

# Carles Canto

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

15,757  
citations

66343

42  
h-index

138484

58  
g-index

62  
all docs

62  
docs citations

62  
times ranked

19943  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nicotinamide Riboside and Dihyronicotinic Acid Riboside Synergistically Increase Intracellular NAD <sup>+</sup> by Generating Dihyronicotinamide Riboside. <i>Nutrients</i> , 2022, 14, 2752.	4.1	7
2	NAD <sup>+</sup> Precursors: A Questionable Redundancy. <i>Metabolites</i> , 2022, 12, 630.	2.9	8
3	Reduced nicotinamide mononucleotide is a new and potent NAD <sup>+</sup> precursor in mammalian cells and mice. <i>FASEB Journal</i> , 2021, 35, e21456.	0.5	42
4	Crosstalk between Drp1 phosphorylation sites during mitochondrial remodeling and their impact on metabolic adaptation. <i>Cell Reports</i> , 2021, 36, 109565.	6.4	32
5	A Method to Monitor the NAD <sup>+</sup> Metabolome—From Mechanistic to Clinical Applications. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10598.	4.1	13
6	Distinct patterns of skeletal muscle mitochondria fusion, fission and mitophagy upon duration of exercise training. <i>Acta Physiologica</i> , 2019, 225, e13179.	3.8	79
7	Endogenous nicotinamide riboside metabolism protects against diet-induced liver damage. <i>Nature Communications</i> , 2019, 10, 4291.	12.8	30
8	A reduced form of nicotinamide riboside defines a new path for NAD <sup>+</sup> biosynthesis and acts as an orally bioavailable NAD <sup>+</sup> precursor. <i>Molecular Metabolism</i> , 2019, 30, 192-202.	6.5	89
9	State of Knowledge and Recent Advances in Prevention and Treatment of Mitochondrial Dysfunction in Obesity and Type 2 Diabetes. , 2019, , 399-418.		1
10	The NAD-Booster Nicotinamide Riboside Potently Stimulates Hematopoiesis through Increased Mitochondrial Clearance. <i>Cell Stem Cell</i> , 2019, 24, 405-418.e7.	11.1	143
11	Mitochondrial stress management: a dynamic journey. <i>Cell Stress</i> , 2018, 2, 253-274.	3.2	55
12	Circadian Rhythms and Mitochondria: Connecting the Dots. <i>Frontiers in Genetics</i> , 2018, 9, 452.	2.3	62
13	Mitochondrial Dynamics: Shaping Metabolic Adaptation. <i>International Review of Cell and Molecular Biology</i> , 2018, 340, 129-167.	3.2	12
14	The heat shock factor HSF1 juggles protein quality control and metabolic regulation. <i>Journal of Cell Biology</i> , 2017, 216, 551-553.	5.2	7
15	Enhanced Respiratory Chain Supercomplex Formation in Response to Exercise in Human Skeletal Muscle. <i>Cell Metabolism</i> , 2017, 25, 301-311.	16.2	213
16	Mfn2 is critical for brown adipose tissue thermogenic function. <i>EMBO Journal</i> , 2017, 36, 1543-1558.	7.8	193
17	Circadian and Feeding Rhythms Orchestrate the Diurnal Liver Acetylome. <i>Cell Reports</i> , 2017, 20, 1729-1743.	6.4	72
18	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.	6.5	96

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19	SIRT1: A novel guardian of brown fat against metabolic damage. <i>Obesity</i> , 2016, 24, 554-554.	3.0	8
20	Sirtuins and Aging. , 2016, , 213-227.		2
21	Dietary restriction and Sirtuin 1 in metabolic health: connections and divergences. <i>Proceedings of the Nutrition Society</i> , 2016, 75, 30-37.	1.0	3
22	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.	0.6	66
23	SIRT1 in Metabolic Health and Disease. , 2016, , 71-104.		1
24	NAD <sup>+</sup> repletion improves muscle function in muscular dystrophy and counters global PARylation. <i>Science Translational Medicine</i> , 2016, 8, 361ra139.	12.4	208
25	NRK1 controls nicotinamide mononucleotide and nicotinamide riboside metabolism in mammalian cells. <i>Nature Communications</i> , 2016, 7, 13103.	12.8	261
26	SIRT1 Gain of Function Does Not Mimic or Enhance the Adaptations to Intermittent Fasting. <i>Cell Reports</i> , 2016, 14, 2068-2075.	6.4	31
27	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
28	SIRT1 enhances glucose tolerance by potentiating brown adipose tissue function. <i>Molecular Metabolism</i> , 2015, 4, 118-131.	6.5	75
29	NAD <sup>+</sup> Metabolism and the Control of Energy Homeostasis: A Balancing Act between Mitochondria and the Nucleus. <i>Cell Metabolism</i> , 2015, 22, 31-53.	16.2	1,153
30	The molecular targets of resveratrol. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015, 1852, 1114-1123.	3.8	362
31	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
32	Mitochondrial response to nutrient availability and its role in metabolic disease. <i>EMBO Molecular Medicine</i> , 2014, 6, 580-589.	6.9	120
33	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.	3.6	114
34	SIRT1 metabolic actions: Integrating recent advances from mouse models. <i>Molecular Metabolism</i> , 2014, 3, 5-18.	6.5	102
35	The NAD <sup>+</sup> /Sirtuin Pathway Modulates Longevity through Activation of Mitochondrial UPR and FOXO Signaling. <i>Cell</i> , 2013, 154, 430-441.	28.9	951
36	Crosstalk between poly(ADP-ribose) polymerase and sirtuin enzymes. <i>Molecular Aspects of Medicine</i> , 2013, 34, 1168-1201.	6.4	202

