Anthony A Sauve

List of Publications by Year
in descending order

68 papers	11,590 citations	53794 45 h-index	114465 63 g-index
68 all docs	68 docs citations	68 times ranked	12775 citing authors

#	Article	IF	Citations
1	Metabolic Disease, NAD Metabolism, Nicotinamide Riboside, and the Gut Microbiome: Connecting the Dots from the Gut to Physiology. MSystems, 2022, , e0122321.	3.8	1
2	Dihydronicotinamide riboside is a potent NAD ⁺ concentration enhancer <i>in vitro</i> and <i>in vivo</i>. FASEB Journal, 2021, 35, .	0.5	0
3	Assays for Determination of Cellular and Mitochondrial NAD+ and NADH Content. Methods in Molecular Biology, 2021, 2310, 271-285.	0.9	4
4	NRH salvage and conversion to NAD+ requires NRH kinase activity by adenosine kinase. Nature Metabolism, 2020, 2, 364-379.	11.9	55
5	Nicotinamidases and Sirtuins. , 2020, , 131-156.		0
6	Dihydronicotinamide riboside is a potent NAD+ concentration enhancer in vitro and in vivo. Journal of Biological Chemistry, 2019, 294, 9295-9307.	3.4	79
7	Nicotinamide Improves Aspects of Healthspan, but Not Lifespan, in Mice. Cell Metabolism, 2018, 27, 667-676.e4.	16.2	242
8	Regulatory Effects of NAD + Metabolic Pathways on Sirtuin Activity. Progress in Molecular Biology and Translational Science, 2018, 154, 71-104.	1.7	36
9	Synthesis of Î²â€Nicotinamide Riboside Using an Efficient Twoâ€Step Methodology. Current Protocols in Nucleic Acid Chemistry, 2017, 71, 14.14.1-14.14.9.	0.5	10
10	NAD + metabolism: Bioenergetics, signaling and manipulation for therapy. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2016, 1864, 1787-1800.	2.3	327
11	Biochemistry and Enzymology of Sirtuins. , 2016, , 1-27.		1
12	NAD ⁺ repletion improves muscle function in muscular dystrophy and counters global PARylation. Science Translational Medicine, 2016, 8, 361ra139.	12.4	208
13	Eliciting the mitochondrial unfolded protein response by nicotinamide adenine dinucleotide repletion reverses fatty liver disease in mice. Hepatology, 2016, 63, 1190-1204.	7.3	289
14	Lethal Cardiomyopathy in Mice Lacking Transferrin Receptor in the Heart. Cell Reports, 2015, 13, 533-545.	6.4	213
15	NAD+ Content and Its Role in Mitochondria. Methods in Molecular Biology, 2015, 1241, 39-48.	0.9	38
16	Fasting and refeeding differentially regulate NLRP3 inflammasome activation in human subjects. Journal of Clinical Investigation, 2015, 125, 4592-4600.	8.2	135
17	Activation of SIRT3 by the NAD+ Precursor Nicotinamide Riboside Protects from Noise-Induced Hearing Loss. Cell Metabolism, 2014, 20, 1059-1068.	16.2	237
18	NAD+-Dependent Activation of Sirt1 Corrects the Phenotype in a Mouse Model of Mitochondrial Disease. Cell Metabolism, 2014, 19, 1042-1049.	16.2	293

