Joseph A Baur

List of Publications by Year
in descending order

112	24,014	22099 59	29081 104
papers	citations	h-index	g-index

120	120	120	27594
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Meeting Report: Aging Research and Drug Discovery. Aging, 2022, 14, 530-543.	1.4	4
2	Circadian REV-ERBs repress E4bp4 to activate NAMPT-dependent NAD+ biosynthesis and sustain cardiac function. , 2022, 1, 45-58.		25
3	Thermogenic T cells: a cell therapy for obesity?. American Journal of Physiology - Cell Physiology, 2022, 322, C1085-C1094.	2.1	3
4	Nicotinamide Riboside Improves Cardiac Function and Prolongs Survival After Disruption of the Cardiomyocyte Clock. Frontiers in Molecular Medicine, 2022, 2, .	0.6	5
5	Longevity pathways in stress resistance: targeting NAD and sirtuins to treat the pathophysiology of hemorrhagic shock. GeroScience, 2021, 43, 1217-1228.	2.1	3
6	FoxA-dependent demethylation of DNA initiates epigenetic memory of cellular identity. Developmental Cell, 2021, 56, 602-612.e4.	3.1	30
7	Nicotinamide Mononucleotide Prevents Cisplatin-Induced Cognitive Impairments. Cancer Research, 2021, 81, 3727-3737.	0.4	20
8	SIRT3 is required for liver regeneration but not for the beneficial effect of nicotinamide riboside. JCI Insight, 2021, 6, .	2.3	16
9	The adverse metabolic effects of branched-chain amino acids are mediated by isoleucine and valine. Cell Metabolism, 2021, 33, 905-922.e6.	7.2	183
10	HDAC3 controls male fertility through enzyme-independent transcriptional regulation at the meiotic exit of spermatogenesis. Nucleic Acids Research, 2021, 49, 5106-5123.	6.5	25
11	NAD+ metabolism and cardiometabolic health: the human evidence. Cardiovascular Research, 2021, 117, e106-e109.	1.8	7
12	NAD+ flux is maintained in aged mice despite lower tissue concentrations. Cell Systems, 2021, 12, 1160-1172.e4.	2.9	51
13	Loss of FOXO transcription factors in the liver mitigates stress-induced hyperglycemia. Molecular Metabolism, 2021, 51, 101246.	3.0	10
14	Kynurenine induces T cell fat catabolism and has limited suppressive effects in vivo. EBioMedicine, 2021, 74, 103734.	2.7	20
15	Reducing NAD(H) to amplify rhythms. Nature Metabolism, 2021, 3, 1589-1590.	5.1	0
16	Singleâ€Voxel ¹H MR spectroscopy of cerebral nicotinamide adenine dinucleotide (NAD⁺) in humans at 7T using a 32â€channel volume coil. Magnetic Resonance in Medicine, 2020, 83, 806-814.	1.9	26
17	mTORC1 restrains adipocyte lipolysis to prevent systemic hyperlipidemia. Molecular Metabolism, 2020, 32, 136-147.	3.0	19
18	CD38 ecto-enzyme in immune cells is induced during aging and regulates NAD+ and NMN levels. Nature Metabolism, 2020, 2, 1284-1304.	5.1	157

#	Article	IF	Citations
19	SLC25A51 is a mammalian mitochondrial NAD+ transporter. Nature, 2020, 588, 174-179.	13.7	158
20	Autophagy mitigates ethanol-induced mitochondrial dysfunction and oxidative stress in esophageal keratinocytes. PLoS ONE, 2020, 15, e0239625.	1.1	18
21	Lactate Limits T Cell Proliferation via the NAD(H) Redox State. Cell Reports, 2020, 33, 108500.	2.9	135
22	Tissue metabolic profiling shows that saccharopine accumulates during renal ischemic-reperfusion injury, while kynurenine and itaconate accumulate in renal allograft rejection. Metabolomics, 2020, 16, 65.	1.4	8
23	Age-related NAD+ decline. Experimental Gerontology, 2020, 134, 110888.	1.2	84
24	Two-Photon Autofluorescence Imaging of Fixed Tissues: Feasibility and Potential Values for Biomedical Applications. Advances in Experimental Medicine and Biology, 2020, 1232, 375-381.	0.8	4
25	Rapamycin maintains NAD+/NADH redox homeostasis in muscle cells. Aging, 2020, 12, 17786-17799.	1.4	19
26	Increased mTOR activity and metabolic efficiency in mouse and human cells containing the African-centric tumor-predisposing p53 variant Pro47Ser. ELife, 2020, 9, .	2.8	12
27	Title is missing!. , 2020, 15, e0239625.		0
28	Title is missing!. , 2020, 15, e0239625.		0
29	Title is missing!. , 2020, 15, e0239625.		0
30	Title is missing!. , 2020, 15, e0239625.		0
31	Hypothalamic mTORC2 is essential for metabolic health and longevity. Aging Cell, 2019, 18, e13014.	3.0	46
32	A PRDM16-Driven Metabolic Signal from Adipocytes Regulates Precursor Cell Fate. Cell Metabolism, 2019, 30, 174-189.e5.	7.2	141
33	The leptin sensitizer celastrol reduces ageâ€associated obesity and modulates behavioral rhythms. Aging Cell, 2019, 18, e12874.	3.0	31
34	Blockade of MCU-Mediated Ca2+ Uptake Perturbs Lipid Metabolism via PP4-Dependent AMPK Dephosphorylation. Cell Reports, 2019, 26, 3709-3725.e7.	2.9	58
35	Role of endothelial NAD⁺deficiency in age-related vascular dysfunction. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H1253-H1266.	1.5	68
36	Optical Redox Imaging of Fixed Unstained Muscle Slides Reveals Useful Biological Information. Molecular Imaging and Biology, 2019, 21, 417-425.	1.3	14

