Chitra Subramanian

List of Publications by Year
in descending order

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32 papers	1,810 citations	361413 20 h-index	434195 31 g-index
33 all docs	33 docs citations	33 times ranked	2598 citing authors

#	Article	IF	Citations
1	Metabolic basis for the differential susceptibility of Gram-positive pathogens to fatty acid synthesis inhibitors. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15378-15383.	7.1	178
2	Sustained Generation of Nitric Oxide and Control of Mycobacterial Infection Requires Argininosuccinate Synthase 1. Cell Host and Microbe, 2012, 12, 313-323.	11.0	154
3	Identification of a two-component fatty acid kinase responsible for host fatty acid incorporation by Staphylococcus aureus. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10532-10537.	7.1	141
4	Cancer-associated Isocitrate Dehydrogenase Mutations Inactivate NADPH-dependent Reductive Carboxylation. Journal of Biological Chemistry, 2012, 287, 14615-14620.	3.4	140
5	Imaging protein interactions with bioluminescence resonance energy transfer (BRET) in plant and mammalian cells and tissues. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 10264-10269.	7.1	130
6	The Arabidopsis repressor of light signaling, COP1, is regulated by nuclear exclusion: Mutational analysis by bioluminescence resonance energy transfer. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 6798-6802.	7.1	119
7	Identification of a Hsp70 Recognition Domain within the Rubisco Small Subunit Transit Peptide. Plant Physiology, 2000, 122, 1289-1300.	4.8	108
8	Incorporation of extracellular fatty acids by a fatty acid kinaseâ€dependent pathway in <scp>S</scp>taphylococcus aureus. Molecular Microbiology, 2014, 92, 234-245.	2.5	90
9	Structural basis for the transcriptional regulation of membrane lipid homeostasis. Nature Structural and Molecular Biology, 2010, 17, 971-975.	8.2	79
10	A suite of tools and application notes forin vivoprotein interaction assays using bioluminescence resonance energy transfer (BRET). Plant Journal, 2006, 48, 138-152.	5.7	71
11	FabH selectivity for anteiso branched-chain fatty acid precursors in low-temperature adaptation inListeria monocytogenes. FEMS Microbiology Letters, 2009, 301, 188-192.	1.8	65
12	A therapeutic approach to pantothenate kinase associated neurodegeneration. Nature Communications, 2018, 9, 4399.	12.8	65
13	A Ïƒ^Wâ€dependent stress response in Bacillus subtilis that reduces membrane fluidity. Molecular Microbiology, 2011, 81, 69-79.	2.5	64
14	T Cells Encountering Myeloid Cells Programmed for Amino Acid-dependent Immunosuppression Use Rictor/mTORC2 Protein for Proliferative Checkpoint Decisions. Journal of Biological Chemistry, 2017, 292, 15-30.	3.4	52
15	Functional Analysis of Semi-conserved Transit Peptide Motifs and Mechanistic Implications in Precursor Targeting and Recognition. Molecular Plant, 2016, 9, 1286-1301.	8.3	42
16	Oleate hydratase from Staphylococcus aureus protects against palmitoleic acid, the major antimicrobial fatty acid produced by mammalian skin. Journal of Biological Chemistry, 2019, 294, 9285-9294.	3.4	33
17	Role of Fatty Acid Kinase in Cellular Lipid Homeostasis and SaeRS-Dependent Virulence Factor Expression in Staphylococcus aureus. MBio, 2017, 8, .	4.1	31
18	Allosteric Regulation of Mammalian Pantothenate Kinase. Journal of Biological Chemistry, 2016, 291, 22302-22314.	3.4	29

#	Article	IF	Citations
19	Human pantothenate kinase 4 is a pseudoâ€pantothenate kinase. Protein Science, 2019, 28, 1031-1047.	7.6	29
20	DesT Coordinates the Expression of Anaerobic and Aerobic Pathways for Unsaturated Fatty Acid Biosynthesis in Pseudomonas aeruginosa. Journal of Bacteriology, 2010, 192, 280-285.	2.2	28
21	In Vivo Detection of Proteinâ€“Protein Interaction in Plant Cells Using BRET. , 2004, 284, 271-286.		27
22	Host Fatty Acid Utilization by Staphylococcus aureus at the Infection Site. MBio, 2020, 11, .	4.1	26
23	Acyl-chain selectivity and physiological roles of Staphylococcus aureus fatty acidâ€“binding proteins. Journal of Biological Chemistry, 2019, 294, 38-49.	3.4	25
24	A pantothenate kinase-deficient mouse model reveals a gene expression program associated with brain coenzyme a reduction. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2020, 1866, 165663.	3.8	25
25	Malonyl-acyl carrier protein decarboxylase activity promotes fatty acid and cell envelope biosynthesis in Proteobacteria. Journal of Biological Chemistry, 2021, 297, 101434.	3.4	15
26	Pantothenate kinase activation relieves coenzyme A sequestration and improves mitochondrial function in mice with propionic acidemia. Science Translational Medicine, 2021, 13, eabf5965.	12.4	12
27	Quantification of Coenzyme A in Cells and Tissues. Journal of Visualized Experiments, 2019, , .	0.3	7
28	Identification of Structural transitions in bacterial fatty acid binding proteins that permit ligand entry and exit at membranes. Journal of Biological Chemistry, 2022, , 101676.	3.4	7
29	Technical Advance: Cytometric analysis of an epitope-tagged transit peptide bound to the chloroplast translocation apparatus. Plant Journal, 2001, 25, 349-363.	5.7	6
30	Domain architecture and catalysis of the Staphylococcus aureus fatty acid kinase. Journal of Biological Chemistry, 2022, 298, 101993.	3.4	6
31	LipE guided discovery of isopropylphenyl pyridazines as pantothenate kinase modulators. Bioorganic and Medicinal Chemistry, 2021, 52, 116504.	3.0	3
32	Proton magnetic resonance spectroscopy detects cerebral metabolic derangement in a mouse model of brain coenzyme a deficiency. Journal of Translational Medicine, 2022, 20, 103.	4.4	3