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19	Nicotinamide N-methyltransferase knockdown protects against diet-induced obesity. Nature, 2014, 508, 258-262.	27.8	387
20	<scp>SIRT</scp>2 induces the checkpoint kinase BubR1 to increase lifespan. EMBO Journal, 2014, 33, 1438-1453.	7.8	195
21	Pharmacological Inhibition of Poly(ADP-Ribose) Polymerases Improves Fitness and Mitochondrial Function in Skeletal Muscle. Cell Metabolism, 2014, 19, 1034-1041.	16.2	211
22	Multifunctionalization of cetuximab with bioorthogonal chemistries and parallel EGFR profiling of cell-lines using imaging, FACS and immunoprecipitation approaches. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2014, 1844, 2182-2192.	2.3	3
23	Mangiferin Stimulates Carbohydrate Oxidation and Protects Against Metabolic Disorders Induced by High-Fat Diets. Diabetes, 2014, 63, 3626-3636.	0.6	54
24	Dual Mode Action of Mangiferin in Mouse Liver under High Fat Diet. PLoS ONE, 2014, 9, e90137.	2.5	48
25	Acetylation-defective mutants of PparÎ³ are associated with decreased lipid synthesis in breast cancer cells. Oncotarget, 2014, 5, 7303-7315.	1.8	34
26	SIRT4 Represses Peroxisome Proliferator-Activated Receptor Î± Activity To Suppress Hepatic Fat Oxidation. Molecular and Cellular Biology, 2013, 33, 4552-4561.	2.3	132
27	Sirtuin Deacetylases as Therapeutic Targets in the Nervous System. Neurotherapeutics, 2013, 10, 605-620.	4.4	28
28	Nicotinamide riboside restores cognition through an upregulation of proliferator-activated receptor-Î³ coactivator 1Î± regulated Î²-secretase 1 degradation and mitochondrial gene expression in Alzheimer's mouse models. Neurobiology of Aging, 2013, 34, 1581-1588.	3.1	287
29	Crosstalk between poly(ADP-ribose) polymerase and sirtuin enzymes. Molecular Aspects of Medicine, 2013, 34, 1168-1201.	6.4	202
30	Sirtuins: NAD+-dependent deacetylase mechanism and regulation. Current Opinion in Chemical Biology, 2012, 16, 535-543.	6.1	77
31	The NAD+ Precursor Nicotinamide Riboside Enhances Oxidative Metabolism and Protects against High-Fat Diet-Induced Obesity. Cell Metabolism, 2012, 15, 838-847.	16.2	957
32	Screening of SirT1 activating compounds and their cytotoxicity in prostate cancer cell lines.. Journal of Clinical Oncology, 2012, 30, e13545-e13545.	1.6	0
33	PARP-1 Inhibition Increases Mitochondrial Metabolism through SIRT1 Activation. Cell Metabolism, 2011, 13, 461-468.	16.2	673
34	PARP-2 Regulates SIRT1 Expression and Whole-Body Energy Expenditure. Cell Metabolism, 2011, 13, 450-460.	16.2	231
35	Mechanism-based affinity capture of sirtuins. Organic and Biomolecular Chemistry, 2011, 9, 987-993.	2.8	27
36	Vitamin B3, the nicotinamide adenine dinucleotides and aging. Mechanisms of Ageing and Development, 2010, 131, 287-298.	4.6	38

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37	Sirtuin chemical mechanisms. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 1591-1603.	2.3	131
38	Sirtuins. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 1565-1566.	2.3	11
39	Identification of the Aryl Hydrocarbon Receptor Target Gene TiPARP as a Mediator of Suppression of Hepatic Gluconeogenesis by 2,3,7,8-Tetrachlorodibenzo-p-dioxin and of Nicotinamide as a Corrective Agent for This Effect. Journal of Biological Chemistry, 2010, 285, 38801-38810.	3.4	95
40	High-Resolution Crystal Structures of <i>Streptococcus pneumoniae</i> Nicotinamidase with Trapped Intermediates Provide Insights into the Catalytic Mechanism and Inhibition by Aldehydes,. Biochemistry, 2010, 49, 8803-8812.	2.5	30
41	Transition State of ADP-Ribosylation of Acetyllysine Catalyzed by Archaeoglobus fulgidus Sir2 Determined by Kinetic Isotope Effects and Computational Approaches. Journal of the American Chemical Society, 2010, 132, 12286-12298.	13.7	34
42	Characterization of Nicotinamidases: Steady State Kinetic Parameters, Classwide Inhibition by Nicotinaldehydes, and Catalytic Mechanism. Biochemistry, 2010, 49, 10421-10439.	2.5	51
43	Does Declining Mitochondrial NAD+ and Unscheduled Opening of Mitochondrial Transition Pore Promote Mammalian Aging?. Blood, 2010, 116, SCI-3-SCI-3.	1.4	0
44	Global Analysis of Transcriptional Regulation by Poly(ADP-ribose) Polymerase-1 and Poly(ADP-ribose) Glycohydrolase in MCF-7 Human Breast Cancer Cells. Journal of Biological Chemistry, 2009, 284, 33926-33938.	3.4	102
45	Enzymes in the NAD+ Salvage Pathway Regulate SIRT1 Activity at Target Gene Promoters. Journal of Biological Chemistry, 2009, 284, 20408-20417.	3.4	200
46	Diastereocontrolled Electrophilic Fluorinations of 2-Deoxyribonolactone: Syntheses of All Corresponding 2-Deoxy-2-fluorolactones and 2â€²-Deoxy-2â€²-fluoro-NAD⁺s. Journal of Organic Chemistry, 2009, 74, 5779-5789.	3.2	29
47	Pharmaceutical Strategies for Activating Sirtuins. Current Pharmaceutical Design, 2009, 15, 45-56.	1.9	38
48	A SIR-tain Acetyl Complex Is Caught by a Sulfur Trap. Structure, 2008, 16, 1289-1292.	3.3	1
49	Glucose Restriction Inhibits Skeletal Myoblast Differentiation by Activating SIRT1 through AMPK-Mediated Regulation of Nampt. Developmental Cell, 2008, 14, 661-673.	7.0	701
50	Plasmodium falciparum Sir2 is an NAD+-Dependent Deacetylase and an Acetyllysine-Dependent and Acetyllysine-Independent NAD+ Glycohydrolase. Biochemistry, 2008, 47, 10227-10239.	2.5	46
51	NAD⁺and Vitamin B₃: From Metabolism to Therapies. Journal of Pharmacology and Experimental Therapeutics, 2008, 324, 883-893.	2.5	273
52	Nicotinamide Riboside Kinase Structures Reveal New Pathways to NAD+. PLoS Biology, 2007, 5, e263.	5.6	126
53	Nutrient-Sensitive Mitochondrial NAD+ Levels Dictate Cell Survival. Cell, 2007, 130, 1095-1107.	28.9	855
54	Syntheses of Nicotinamide Riboside and Derivatives: Effective Agents for Increasing Nicotinamide Adenine Dinucleotide Concentrations in Mammalian Cells. Journal of Medicinal Chemistry, 2007, 50, 6458-6461.	6.4	99

