

Jared Rutter

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3693615/publications.pdf>

Version: 2024-02-01

103
papers

9,132
citations

57758

44
h-index

43889

91
g-index

123
all docs

123
docs citations

123
times ranked

12132
citing authors

#	ARTICLE	IF	CITATIONS
1	Paradoxical neuronal hyperexcitability in a mouse model of mitochondrial pyruvate import deficiency. <i>ELife</i> , 2022, 11, .	6.0	21
2	Glyoxylate protects against cyanide toxicity through metabolic modulation. <i>Scientific Reports</i> , 2022, 12, 4982.	3.3	4
3	The pyruvate-lactate axis modulates cardiac hypertrophy and heart failure. <i>Cell Metabolism</i> , 2021, 33, 629-648.e10.	16.2	137
4	A time to build and a time to burn: glucose metabolism for every season. <i>Molecular Cell</i> , 2021, 81, 642-644.	9.7	1
5	Identification of small molecule allosteric modulators of 5,10-methylenetetrahydrofolate reductase (MTHFR) by targeting its unique regulatory domain. <i>Biochimie</i> , 2021, 183, 100-107.	2.6	8
6	Maestro of the SereNADe: SLC25A51 Orchestrates Mitochondrial NAD+. <i>Trends in Biochemical Sciences</i> , 2021, 46, 348-350.	7.5	5
7	Sugar phosphate activation of the stress sensor eIF2B. <i>Nature Communications</i> , 2021, 12, 3440.	12.8	17
8	Metabolic decisions in development and disease—a Keystone Symposia report. <i>Annals of the New York Academy of Sciences</i> , 2021, 1506, 55-73.	3.8	6
9	The biochemical basis of mitochondrial dysfunction in Zellweger Spectrum Disorder. <i>EMBO Reports</i> , 2021, 22, e51991.	4.5	27
10	Protective mitochondrial fission induced by stress-responsive protein GJA1-20k. <i>ELife</i> , 2021, 10, .	6.0	17
11	Regulation of Tumor Initiation by the Mitochondrial Pyruvate Carrier. <i>Cell Metabolism</i> , 2020, 31, 284-300.e7.	16.2	103
12	Mitochondrial pyruvate carriers are required for myocardial stress adaptation. <i>Nature Metabolism</i> , 2020, 2, 1248-1264.	11.9	87
13	Callyspongiolide Is a Potent Inhibitor of the Vacuolar ATPase. <i>Journal of Natural Products</i> , 2020, 83, 3381-3386.	3.0	6
14	The Role of Nonglycolytic Glucose Metabolism in Myocardial Recovery Upon Mechanical Unloading and Circulatory Support in Chronic Heart Failure. <i>Circulation</i> , 2020, 142, 259-274.	1.6	53
15	Validation of PAS Kinase, a Regulator of Hepatic Fatty Acid and Triglyceride Synthesis, as a Therapeutic Target for Nonalcoholic Steatohepatitis. <i>Hepatology Communications</i> , 2020, 4, 696-707.	4.3	8
16	20,000 picometers under the <scp>OMM</scp>: diving into the vastness of mitochondrial metabolite transport. <i>EMBO Reports</i> , 2020, 21, e50071.	4.5	29
17	T Cell-Expressed microRNA-155 Reduces Lifespan in a Mouse Model of Age-Related Chronic Inflammation. <i>Journal of Immunology</i> , 2020, 204, 2064-2075.	0.8	18
18	Mitochondrial Pyruvate Carrier 1 Promotes Peripheral T Cell Homeostasis through Metabolic Regulation of Thymic Development. <i>Cell Reports</i> , 2020, 30, 2889-2899.e6.	6.4	34

