Thomas J Begley

List of Publications by Year
in descending order

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	Detecting the epitranscriptome. Wiley Interdisciplinary Reviews RNA, 2021, 12, e1663.	6.4	23
2	Loss of epitranscriptomic control of selenocysteine utilization engages senescence and mitochondrial reprogramming. Redox Biology, 2020, 28, 101375.	9.0	25
3	Genome Profiling for Aflatoxin B1 Resistance in Saccharomyces cerevisiae Reveals a Role for the CSM2/SHU Complex in Tolerance of Aflatoxin B1-Associated DNA Damage. G3: Genes, Genomes, Genetics, 2020, 10, 3929-3947.	1.8	6
4	The epitranscriptomic writer ALKBH8 drives tolerance and protects mouse lungs from the environmental pollutant naphthalene. Epigenetics, 2020, 15, 1121-1138.	2.7	12
5	Epitranscriptomic systems regulate the translation of reactive oxygen species detoxifying and disease linked selenoproteins. Free Radical Biology and Medicine, 2019, 143, 573-593.	2.9	19
6	A Proteomics Approach to Profiling the Temporal Translational Response to Stress and Growth. IScience, 2018, 9, 367-381.	4.1	39
7	Phosphorylation of human TRM9L integrates multiple stress-signaling pathways for tumor growth suppression. Science Advances, 2018, 4, eaas9184.	10.3	22
8	Mitochondrial ROS control of cancer. Seminars in Cancer Biology, 2017, 47, 57-66.	9.6	222
9	Towards precision prevention: Technologies for identifying healthy individuals with high risk of disease. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2017, 800-802, 14-28.	1.0	20
10	tRNA Modification Detection Using Graphene Nanopores: A Simulation Study. Biomolecules, 2017, 7, 65.	4.0	2
11	tRNA-mediated codon-biased translation in mycobacterial hypoxic persistence. Nature Communications, 2016, 7, 13302.	12.8	129
12	Gene- and genome-based analysis of significant codon patterns in yeast, rat and mice genomes with the CUT Codon UTilization tool. Methods, 2016, 107, 98-109.	3.8	21
13	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
14	Trm9-Catalyzed tRNA Modifications Regulate Global Protein Expression by Codon-Biased Translation. PLoS Genetics, 2015, 11, e1005706.	3.5	92
15	Alkbh8 Regulates Selenocysteine-Protein Expression to Protect against Reactive Oxygen Species Damage. PLoS ONE, 2015, 10, e0131335.	2.5	77
16	A Platform for Discovery and Quantification of Modified Ribonucleosides in RNA. Methods in Enzymology, 2015, 560, 29-71.	1.0	69
17	Highly Predictive Reprogramming of tRNA Modifications Is Linked to Selective Expression of Codon-Biased Genes. Chemical Research in Toxicology, 2015, 28, 978-988.	3.3	68
18	Codon-biased translation can be regulated by wobble-base tRNA modification systems during cellular stress responses. RNA Biology, 2015, 12, 603-614.	3.1	129

#	Article	IF	Citations
19	Comparative analysis of redox and inflammatory properties of pristine nanomaterials and commonly used semiconductor manufacturing nano-abrasives. Toxicology Letters, 2015, 239, 205-215.	0.8	14
20	tRNA modifications regulate translation during cellular stress. FEBS Letters, 2014, 588, 4287-4296.	2.8	138
21	Quantitative analysis of ribonucleoside modifications in tRNA by HPLC-coupled mass spectrometry. Nature Protocols, 2014, 9, 828-841.	12.0	221
22	Diameter dependent degradation of single walled carbon nanotubes. , 2014, , .		0
23	A human tRNA methyltransferase 9â€like protein prevents tumour growth by regulating LIN9 and HIF1â€Î±. EMBO Molecular Medicine, 2013, 5, 366-383.	6.9	98
24	Translational infidelity-induced protein stress results from a deficiency in Trm9-catalyzed tRNA modifications. RNA Biology, 2012, 9, 990-1001.	3.1	91
25	Reprogramming of tRNA modifications controls the oxidative stress response by codon-biased translation of proteins. Nature Communications, 2012, 3, 937.	12.8	348
26	Human AlkB Homolog ABH8 Is a tRNA Methyltransferase Required for Wobble Uridine Modification and DNA Damage Survival. Molecular and Cellular Biology, 2010, 30, 2449-2459.	2.3	182
27	A Quantitative Systems Approach Reveals Dynamic Control of tRNA Modifications during Cellular Stress. PLoS Genetics, 2010, 6, e1001247.	3.5	386
28	Trm9-Catalyzed tRNA Modifications Link Translation to the DNA Damage Response. Molecular Cell, 2007, 28, 860-870.	9.7	275
29	Global network analysis of phenotypic effects: Protein networks and toxicity modulation in Saccharomyces cerevisiae. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 18006-18011.	7.1	123