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55	NAD metabolism and sirtuins: Metabolic regulation of protein deacetylation in stress and toxicity. AAPS Journal, 2006, 8, E632-43.	4.4	145
56	The Biochemistry of Sirtuins. Annual Review of Biochemistry, 2006, 75, 435-465.	11.1	656
57	Neuronal SIRT1 Activation as a Novel Mechanism Underlying the Prevention of Alzheimer Disease Amyloid Neuropathology by Calorie Restriction*. Journal of Biological Chemistry, 2006, 281, 21745-21754.	3.4	567
58	SIRT1 and endocrine signaling. Trends in Endocrinology and Metabolism, 2006, 17, 186-191.	7.1	175
59	Hormonal Control of Androgen Receptor Function through SIRT1. Molecular and Cellular Biology, 2006, 26, 8122-8135.	2.3	214
60	SIRT1 Deacetylation and Repression of p300 Involves Lysine Residues 1020/1024 within the Cell Cycle Regulatory Domain 1. Journal of Biological Chemistry, 2005, 280, 10264-10276.	3.4	301
61	Chemical Activation of Sir2-Dependent Silencing by Relief of Nicotinamide Inhibition. Molecular Cell, 2005, 17, 595-601.	9.7	141
62	SIR2: The Biochemical Mechanism of NAD+-Dependent Protein Deacetylation and ADP-Ribosyl Enzyme Intermediates. Current Medicinal Chemistry, 2004, 11, 807-826.	2.4	76
63	Sir2 Regulation by Nicotinamide Results from Switching between Base Exchange and Deacetylation Chemistry. Biochemistry, 2003, 42, 9249-9256.	2.5	205
64	Ionic States of Substrates and Transition State Analogues at the Catalytic Sites ofN-Ribosyltransferasesâ€. Biochemistry, 2003, 42, 5694-5705.	2.5	41
65	Mechanism-Based Inhibitors of CD38:Â A Mammalian Cyclic ADP-Ribose Synthetaseâ€. Biochemistry, 2002, 41, 8455-8463.	2.5	31
66	Chemistry of Gene Silencing:â€‰ The Mechanism of NAD+-Dependent Deacetylation Reactions. Biochemistry, 2001, 40, 15456-15463.	2.5	293
67	A Covalent Intermediate in CD38 Is Responsible for ADP-Ribosylation and Cyclization Reactions. Journal of the American Chemical Society, 2000, 122, 7855-7859.	13.7	62
68	The Reaction Mechanism for CD38. A Single Intermediate Is Responsible for Cyclization, Hydrolysis, and Base-Exchange Chemistriesâ€. Biochemistry, 1998, 37, 13239-13249.	2.5	109