

Anthony A Sauve

List of Publications by Year in descending order

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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	The NAD ⁺ Precursor Nicotinamide Riboside Enhances Oxidative Metabolism and Protects against High-Fat Diet-Induced Obesity. <i>Cell Metabolism</i> , 2012, 15, 838-847.	16.2	957
2	Nutrient-Sensitive Mitochondrial NAD ⁺ Levels Dictate Cell Survival. <i>Cell</i> , 2007, 130, 1095-1107.	28.9	855
3	Glucose Restriction Inhibits Skeletal Myoblast Differentiation by Activating SIRT1 through AMPK-Mediated Regulation of Nampt. <i>Developmental Cell</i> , 2008, 14, 661-673.	7.0	701
4	PARP-1 Inhibition Increases Mitochondrial Metabolism through SIRT1 Activation. <i>Cell Metabolism</i> , 2011, 13, 461-468.	16.2	673
5	The Biochemistry of Sirtuins. <i>Annual Review of Biochemistry</i> , 2006, 75, 435-465.	11.1	656
6	Neuronal SIRT1 Activation as a Novel Mechanism Underlying the Prevention of Alzheimer Disease Amyloid Neuropathology by Calorie Restriction*. <i>Journal of Biological Chemistry</i> , 2006, 281, 21745-21754.	3.4	567
7	Nicotinamide N-methyltransferase knockdown protects against diet-induced obesity. <i>Nature</i> , 2014, 508, 258-262.	27.8	387
8	NAD ⁺ + metabolism: Bioenergetics, signaling and manipulation for therapy. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2016, 1864, 1787-1800.	2.3	327
9	SIRT1 Deacetylation and Repression of p300 Involves Lysine Residues 1020/1024 within the Cell Cycle Regulatory Domain 1. <i>Journal of Biological Chemistry</i> , 2005, 280, 10264-10276.	3.4	301
10	Chemistry of Gene Silencing: The Mechanism of NAD ⁺ -Dependent Deacetylation Reactions. <i>Biochemistry</i> , 2001, 40, 15456-15463.	2.5	293
11	NAD ⁺ -Dependent Activation of Sirt1 Corrects the Phenotype in a Mouse Model of Mitochondrial Disease. <i>Cell Metabolism</i> , 2014, 19, 1042-1049.	16.2	293
12	Eliciting the mitochondrial unfolded protein response by nicotinamide adenine dinucleotide repletion reverses fatty liver disease in mice. <i>Hepatology</i> , 2016, 63, 1190-1204.	7.3	289
13	Nicotinamide riboside restores cognition through an upregulation of proliferator-activated receptor- β coactivator 1 regulated β -secretase 1 degradation and mitochondrial gene expression in Alzheimer's mouse models. <i>Neurobiology of Aging</i> , 2013, 34, 1581-1588.	3.1	287
14	NAD ⁺ and Vitamin B ₃ : From Metabolism to Therapies. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2008, 324, 883-893.	2.5	273
15	Nicotinamide Improves Aspects of Healthspan, but Not Lifespan, in Mice. <i>Cell Metabolism</i> , 2018, 27, 667-676.e4.	16.2	242
16	Activation of SIRT3 by the NAD ⁺ Precursor Nicotinamide Riboside Protects from Noise-Induced Hearing Loss. <i>Cell Metabolism</i> , 2014, 20, 1059-1068.	16.2	237
17	PARP-2 Regulates SIRT1 Expression and Whole-Body Energy Expenditure. <i>Cell Metabolism</i> , 2011, 13, 450-460.	16.2	231
18	Hormonal Control of Androgen Receptor Function through SIRT1. <i>Molecular and Cellular Biology</i> , 2006, 26, 8122-8135.	2.3	214

