

William M Oldham

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

3,470
citations

236925

25
h-index

265206

42
g-index

53
all docs

53
docs citations

53
times ranked

5478
citing authors

#	ARTICLE	IF	CITATIONS
1	Heterotrimeric G protein activation by G-protein-coupled receptors. <i>Nature Reviews Molecular Cell Biology</i> , 2008, 9, 60-71.	37.0	981
2	Vascular stiffness mechanoactivates YAP/TAZ-dependent glutaminolysis to drive pulmonary hypertension. <i>Journal of Clinical Investigation</i> , 2016, 126, 3313-3335.	8.2	303
3	Hypoxia-Mediated Increases in l -2-hydroxyglutarate Coordinate the Metabolic Response to Reductive Stress. <i>Cell Metabolism</i> , 2015, 22, 291-303.	16.2	270
4	Tumor-Stroma Mechanics Coordinate Amino Acid Availability to Sustain Tumor Growth and Malignancy. <i>Cell Metabolism</i> , 2019, 29, 124-140.e10.	16.2	232
5	Structural basis of function in heterotrimeric G proteins. <i>Quarterly Reviews of Biophysics</i> , 2006, 39, 117-166.	5.7	193
6	Mechanism of the receptor-catalyzed activation of heterotrimeric G proteins. <i>Nature Structural and Molecular Biology</i> , 2006, 13, 772-777.	8.2	171
7	Targeting immunosuppressive macrophages overcomes PARP inhibitor resistance in BRCA1-associated triple-negative breast cancer. <i>Nature Cancer</i> , 2021, 2, 66-82.	13.2	126
8	NEDD9 targets COL3A1 to promote endothelial fibrosis and pulmonary arterial hypertension. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	89
9	Structural and dynamical changes in an α -subunit of a heterotrimeric G protein along the activation pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 16194-16199.	7.1	68
10	Protocol for Exercise Hemodynamic Assessment: Performing an Invasive Cardiopulmonary Exercise Test in Clinical Practice. <i>Pulmonary Circulation</i> , 2015, 5, 610-618.	1.7	68
11	Unexplained Exertional Dyspnea Caused by Low Ventricular Filling Pressures: Results from Clinical Invasive Cardiopulmonary Exercise Testing. <i>Pulmonary Circulation</i> , 2016, 6, 55-62.	1.7	67
12	Mechano-induced cell metabolism promotes microtubule glutamylation to force metastasis. <i>Cell Metabolism</i> , 2021, 33, 1342-1357.e10.	16.2	66
13	Mapping allosteric connections from the receptor to the nucleotide-binding pocket of heterotrimeric G proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 7927-7932.	7.1	59
14	Upregulation of Steroidogenic Acute Regulatory Protein by Hypoxia Stimulates Aldosterone Synthesis in Pulmonary Artery Endothelial Cells to Promote Pulmonary Vascular Fibrosis. <i>Circulation</i> , 2014, 130, 168-179.	1.6	53
15	Individualized interactomes for network-based precision medicine in hypertrophic cardiomyopathy with implications for other clinical pathophenotypes. <i>Nature Communications</i> , 2021, 12, 873.	12.8	53
16	How do Receptors Activate G Proteins?. <i>Advances in Protein Chemistry</i> , 2007, 74, 67-93.	4.4	51
17	G β 3 Activates GSK3 to Promote LRP6-Mediated β -Catenin Transcriptional Activity. <i>Science Signaling</i> , 2010, 3, ra37.	3.6	51
18	p62/SQSTM1 Cooperates with Hyperactive mTORC1 to Regulate Glutathione Production, Maintain Mitochondrial Integrity, and Promote Tumorigenesis. <i>Cancer Research</i> , 2017, 77, 3255-3267.	0.9	49

