 856-866.	2.6	47
25	Kidney dysfunction in patients with pulmonary arterial hypertension. <i>Pulmonary Circulation</i> , 2017, 7, 38-54.	0.8	47
26	Multi-organ Abnormalities and mTORC1 Activation in Zebrafish Model of Multiple Acyl-CoA Dehydrogenase Deficiency. <i>PLoS Genetics</i> , 2013, 9, e1003563.	1.5	46
27	Ascorbic acid attenuates endothelial permeability triggered by cell-free hemoglobin. <i>Biochemical and Biophysical Research Communications</i> , 2018, 495, 433-437.	1.0	41
28	Hyperoxia Synergizes with Mutant Bone Morphogenetic Protein Receptor 2 to Cause Metabolic Stress, Oxidant Injury, and Pulmonary Hypertension. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2013, 49, 778-787.	1.4	38
29	Seizure-induced formation of isofurans: novel products of lipid peroxidation whose formation is positively modulated by oxygen tension. <i>Journal of Neurochemistry</i> , 2008, 104, 264-270.	2.1	37
30	Expression of Mutant Bone Morphogenetic Protein Receptor II Worsens Pulmonary Hypertension Secondary to Pulmonary Fibrosis. <i>Pulmonary Circulation</i> , 2015, 5, 681-690.	0.8	35
31	Oxidative stress increases M1dG, a major peroxidation-derived DNA adduct, in mitochondrial DNA. <i>Nucleic Acids Research</i> , 2018, 46, 3458-3467.	6.5	32
32	A nomenclature system for isofurans. <i>Prostaglandins and Other Lipid Mediators</i> , 2004, 73, 47-50.	1.0	26
33	Rescuing the BMPR2 signaling axis in pulmonary arterial hypertension. <i>Drug Discovery Today</i> , 2014, 19, 1241-1245.	3.2	24
34	Transbronchial Cryobiopsy Can Diagnose Constrictive Bronchiolitis in Veterans of Recent Conflicts in the Middle East. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016, 193, 806-808.	2.5	24
35	Pyridine Dinucleotides from Molecules to Man. <i>Antioxidants and Redox Signaling</i> , 2018, 28, 180-212.	2.5	24
36	A Process-Based Review of Mouse Models of Pulmonary Hypertension. <i>Pulmonary Circulation</i> , 2012, 2, 415-433.	0.8	23

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37	Redox Biology in Pulmonary Arterial Hypertension (2013 Grover Conference Series). <i>Pulmonary Circulation</i> , 2015, 5, 599-609.	0.8	22
38	Scavengers of reactive $\hat{3}$ -ketoaldehydes extend <i>Caenorhabditis elegans</i> lifespan and healthspan through protein-level interactions with SIR-2.1 and ETS-7. <i>Aging</i> , 2016, 8, 1759-1780.	1.4	21
39	Microarray studies in pulmonary arterial hypertension. <i>International Journal of Clinical Practice</i> , 2011, 65, 19-28.	0.8	20
40	Pulmonary vascular effect of insulin in a rodent model of pulmonary arterial hypertension. <i>Pulmonary Circulation</i> , 2017, 7, 624-634.	0.8	20
41	Mitochondrial DNA depletion by ethidium bromide decreases neuronal mitochondrial creatine kinase: Implications for striatal energy metabolism. <i>PLoS ONE</i> , 2017, 12, e0190456.	1.1	20
42	Shared Gene Expression Patterns in Mesenchymal Progenitors Derived from Lung and Epidermis in Pulmonary Arterial Hypertension: Identifying Key Pathways in Pulmonary Vascular Disease. <i>Pulmonary Circulation</i> , 2016, 6, 483-497.	0.8	19
43	Metabolic effects of manganese in the nematode <i>Caenorhabditis elegans</i> through DAergic pathway and transcription factors activation. <i>NeuroToxicology</i> , 2018, 67, 65-72.	1.4	18
44	Degree of heteroplasmy reflects oxidant damage in a large family with the mitochondrial DNA A8344G mutation. <i>Free Radical Biology and Medicine</i> , 2005, 38, 678-683.	1.3	16
45	Connectivity Map Analysis of Nonsense-Mediated Decayâ€œPositive <i>BMPR2</i> -Related Hereditary Pulmonary Arterial Hypertension Provides Insights into Disease Penetrance. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2012, 47, 20-27.	1.4	16
46	Mitochondrial DNA Haplogroups and Delirium During Sepsis. <i>Critical Care Medicine</i> , 2019, 47, 1065-1071.	0.4	14
47	Enhanced Expression of Catalase in Mitochondria Modulates NF- $\hat{3}$ -Dependent Lung Inflammation through Alteration of Metabolic Activity in Macrophages. <i>Journal of Immunology</i> , 2020, 205, 1125-1134.	0.4	13
48	Low-grade albuminuria in pulmonary arterial hypertension. <i>Pulmonary Circulation</i> , 2019, 9, 204589401882456.	0.8	11
49	Lower Concentrations of Circulating Medium and Long-Chain Acylcarnitines Characterize Insulin Resistance in Persons with HIV. <i>AIDS Research and Human Retroviruses</i> , 2018, 34, 536-543.	0.5	7
50	Nicotine Adenine Dinucleotides: The Redox Currency of the Cell. <i>Antioxidants and Redox Signaling</i> , 2018, 28, 165-166.	2.5	6
51	Treatment of Acute Intoxication From Inhaled 1,2-Difluoroethane. <i>Annals of Internal Medicine</i> , 2018, 169, 820.	2.0	4
52	Outcomes in Elderly Intensive Care Unit Patients, Pulmonary Hypertension in Sickle Cell Disease, and Total Liquid Ventilation for Therapeutic Hypothermia after Cardiac Arrest in Rabbits. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2012, 185, 453-454.	2.5	1
53	Oxygen Therapyâ€œUse and Abuse. <i>Clinical Cardiology</i> , 2010, 33, 52-52.	0.7	0
54	Acute Abdominal Pain: A Case Study of Multi-Service Collaboration in Palliation (738). <i>Journal of Pain and Symptom Management</i> , 2010, 39, 442-443.	0.6	0

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55	Chasing Pulmonary Hypertension: 1980â€“2012. <i>Advances in Pulmonary Hypertension</i> , 2012, 11, 121-123.	0.1	0
56	Author's Reply. <i>Pulmonary Circulation</i> , 2013, 3, 447-8.	0.8	0