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19	Lethal Cardiomyopathy in Mice Lacking Transferrin Receptor in the Heart. <i>Cell Reports</i> , 2015, 13, 533-545.	6.4	213
20	Pharmacological Inhibition of Poly(ADP-Ribose) Polymerases Improves Fitness and Mitochondrial Function in Skeletal Muscle. <i>Cell Metabolism</i> , 2014, 19, 1034-1041.	16.2	211
21	NAD ⁺ repletion improves muscle function in muscular dystrophy and counters global PARylation. <i>Science Translational Medicine</i> , 2016, 8, 361ra139.	12.4	208
22	Sir2 Regulation by Nicotinamide Results from Switching between Base Exchange and Deacetylation Chemistry. <i>Biochemistry</i> , 2003, 42, 9249-9256.	2.5	205
23	Crosstalk between poly(ADP-ribose) polymerase and sirtuin enzymes. <i>Molecular Aspects of Medicine</i> , 2013, 34, 1168-1201.	6.4	202
24	Enzymes in the NAD ⁺ Salvage Pathway Regulate SIRT1 Activity at Target Gene Promoters. <i>Journal of Biological Chemistry</i> , 2009, 284, 20408-20417.	3.4	200
25	SIRT2 induces the checkpoint kinase BubR1 to increase lifespan. <i>EMBO Journal</i> , 2014, 33, 1438-1453.	7.8	195
26	SIRT1 and endocrine signaling. <i>Trends in Endocrinology and Metabolism</i> , 2006, 17, 186-191.	7.1	175
27	NAD metabolism and sirtuins: Metabolic regulation of protein deacetylation in stress and toxicity. <i>AAPS Journal</i> , 2006, 8, E632-43.	4.4	145
28	Chemical Activation of Sir2-Dependent Silencing by Relief of Nicotinamide Inhibition. <i>Molecular Cell</i> , 2005, 17, 595-601.	9.7	141
29	Fasting and refeeding differentially regulate NLRP3 inflammasome activation in human subjects. <i>Journal of Clinical Investigation</i> , 2015, 125, 4592-4600.	8.2	135
30	SIRT4 Represses Peroxisome Proliferator-Activated Receptor α Activity To Suppress Hepatic Fat Oxidation. <i>Molecular and Cellular Biology</i> , 2013, 33, 4552-4561.	2.3	132
31	Sirtuin chemical mechanisms. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010, 1804, 1591-1603.	2.3	131
32	Nicotinamide Riboside Kinase Structures Reveal New Pathways to NAD ⁺ . <i>PLoS Biology</i> , 2007, 5, e263.	5.6	126
33	The Reaction Mechanism for CD38. A Single Intermediate Is Responsible for Cyclization, Hydrolysis, and Base-Exchange Chemistries. <i>Biochemistry</i> , 1998, 37, 13239-13249.	2.5	109
34	Global Analysis of Transcriptional Regulation by Poly(ADP-ribose) Polymerase-1 and Poly(ADP-ribose) Glycohydrolase in MCF-7 Human Breast Cancer Cells. <i>Journal of Biological Chemistry</i> , 2009, 284, 33926-33938.	3.4	102
35	Syntheses of Nicotinamide Riboside and Derivatives: Effective Agents for Increasing Nicotinamide Adenine Dinucleotide Concentrations in Mammalian Cells. <i>Journal of Medicinal Chemistry</i> , 2007, 50, 6458-6461.	6.4	99
36	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. <i>Journal of Biological Chemistry</i> , 2010, 285, 38801-38810.	3.4	95