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19	Reaction rate of pyruvate and hydrogen peroxide: assessing antioxidant capacity of pyruvate under biological conditions. <i>Scientific Reports</i> , 2019, 9, 19568.	3.3	47
20	Systems Biology Approaches to Redox Metabolism in Stress and Disease States. <i>Antioxidants and Redox Signaling</i> , 2018, 29, 953-972.	5.4	44
21	Network Analysis to Risk Stratify Patients With Exercise Intolerance. <i>Circulation Research</i> , 2018, 122, 864-876.	4.5	42
22	Pulmonary Vascular Distensibility and Early Pulmonary Vascular Remodeling in Pulmonary Hypertension. <i>Chest</i> , 2019, 156, 724-732.	0.8	38
23	Immunometabolic Endothelial Phenotypes: Integrating Inflammation and Glucose Metabolism. <i>Circulation Research</i> , 2021, 129, 9-29.	4.5	38
24	Interferon- β Impairs Human Coronary Artery Endothelial Glucose Metabolism by Tryptophan Catabolism and Activates Fatty Acid Oxidation. <i>Circulation</i> , 2021, 144, 1612-1628.	1.6	36
25	MicroRNA Dysregulation in Pulmonary Arteries from Chronic Obstructive Pulmonary Disease. Relationships with Vascular Remodeling. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2018, 59, 490-499.	2.9	34
26	GAPDH inhibits intracellular pathways during starvation for cellular energy homeostasis. <i>Nature</i> , 2018, 561, 263-267.	27.8	28
27	Pyridine Dinucleotides from Molecules to Man. <i>Antioxidants and Redox Signaling</i> , 2018, 28, 180-212.	5.4	24
28	Helix Dipole Movement and Conformational Variability Contribute to Allosteric GDP Release in $G\beta\gamma$ Subunits. <i>Biochemistry</i> , 2009, 48, 2630-2642.	2.5	21
29	Rapamycin-induced miR-21 promotes mitochondrial homeostasis and adaptation in mTORC1 activated cells. <i>Oncotarget</i> , 2017, 8, 64714-64727.	1.8	18
30	Understanding critically ill sepsis patients with normal serum lactate levels: results from U.S. and European ICU cohorts. <i>Scientific Reports</i> , 2021, 11, 20076.	3.3	18
31	Quantification of 2-Hydroxyglutarate Enantiomers by Liquid Chromatography-mass Spectrometry. <i>Bio-protocol</i> , 2016, 6, .	0.4	17
32	A workshop on leadership for MD/PhD students. <i>Medical Education Online</i> , 2011, 16, 7075.	2.6	14
33	Network-based association of hypoxia-responsive genes with cardiovascular diseases. <i>New Journal of Physics</i> , 2014, 16, 105014.	2.9	14
34	Innate T cells in the intensive care unit. <i>Molecular Immunology</i> , 2019, 105, 213-223.	2.2	14
35	Elevated pulmonary arterial and systemic plasma aldosterone levels associate with impaired cardiac reserve capacity during exercise in left ventricular systolic heart failure patients: A pilot study. <i>Journal of Heart and Lung Transplantation</i> , 2016, 35, 342-351.	0.6	13
36	NHLBI-CMREF Workshop Report on Pulmonary Vascular Disease Classification. <i>Journal of the American College of Cardiology</i> , 2021, 77, 2040-2052.	2.8	13

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37	Integrating haemodynamics identifies an extreme pulmonary hypertension phenotype. <i>European Respiratory Journal</i> , 2021, 58, 2004625.	6.7	12
38	[18F]Fluorocholine and [18F]Fluoroacetate PET as Imaging Biomarkers to Assess Phosphatidylcholine and Mitochondrial Metabolism in Preclinical Models of TSC and LAM. <i>Clinical Cancer Research</i> , 2018, 24, 5925-5938.	7.0	8
39	The Long Noncoding RNA LncRPT Puts the Brakes on Pulmonary Artery Smooth Muscle Cell Proliferation. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2018, 58, 138-139.	2.9	6
40	Nicotine Adenine Dinucleotides: The Redox Currency of the Cell. <i>Antioxidants and Redox Signaling</i> , 2018, 28, 165-166.	5.4	6
41	Systemic vascular distensibility relates to exercise capacity in connective tissue disease. <i>Rheumatology</i> , 2021, 60, 1429-1434.	1.9	6
42	Pulmonary Hypertension as a Metabolic Disease. , 2016, , 135-145.		1
43	860â€...Targeting immunosuppressive macrophages overcomes PARP-inhibitor resistance in BRCA1-associated triple-negative breast cancer. , 2020, , .		1
44	Paradoxical Embolization via Large Pulmonary Arteriovenous Malformation. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019, 200, 29-30.	5.6	0
45	The crystal structure of the fast exchange mutant I56C/Q333C in GÎ± _{i1} suggests a mechanism for receptorâ€mediated allosteric nucleotide exchange. <i>FASEB Journal</i> , 2007, 21, A613.	0.5	0
46	Abstract P5-04-01: PARP inhibition modulates the infiltration, phenotype and function of tumor-associated macrophages (TAMs) in BRCA-associated breast cancer and can be augmented by harnessing the anti-tumor potential of TAMs. , 2020, , .		0
47	Abstract 11024: Interferon-Gamma Impairs Human Coronary Artery Endothelial Glucose Metabolism via Tryptophan Catabolism and Activates Fatty Acid Oxidization. <i>Circulation</i> , 2021, 144, .	1.6	0
48	Abstract 10241: Single-Cell RNA-Sequencing Reveals Hyperacute NK Cell and Monocyte Cell States Correlating with Poor Neurological Outcomes After Cardiac Arrest. <i>Circulation</i> , 2021, 144, .	1.6	0