#	ARTICLE	IF	CITATIONS
19	Reign in the membrane: How common lipids govern mitochondrial function. <i>Current Opinion in Cell Biology</i> , 2020, 63, 162-173.	5.4	39
20	XPRESSyourself: Enhancing, standardizing, and automating ribosome profiling computational analyses yields improved insight into data. <i>PLoS Computational Biology</i> , 2020, 16, e1007625.	3.2	15
21	Compartment and hub definitions tune metabolic networks for metabolomic interpretations. <i>GigaScience</i> , 2020, 9, .	6.4	9
22	Crystal structure and interaction studies of human DHTKD1 provide insight into a mitochondrial megacomplex in lysine catabolism. <i>IUCr</i> , 2020, 7, 693-706.	2.2	19
23	Chronic cold exposure enhances glucose oxidation in brown adipose tissue. <i>EMBO Reports</i> , 2020, 21, e50085.	4.5	33
24	Mitochondrial pyruvate carrier is required for optimal brown fat thermogenesis. <i>ELife</i> , 2020, 9, .	6.0	45
25	Mitochondrial fatty acid synthesis coordinates oxidative metabolism in mammalian mitochondria. <i>ELife</i> , 2020, 9, .	6.0	62
26	Title is missing!. , 2020, 16, e1007625.		0
27	Title is missing!. , 2020, 16, e1007625.		0
28	Title is missing!. , 2020, 16, e1007625.		0
29	Title is missing!. , 2020, 16, e1007625.		0
30	Targeting a ceramide double bond improves insulin resistance and hepatic steatosis. <i>Science</i> , 2019, 365, 386-392.	12.6	304
31	Mitochondrial PE potentiates respiratory enzymes to amplify skeletal muscle aerobic capacity. <i>Science Advances</i> , 2019, 5, eaax8352.	10.3	66
32	Oct1/Pou2f1 is selectively required for colon regeneration and regulates colon malignancy. <i>PLoS Genetics</i> , 2019, 15, e1007687.	3.5	21
33	Activation of PASK by mTORC1 is required for the onset of the terminal differentiation program. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10382-10391.	7.1	39
34	Exploring the functional role of an ancient mitochondrial fatty acid synthesis pathway. <i>FASEB Journal</i> , 2019, 33, 660.5.	0.5	0
35	The Force Is Strong with This One: Metabolism (Over)powers Stem Cell Fate. <i>Trends in Cell Biology</i> , 2018, 28, 551-559.	7.9	32
36	Impact of Mitochondrial Fatty Acid Synthesis on Mitochondrial Biogenesis. <i>Current Biology</i> , 2018, 28, R1212-R1219.	3.9	64

#	ARTICLE	IF	CITATIONS
37	ACP Acylation Is an Acetyl-CoA-Dependent Modification Required for Electron Transport Chain Assembly. <i>Molecular Cell</i> , 2018, 71, 567-580.e4.	9.7	71
38	Identification of specific metabolic pathways as druggable targets regulating the sensitivity to cyanide poisoning. <i>PLoS ONE</i> , 2018, 13, e0193889.	2.5	12
39	Vms1p is a release factor for the ribosome-associated quality control complex. <i>Nature Communications</i> , 2018, 9, 2197.	12.8	80
40	Structure of human Feâ€“S assembly subcomplex reveals unexpected cysteine desulfurase architecture and acyl-ACPâ€“ISD11 interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E5325-E5334.	7.1	132
41	Mitochondria link metabolism and epigenetics in haematopoiesis. <i>Nature Cell Biology</i> , 2017, 19, 589-591.	10.3	21
42	Global Analysis of Plasma Lipids Identifies Liver-Derived Acylcarnitines as a Fuel Source for Brown Fat Thermogenesis. <i>Cell Metabolism</i> , 2017, 26, 509-522.e6.	16.2	185
43	EWS/FLI is a Master Regulator of Metabolic Reprogramming in Ewing Sarcoma. <i>Molecular Cancer Research</i> , 2017, 15, 1517-1530.	3.4	39
44	Lactate dehydrogenase activity drives hair follicle stem cell activation. <i>Nature Cell Biology</i> , 2017, 19, 1017-1026.	10.3	203
45	Control of intestinal stem cell function and proliferation by mitochondrial pyruvate metabolism. <i>Nature Cell Biology</i> , 2017, 19, 1027-1036.	10.3	238
46	Sterol Oxidation Mediates Stress-Responsive Vms1 Translocation to Mitochondria. <i>Molecular Cell</i> , 2017, 68, 673-685.e6.	9.7	33
47	A metabolic switch controls intestinal differentiation downstream of Adenomatous polyposis coli (APC). <i>ELife</i> , 2017, 6, .	6.0	23
48	Loss of p16INK4A stimulates aberrant mitochondrial biogenesis through a CDK4/Rb-independent pathway. <i>Oncotarget</i> , 2017, 8, 55848-55862.	1.8	17
49	The mitochondrial acyl carrier protein (ACP) coordinates mitochondrial fatty acid synthesis with iron sulfur cluster biogenesis. <i>ELife</i> , 2016, 5, .	6.0	141
50	Evidence of Glycolysis Up-Regulation and Pyruvate Mitochondrial Oxidation Mismatch During Mechanical Unloading of the Failing Human Heart. <i>JACC Basic To Translational Science</i> , 2016, 1, 432-444.	4.1	105
51	The Whole (Cell) Is Less Than the Sum of Its Parts. <i>Cell</i> , 2016, 166, 1078-1079.	28.9	10
52	Pyruvate and Metabolic Flexibility: Illuminating a Path Toward Selective Cancer Therapies. <i>Trends in Biochemical Sciences</i> , 2016, 41, 219-230.	7.5	104
53	You Are What You Eatâ€“ or Are You?. <i>Developmental Cell</i> , 2016, 36, 483-485.	7.0	2
54	Pask integrates hormonal signaling with histone modification via Wdr5 phosphorylation to drive myogenesis. <i>ELife</i> , 2016, 5, .	6.0	16