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37	Dihyronicotinamide riboside is a potent NAD ⁺ concentration enhancer in vitro and in vivo. <i>Journal of Biological Chemistry</i> , 2019, 294, 9295-9307.	3.4	79
38	Sirtuins: NAD ⁺ -dependent deacetylase mechanism and regulation. <i>Current Opinion in Chemical Biology</i> , 2012, 16, 535-543.	6.1	77
39	SIR2: The Biochemical Mechanism of NAD ⁺ -Dependent Protein Deacetylation and ADP-Ribosyl Enzyme Intermediates. <i>Current Medicinal Chemistry</i> , 2004, 11, 807-826.	2.4	76
40	A Covalent Intermediate in CD38 Is Responsible for ADP-Ribosylation and Cyclization Reactions. <i>Journal of the American Chemical Society</i> , 2000, 122, 7855-7859.	13.7	62
41	NRH salvage and conversion to NAD ⁺ requires NRH kinase activity by adenosine kinase. <i>Nature Metabolism</i> , 2020, 2, 364-379.	11.9	55
42	Mangiferin Stimulates Carbohydrate Oxidation and Protects Against Metabolic Disorders Induced by High-Fat Diets. <i>Diabetes</i> , 2014, 63, 3626-3636.	0.6	54
43	Characterization of Nicotinamidases: Steady State Kinetic Parameters, Classwide Inhibition by Nicotinaldehydes, and Catalytic Mechanism. <i>Biochemistry</i> , 2010, 49, 10421-10439.	2.5	51
44	Dual Mode Action of Mangiferin in Mouse Liver under High Fat Diet. <i>PLoS ONE</i> , 2014, 9, e90137.	2.5	48
45	<i>Plasmodium falciparum</i> Sir2 is an NAD ⁺ -Dependent Deacetylase and an Acetyllysine-Dependent and Acetyllysine-Independent NAD ⁺ Glycohydrolase. <i>Biochemistry</i> , 2008, 47, 10227-10239.	2.5	46
46	Ionic States of Substrates and Transition State Analogues at the Catalytic Sites of N-Ribosyltransferases. <i>Biochemistry</i> , 2003, 42, 5694-5705.	2.5	41
47	Pharmaceutical Strategies for Activating Sirtuins. <i>Current Pharmaceutical Design</i> , 2009, 15, 45-56.	1.9	38
48	Vitamin B3, the nicotinamide adenine dinucleotides and aging. <i>Mechanisms of Ageing and Development</i> , 2010, 131, 287-298.	4.6	38
49	NAD ⁺ Content and Its Role in Mitochondria. <i>Methods in Molecular Biology</i> , 2015, 1241, 39-48.	0.9	38
50	Regulatory Effects of NAD + Metabolic Pathways on Sirtuin Activity. <i>Progress in Molecular Biology and Translational Science</i> , 2018, 154, 71-104.	1.7	36
51	Transition State of ADP-Ribosylation of Acetyllysine Catalyzed by <i>Archaeoglobus fulgidus</i> Sir2 Determined by Kinetic Isotope Effects and Computational Approaches. <i>Journal of the American Chemical Society</i> , 2010, 132, 12286-12298.	13.7	34
52	Acetylation-defective mutants of Ppar ^β are associated with decreased lipid synthesis in breast cancer cells. <i>Oncotarget</i> , 2014, 5, 7303-7315.	1.8	34
53	Mechanism-Based Inhibitors of CD38: A Mammalian Cyclic ADP-Ribose Synthetase. <i>Biochemistry</i> , 2002, 41, 8455-8463.	2.5	31
54	High-Resolution Crystal Structures of <i>Streptococcus pneumoniae</i> Nicotinamidase with Trapped Intermediates Provide Insights into the Catalytic Mechanism and Inhibition by Aldehydes. <i>Biochemistry</i> , 2010, 49, 8803-8812.	2.5	30

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55	Diastereocontrolled Electrophilic Fluorinations of 2-Deoxyribonolactone: Syntheses of All Corresponding 2-Deoxy-2-fluorolactones and 2-Deoxy-2-fluoro-NAD ⁺ s. <i>Journal of Organic Chemistry</i> , 2009, 74, 5779-5789.	3.2	29
56	Sirtuin Deacetylases as Therapeutic Targets in the Nervous System. <i>Neurotherapeutics</i> , 2013, 10, 605-620.	4.4	28
57	Mechanism-based affinity capture of sirtuins. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 987-993.	2.8	27
58	Sirtuins. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010, 1804, 1565-1566.	2.3	11
59	Synthesis of ¹² C-Nicotinamide Riboside Using an Efficient Two-Step Methodology. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2017, 71, 14.14.1-14.14.9.	0.5	10
60	Assays for Determination of Cellular and Mitochondrial NAD ⁺ and NADH Content. <i>Methods in Molecular Biology</i> , 2021, 2310, 271-285.	0.9	4
61	Multifunctionalization of cetuximab with bioorthogonal chemistries and parallel EGFR profiling of cell-lines using imaging, FACS and immunoprecipitation approaches. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 2182-2192.	2.3	3
62	A SIR-tain Acetyl Complex Is Caught by a Sulfur Trap. <i>Structure</i> , 2008, 16, 1289-1292.	3.3	1
63	Biochemistry and Enzymology of Sirtuins. , 2016, , 1-27.		1
64	Metabolic Disease, NAD Metabolism, Nicotinamide Riboside, and the Gut Microbiome: Connecting the Dots from the Gut to Physiology. <i>MSystems</i> , 2022, , e0122321.	3.8	1
65	Dihyronicotinamide riboside is a potent NAD ⁺ concentration enhancer <i>in vitro</i> and <i>in vivo</i> . <i>FASEB Journal</i> , 2021, 35, .	0.5	0
66	Does Declining Mitochondrial NAD ⁺ and Unscheduled Opening of Mitochondrial Transition Pore Promote Mammalian Aging?. <i>Blood</i> , 2010, 116, SCI-3-SCI-3.	1.4	0
67	Screening of SirT1 activating compounds and their cytotoxicity in prostate cancer cell lines.. <i>Journal of Clinical Oncology</i> , 2012, 30, e13545-e13545.	1.6	0
68	Nicotinamidases and Sirtuins. , 2020, , 131-156.		0