

Joseph A Baur

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

109
papers

18,930
citations

52
h-index

120
g-index

120
ext. papers

21,628
ext. citations

13.2
avg, IF

6.65
L-index

#	Paper	IF	Citations
109	Resveratrol improves health and survival of mice on a high-calorie diet. <i>Nature</i> , 2006 , 444, 337-42	50.4	3520
108	Therapeutic potential of resveratrol: the in vivo evidence. <i>Nature Reviews Drug Discovery</i> , 2006 , 5, 493-506	64.1	2806
107	SIRT1 is required for AMPK activation and the beneficial effects of resveratrol on mitochondrial function. <i>Cell Metabolism</i> , 2012 , 15, 675-90	24.6	1032
106	Resveratrol delays age-related deterioration and mimics transcriptional aspects of dietary restriction without extending life span. <i>Cell Metabolism</i> , 2008 , 8, 157-68	24.6	949
105	SIRT1 deacetylase protects against neurodegeneration in models for Alzheimer's disease and amyotrophic lateral sclerosis. <i>EMBO Journal</i> , 2007 , 26, 3169-79	13	865
104	Rapamycin-induced insulin resistance is mediated by mTORC2 loss and uncoupled from longevity. <i>Science</i> , 2012 , 335, 1638-43	33.3	829
103	Nutrient-sensitive mitochondrial NAD ⁺ levels dictate cell survival. <i>Cell</i> , 2007 , 130, 1095-107	56.2	754
102	Rapamycin, but not resveratrol or simvastatin, extends life span of genetically heterogeneous mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2011 , 66, 191-201	6.4	648
101	Foxp3 Reprograms T Cell Metabolism to Function in Low-Glucose, High-Lactate Environments. <i>Cell Metabolism</i> , 2017 , 25, 1282-1293.e7	24.6	435
100	Resveratrol and health—a comprehensive review of human clinical trials. <i>Molecular Nutrition and Food Research</i> , 2011 , 55, 1129-41	5.9	412
99	Rapalogs and mTOR inhibitors as anti-aging therapeutics. <i>Journal of Clinical Investigation</i> , 2013 , 123, 980-9	15.9	348
98	NAD Intermediates: The Biology and Therapeutic Potential of NMN and NR. <i>Cell Metabolism</i> , 2018 , 27, 513-528	24.6	331
97	What is new for an old molecule? Systematic review and recommendations on the use of resveratrol. <i>PLoS ONE</i> , 2011 , 6, e19881	3.7	327
96	Are sirtuins viable targets for improving healthspan and lifespan?. <i>Nature Reviews Drug Discovery</i> , 2012 , 11, 443-61	64.1	300
95	A branched-chain amino acid metabolite drives vascular fatty acid transport and causes insulin resistance. <i>Nature Medicine</i> , 2016 , 22, 421-6	50.5	283
94	Effects of Sex, Strain, and Energy Intake on Hallmarks of Aging in Mice. <i>Cell Metabolism</i> , 2016 , 23, 1093-1112	24.6	245
93	SRT1720 improves survival and healthspan of obese mice. <i>Scientific Reports</i> , 2011 , 1, 70	4.9	215

92	Quantitative Analysis of NAD Synthesis-Breakdown Fluxes. <i>Cell Metabolism</i> , 2018 , 27, 1067-1080.e5	24.6	199
91	Loss of NAD Homeostasis Leads to Progressive and Reversible Degeneration of Skeletal Muscle. <i>Cell Metabolism</i> , 2016 , 24, 269-82	24.6	189
90	Resveratrol improves adipose insulin signaling and reduces the inflammatory response in adipose tissue of rhesus monkeys on high-fat, high-sugar diet. <i>Cell Metabolism</i> , 2013 , 18, 533-45	24.6	183
89	Resveratrol, sirtuins, and the promise of a DR mimetic. <i>Mechanisms of Ageing and Development</i> , 2010 , 131, 261-9	5.6	172
88	Resveratrol prevents high fat/sucrose diet-induced central arterial wall inflammation and stiffening in nonhuman primates. <i>Cell Metabolism</i> , 2014 , 20, 183-90	24.6	163
87	SRT2104 extends survival of male mice on a standard diet and preserves bone and muscle mass. <i>Aging Cell</i> , 2014 , 13, 787-96	9.9	158
86	An alternate splicing variant of the human telomerase catalytic subunit inhibits telomerase activity. <i>Neoplasia</i> , 2000 , 2, 433-40	6.4	153
85	Nicotinamide Improves Aspects of Healthspan, but Not Lifespan, in Mice. <i>Cell Metabolism</i> , 2018 , 27, 667-676.e4	24.6	152
84	Essential role of mitochondrial energy metabolism in Foxp3+ T-regulatory cell function and allograft survival. <i>FASEB Journal</i> , 2015 , 29, 2315-26	0.9	150
83	Evaluation of resveratrol, green tea extract, curcumin, oxaloacetic acid, and medium-chain triglyceride oil on life span of genetically heterogeneous mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2013 , 68, 6-16	6.4	149
82	NAD metabolism governs the proinflammatory senescence-associated secretome. <i>Nature Cell Biology</i> , 2019 , 21, 397-407	23.4	136
81	Inhibition of mammalian S6 kinase by resveratrol suppresses autophagy. <i>Aging</i> , 2009 , 1, 515-28	5.6	130
80	Resveratrol and life extension. <i>Annals of the New York Academy of Sciences</i> , 2011 , 1215, 138-43	6.5	126
79	Nicotinamide mononucleotide (NMN) supplementation rescues cerebrovascular endothelial function and neurovascular coupling responses and improves cognitive function in aged mice. <i>Redox Biology</i> , 2019 , 24, 101192	11.3	108
78	Biochemical effects of SIRT1 activators. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010 , 1804, 1626-34	4	108
77	Resveratrol activates duodenal Sirt1 to reverse insulin resistance in rats through a neuronal network. <i>Nature Medicine</i> , 2015 , 21, 498-505	50.5	102
76	Clock Regulation of Metabolites Reveals Coupling between Transcription and Metabolism. <i>Cell Metabolism</i> , 2017 , 25, 961-974.e4	24.6	96
75	Resveratrol for primary prevention of atherosclerosis: clinical trial evidence for improved gene expression in vascular endothelium. <i>International Journal of Cardiology</i> , 2013 , 166, 246-8	3.2	96

