

Tobias Eisenberg

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

14,592
citations

47006

47
h-index

46799

89
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96
all docs

96
docs citations

96
times ranked

24125
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
2	Induction of autophagy by spermidine promotes longevity. Nature Cell Biology, 2009, 11, 1305-1314.	10.3	1,302
3	Cardioprotection and lifespan extension by the natural polyamine spermidine. Nature Medicine, 2016, 22, 1428-1438.	30.7	801
4	Spermidine in health and disease. Science, 2018, 359, .	12.6	616
5	Spermidine and resveratrol induce autophagy by distinct pathways converging on the acetylproteome. Journal of Cell Biology, 2011, 192, 615-629.	5.2	439
6	Regulation of Autophagy by Cytosolic Acetyl-Coenzyme A. Molecular Cell, 2014, 53, 710-725.	9.7	412
7	Endonuclease G Regulates Budding Yeast Life and Death. Molecular Cell, 2007, 25, 233-246.	9.7	305
8	Restoring polyamines protects from age-induced memory impairment in an autophagy-dependent manner. Nature Neuroscience, 2013, 16, 1453-1460.	14.8	283
9	Apoptosis in yeast. Current Opinion in Microbiology, 2004, 7, 655-660.	5.1	272
10	Alternate Day Fasting Improves Physiological and Molecular Markers of Aging in Healthy, Non-obese Humans. Cell Metabolism, 2019, 30, 462-476.e6.	16.2	256
11	IPO: a tool for automated optimization of XCMS parameters. BMC Bioinformatics, 2015, 16, 118.	2.6	249
12	Nucleocytosolic Depletion of the Energy Metabolite Acetyl-Coenzyme A Stimulates Autophagy and Prolongs Lifespan. Cell Metabolism, 2014, 19, 431-444.	16.2	221
13	Caloric restriction mimetics: towards a molecular definition. Nature Reviews Drug Discovery, 2014, 13, 727-740.	46.4	200
14	The mitochondrial pathway in yeast apoptosis. Apoptosis: an International Journal on Programmed Cell Death, 2007, 12, 1011-1023.	4.9	194
15	Lifespan Extension by Methionine Restriction Requires Autophagy-Dependent Vacuolar Acidification. PLoS Genetics, 2014, 10, e1004347.	3.5	192
16	Why yeast cells can undergo apoptosis: death in times of peace, love, and war. Journal of Cell Biology, 2006, 175, 521-525.	5.2	168
17	Guidelines and recommendations on yeast cell death nomenclature. Microbial Cell, 2018, 5, 4-31.	3.2	158
18	Higher spermidine intake is linked to lower mortality: a prospective population-based study. American Journal of Clinical Nutrition, 2018, 108, 371-380.	4.7	150

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19	Spermidine: A novel autophagy inducer and longevity elixir. <i>Autophagy</i> , 2010, 6, 160-162.	9.1	147
20	Caspase-dependent and caspase-independent cell death pathways in yeast. <i>Biochemical and Biophysical Research Communications</i> , 2009, 382, 227-231.	2.1	132
21	Programmed Necrosis. <i>International Review of Cell and Molecular Biology</i> , 2011, 289, 1-35.	3.2	132
22	Spermidine protects against α -synuclein neurotoxicity. <i>Cell Cycle</i> , 2014, 13, 3903-3908.	2.6	132
23	Necrosis in yeast. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2010, 15, 257-268.	4.9	127
24	Yno1p/Aim14p, a NADPH-oxidase ortholog, controls extramitochondrial reactive oxygen species generation, apoptosis, and actin cable formation in yeast. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8658-8663.	7.1	126
25	Prognostic Impact of Vitamin B6 Metabolism in Lung Cancer. <i>Cell Reports</i> , 2012, 2, 257-269.	6.4	122
26	Functional Mitochondria Are Required for α -Synuclein Toxicity in Aging Yeast. <i>Journal of Biological Chemistry</i> , 2008, 283, 7554-7560.	3.4	121
27	A yeast BH3-only protein mediates the mitochondrial pathway of apoptosis. <i>EMBO Journal</i> , 2011, 30, 2779-2792.	7.8	120
28	Identification of Autophagosome-associated Proteins and Regulators by Quantitative Proteomic Analysis and Genetic Screens. <i>Molecular and Cellular Proteomics</i> , 2012, 11, M111.014035.	3.8	118
29	Interdependent regulation of p53 and miR-34a in chronic lymphocytic leukemia. <i>Cell Cycle</i> , 2010, 9, 2836-2840.	2.6	116
30	Nicotinamide for the treatment of heart failure with preserved ejection fraction. <i>Science Translational Medicine</i> , 2021, 13, .	12.4	109
31	Safety and tolerability of spermidine supplementation in mice and older adults with subjective cognitive decline. <i>Aging</i> , 2018, 10, 19-33.	3.1	101
32	The flavonoid 4,4'-dimethoxychalcone promotes autophagy-dependent longevity across species. <i>Nature Communications</i> , 2019, 10, 651.	12.8	100
33	Dietary spermidine improves cognitive function. <i>Cell Reports</i> , 2021, 35, 108985.	6.4	98
34	The Warburg Effect Suppresses Oxidative Stress Induced Apoptosis in a Yeast Model for Cancer. <i>PLoS ONE</i> , 2009, 4, e4592.	2.5	96
35	Yeast caspase 1 links messenger RNA stability to apoptosis in yeast. <i>EMBO Reports</i> , 2005, 6, 1076-1081.	4.5	94
36	TORC1 Promotes Phosphorylation of Ribosomal Protein S6 via the AGC Kinase Ypk3 in <i>Saccharomyces cerevisiae</i> . <i>PLoS ONE</i> , 2015, 10, e0120250.	2.5	93

