

Carles Canto

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

15,757
citations

66234

42
h-index

138251

58
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62
all docs

62
docs citations

62
times ranked

19943
citing authors

#	ARTICLE	IF	CITATIONS
1	AMPK regulates energy expenditure by modulating NAD ⁺ metabolism and SIRT1 activity. <i>Nature</i> , 2009, 458, 1056-1060.	13.7	2,654
2	PGC-1 α , SIRT1 and AMPK, an energy sensing network that controls energy expenditure. <i>Current Opinion in Lipidology</i> , 2009, 20, 98-105.	1.2	1,238
3	NAD ⁺ Metabolism and the Control of Energy Homeostasis: A Balancing Act between Mitochondria and the Nucleus. <i>Cell Metabolism</i> , 2015, 22, 31-53.	7.2	1,153
4	The NAD ⁺ Precursor Nicotinamide Riboside Enhances Oxidative Metabolism and Protects against High-Fat Diet-Induced Obesity. <i>Cell Metabolism</i> , 2012, 15, 838-847.	7.2	957
5	The NAD ⁺ /Sirtuin Pathway Modulates Longevity through Activation of Mitochondrial UPR and FOXO Signaling. <i>Cell</i> , 2013, 154, 430-441.	13.5	951
6	Interdependence of AMPK and SIRT1 for Metabolic Adaptation to Fasting and Exercise in Skeletal Muscle. <i>Cell Metabolism</i> , 2010, 11, 213-219.	7.2	752
7	The Secret Life of NAD ⁺ : An Old Metabolite Controlling New Metabolic Signaling Pathways. <i>Endocrine Reviews</i> , 2010, 31, 194-223.	8.9	731
8	PARP-1 Inhibition Increases Mitochondrial Metabolism through SIRT1 Activation. <i>Cell Metabolism</i> , 2011, 13, 461-468.	7.2	673
9	Specific SIRT1 Activation Mimics Low Energy Levels and Protects against Diet-Induced Metabolic Disorders by Enhancing Fat Oxidation. <i>Cell Metabolism</i> , 2008, 8, 347-358.	7.2	665
10	The metabolic footprint of aging in mice. <i>Scientific Reports</i> , 2011, 1, 134.	1.6	440
11	The molecular targets of resveratrol. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015, 1852, 1114-1123.	1.8	362
12	Caloric restriction, SIRT1 and longevity. <i>Trends in Endocrinology and Metabolism</i> , 2009, 20, 325-331.	3.1	352
13	AMP-activated protein kinase and its downstream transcriptional pathways. <i>Cellular and Molecular Life Sciences</i> , 2010, 67, 3407-3423.	2.4	336
14	Targeting Sirtuin 1 to Improve Metabolism: All You Need Is NAD ⁺ ?. <i>Pharmacological Reviews</i> , 2012, 64, 166-187.	7.1	326
15	NRK1 controls nicotinamide mononucleotide and nicotinamide riboside metabolism in mammalian cells. <i>Nature Communications</i> , 2016, 7, 13103.	5.8	261
16	SRT1720 improves survival and healthspan of obese mice. <i>Scientific Reports</i> , 2011, 1, 70.	1.6	249
17	The Role of PARP-1 and PARP-2 Enzymes in Metabolic Regulation and Disease. <i>Cell Metabolism</i> , 2012, 16, 290-295.	7.2	240
18	PARP-2 Regulates SIRT1 Expression and Whole-Body Energy Expenditure. <i>Cell Metabolism</i> , 2011, 13, 450-460.	7.2	231

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19	NCoR1 Is a Conserved Physiological Modulator of Muscle Mass and Oxidative Function. <i>Cell</i> , 2011, 147, 827-839.	13.5	228
20	Enhanced Respiratory Chain Supercomplex Formation in Response to Exercise in Human Skeletal Muscle. <i>Cell Metabolism</i> , 2017, 25, 301-311.	7.2	213
21	Pharmacological Inhibition of Poly(ADP-Ribose) Polymerases Improves Fitness and Mitochondrial Function in Skeletal Muscle. <i>Cell Metabolism</i> , 2014, 19, 1034-1041.	7.2	211
22	Calorie Restriction: Is AMPK a Key Sensor and Effector?. <i>Physiology</i> , 2011, 26, 214-224.	1.6	209
23	NAD ⁺ repletion improves muscle function in muscular dystrophy and counters global PARylation. <i>Science Translational Medicine</i> , 2016, 8, 361ra139.	5.8	208
24	Crosstalk between poly(ADP-ribose) polymerase and sirtuin enzymes. <i>Molecular Aspects of Medicine</i> , 2013, 34, 1168-1201.	2.7	202
25	Mfn2 is critical for brown adipose tissue thermogenic function. <i>EMBO Journal</i> , 2017, 36, 1543-1558.	3.5	193
26	The NAD-Booster Nicotinamide Riboside Potently Stimulates Hematopoiesis through Increased Mitochondrial Clearance. <i>Cell Stem Cell</i> , 2019, 24, 405-418.e7.	5.2	143
27	CREB and ChREBP oppositely regulate SIRT1 expression in response to energy availability. <i>EMBO Reports</i> , 2011, 12, 1069-1076.	2.0	140
28	Muscle or liver-specific Sirt3 deficiency induces hyperacetylation of mitochondrial proteins without affecting global metabolic homeostasis. <i>Scientific Reports</i> , 2012, 2, 425.	1.6	126
29	Mitochondrial response to nutrient availability and its role in metabolic disease. <i>EMBO Molecular Medicine</i> , 2014, 6, 580-589.	3.3	120
30	Skeletal Muscle Mitochondria in the Elderly: Effects of Physical Fitness and Exercise Training. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2014, 99, 1852-1861.	1.8	114
31	SIRT1 metabolic actions: Integrating recent advances from mouse models. <i>Molecular Metabolism</i> , 2014, 3, 5-18.	3.0	102
32	Nicotinamide riboside kinases display redundancy in mediating nicotinamide mononucleotide and nicotinamide riboside metabolism in skeletal muscle cells. <i>Molecular Metabolism</i> , 2017, 6, 819-832.	3.0	96
33	A reduced form of nicotinamide riboside defines a new path for NAD ⁺ biosynthesis and acts as an orally bioavailable NAD ⁺ precursor. <i>Molecular Metabolism</i> , 2019, 30, 192-202.	3.0	89
34	Distinct patterns of skeletal muscle mitochondria fusion, fission and mitophagy upon duration of exercise training. <i>Acta Physiologica</i> , 2019, 225, e13179.	1.8	79
35	SIRT1 enhances glucose tolerance by potentiating brown adipose tissue function. <i>Molecular Metabolism</i> , 2015, 4, 118-131.	3.0	75
36	Circadian and Feeding Rhythms Orchestrate the Diurnal Liver Acetylome. <i>Cell Reports</i> , 2017, 20, 1729-1743.	2.9	72

