

# Benjamin P Tu

## List of Publications by Citations

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73  
papers

7,029  
citations

34  
h-index

81  
g-index

81  
ext. papers

8,446  
ext. citations

16.6  
avg, IF

6.2  
L-index

#	Paper	IF	Citations
73	Oxidative protein folding in eukaryotes: mechanisms and consequences. <i>Journal of Cell Biology</i> , <b>2004</b> , 164, 341-6	7.3	810
72	Logic of the yeast metabolic cycle: temporal compartmentalization of cellular processes. <i>Science</i> , <b>2005</b> , 310, 1152-8	33.3	668
71	Acetyl-CoA induces cell growth and proliferation by promoting the acetylation of histones at growth genes. <i>Molecular Cell</i> , <b>2011</b> , 42, 426-37	17.6	467
70	Acetate is a bioenergetic substrate for human glioblastoma and brain metastases. <i>Cell</i> , <b>2014</b> , 159, 1603-14	16.2	457
69	The U6 snRNA m <sup>6</sup> A Methyltransferase METTL16 Regulates SAM Synthetase Intron Retention. <i>Cell</i> , <b>2017</b> , 169, 824-835.e14	56.2	445
68	Analysis of tumor metabolism reveals mitochondrial glucose oxidation in genetically diverse human glioblastomas in the mouse brain in vivo. <i>Cell Metabolism</i> , <b>2012</b> , 15, 827-37	24.6	389
67	Acetate dependence of tumors. <i>Cell</i> , <b>2014</b> , 159, 1591-602	56.2	383
66	The FAD- and O <sub>2</sub> -dependent reaction cycle of Ero1-mediated oxidative protein folding in the endoplasmic reticulum. <i>Molecular Cell</i> , <b>2002</b> , 10, 983-94	17.6	344
65	Acetyl-CoA and the regulation of metabolism: mechanisms and consequences. <i>Current Opinion in Cell Biology</i> , <b>2015</b> , 33, 125-31	9	309
64	Direct regulation of GTP homeostasis by (p)ppGpp: a critical component of viability and stress resistance. <i>Molecular Cell</i> , <b>2012</b> , 48, 231-41	17.6	202
63	Cyclic changes in metabolic state during the life of a yeast cell. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 16886-91	11.5	193
62	Restriction of DNA replication to the reductive phase of the metabolic cycle protects genome integrity. <i>Science</i> , <b>2007</b> , 316, 1916-9	33.3	177
61	Metabolic cycles as an underlying basis of biological oscillations. <i>Nature Reviews Molecular Cell Biology</i> , <b>2006</b> , 7, 696-701	48.7	167
60	Methionine inhibits autophagy and promotes growth by inducing the SAM-responsive methylation of PP2A. <i>Cell</i> , <b>2013</b> , 154, 403-15	56.2	152
59	Sulfur amino acids regulate translational capacity and metabolic homeostasis through modulation of tRNA thiolation. <i>Cell</i> , <b>2013</b> , 154, 416-29	56.2	146
58	A Metabolic Function for Phospholipid and Histone Methylation. <i>Molecular Cell</i> , <b>2017</b> , 66, 180-193.e8	17.6	106
57	Acetyl-CoA induces transcription of the key G1 cyclin CLN3 to promote entry into the cell division cycle in <i>Saccharomyces cerevisiae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 7318-23	11.5	98