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37	Autophagy for the avoidance of neurodegeneration. <i>Genes and Development</i> , 2009, 23, 2253-2259.	5.9	91
38	Crucial Mitochondrial Impairment upon CDC48 Mutation in Apoptotic Yeast. <i>Journal of Biological Chemistry</i> , 2006, 281, 25757-25767.	3.4	74
39	Fatty acids trigger mitochondrion-dependent necrosis. <i>Cell Cycle</i> , 2010, 9, 2908-2914.	2.6	71
40	Endonuclease G mediates α -synuclein cytotoxicity during Parkinson's disease. <i>EMBO Journal</i> , 2013, 32, 3041-3054.	7.8	71
41	Triacylglycerol Accumulation Activates the Mitochondrial Apoptosis Pathway in Macrophages. <i>Journal of Biological Chemistry</i> , 2011, 286, 7418-7428.	3.4	66
42	Lipids and cell death in yeast. <i>FEMS Yeast Research</i> , 2014, 14, 179-197.	2.3	65
43	Polyamines in biological samples: Rapid and robust quantification by solid-phase extraction online-coupled to liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2014, 1331, 44-51.	3.7	65
44	Dietary spermidine for lowering high blood pressure. <i>Autophagy</i> , 2017, 13, 767-769.	9.1	63
45	Spermidine-triggered autophagy ameliorates memory during aging. <i>Autophagy</i> , 2014, 10, 178-179.	9.1	62
46	Nutritional Aspects of Spermidine. <i>Annual Review of Nutrition</i> , 2020, 40, 135-159.	10.1	55
47	Loss of peroxisome function triggers necrosis. <i>FEBS Letters</i> , 2008, 582, 2882-2886.	2.8	52
48	Accumulation of Basic Amino Acids at Mitochondria Dictates the Cytotoxicity of Aberrant Ubiquitin. <i>Cell Reports</i> , 2015, 10, 1557-1571.	6.4	52
49	Dimethyl α -ketoglutarate inhibits maladaptive autophagy in pressure overload-induced cardiomyopathy. <i>Autophagy</i> , 2014, 10, 930-932.	9.1	45
50	The Role of Mitochondria in the Aging Processes of Yeast. <i>Sub-Cellular Biochemistry</i> , 2011, 57, 55-78.	2.4	43
51	Acetyl-coenzyme A. <i>Autophagy</i> , 2014, 10, 1335-1337.	9.1	42
52	Ceramide triggers metacaspase-independent mitochondrial cell death in yeast. <i>Cell Cycle</i> , 2011, 10, 3973-3978.	2.6	40
53	Magnetomitotransfer: An efficient way for direct mitochondria transfer into cultured human cells. <i>Scientific Reports</i> , 2016, 6, 35571.	3.3	38
54	Spermidine-induced hypusination preserves mitochondrial and cognitive function during aging. <i>Autophagy</i> , 2021, 17, 2037-2039.	9.1	35