74	Extended wakefulness: compromised metabolics in and degeneration of locus ceruleus neurons. <i>Journal of Neuroscience</i> , 2014 , 34, 4418-31	6.6	95
73	Design and synthesis of compounds that extend yeast replicative lifespan. <i>Aging Cell</i> , 2007 , 6, 35-43	9.9	90
72	Histone deacetylase 3 prepares brown adipose tissue for acute thermogenic challenge. <i>Nature</i> , 2017 , 546, 544-548	50.4	88
71	Nicotinamide adenine dinucleotide is transported into mammalian mitochondria. <i>ELife</i> , 2018 , 7,	8.9	84
70	Mitochondrial protection by resveratrol. <i>Exercise and Sport Sciences Reviews</i> , 2011 , 39, 128-32	6.7	82
69	Characterization of ataxia telangiectasia fibroblasts with extended life-span through telomerase expression. <i>Oncogene</i> , 2001 , 20, 278-88	9.2	81
68	Challenges of translating basic research into therapeutics: resveratrol as an example. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2012 , 67, 158-67	6.4	78
67	A PRDM16-Driven Metabolic Signal from Adipocytes Regulates Precursor Cell Fate. <i>Cell Metabolism</i> , 2019 , 30, 174-189.e5	24.6	73
66	The tumor suppressor FLCN mediates an alternate mTOR pathway to regulate browning of adipose tissue. <i>Genes and Development</i> , 2016 , 30, 2551-2564	12.6	71
65	Increasing NAD synthesis in muscle via nicotinamide phosphoribosyltransferase is not sufficient to promote oxidative metabolism. <i>Journal of Biological Chemistry</i> , 2015 , 290, 1546-58	5.4	60
64	Young and old genetically heterogeneous HET3 mice on a rapamycin diet are glucose intolerant but insulin sensitive. <i>Aging Cell</i> , 2013 , 12, 712-8	9.9	58
63	Rapamycin has a biphasic effect on insulin sensitivity in C2C12 myotubes due to sequential disruption of mTORC1 and mTORC2. <i>Frontiers in Genetics</i> , 2012 , 3, 177	4.5	57
62	Nicotinamide adenine dinucleotide biosynthesis promotes liver regeneration. <i>Hepatology</i> , 2017 , 65, 616-630	11.9	56
61	Dietary restriction: standing up for sirtuins. <i>Science</i> , 2010 , 329, 1012-3; author reply 1013-4	33.3	56
60	SLC25A51 is a mammalian mitochondrial NAD transporter. <i>Nature</i> , 2020 , 588, 174-179	50.4	55
59	Purinergic glio-endothelial coupling during neuronal activity: role of P2Y1 receptors and eNOS in functional hyperemia in the mouse somatosensory cortex. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015 , 309, H1837-45	5.2	54
58	Rapamycin-induced metabolic defects are reversible in both lean and obese mice. <i>Aging</i> , 2014 , 6, 742-54	5.6	53
57	CD38 ecto-enzyme in immune cells is induced during aging and regulates NAD and NMN levels. <i>Nature Metabolism</i> , 2020 , 2, 1284-1304	14.6	52