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37	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.	0.9	2
38	FGF21 Takes a Fat Bite. <i>Science</i> , 2012, 336, 675-676.	12.6	46
39	Muscle or liver-specific Sirt3 deficiency induces hyperacetylation of mitochondrial proteins without affecting global metabolic homeostasis. <i>Scientific Reports</i> , 2012, 2, 425.	3.3	126
40	The NAD <sup>+</sup> 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
41	The Role of PARP-1 and PARP-2 Enzymes in Metabolic Regulation and Disease. <i>Cell Metabolism</i> , 2012, 16, 290-295.	16.2	240
42	Targeting Sirtuin 1 to Improve Metabolism: All You Need Is NAD <sup>+</sup> ?. <i>Pharmacological Reviews</i> , 2012, 64, 166-187.	16.0	326
43	NCoR1 Is a Conserved Physiological Modulator of Muscle Mass and Oxidative Function. <i>Cell</i> , 2011, 147, 827-839.	28.9	228
44	PARP-1 Inhibition Increases Mitochondrial Metabolism through SIRT1 Activation. <i>Cell Metabolism</i> , 2011, 13, 461-468.	16.2	673
45	PARP-2 Regulates SIRT1 Expression and Whole-Body Energy Expenditure. <i>Cell Metabolism</i> , 2011, 13, 450-460.	16.2	231
46	CREB and ChREBP oppositely regulate SIRT1 expression in response to energy availability. <i>EMBO Reports</i> , 2011, 12, 1069-1076.	4.5	140
47	SIRT1720 improves survival and healthspan of obese mice. <i>Scientific Reports</i> , 2011, 1, 70.	3.3	249
48	Longevity hits a roadblock. <i>Nature</i> , 2011, 477, 410-411.	27.8	44
49	Calorie Restriction: Is AMPK a Key Sensor and Effector?. <i>Physiology</i> , 2011, 26, 214-224.	3.1	209
50	The metabolic footprint of aging in mice. <i>Scientific Reports</i> , 2011, 1, 134.	3.3	440
51	Interference between PARPs and SIRT1: a novel approach to healthy ageing?. <i>Aging</i> , 2011, 3, 543-547.	3.1	46
52	AMP-activated protein kinase and its downstream transcriptional pathways. <i>Cellular and Molecular Life Sciences</i> , 2010, 67, 3407-3423.	5.4	336
53	The Secret Life of NAD <sup>+</sup> : An Old Metabolite Controlling New Metabolic Signaling Pathways. <i>Endocrine Reviews</i> , 2010, 31, 194-223.	20.1	731
54	Clk on PGC-1 $\beta$ to Inhibit Gluconeogenesis. <i>Cell Metabolism</i> , 2010, 11, 6-7.	16.2	11

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55	Interdependence of AMPK and SIRT1 for Metabolic Adaptation to Fasting and Exercise in Skeletal Muscle. <i>Cell Metabolism</i> , 2010, 11, 213-219.	16.2	752
56	AMPK regulates energy expenditure by modulating NAD <sup>+</sup> metabolism and SIRT1 activity. <i>Nature</i> , 2009, 458, 1056-1060.	27.8	2,654
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.	16.2	2
58	Caloric restriction, SIRT1 and longevity. <i>Trends in Endocrinology and Metabolism</i> , 2009, 20, 325-331.	7.1	352
59	PGC-1 $\beta$ , SIRT1 and AMPK, an energy sensing network that controls energy expenditure. <i>Current Opinion in Lipidology</i> , 2009, 20, 98-105.	2.7	1,238
60	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.	16.2	665
61	Glucose Restriction: Longevity SIRTainly, but without Building Muscle?. <i>Developmental Cell</i> , 2008, 14, 642-644.	7.0	3