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37	Nicotinamide mononucleotide (NMN) supplementation rescues cerebromicrovascular endothelial function and neurovascular coupling responses and improves cognitive function in aged mice. Redox Biology, 2019, 24, 101192.	3.9	181
38	Telomere Dysfunction Induces Sirtuin Repression that Drives Telomere-Dependent Disease. Cell Metabolism, 2019, 29, 1274-1290.e9.	7.2	106
39	NAD+ metabolism governs the proinflammatory senescence-associated secretome. Nature Cell Biology, 2019, 21, 397-407.	4.6	232
40	Effect of Interleukin-15 Receptor Alpha Ablation on the Metabolic Responses to Moderate Exercise Simulated by in vivo Isometric Muscle Contractions. Frontiers in Physiology, 2019, 10, 1439.	1.3	5
41	Nicotinamide Improves Aspects of Healthspan, but Not Lifespan, in Mice. Cell Metabolism, 2018, 27, 667-676.e4.	7.2	242
42	Quantitative Analysis of NAD Synthesis-Breakdown Fluxes. Cell Metabolism, 2018, 27, 1067-1080.e5.	7.2	363
43	NAD+ Intermediates: The Biology and Therapeutic Potential of NMN and NR. Cell Metabolism, 2018, 27, 513-528.	7.2	605
44	Aging and drug discovery. Aging, 2018, 10, 3079-3088.	1.4	25
45	Nicotinamide mononucleotide preserves mitochondrial function and increases survival in hemorrhagic shock. JCI Insight, 2018, 3, .	2.3	35
46	Nicotinamide adenine dinucleotide is transported into mammalian mitochondria. ELife, 2018, 7, .	2.8	111
47	optical redox imaging of fixed unstained tissue slides to identify biomarkers for breast cancer diagnosis/prognosis: feasibility study. , 2018, 10472, .		1
48	Oral nitrite restores age-dependent phenotypes in eNOS-null mice. JCI Insight, 2018, 3, .	2.3	9
49	mTOR signaling in adipose tissue influences systemic lipid metabolism. FASEB Journal, 2018, 32, 536.8.	0.2	0
50	Foxp3 Reprograms T Cell Metabolism to Function in Low-Glucose, High-Lactate Environments. Cell Metabolism, 2017, 25, 1282-1293.e7.	7.2	741
51	Conditional ablation of <i>Raptor</i> in the male germline causes infertility due to meiotic arrest and impaired inactivation of sex chromosomes. FASEB Journal, 2017, 31, 3934-3949.	0.2	16
52	Histone deacetylase 3 prepares brown adipose tissue for acute thermogenic challenge. Nature, 2017, 546, 544-548.	13.7	149
53	Clock Regulation of Metabolites Reveals Coupling between Transcription and Metabolism. Cell Metabolism, 2017, 25, 961-974.e4.	7.2	162
54	The grapes and wrath: using resveratrol to treat the pathophysiology of hemorrhagic shock. Annals of the New York Academy of Sciences, 2017, 1403, 70-81.	1.8	9

