

Robert B Hamanaka

List of Publications by Year in descending order

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41
papers

7,976
citations

147801

31
h-index

276875

41
g-index

47
all docs

47
docs citations

47
times ranked

16037
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitochondrial metabolism and ROS generation are essential for Kras-mediated tumorigenicity. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8788-8793.	7.1	1,402
2	Single-Cell Transcriptomic Analysis of Human Lung Provides Insights into the Pathobiology of Pulmonary Fibrosis. American Journal of Respiratory and Critical Care Medicine, 2019, 199, 1517-1536.	5.6	866
3	Metformin inhibits mitochondrial complex I of cancer cells to reduce tumorigenesis. ELife, 2014, 3, e02242.	6.0	851
4	Mitochondrial reactive oxygen species regulate cellular signaling and dictate biological outcomes. Trends in Biochemical Sciences, 2010, 35, 505-513.	7.5	794
5	Mitochondrial Complex III ROS Regulate Adipocyte Differentiation. Cell Metabolism, 2011, 14, 537-544.	16.2	550
6	The role of nuclear lamin B1 in cell proliferation and senescence. Genes and Development, 2011, 25, 2579-2593.	5.9	417
7	Particulate Matter Air Pollution: Effects on the Cardiovascular System. Frontiers in Endocrinology, 2018, 9, 680.	3.5	358
8	Targeting glucose metabolism for cancer therapy. Journal of Experimental Medicine, 2012, 209, 211-215.	8.5	333
9	Mitochondrial Reactive Oxygen Species Promote Epidermal Differentiation and Hair Follicle Development. Science Signaling, 2013, 6, ra8.	3.6	276
10	Mitochondrial reactive oxygen species regulate hypoxic signaling. Current Opinion in Cell Biology, 2009, 21, 894-899.	5.4	267
11	Inhalational exposure to particulate matter air pollution alters the composition of the gut microbiome. Environmental Pollution, 2018, 240, 817-830.	7.5	181
12	Hypoxia Leads to Na,K-ATPase Downregulation via Ca ²⁺ Release-Activated Ca ²⁺ Channels and AMPK Activation. Molecular and Cellular Biology, 2011, 31, 3546-3556.	2.3	127
13	Warburg Effect and Redox Balance. Science, 2011, 334, 1219-1220.	12.6	122
14	HIF-1 α is required for disturbed flow-induced metabolic reprogramming in human and porcine vascular endothelium. ELife, 2017, 6, .	6.0	120
15	Virus-Induced Unfolded Protein Response Attenuates Antiviral Defenses via Phosphorylation-Dependent Degradation of the Type I Interferon Receptor. Cell Host and Microbe, 2009, 5, 72-83.	11.0	118
16	Ribosomal Stress Couples the Unfolded Protein Response to p53-dependent Cell Cycle Arrest. Journal of Biological Chemistry, 2006, 281, 30036-30045.	3.4	105
17	microRNA-31/factor-inhibiting hypoxia-inducible factor 1 nexus regulates keratinocyte differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14030-14034.	7.1	102
18	Transforming Growth Factor (TGF)- β 2 Promotes de Novo Serine Synthesis for Collagen Production. Journal of Biological Chemistry, 2016, 291, 27239-27251.	3.4	102

#	ARTICLE	IF	CITATIONS
19	Glutamine Metabolism Is Required for Collagen Protein Synthesis in Lung Fibroblasts. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2019, 61, 597-606.	2.9	85
20	The NIEHS TaRGET II Consortium and environmental epigenomics. <i>Nature Biotechnology</i> , 2018, 36, 225-227.	17.5	79
21	Metformin Targets Mitochondrial Electron Transport to Reduce Air-Pollution-Induced Thrombosis. <i>Cell Metabolism</i> , 2019, 29, 335-347.e5.	16.2	75
22	Tissue-Resident Alveolar Macrophages Do Not Rely on Glycolysis for LPS-induced Inflammation. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 62, 243-255.	2.9	70
23	Experimental Lung Injury Reduces KrÄ¼ppel-like Factor 2 to Increase Endothelial Permeability via Regulation of RAPGEF3â€“Rac1 Signaling. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2017, 195, 639-651.	5.6	54
24	MicroRNAâ€“31 targets FIHâ€“1 to positively regulate corneal epithelial glycogen metabolism. <i>FASEB Journal</i> , 2012, 26, 3140-3147.	0.5	53
25	Inhibition of Phosphoglycerate Dehydrogenase Attenuates Bleomycin-induced Pulmonary Fibrosis. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2018, 58, 585-593.	2.9	53
26	The Mitochondrial Respiratory Chain Is Required for Organismal Adaptation to Hypoxia. <i>Cell Reports</i> , 2016, 15, 451-459.	6.4	45
27	Prolonged Exposures to Intermittent Hypoxia Promote Visceral White Adipose Tissue Inflammation in a Murine Model of Severe Sleep Apnea: Effect of Normoxic Recovery. <i>Sleep</i> , 2017, 40, .	1.1	45
28	TGF-Î² Promotes Metabolic Reprogramming in Lung Fibroblasts via mTORC1-dependent ATF4 Activation. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 63, 601-612.	2.9	45
29	Mitochondrial metabolism as a regulator of keratinocyte differentiation. <i>Cellular Logistics</i> , 2013, 3, e25456.	0.9	42
30	Impaired Clearance of Influenza A Virus in Obese, Leptin Receptor Deficient Mice Is Independent of Leptin Signaling in the Lung Epithelium and Macrophages. <i>PLoS ONE</i> , 2014, 9, e108138.	2.5	42
31	Endogenous itaconate is not required for particulate matter-induced NRF2 expression or inflammatory response. <i>ELife</i> , 2020, 9, .	6.0	35
32	Metabolic requirements of pulmonary fibrosis: role of fibroblast metabolism. <i>FEBS Journal</i> , 2021, 288, 6331-6352.	4.7	31
33	Regulation of myofibroblast differentiation by cardiac glycosides. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016, 310, L815-L823.	2.9	27
34	PFKFB3, a Direct Target of p63, Is Required for Proliferation and Inhibits Differentiation in Epidermal Keratinocytes. <i>Journal of Investigative Dermatology</i> , 2017, 137, 1267-1276.	0.7	27
35	Suppression of Superoxide-Hydrogen Peroxide Production at Site IQ of Mitochondrial Complex I Attenuates Myocardial Stunning and Improves Postcardiac Arrest Outcomes. <i>Critical Care Medicine</i> , 2020, 48, e133-e140.	0.9	20
36	The role of metabolic reprogramming and de novo amino acid synthesis in collagen protein production by myofibroblasts: implications for organ fibrosis and cancer. <i>Amino Acids</i> , 2021, 53, 1851-1862.	2.7	12

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37	HIF-1 α induces glycolytic reprogramming in tissue-resident alveolar macrophages to promote cell survival during acute lung injury. <i>ELife</i> , 0, 11, .	6.0	8
38	Intermittent Hypoxia-Induced Activation of Endothelial Cells Is Mediated via Sympathetic Activation-Dependent Catecholamine Release. <i>Frontiers in Physiology</i> , 2021, 12, 701995.	2.8	5
39	Alveolar Epithelial Cells Burn Fat to Survive Acute Lung Injury. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2019, 60, 135-136.	2.9	3
40	The Airway Epithelial Response to Air Pollution: It's Not Just Inflammation. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 63, 139-140.	2.9	2
41	Letter by Wu et al Regarding Article, "Mechanical Activation of Hypoxia-Inducible Factor 1 α Drives Endothelial Dysfunction at Atheroprone Sites", <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, e197-e198.	2.4	1