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55	Longevity-relevant regulation of autophagy at the level of the acetylproteome. <i>Autophagy</i> , 2011, 7, 647-649.	9.1	34
56	Spermidine protects from age-related synaptic alterations at hippocampal mossy fiber-CA3 synapses. <i>Scientific Reports</i> , 2019, 9, 19616.	3.3	33
57	Independent transcriptional reprogramming and apoptosis induction by cisplatin. <i>Cell Cycle</i> , 2012, 11, 3472-3480.	2.6	32
58	Depletion of Endonuclease G Selectively Kills Polyploid Cells. <i>Cell Cycle</i> , 2007, 6, 1072-1076.	2.6	29
59	Spermidine promotes mating and fertilization efficiency in model organisms. <i>Cell Cycle</i> , 2013, 12, 346-352.	2.6	29
60	Acetyl-CoA carboxylase 1â€“dependent lipogenesis promotes autophagy downstream of AMPK. <i>Journal of Biological Chemistry</i> , 2019, 294, 12020-12039.	3.4	29
61	Fine-Tuning Cardiac Insulin-Like Growth Factor 1 Receptor Signaling to Promote Health and Longevity. <i>Circulation</i> , 2022, 145, 1853-1866.	1.6	29
62	Global analysis of protein arginine methylation. <i>Cell Reports Methods</i> , 2021, 1, 100016.	2.9	27
63	The cell death protease Kex1p is essential for hypochlorite-induced apoptosis in yeast. <i>Cell Cycle</i> , 2013, 12, 1704-1712.	2.6	23
64	The metabolism beyond programmed cell death in yeast. <i>Experimental Cell Research</i> , 2012, 318, 1193-1200.	2.6	22
65	The Coordinated Action of Calcineurin and Cathepsin D Protects Against Î±-Synuclein Toxicity. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 207.	2.9	22
66	Diacylglycerol triggers Rim101 pathwayâ€“dependent necrosis in yeast: a model for lipotoxicity. <i>Cell Death and Differentiation</i> , 2018, 25, 767-783.	11.2	22
67	Chemical activation of SAT1 corrects diet-induced metabolic syndrome. <i>Cell Death and Differentiation</i> , 2020, 27, 2904-2920.	11.2	22
68	A histone point mutation that switches on autophagy. <i>Autophagy</i> , 2014, 10, 1143-1145.	9.1	18
69	Effects of Spermidine Supplementation on Cognition and Biomarkers in Older Adults With Subjective Cognitive Decline. <i>JAMA Network Open</i> , 2022, 5, e2213875.	5.9	17
70	The HSP40 chaperone Ydj1 drives amyloid beta 42 toxicity. <i>EMBO Molecular Medicine</i> , 2022, 14, e13952.	6.9	16
71	Spermidine supplementation influences mitochondrial number and morphology in the heart of aged mice. <i>Journal of Anatomy</i> , 2023, 242, 91-101.	1.5	16
72	Metabolites in aging and autophagy. <i>Microbial Cell</i> , 2014, 1, 110-114.	3.2	15

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73	Autophagy extends lifespan via vacuolar acidification. <i>Microbial Cell</i> , 2014, 1, 160-162.	3.2	13
74	Mitochondrial energy metabolism is required for lifespan extension by the spastic paraplegia-associated protein spartin. <i>Microbial Cell</i> , 2017, 4, 411-422.	3.2	10
75	The effect of spermidine on autoimmunity and beta cell function in NOD mice. <i>Scientific Reports</i> , 2022, 12, 4502.	3.3	9
76	Cell cycle control of cell death in yeast. <i>Cell Cycle</i> , 2010, 9, 4052-4051.	2.6	8
77	4,4'-Dimethoxychalcone: a natural flavonoid that promotes health through autophagy-dependent and -independent effects. <i>Autophagy</i> , 2019, 15, 1662-1664.	9.1	8
78	Modeling non-hereditary mechanisms of Alzheimer disease during apoptosis in yeast. <i>Microbial Cell</i> , 2015, 2, 136-138.	3.2	8
79	Acetylcholinesterase activity is essential for juvenile survival on fat-free diet and determines metabolic health. <i>FASEB Journal</i> , 2019, 33, 13808-13824.	0.5	6
80	Targeting GATA transcription factors: a novel strategy for anti-aging interventions?. <i>Microbial Cell</i> , 2019, 6, 212-216.	3.2	6
81	Cardioprotection by spermidine does not depend on structural characteristics of the myocardial microcirculation in aged mice. <i>Experimental Gerontology</i> , 2019, 119, 82-88.	2.8	5
82	Aspirin impairs acetyl-coenzyme A metabolism in redox-compromised yeast cells. <i>Scientific Reports</i> , 2019, 9, 6152.	3.3	5
83	Spermidine supplementation and voluntary activity differentially affect obesity-related structural changes in the mouse lung. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 319, L312-L324.	2.9	5
84	Friend or food. <i>Autophagy</i> , 2012, 8, 995-996.	9.1	4
85	High reactive oxygen species levels are detected at the end of the chronological life span of translocant yeast cells. <i>Molecular Genetics and Genomics</i> , 2016, 291, 423-435.	2.1	4
86	Identification of novel genes involved in neutral lipid storage by quantitative trait loci analysis of <i>Saccharomyces cerevisiae</i> . <i>BMC Genomics</i> , 2021, 22, 110.	2.8	3
87	Ca ²⁺ administration prevents β -synuclein proteotoxicity by stimulating calcineurin-dependent lysosomal proteolysis. <i>PLoS Genetics</i> , 2021, 17, e1009911.	3.5	2
88	Reply to Gostner and Fuchs. <i>American Journal of Clinical Nutrition</i> , 2019, 109, 218-219.	4.7	1
89	Prognostic Impact of Vitamin B6 Metabolism in Lung Cancer. <i>Cell Reports</i> , 2012, 2, 1472.	6.4	0
90	Effects of physiologic inputs on autophagy. , 2022, , 81-95.		0

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91	Global Analysis of Protein Arginine Methylation. SSRN Electronic Journal, 0, , .	0.4	0