Sunil Laxman

List of Publications by Year
in descending order

50 papers	1,405 citations	361413 20 h-index	361022 35 g-index
67 all docs	67 docs citations	67 times ranked	2004 citing authors

#	Article	IF	Citations
1	Methionine Inhibits Autophagy and Promotes Growth by Inducing the SAM-Responsive Methylation of PP2A. Cell, 2013, 154, 403-415.	28.9	203
2	Sulfur Amino Acids Regulate Translational Capacity and Metabolic Homeostasis through Modulation of tRNA Thiolation. Cell, 2013, 154, 416-429.	28.9	189
3	Hydrolysis products of cAMP analogs cause transformation of Trypanosoma brucei from slender to stumpy-like forms. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 19194-19199.	7.1	84
4	The glyoxylate shunt is essential for desiccation tolerance in C. elegans and budding yeast. ELife, 2016, 5, .	6.0	64
5	Structure-based design and mechanisms of allosteric inhibitors for mitochondrial branched-chain Î±-ketoacid dehydrogenase kinase. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9728-9733.	7.1	58
6	Metabolite Regulation of Nuclear Localization of Carbohydrate-response Element-binding Protein (ChREBP). Journal of Biological Chemistry, 2016, 291, 10515-10527.	3.4	58
7	A tRNA modification balances carbon and nitrogen metabolism by regulating phosphate homeostasis. ELife, 2019, 8, .	6.0	49
8	Methionine is a signal of amino acid sufficiency that inhibits autophagy through the methylation of PP2A. Autophagy, 2014, 10, 386-387.	9.1	45
9	Decoding the stem cell quiescence cycle â€" lessons from yeast for regenerative biology. Journal of Cell Science, 2015, 128, 4467-4474.	2.0	45
10	Cyclic Nucleotide Signaling Mechanisms in Trypanosomes: Possible Targets for Therapeutic Agents. Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics, 2007, 7, 203-215.	3.4	43
11	Npr2 inhibits TORC1 to prevent inappropriate utilization of glutamine for biosynthesis of nitrogen-containing metabolites. Science Signaling, 2014, 7, ra120.	3.6	42
12	Metabolic constraints drive self-organization of specialized cell groups. ELife, 2019, 8, .	6.0	42
13	Regulation of Hematopoiesis and Methionine Homeostasis by mTORC1 Inhibitor NPRL2. Cell Reports, 2015, 12, 371-379.	6.4	40
14	Cyclic nucleotide specific phosphodiesterases of the kinetoplastida: A unified nomenclature. Molecular and Biochemical Parasitology, 2006, 145, 133-135.	1.1	39
15	Methionine coordinates a hierarchically organized anabolic program enabling proliferation. Molecular Biology of the Cell, 2018, 29, 3183-3200.	2.1	36
16	A versatile LC-MS/MS approach for comprehensive, quantitative analysis of central metabolic pathways. Wellcome Open Research, 2018, 3, 122.	1.8	34
17	Anabolic SIRT4 Exerts Retrograde Control over TORC1 Signaling by Glutamine Sparing in the Mitochondria. Molecular and Cellular Biology, 2020, 40, .	2.3	31
18	Methionine at the Heart of Anabolism and Signaling: Perspectives From Budding Yeast. Frontiers in Microbiology, 2019, 10, 2624.	3.5	30