56	Driving the cell cycle through metabolism. <i>Annual Review of Cell and Developmental Biology</i> , <b>2012</b> , 28, 59-87	12.6	94
55	Trehalose is a key determinant of the quiescent metabolic state that fuels cell cycle progression upon return to growth. <i>Molecular Biology of the Cell</i> , <b>2010</b> , 21, 1982-90	3.5	91
54	Eight Kinetically Stable but Thermodynamically Activated Molecules that Power Cell Metabolism. <i>Chemical Reviews</i> , <b>2018</b> , 118, 1460-1494	68.1	89
53	Mitochondrial localization of telomeric protein TIN2 links telomere regulation to metabolic control. <i>Molecular Cell</i> , <b>2012</b> , 47, 839-50	17.6	70
52	Selective regulation of autophagy by the Iml1-Npr2-Npr3 complex in the absence of nitrogen starvation. <i>Molecular Biology of the Cell</i> , <b>2011</b> , 22, 4124-33	3.5	64
51	High-resolution timing of cell cycle-regulated gene expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 16892-7	11.5	64
50	Redox State Controls Phase Separation of the Yeast Ataxin-2 Protein via Reversible Oxidation of Its Methionine-Rich Low-Complexity Domain. <i>Cell</i> , <b>2019</b> , 177, 711-721.e8	56.2	60
49	Identification and evaluation of cycling yeast metabolites in two-dimensional comprehensive gas chromatography-time-of-flight-mass spectrometry data. <i>Journal of Chromatography A</i> , <b>2008</b> , 1186, 401-415	4.5	59
48	High-temporal-resolution view of transcription and chromatin states across distinct metabolic states in budding yeast. <i>Nature Structural and Molecular Biology</i> , <b>2014</b> , 21, 854-63	17.6	55
47	Glucose-Regulated Phosphorylation of the PUF Protein Puf3 Regulates the Translational Fate of Its Bound mRNAs and Association with RNA Granules. <i>Cell Reports</i> , <b>2015</b> , 11, 1638-50	10.6	54
46	ACSS2 promotes systemic fat storage and utilization through selective regulation of genes involved in lipid metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E9499-E9506	11.5	51
45	Sink into the Epigenome: Histones as Repositories That Influence Cellular Metabolism. <i>Trends in Endocrinology and Metabolism</i> , <b>2018</b> , 29, 626-637	8.8	46
44	Autophagy is required for G1C1 quiescence in response to nitrogen starvation in <i>Saccharomyces cerevisiae</i> . <i>Autophagy</i> , <b>2014</b> , 10, 1702-11	10.2	46
43	Metabolite Regulation of Nuclear Localization of Carbohydrate-response Element-binding Protein (ChREBP): ROLE OF AMP AS AN ALLOSTERIC INHIBITOR. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 10515-27	5.4	43
42	Yeast Ataxin-2 Forms an Intracellular Condensate Required for the Inhibition of TORC1 Signaling during Respiratory Growth. <i>Cell</i> , <b>2019</b> , 177, 697-710.e17	56.2	42
41	Methionine is a signal of amino acid sufficiency that inhibits autophagy through the methylation of PP2A. <i>Autophagy</i> , <b>2014</b> , 10, 386-7	10.2	37
40	Cycling Transcriptional Networks Optimize Energy Utilization on a Genome Scale. <i>Cell Reports</i> , <b>2015</b> , 13, 1868-80	10.6	36
39	Gatekeepers of chromatin: Small metabolites elicit big changes in gene expression. <i>Trends in Biochemical Sciences</i> , <b>2012</b> , 37, 477-83	10.3	33

38	Cycloheximide can distort measurements of mRNA levels and translation efficiency. <i>Nucleic Acids Research</i> , <b>2019</b> , 47, 4974-4985	20.1	31
37	Regulation of Hematopoiesis and Methionine Homeostasis by mTORC1 Inhibitor NPRL2. <i>Cell Reports</i> , <b>2015</b> , 12, 371-9	10.6	31
36	Npr2 inhibits TORC1 to prevent inappropriate utilization of glutamine for biosynthesis of nitrogen-containing metabolites. <i>Science Signaling</i> , <b>2014</b> , 7, ra120	8.8	31
35	Protein acetylation as a means to regulate protein function in tune with metabolic state. <i>Biochemical Society Transactions</i> , <b>2014</b> , 42, 1037-42	5.1	29
34	Toward a global analysis of metabolites in regulatory mutants of yeast. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 401, 2387-402	4.4	27
33	Integration of multiple nutrient cues and regulation of lifespan by ribosomal transcription factor Ifh1. <i>Cell Reports</i> , <b>2013</b> , 4, 1063-71	10.6	25
32	Loss of a Negative Regulator of mTORC1 Induces Aerobic Glycolysis and Altered Fiber Composition in Skeletal Muscle. <i>Cell Reports</i> , <b>2018</b> , 23, 1907-1914	10.6	25
31	Methyl-Metabolite Depletion Elicits Adaptive Responses to Support Heterochromatin Stability and Epigenetic Persistence. <i>Molecular Cell</i> , <b>2020</b> , 78, 210-223.e8	17.6	23
30	GMP synthase is essential for viability and infectivity of <i>Trypanosoma brucei</i> despite a redundant purine salvage pathway. <i>Molecular Microbiology</i> , <b>2015</b> , 97, 1006-20	4.1	21
29	Behavior of a metabolic cycling population at the single cell level as visualized by fluorescent gene expression reporters. <i>PLoS ONE</i> , <b>2010</b> , 5, e12595	3.7	19
28	Demethylation of the Protein Phosphatase PP2A Promotes Demethylation of Histones to Enable Their Function as a Methyl Group Sink. <i>Molecular Cell</i> , <b>2019</b> , 73, 1115-1126.e6	17.6	19
27	Evidence of carbon monoxide-mediated phase advancement of the yeast metabolic cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 14293-6	11.5	17
26	Low escape-rate genome safeguards with minimal molecular perturbation of. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E1470-E1479	11.5	14
25	Redox-mediated regulation of an evolutionarily conserved cross- $\beta$ structure formed by the TDP43 low complexity domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 28727-28734	11.5	14
24	Product feedback regulation implicated in translational control of the <i>Trypanosoma brucei</i> S-adenosylmethionine decarboxylase regulatory subunit prozyme. <i>Molecular Microbiology</i> , <b>2013</b> , 88, 846-61	4.1	14
23	A Subset of Exoribonucleases Serve as Degradative Enzymes for pGpG in c-di-GMP Signaling. <i>Journal of Bacteriology</i> , <b>2018</b> , 200,	3.5	14
22	GATOR1 regulates nitrogenic cataplerotic reactions of the mitochondrial TCA cycle. <i>Nature Chemical Biology</i> , <b>2017</b> , 13, 1179-1186	11.7	13
21	Dietary control of chromatin. <i>Current Opinion in Cell Biology</i> , <b>2015</b> , 34, 69-74	9	12

