

Marc Biran

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,379
citations

361413

20
h-index

610901

24
g-index

27
all docs

27
docs citations

27
times ranked

1109
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing the Metabolic Network in Bloodstream-Form <i>Trypanosoma brucei</i> Using Untargeted Metabolomics with Stable Isotope Labelled Glucose. <i>PLoS Pathogens</i> , 2015, 11, e1004689.	4.7	128
2	Succinate Secreted by <i>Trypanosoma brucei</i> Is Produced by a Novel and Unique Glycosomal Enzyme, NADH-dependent Fumarate Reductase. <i>Journal of Biological Chemistry</i> , 2002, 277, 38001-38012.	3.4	127
3	Glucose-induced Remodeling of Intermediary and Energy Metabolism in Procyclic <i>Trypanosoma brucei</i> . <i>Journal of Biological Chemistry</i> , 2008, 283, 16342-16354.	3.4	113
4	Proline Metabolism is Essential for <i>Trypanosoma brucei brucei</i> Survival in the Tsetse Vector. <i>PLoS Pathogens</i> , 2017, 13, e1006158.	4.7	107
5	Acetyl:Succinate CoA-transferase in Procyclic <i>Trypanosoma brucei</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 45337-45346.	3.4	92
6	ATP Generation in the <i>Trypanosoma brucei</i> Procyclic Form. <i>Journal of Biological Chemistry</i> , 2003, 278, 49625-49635.	3.4	89
7	Revisiting the Central Metabolism of the Bloodstream Forms of <i>Trypanosoma brucei</i> : Production of Acetate in the Mitochondrion Is Essential for Parasite Viability. <i>PLoS Neglected Tropical Diseases</i> , 2013, 7, e2587.	3.0	89
8	A Mitochondrial NADH-dependent Fumarate Reductase Involved in the Production of Succinate Excreted by Procyclic <i>Trypanosoma brucei</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 16559-16570.	3.4	87
9	Acetate produced in the mitochondrion is the essential precursor for lipid biosynthesis in procyclic trypanosomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 12694-12699.	7.1	72
10	Cytosolic NADPH Homeostasis in Glucose-starved Procyclic <i>Trypanosoma brucei</i> Relies on Malic Enzyme and the Pentose Phosphate Pathway Fed by Gluconeogenic Flux. <i>Journal of Biological Chemistry</i> , 2013, 288, 18494-18505.	3.4	61
11	The threonine degradation pathway of the <i>Trypanosoma brucei</i> procyclic form: the main carbon source for lipid biosynthesis is under metabolic control. <i>Molecular Microbiology</i> , 2013, 90, 114-129.	2.5	58
12	Fumarate Is an Essential Intermediary Metabolite Produced by the Procyclic <i>Trypanosoma brucei</i> . <i>Journal of Biological Chemistry</i> , 2006, 281, 26832-26846.	3.4	53
13	ATP Synthesis-coupled and -uncoupled Acetate Production from Acetyl-CoA by Mitochondrial Acetate:Succinate CoA-transferase and Acetyl-CoA Thioesterase in <i>Trypanosoma</i> . <i>Journal of Biological Chemistry</i> , 2012, 287, 17186-17197.	3.4	39
14	Contribution of Pyruvate Phosphate Dikinase in the Maintenance of the Glycosomal ATP/ADP Balance in the <i>Trypanosoma brucei</i> Procyclic Form. <i>Journal of Biological Chemistry</i> , 2014, 289, 17365-17378.	3.4	37
15	Ablation of Succinate Production from Glucose Metabolism in the Procyclic Trypanosomes Induces Metabolic Switches to the Glycerol 3-Phosphate/Dihydroxyacetone Phosphate Shuttle and to Proline Metabolism. <i>Journal of Biological Chemistry</i> , 2010, 285, 32312-32324.	3.4	35
16	Gluconeogenesis is essential for trypanosome development in the tsetse fly vector. <i>PLoS Pathogens</i> , 2018, 14, e1007502.	4.7	34
17	Alanine aminotransferase of <i>Trypanosoma brucei</i> "a key role in proline metabolism in procyclic life forms. <i>FEBS Journal</i> , 2009, 276, 7187-7199.	4.7	32
18	Glycerol supports growth of the <i>Trypanosoma brucei</i> bloodstream forms in the absence of glucose: Analysis of metabolic adaptations on glycerol-rich conditions. <i>PLoS Pathogens</i> , 2018, 14, e1007412.	4.7	32

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19	Combining reverse genetics and nuclear magnetic resonance-based metabolomics unravels trypanosome-specific metabolic pathways. <i>Molecular Microbiology</i> , 2015, 96, 917-926.	2.5	28
20	De novo biosynthesis of sterols and fatty acids in the <i>Trypanosoma brucei</i> procyclic form: Carbon source preferences and metabolic flux redistributions. <i>PLoS Pathogens</i> , 2018, 14, e1007116.	4.7	27
21	Procyclic trypanosomes recycle glucose catabolites and TCA cycle intermediates to stimulate growth in the presence of physiological amounts of proline. <i>PLoS Pathogens</i> , 2021, 17, e1009204.	4.7	16
22	Fatty acid oxidation participates in resistance to nutrient-depleted environments in the insect stages of <i>Trypanosoma cruzi</i> . <i>PLoS Pathogens</i> , 2021, 17, e1009495.	4.7	9
23	Glycerol suppresses glucose consumption in trypanosomes through metabolic contest. <i>PLoS Biology</i> , 2021, 19, e3001359.	5.6	7
24	Metabolic selection of a homologous recombination-mediated gene loss protects <i>Trypanosoma brucei</i> from ROS production by glycosomal fumarate reductase. <i>Journal of Biological Chemistry</i> , 2021, 296, 100548.	3.4	4