#	ARTICLE	IF	CITATIONS
55	Power2: The power of yeast genetics applied to the powerhouse of the cell. Trends in Endocrinology and Metabolism, 2015, 26, 59-68.	7.1	25
56	You Down With ETC? Yeah, You Know D!. Cell, 2015, 162, 471-473.	28.9	14
57	Hepatic Mitochondrial Pyruvate Carrier 1 Is Required for Efficient Regulation of Gluconeogenesis and Whole-Body Glucose Homeostasis. Cell Metabolism, 2015, 22, 669-681.	16.2	193
58	Protein-mediated assembly of succinate dehydrogenase and its cofactors. Critical Reviews in Biochemistry and Molecular Biology, 2015, 50, 168-180.	5.2	87
59	The LYR Factors SDHAF1 and SDHAF3 Mediate Maturation of the Iron-Sulfur Subunit of Succinate Dehydrogenase. Cell Metabolism, 2014, 20, 253-266.	16.2	96
60	<sc>M</sc>sp1</sc>ATAD</sc>1 maintains mitochondrial function by facilitating the degradation of mislocalized tail-anchored proteins. EMBO Journal, 2014, 33, 1548-1564.	7.8	172
61	Pressing Mitochondrial Genetics Forward. Cell Reports, 2014, 7, 599-600.	6.4	1
62	A Role for the Mitochondrial Pyruvate Carrier as a Repressor of the Warburg Effect and Colon Cancer Cell Growth. Molecular Cell, 2014, 56, 400-413.	9.7	294
63	Glutamine Oxidation Maintains the TCA Cycle and Cell Survival during Impaired Mitochondrial Pyruvate Transport. Molecular Cell, 2014, 56, 414-424.	9.7	504
64	PAS Kinase Drives Lipogenesis through SREBP-1 Maturation. Cell Reports, 2014, 8, 242-255.	6.4	37
65	SDHAF4 Promotes Mitochondrial Succinate Dehydrogenase Activity and Prevents Neurodegeneration. Cell Metabolism, 2014, 20, 241-252.	16.2	88
66	Hallmarks of a new era in mitochondrial biochemistry. Genes and Development, 2013, 27, 2615-2627.	5.9	146
67	The long and winding road to the mitochondrial pyruvate carrier. Cancer & Metabolism, 2013, 1, 6.	5.0	61
68	Per-Arnt-Sim Kinase Regulates Pancreatic Duodenal Homeobox-1 Protein Stability via Phosphorylation of Glycogen Synthase Kinase 3 ^β in Pancreatic β -Cells. Journal of Biological Chemistry, 2013, 288, 24825-24833.	3.4	16
69	Intramolecular interactions control Vms1 translocation to damaged mitochondria. Molecular Biology of the Cell, 2013, 24, 1263-1273.	2.1	31
70	PAS Kinase Promotes Cell Survival and Growth Through Activation of Rho1. Science Signaling, 2012, 5, ra9.	3.6	12
71	A Mitochondrial Pyruvate Carrier Required for Pyruvate Uptake in Yeast, <i>Drosophila</i> , and Humans. Science, 2012, 337, 96-100.	12.6	694
72	Revealing the Allosterome: Systematic Identification of Metabolite-Protein Interactions. Biochemistry, 2012, 51, 225-232.	2.5	48

