

# Thomas J Begley

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

7,553  
citations

394421

19  
h-index

477307

29  
g-index

31  
all docs

31  
docs citations

31  
times ranked

16050  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	A Quantitative Systems Approach Reveals Dynamic Control of tRNA Modifications during Cellular Stress. <i>PLoS Genetics</i> , 2010, 6, e1001247.	3.5	386
3	Reprogramming of tRNA modifications controls the oxidative stress response by codon-biased translation of proteins. <i>Nature Communications</i> , 2012, 3, 937.	12.8	348
4	Trm9-Catalyzed tRNA Modifications Link Translation to the DNA Damage Response. <i>Molecular Cell</i> , 2007, 28, 860-870.	9.7	275
5	Mitochondrial ROS control of cancer. <i>Seminars in Cancer Biology</i> , 2017, 47, 57-66.	9.6	222
6	Quantitative analysis of ribonucleoside modifications in tRNA by HPLC-coupled mass spectrometry. <i>Nature Protocols</i> , 2014, 9, 828-841.	12.0	221
7	Human AlkB Homolog ABH8 Is a tRNA Methyltransferase Required for Wobble Uridine Modification and DNA Damage Survival. <i>Molecular and Cellular Biology</i> , 2010, 30, 2449-2459.	2.3	182
8	tRNA modifications regulate translation during cellular stress. <i>FEBS Letters</i> , 2014, 588, 4287-4296.	2.8	138
9	Codon-biased translation can be regulated by wobble-base tRNA modification systems during cellular stress responses. <i>RNA Biology</i> , 2015, 12, 603-614.	3.1	129
10	tRNA-mediated codon-biased translation in mycobacterial hypoxic persistence. <i>Nature Communications</i> , 2016, 7, 13302.	12.8	129
11	Global network analysis of phenotypic effects: Protein networks and toxicity modulation in <i>Saccharomyces cerevisiae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 18006-18011.	7.1	123
12	A human tRNA methyltransferase 9-like protein prevents tumour growth by regulating LIN9 and HIF1α. <i>EMBO Molecular Medicine</i> , 2013, 5, 366-383.	6.9	98
13	Trm9-Catalyzed tRNA Modifications Regulate Global Protein Expression by Codon-Biased Translation. <i>PLoS Genetics</i> , 2015, 11, e1005706.	3.5	92
14	Translational infidelity-induced protein stress results from a deficiency in Trm9-catalyzed tRNA modifications. <i>RNA Biology</i> , 2012, 9, 990-1001.	3.1	91
15	Alkbh8 Regulates Selenocysteine-Protein Expression to Protect against Reactive Oxygen Species Damage. <i>PLoS ONE</i> , 2015, 10, e0131335.	2.5	77
16	A Platform for Discovery and Quantification of Modified Ribonucleosides in RNA. <i>Methods in Enzymology</i> , 2015, 560, 29-71.	1.0	69
17	Highly Predictive Reprogramming of tRNA Modifications Is Linked to Selective Expression of Codon-Biased Genes. <i>Chemical Research in Toxicology</i> , 2015, 28, 978-988.	3.3	68
18	A Proteomics Approach to Profiling the Temporal Translational Response to Stress and Growth. <i>IScience</i> , 2018, 9, 367-381.	4.1	39

#	ARTICLE	IF	CITATIONS
19	Loss of epitranscriptomic control of selenocysteine utilization engages senescence and mitochondrial reprogramming. <i>Redox Biology</i> , 2020, 28, 101375.	9.0	25
20	Detecting the epitranscriptome. <i>Wiley Interdisciplinary Reviews RNA</i> , 2021, 12, e1663.	6.4	23
21	Phosphorylation of human TRM9L integrates multiple stress-signaling pathways for tumor growth suppression. <i>Science Advances</i> , 2018, 4, eaas9184.	10.3	22
22	Gene- and genome-based analysis of significant codon patterns in yeast, rat and mice genomes with the CUT Codon UTILization tool. <i>Methods</i> , 2016, 107, 98-109.	3.8	21
23	Towards precision prevention: Technologies for identifying healthy individuals with high risk of disease. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2017, 800-802, 14-28.	1.0	20
24	Epitranscriptomic systems regulate the translation of reactive oxygen species detoxifying and disease linked selenoproteins. <i>Free Radical Biology and Medicine</i> , 2019, 143, 573-593.	2.9	19
25	Comparative analysis of redox and inflammatory properties of pristine nanomaterials and commonly used semiconductor manufacturing nano-abrasives. <i>Toxicology Letters</i> , 2015, 239, 205-215.	0.8	14
26	The epitranscriptomic writer ALKBH8 drives tolerance and protects mouse lungs from the environmental pollutant naphthalene. <i>Epigenetics</i> , 2020, 15, 1121-1138.	2.7	12
27	Genome Profiling for Aflatoxin B1 Resistance in <i>Saccharomyces cerevisiae</i> Reveals a Role for the CSM2/SHU Complex in Tolerance of Aflatoxin B1-Associated DNA Damage. <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 3929-3947.	1.8	6
28	tRNA Modification Detection Using Graphene Nanopores: A Simulation Study. <i>Biomolecules</i> , 2017, 7, 65.	4.0	2
29	Diameter dependent degradation of single walled carbon nanotubes. , 2014, , .		0