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55	Imaging Redox State in Mouse Muscles of Different Ages. Advances in Experimental Medicine and Biology, 2017, 977, 51-57.	0.8	2
56	Nicotinamide adenine dinucleotide biosynthesis promotes liver regeneration. Hepatology, 2017, 65, 616-630.	3.6	87
57	Supplemental arginine vasopressin during the resuscitation of severe hemorrhagic shock preserves renal mitochondrial function. PLoS ONE, 2017, 12, e0186339.	1.1	13
58	The tumor suppressor FLCN mediates an alternate mTOR pathway to regulate browning of adipose tissue. Genes and Development, 2016, 30, 2551-2564.	2.7	100
59	Loss of NAD Homeostasis Leads to Progressive and Reversible Degeneration of Skeletal Muscle. Cell Metabolism, 2016, 24, 269-282.	7.2	273
60	A NEET Way to Impair Mitochondrial Function in Î±- and Î²-Cells. Diabetes, 2016, 65, 1484-1486.	0.3	2
61	Effects of Sex, Strain, and Energy Intake on Hallmarks of Aging in Mice. Cell Metabolism, 2016, 23, 1093-1112.	7.2	360
62	Rapamycin Blocks Induction of the Thermogenic Program in White Adipose Tissue. Diabetes, 2016, 65, 927-941.	0.3	67
63	A branched-chain amino acid metabolite drives vascular fatty acid transport and causes insulin resistance. Nature Medicine, 2016, 22, 421-426.	15.2	421
64	Resveratrol Rescues Kidney Mitochondrial Function Following Hemorrhagic Shock. Shock, 2015, 44, 173-180.	1.0	58
65	Purinergic glio-endothelial coupling during neuronal activity: role of P2Y₁ receptors and eNOS in functional hyperemia in the mouse somatosensory cortex. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H1837-H1845.	1.5	74
66	Increasing NAD Synthesis in Muscle via Nicotinamide Phosphoribosyltransferase Is Not Sufficient to Promote Oxidative Metabolism. Journal of Biological Chemistry, 2015, 290, 1546-1558.	1.6	79
67	Essential role of mitochondrial energy metabolism in Foxp3 ⁺ Tâ€regulatory cell function and allograft survival. FASEB Journal, 2015, 29, 2315-2326.	0.2	213
68	Resveratrol activates duodenal Sirt1 to reverse insulin resistance in rats through a neuronal network. Nature Medicine, 2015, 21, 498-505.	15.2	122
69	Accumulation of 3-hydroxytetradecenoic acid: Cause or corollary of glucolipotoxic impairment of pancreatic Î²-cell bioenergetics?. Molecular Metabolism, 2015, 4, 926-939.	3.0	15
70	Aging and sleep deprivation induce the unfolded protein response in the pancreas: implications for metabolism. Aging Cell, 2014, 13, 131-141.	3.0	45
71	Resveratrol ameliorates mitochondrial dysfunction but increases the risk of hypoglycemia following hemorrhagic shock. Journal of Trauma and Acute Care Surgery, 2014, 77, 926-933.	1.1	20
72	Extended Wakefulness: Compromised Metabolics in and Degeneration of Locus Ceruleus Neurons. Journal of Neuroscience, 2014, 34, 4418-4431.	1.7	125

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73	Control of Gluconeogenesis by Metformin: Does Redox Trump Energy Charge?. Cell Metabolism, 2014, 20, 197-199.	7.2	57
74	Resveratrol Prevents High Fat/Sucrose Diet-Induced Central Arterial Wall Inflammation and Stiffening in Nonhuman Primates. Cell Metabolism, 2014, 20, 183-190.	7.2	186
75	<scp>SRT</scp> 2104 extends survival of male mice on a standard diet and preserves bone and muscle mass. Aging Cell, 2014, 13, 787-796.	3.0	208
76	Rapamycin-induced metabolic defects are reversible in both lean and obese mice. Aging, 2014, 6, 742-754.	1.4	62
77	Resveratrol Improves Adipose Insulin Signaling and Reduces the Inflammatory Response in Adipose Tissue of Rhesus Monkeys on High-Fat, High-Sugar Diet. Cell Metabolism, 2013, 18, 533-545.	7.2	212
78	Evaluation of Resveratrol, Green Tea Extract, Curcumin, Oxaloacetic Acid, and Medium-Chain Triglyceride Oil on Life Span of Genetically Heterogeneous Mice. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2013, 68, 6-16.	1.7	182
79	Resveratrol for primary prevention of atherosclerosis: Clinical trial evidence for improved gene expression in vascular endothelium. International Journal of Cardiology, 2013, 166, 246-248.	0.8	118
80	Young and old genetically heterogeneous <scp>HET</scp>3 mice on a rapamycin diet are glucose intolerant but insulin sensitive. Aging Cell, 2013, 12, 712-718.	3.0	70
81	mTOR: more targets of resveratrol?. Expert Reviews in Molecular Medicine, 2013, 15, e10.	1.6	37
82	Rapalogs and mTOR inhibitors as anti-aging therapeutics. Journal of Clinical Investigation, 2013, 123, 980-989.	3.9	434
83	Primary Respiratory Chain Disease Causes Tissue-Specific Dysregulation of the Global Transcriptome and Nutrient-Sensing Signaling Network. PLoS ONE, 2013, 8, e69282.	1.1	44
84	Rapamycin doses sufficient to extend lifespan do not compromise muscle mitochondrial content or endurance. Aging, 2013, 5, 539-550.	1.4	46
85	Challenges of Translating Basic Research Into Therapeutics: Resveratrol as an Example. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2012, 67A, 158-167.	1.7	85
86	Rapamycin has a biphasic effect on insulin sensitivity in C2C12 myotubes due to sequential disruption of mTORC1 and mTORC2. Frontiers in Genetics, 2012, 3, 177.	1.1	68
87	SIRT1 Is Required for AMPK Activation and the Beneficial Effects of Resveratrol on Mitochondrial Function. Cell Metabolism, 2012, 15, 675-690.	7.2	1,251
88	Rapamycin-Induced Insulin Resistance Is Mediated by mTORC2 Loss and Uncoupled from Longevity. Science, 2012, 335, 1638-1643.	6.0	1,022
89	Are sirtuins viable targets for improving healthspan and lifespan?. Nature Reviews Drug Discovery, 2012, 11, 443-461.	21.5	339
90	Pharmacologic Means of Extending Lifespan. , 2012, s4, .		5