#	ARTICLE	IF	CITATIONS
73	Identification of a Protein Mediating Respiratory Supercomplex Stability. <i>Cell Metabolism</i> , 2012, 15, 348-360.	16.2	195
74	Proliferation and Metabolism: It's as Easy as APC. <i>Cell Metabolism</i> , 2012, 15, 413-414.	16.2	2
75	PAS kinase: Integrating nutrient sensing with nutrient partitioning. <i>Seminars in Cell and Developmental Biology</i> , 2012, 23, 626-630.	5.0	13
76	Ubiquitin-dependent mitochondrial protein degradation. <i>International Journal of Biochemistry and Cell Biology</i> , 2011, 43, 1422-1426.	2.8	63
77	Mitochondrial quality control by the ubiquitin-proteasome system. <i>Biochemical Society Transactions</i> , 2011, 39, 1509-1513.	3.4	168
78	Human Mutation within Per-Arnt-Sim (PAS) Domain-containing Protein Kinase (PASK) Causes Basal Insulin Hypersecretion*. <i>Journal of Biological Chemistry</i> , 2011, 286, 44005-44014.	3.4	21
79	Structural Bases of PAS Domain-regulated Kinase (PASK) Activation in the Absence of Activation Loop Phosphorylation. <i>Journal of Biological Chemistry</i> , 2010, 285, 41034-41043.	3.4	26
80	The Role of PAS Kinase in PAssing the Glucose Signal. <i>Sensors</i> , 2010, 10, 5668-5682.	3.8	19
81	Succinate dehydrogenase Assembly, regulation and role in human disease. <i>Mitochondrion</i> , 2010, 10, 393-401.	3.4	313
82	A Stress-Responsive System for Mitochondrial Protein Degradation. <i>Molecular Cell</i> , 2010, 40, 465-480.	9.7	275
83	Pancreatic and duodenal homeobox 1 (PDX1) phosphorylation at serine-269 is HIPK2-dependent and affects PDX1 subnuclear localization. <i>Biochemical and Biophysical Research Communications</i> , 2010, 399, 155-161.	2.1	30
84	<i>SDH5</i> , a Gene Required for Flavination of Succinate Dehydrogenase, Is Mutated in Paraganglioma. <i>Science</i> , 2009, 325, 1139-1142.	12.6	682
85	Revealing human disease genes through analysis of the yeast mitochondrial proteome. <i>Cell Cycle</i> , 2009, 8, 4007-4008.	2.6	7
86	Regulation and function of yeast PAS kinase: A role in the maintenance of cellular integrity. <i>Cell Cycle</i> , 2009, 8, 1824-1832.	2.6	13
87	Involvement of Per-Arnt-Sim Kinase and Extracellular-Regulated Kinases-1/2 in Palmitate Inhibition of Insulin Gene Expression in Pancreatic β -Cells. <i>Diabetes</i> , 2009, 58, 2048-2058.	0.6	55
88	The role of PAS kinase in regulating energy metabolism. <i>IUBMB Life</i> , 2008, 60, 204-209.	3.4	35
89	Efficient gene targeting in <i>Drosophila</i> by direct embryo injection with zinc-finger nucleases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 19821-19826.	7.1	270
90	PAS kinase is required for normal cellular energy balance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 15466-15471.	7.1	65

#	ARTICLE	IF	CITATIONS
91	Regulation of Glucose Partitioning by PAS Kinase and Ugp1 Phosphorylation. <i>Molecular Cell</i> , 2007, 26, 491-499.	9.7	48
92	Yeast PAS kinase coordinates glucose partitioning in response to metabolic and cell integrity signaling. <i>EMBO Journal</i> , 2007, 26, 4824-4830.	7.8	44
93	Dosage suppression of the <i>Kluyveromyces lactis</i> zymocin by <i>Saccharomyces cerevisiae</i> ISR1 and UGP1. <i>FEMS Yeast Research</i> , 2007, 7, 722-730.	2.3	8
94	PAS kinase and the maintenance of energy homeostasis. <i>FASEB Journal</i> , 2007, 21, A206.	0.5	0
95	Whence cometh the allosterome?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 10533-10535.	7.1	99
96	Control of mammalian glycogen synthase by PAS kinase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 16596-16601.	7.1	48
97	Involvement of Per-Arnt-Sim (PAS) kinase in the stimulation of preproinsulin and pancreatic duodenum homeobox 1 gene expression by glucose. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 8319-8324.	7.1	66
98	NPAS2: A Gas-Responsive Transcription Factor. <i>Science</i> , 2002, 298, 2385-2387.	12.6	429
99	AMERSHAM BIOSCIENCES AND SCIENCE PRIZE: ESSAYS ON SCIENCE AND SOCIETY: PAS Domains and Metabolic Status Signaling. <i>Science</i> , 2002, 298, 1567-1568.	12.6	10
100	Coordinate Regulation of Sugar Flux and Translation by PAS Kinase. <i>Cell</i> , 2002, 111, 17-28.	28.9	99
101	Structure and Interactions of PAS Kinase N-Terminal PAS Domain. <i>Structure</i> , 2002, 10, 1349-1361.	3.3	140
102	Metabolism and the Control of Circadian Rhythms. <i>Annual Review of Biochemistry</i> , 2002, 71, 307-331.	11.1	361
103	Impaired Cued and Contextual Memory in NPAS2-Deficient Mice. <i>Science</i> , 2000, 288, 2226-2230.	12.6	216