56	Control of gluconeogenesis by metformin: does redox trump energy charge?. <i>Cell Metabolism</i> , 2014 , 20, 197-9	24.6	51
55	Telomere Dysfunction Induces Sirtuin Repression that Drives Telomere-Dependent Disease. <i>Cell Metabolism</i> , 2019 , 29, 1274-1290.e9	24.6	50
54	Rapamycin Blocks Induction of the Thermogenic Program in White Adipose Tissue. <i>Diabetes</i> , 2016 , 65, 927-41	0.9	50
53	The adverse metabolic effects of branched-chain amino acids are mediated by isoleucine and valine. <i>Cell Metabolism</i> , 2021 , 33, 905-922.e6	24.6	48
52	Role of endothelial NAD deficiency in age-related vascular dysfunction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019 , 316, H1253-H1266	5.2	47
51	Resveratrol Rescues Kidney Mitochondrial Function Following Hemorrhagic Shock. <i>Shock</i> , 2015 , 44, 173-80	3.4	45
50	Rapamycin doses sufficient to extend lifespan do not compromise muscle mitochondrial content or endurance. <i>Aging</i> , 2013 , 5, 539-50	5.6	42
49	Primary respiratory chain disease causes tissue-specific dysregulation of the global transcriptome and nutrient-sensing signaling network. <i>PLoS ONE</i> , 2013 , 8, e69282	3.7	38
48	mTOR: more targets of resveratrol?. <i>Expert Reviews in Molecular Medicine</i> , 2013 , 15, e10	6.7	36
47	Aging and sleep deprivation induce the unfolded protein response in the pancreas: implications for metabolism. <i>Aging Cell</i> , 2014 , 13, 131-41	9.9	34
46	Lactate Limits T Cell Proliferation via the NAD(H) Redox State. <i>Cell Reports</i> , 2020 , 33, 108500	10.6	30
45	Age-related NAD decline. <i>Experimental Gerontology</i> , 2020 , 134, 110888	4.5	30
44	Blockade of MCU-Mediated Ca Uptake Perturbs Lipid Metabolism via PP4-Dependent AMPK Dephosphorylation. <i>Cell Reports</i> , 2019 , 26, 3709-3725.e7	10.6	27
43	Hypothalamic mTORC2 is essential for metabolic health and longevity. <i>Aging Cell</i> , 2019 , 18, e13014	9.9	25
42	Nicotinamide mononucleotide preserves mitochondrial function and increases survival in hemorrhagic shock. <i>JCI Insight</i> , 2018 , 3,	9.9	24
41	What is Xenohormesis?. <i>American Journal of Pharmacology and Toxicology</i> , 2008 , 3, 152-159	0.6	22
40	The leptin sensitizer celastrol reduces age-associated obesity and modulates behavioral rhythms. <i>Aging Cell</i> , 2019 , 18, e12874	9.9	18
39	Resveratrol ameliorates mitochondrial dysfunction but increases the risk of hypoglycemia following hemorrhagic shock. <i>Journal of Trauma and Acute Care Surgery</i> , 2014 , 77, 926-33	3.3	16

38	Mitochondrial genome sequence analysis: a custom bioinformatics pipeline substantially improves Affymetrix MitoChip v2.0 call rate and accuracy. <i>BMC Bioinformatics</i> , 2011 , 12, 402	3.6	16
37	Aging and drug discovery. <i>Aging</i> , 2018 , 10, 3079-3088	5.6	16
36	Accumulation of 3-hydroxytetradecenoic acid: Cause or corollary of glucolipotoxic impairment of pancreatic β cell bioenergetics?. <i>Molecular Metabolism</i> , 2015 , 4, 926-39	8.8	14
35	NAD flux is maintained in aged mice despite lower tissue concentrations. <i>Cell Systems</i> , 2021 ,	10.6	10
34	Supplemental arginine vasopressin during the resuscitation of severe hemorrhagic shock preserves renal mitochondrial function. <i>PLoS ONE</i> , 2017 , 12, e0186339	3.7	9
33	mTORC1 restrains adipocyte lipolysis to prevent systemic hyperlipidemia. <i>Molecular Metabolism</i> , 2020 , 32, 136-147	8.8	9
32	Conditional ablation of in the male germline causes infertility due to meiotic arrest and impaired inactivation of sex chromosomes. <i>FASEB Journal</i> , 2017 , 31, 3934-3949	0.9	8
31	Oral nitrite restores age-dependent phenotypes in eNOS-null mice. <i>JCI Insight</i> , 2018 , 3,	9.9	8
30	Rapamycin maintains NAD/NADH redox homeostasis in muscle cells. <i>Aging</i> , 2020 , 12, 17786-17799	5.6	8
29	The grapes and wrath: using resveratrol to treat the pathophysiology of hemorrhagic shock. <i>Annals of the New York Academy of Sciences</i> , 2017 , 1403, 70-81	6.5	7
28	Single-Voxel H MR spectroscopy of cerebral nicotinamide adenine dinucleotide (NAD) in humans at 7T using a 32-channel volume coil. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 806-814	4.4	7
27	FoxA-dependent demethylation of DNA initiates epigenetic memory of cellular identity. <i>Developmental Cell</i> , 2021 , 56, 602-612.e4	10.2	7
26	Optical Redox Imaging of Fixed Unstained Muscle Slides Reveals Useful Biological Information. <i>Molecular Imaging and Biology</i> , 2019 , 21, 417-425	3.8	6
25	Autophagy mitigates ethanol-induced mitochondrial dysfunction and oxidative stress in esophageal keratinocytes. <i>PLoS ONE</i> , 2020 , 15, e0239625	3.7	6
24	Increased mTOR activity and metabolic efficiency in mouse and human cells containing the African-centric tumor-predisposing p53 variant Pro47Ser. <i>ELife</i> , 2020 , 9,	8.9	5
23	SIRT3 is required for liver regeneration but not for the beneficial effect of nicotinamide riboside. <i>JCI Insight</i> , 2021 , 6,	9.9	5
22	Loss of FOXO transcription factors in the liver mitigates stress-induced hyperglycemia. <i>Molecular Metabolism</i> , 2021 , 51, 101246	8.8	5
21	Tissue metabolic profiling shows that saccharopine accumulates during renal ischemic-reperfusion injury, while kynurenine and itaconate accumulate in renal allograft rejection. <i>Metabolomics</i> , 2020 , 16, 65	4.7	4