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37	Mfn1 Deficiency in the Liver Protects Against Diet-Induced Insulin Resistance and Enhances the Hypoglycemic Effect of Metformin. <i>Diabetes</i> , 2016, 65, 3552-3560.	0.3	66
38	Circadian Rhythms and Mitochondria: Connecting the Dots. <i>Frontiers in Genetics</i> , 2018, 9, 452.	1.1	62
39	Mitochondrial stress management: a dynamic journey. <i>Cell Stress</i> , 2018, 2, 253-274.	1.4	55
40	FGF21 Takes a Fat Bite. <i>Science</i> , 2012, 336, 675-676.	6.0	46
41	Interference between PARPs and SIRT1: a novel approach to healthy ageing?. <i>Aging</i> , 2011, 3, 543-547.	1.4	46
42	Longevity hits a roadblock. <i>Nature</i> , 2011, 477, 410-411.	13.7	44
43	Reduced nicotinamide mononucleotide is a new and potent NAD ⁺ precursor in mammalian cells and mice. <i>FASEB Journal</i> , 2021, 35, e21456.	0.2	42
44	High-Resolution Respirometry for Mitochondrial Characterization of Ex Vivo Mouse Tissues. <i>Current Protocols in Mouse Biology</i> , 2015, 5, 135-153.	1.2	32
45	Crosstalk between Drp1 phosphorylation sites during mitochondrial remodeling and their impact on metabolic adaptation. <i>Cell Reports</i> , 2021, 36, 109565.	2.9	32
46	SIRT1 Gain of Function Does Not Mimic or Enhance the Adaptations to Intermittent Fasting. <i>Cell Reports</i> , 2016, 14, 2068-2075.	2.9	31
47	Endogenous nicotinamide riboside metabolism protects against diet-induced liver damage. <i>Nature Communications</i> , 2019, 10, 4291.	5.8	30
48	A Method to Monitor the NAD ⁺ Metabolome From Mechanistic to Clinical Applications. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10598.	1.8	13
49	Mitochondrial Dynamics: Shaping Metabolic Adaptation. <i>International Review of Cell and Molecular Biology</i> , 2018, 340, 129-167.	1.6	12
50	Cloning on PGC-1 α to Inhibit Gluconeogenesis. <i>Cell Metabolism</i> , 2010, 11, 6-7.	7.2	11
51	SIRT1: A novel guardian of brown fat against metabolic damage. <i>Obesity</i> , 2016, 24, 554-554.	1.5	8
52	NAD ⁺ Precursors: A Questionable Redundancy. <i>Metabolites</i> , 2022, 12, 630.	1.3	8
53	The heat shock factor HSF1 juggles protein quality control and metabolic regulation. <i>Journal of Cell Biology</i> , 2017, 216, 551-553.	2.3	7
54	Nicotinamide Riboside and Dihyronicotinic Acid Riboside Synergistically Increase Intracellular NAD ⁺ by Generating Dihyronicotinamide Riboside. <i>Nutrients</i> , 2022, 14, 2752.	1.7	7

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55	Glucose Restriction: Longevity SIRTainly, but without Building Muscle?. <i>Developmental Cell</i> , 2008, 14, 642-644.	3.1	3
56	Dietary restriction and Sirtuin 1 in metabolic health: connections and divergences. <i>Proceedings of the Nutrition Society</i> , 2016, 75, 30-37.	0.4	3
57	Specific SIRT1 Activation Mimics Low Energy Levels and Protects against Diet-Induced Metabolic Disorders by Enhancing Fat Oxidation. <i>Cell Metabolism</i> , 2009, 9, 210.	7.2	2
58	Sirtuins and Aging. , 2016, , 213-227.		2
59	In Vivo Measurement of the Acetylation State of Sirtuin Substrates as a Proxy for Sirtuin Activity. <i>Methods in Molecular Biology</i> , 2013, 1077, 217-237.	0.4	2
60	SIRT1 in Metabolic Health and Disease. , 2016, , 71-104.		1
61	State of Knowledge and Recent Advances in Prevention and Treatment of Mitochondrial Dysfunction in Obesity and Type 2 Diabetes. , 2019, , 399-418.		1