#	Article	IF	Citations
19	Trypanosome Cyclic Nucleotide Phosphodiesterase 2B Binds cAMP through Its GAF-A Domain. Journal of Biological Chemistry, 2005, 280, 3771-3779.	3.4	27
20	Characterization of a novel cAMP-binding, cAMP-specific cyclic nucleotide phosphodiesterase (TcrPDEB1) from Trypanosoma cruzi. Biochemical Journal, 2006, 399, 305-314.	3.7	24
21	Behavior of a Metabolic Cycling Population at the Single Cell Level as Visualized by Fluorescent Gene Expression Reporters. PLoS ONE, 2010, 5, e12595.	2.5	23
22	Multiple TORC1-Associated Proteins Regulate Nitrogen Starvation-Dependent Cellular Differentiation in Saccharomyces cerevisiae. PLoS ONE, 2011, 6, e26081.	2.5	18
23	Allosteric inhibition of MTHFR prevents futile SAM cycling and maintains nucleotide pools in one-carbon metabolism. Journal of Biological Chemistry, 2020, 295, 16037-16057.	3.4	17
24	tRNA wobble-uridine modifications as amino acid sensors and regulators of cellular metabolic state. Current Genetics, 2020, 66, 475-480.	1.7	16
25	Systems approaches for the study of metabolic cycles in yeast. Current Opinion in Genetics and Development, 2010, 20, 599-604.	3.3	15
26	The Rad53CHK1/CHK2-Spt21NPAT and Tel1ATM axes couple glucose tolerance to histone dosage and subtelomeric silencing. Nature Communications, 2020, 11, 4154.	12.8	14
27	Thiol trapping and metabolic redistribution of sulfur metabolites enable cells to overcome cysteine overload. Microbial Cell, 2017, 4, 112-126.	3.2	14
28	A minimal â€œpushâ€“pullâ€•bistability model explains oscillations between quiescent and proliferative cell states. Molecular Biology of the Cell, 2018, 29, 2243-2258.	2.1	12
29	The pentose phosphate pathway and organization of metabolic networks enabling growth programs. Current Opinion in Systems Biology, 2021, 28, 100390.	2.6	10
30	<i>S</i> -Adenosylmethionineâ€“responsive cystathionine Î²-synthase modulates sulfur metabolism and redox balance in <i>Mycobacterium</i> <i>tuberculosis</i>. Science Advances, 2022, 8, .	10.3	10
31	Kog1/Raptor mediates metabolic rewiring during nutrient limitation by controlling SNF1/AMPK activity. Science Advances, 2021, 7, .	10.3	9
32	Cycles, sources, and sinks: Conceptualizing how phosphate balance modulates carbon flux using yeast metabolic networks. ELife, 2021, 10, .	6.0	8
33	Resource plasticity-driven carbon-nitrogen budgeting enables specialization and division of labor in a clonal community. ELife, 2020, 9, .	6.0	8
34	Mycobacterium tuberculosis requires SufT for Fe-S cluster maturation, metabolism, and survival in vivo. PLoS Pathogens, 2022, 18, e1010475.	4.7	7
35	Conceptualizing Eukaryotic Metabolic Sensing and Signaling. Journal of the Indian Institute of Science, 2017, 97, 59-77.	1.9	5
36	The E3 ubiquitin ligase Pib1 regulates effective gluconeogenic shutdown upon glucose availability. Journal of Biological Chemistry, 2019, 294, 17209-17223.	3.4	5

#	Article	IF	Citations
37	Steady-state and Flux-based Trehalose Estimation as an Indicator of Carbon Flow from Gluconeogenesis or Glycolysis. Bio-protocol, 2020, 10, e3483.	0.4	5
38	Methylated PP2A stabilizes Gcn4 to enable a methionine-induced anabolic program. Journal of Biological Chemistry, 2020, 295, 18390-18405.	3.4	4
39	Genome-scale reconstruction of Gcn4/ATF4 networks driving a growth program. PLoS Genetics, 2020, 16, e1009252.	3.5	4
40	Concerted Effort: Oscillations in Global Gene Expression during Nematode Development. Molecular Cell, 2014, 53, 363-364.	9.7	3
41	Emergence of metabolic heterogeneity in cell populations: lessons from budding yeast. , 2020, , 335-360.		3
42	Bend or break: how biochemically versatile molecules enable metabolic division of labor in clonal microbial communities. Genetics, 2021, 219, .	2.9	3
43	Phosphodiesterase 10. , 2007, , 1-11.		0
44	The bacterial social network and beyond. Nature Reviews Molecular Cell Biology, 2021, 22, 443-443.	37.0	0
45	A novel inhibitor of the T. brucei TbPDE2 cAMP phosphodiesterase family is a potent trypanocidal agent. FASEB Journal, 2006, 20, A1116.	0.5	0
46	tRNA wobbleâ€uridine modification pathways play critical roles in maintaining growth under nutrient limitation by altering the translational capacity of the cell. FASEB Journal, 2012, 26, 944.2.	0.5	0
47	Genome-scale reconstruction of Gcn4/ATF4 networks driving a growth program. , 2020, 16, e1009252.		0
48	Genome-scale reconstruction of Gcn4/ATF4 networks driving a growth program. , 2020, 16, e1009252.		0
49	Genome-scale reconstruction of Gcn4/ATF4 networks driving a growth program. , 2020, 16, e1009252.		0
50	Genome-scale reconstruction of Gcn4/ATF4 networks driving a growth program. , 2020, 16, e1009252.		0