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91	Rapamycin, But Not Resveratrol or Simvastatin, Extends Life Span of Genetically Heterogeneous Mice. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2011, 66A, 191-201.	1.7	774
92	SRT1720 improves survival and healthspan of obese mice. Scientific Reports, 2011, 1, 70.	1.6	249
93	Resveratrol and life extension. Annals of the New York Academy of Sciences, 2011, 1215, 138-143.	1.8	139
94	Mitochondrial genome sequence analysis: A custom bioinformatics pipeline substantially improves Affymetrix MitoChip v2.0 call rate and accuracy. BMC Bioinformatics, 2011, 12, 402.	1.2	18
95	Resveratrol and health â€" A comprehensive review of human clinical trials. Molecular Nutrition and Food Research, 2011, 55, 1129-1141.	1.5	468
96	Mitochondrial Protection by Resveratrol. Exercise and Sport Sciences Reviews, 2011, 39, 128-132.	1.6	99
97	What Is New for an Old Molecule? Systematic Review and Recommendations on the Use of Resveratrol. PLoS ONE, 2011, 6, e19881.	1.1	375
98	Resveratrol, sirtuins, and the promise of a DR mimetic. Mechanisms of Ageing and Development, 2010, 131, 261-269.	2.2	188
99	Biochemical effects of SIRT1 activators. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 1626-1634.	1.1	126
100	Dietary Restriction: Standing Up for Sirtuins. Science, 2010, 329, 1012-1013.	6.0	63
101	Inhibition of mammalian S6 kinase by resveratrol suppresses autophagy. Aging, 2009, 1, 515-528.	1.4	146
102	Resveratrol Delays Age-Related Deterioration and Mimics Transcriptional Aspects of Dietary Restriction without Extending Life Span. Cell Metabolism, 2008, 8, 157-168.	7.2	1,060
103	What is Xenohormesis?. American Journal of Pharmacology and Toxicology, 2008, 3, 152-159.	0.7	28
104	Obesity: Do Grapes Hold the Answer?. Pediatric Research, 2007, 61, 633-633.	1.1	2
105	Nutrient-Sensitive Mitochondrial NAD+ Levels Dictate Cell Survival. Cell, 2007, 130, 1095-1107.	13.5	855
106	SIRT1 deacetylase protects against neurodegeneration in models for Alzheimer's disease and amyotrophic lateral sclerosis. EMBO Journal, 2007, 26, 3169-3179.	3.5	982
107	Design and synthesis of compounds that extend yeast replicative lifespan. Aging Cell, 2007, 6, 35-43.	3.0	102
108	Therapeutic potential of resveratrol: the in vivo evidence. Nature Reviews Drug Discovery, 2006, 5, 493-506.	21.5	3,283

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109	Resveratrol improves health and survival of mice on a high-calorie diet. Nature, 2006, 444, 337-342.	13.7	3,882
110	Spontaneous reactivation of a silent telomeric transgene in a human cell line. Chromosoma, 2004, 112, 240-246.	1.0	4
111	Characterization of ataxia telangiectasia fibroblasts with extended life-span through telomerase expression. Oncogene, 2001, 20, 278-288.	2.6	92
112	An Alternate Splicing Variant of the Human Telomerase Catalytic Subunit Inhibits Telomerase Activity. Neoplasia, 2000, 2, 433-440.	2.3	178