20	Systems approaches for the study of metabolic cycles in yeast. <i>Current Opinion in Genetics and Development</i> , <b>2010</b> , 20, 599-604	4.9	12
19	The Lon Protease Links Nucleotide Metabolism with Proteotoxic Stress. <i>Molecular Cell</i> , <b>2020</b> , 79, 758-767.e6	17.6	9
18	Ultradian metabolic cycles in yeast. <i>Methods in Enzymology</i> , <b>2010</b> , 470, 857-66	1.7	8
17	Glucose starvation induces a switch in the histone acetylome for activation of gluconeogenic and fat metabolism genes.. <i>Molecular Cell</i> , <b>2022</b> , 82, 60-74.e5	17.6	8
16	SAM homeostasis is regulated by CFI-mediated splicing of MAT2A. <i>ELife</i> , <b>2021</b> , 10,	8.9	7
15	Autophagy sustains glutamate and aspartate synthesis in <i>Saccharomyces cerevisiae</i> during nitrogen starvation. <i>Nature Communications</i> , <b>2021</b> , 12, 57	17.4	6
14	TMEM120A is a coenzyme A-binding membrane protein with structural similarities to ELOVL fatty acid elongase. <i>ELife</i> , <b>2021</b> , 10,	8.9	6
13	Competitive inhibition can linearize dose-response and generate a linear rectifier. <i>Cell Systems</i> , <b>2015</b> , 1, 238-245	10.6	5
12	Regulation of translation by methylation multiplicity of 18S rRNA. <i>Cell Reports</i> , <b>2021</b> , 34, 108825	10.6	5
11	Redox-mediated regulation of low complexity domain self-association. <i>Current Opinion in Genetics and Development</i> , <b>2021</b> , 67, 111-118	4.9	5
10	Phylogenetic debugging of a complete human biosynthetic pathway transplanted into yeast. <i>Nucleic Acids Research</i> , <b>2020</b> , 48, 486-499	20.1	4
9	Let the data speak. <i>Nature Reviews Molecular Cell Biology</i> , <b>2006</b> , 7, 1-2	48.7	3
8	Human to yeast pathway transplantation: cross-species dissection of the adenine de novo pathway regulatory node		3
7	Metabolic influences on RNA biology and translation. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , <b>2017</b> , 52, 176-184	8.7	2
6	Concerted effort: oscillations in global gene expression during nematode development. <i>Molecular Cell</i> , <b>2014</b> , 53, 363-4	17.6	2
5	Tissue-specific FAH deficiency alters sleep-wake patterns and results in chronic tyrosinemia in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 22229-22236	11.5	2
4	Leveraging insights into cancer metabolism-a symposium report. <i>Annals of the New York Academy of Sciences</i> , <b>2020</b> , 1462, 5-13	6.5	1
3	Metabolic signals that drive cell growth and proliferation. <i>FASEB Journal</i> , <b>2012</b> , 26, 92.3	0.9	

- 2 tRNA wobble-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 0.9
- 1 Increased glycine contributes to synaptic dysfunction and early mortality in Nprl2 seizure model. *IScience*, **2022**, 25, 104334 6.1