20	Spontaneous reactivation of a silent telomeric transgene in a human cell line. <i>Chromosoma</i> , 2004 , 112, 240-6	2.8	4
19	Pharmacologic Means of Extending Lifespan 2012 , Suppl 4,		4
18	Effect of Interleukin-15 Receptor Alpha Ablation on the Metabolic Responses to Moderate Exercise Simulated by Isometric Muscle Contractions. <i>Frontiers in Physiology</i> , 2019 , 10, 1439	4.6	4
17	NAD ⁺ metabolism and cardiometabolic health: the human evidence. <i>Cardiovascular Research</i> , 2021 , 117, e106-e109	9.9	4
16	Kynurenine induces T cell fat catabolism and has limited suppressive effects in vivo. <i>EBioMedicine</i> , 2021 , 74, 103734	8.8	3
15	Two-Photon Autofluorescence Imaging of Fixed Tissues: Feasibility and Potential Values for Biomedical Applications. <i>Advances in Experimental Medicine and Biology</i> , 2020 , 1232, 375-381	3.6	3
14	Nicotinamide Mononucleotide Prevents Cisplatin-Induced Cognitive Impairments. <i>Cancer Research</i> , 2021 , 81, 3727-3737	10.1	3
13	Author response: Nicotinamide adenine dinucleotide is transported into mammalian mitochondria 2018 ,		2
12	A NEET Way to Impair Mitochondrial Function in βand βCells. <i>Diabetes</i> , 2016 , 65, 1484-6	0.9	1
11	Imaging Redox State in Mouse Muscles of Different Ages. <i>Advances in Experimental Medicine and Biology</i> , 2017 , 977, 51-57	3.6	1
10	Optical redox imaging of fixed unstained tissue slides to identify biomarkers for breast cancer diagnosis/prognosis: feasibility study.. <i>Proceedings of SPIE</i> , 2018 , 10472,	1.7	1
9	HDAC3 controls male fertility through enzyme-independent transcriptional regulation at the meiotic exit of spermatogenesis. <i>Nucleic Acids Research</i> , 2021 , 49, 5106-5123	20.1	1
8	Circadian REV-ERBs repress to activate NAMPT-dependent NAD biosynthesis and sustain cardiac function. 2022 , 1, 45-58		1
7	Longevity pathways in stress resistance: targeting NAD and sirtuins to treat the pathophysiology of hemorrhagic shock. <i>GeroScience</i> , 2021 , 43, 1217-1228	8.9	0
6	mTOR signaling in adipose tissue influences systemic lipid metabolism. <i>FASEB Journal</i> , 2018 , 32, 536.8	0.9	
5	Reducing NAD(H) to amplify rhythms.. <i>Nature Metabolism</i> , 2021 , 3, 1589-1590	14.6	
4	Autophagy mitigates ethanol-induced mitochondrial dysfunction and oxidative stress in esophageal keratinocytes 2020 , 15, e0239625		
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2 Autophagy mitigates ethanol-induced mitochondrial dysfunction and oxidative stress in esophageal keratinocytes **2020**, 15, e0239625

1 Autophagy mitigates ethanol-induced mitochondrial dysfunction and oxidative stress in esophageal keratinocytes **2020**, 15, e0239625