# Carles Canto

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4869738/publications.pdf

Version: 2024-02-01

| 61 | 15,757 | 66343 | 138484 |
|---|---|---|---|
| papers | citations | 42 h-index | 58 g-index |

| 62 | 62 | 62 | 19943 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | AMPK regulates energy expenditure by modulating NAD+ metabolism and SIRT1 activity. Nature, 2009, 458, 1056-1060. | 27.8 | 2,654 |
| 2 | PGC-1Î±, SIRT1 and AMPK, an energy sensing network that controls energy expenditure. Current Opinion in Lipidology, 2009, 20, 98-105. | 2.7 | 1,238 |
| 3 | NAD+ Metabolism and the Control of Energy Homeostasis: A Balancing Act between Mitochondria and the Nucleus. Cell Metabolism, 2015, 22, 31-53. | 16.2 | 1,153 |
| 4 | 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 |
| 5 | The NAD+/Sirtuin Pathway Modulates Longevity through Activation of Mitochondrial UPR and FOXO Signaling. Cell, 2013, 154, 430-441. | 28.9 | 951 |
| 6 | Interdependence of AMPK and SIRT1 for Metabolic Adaptation to Fasting and Exercise in Skeletal Muscle. Cell Metabolism, 2010, 11, 213-219. | 16.2 | 752 |
| 7 | The Secret Life of NAD+: An Old Metabolite Controlling New Metabolic Signaling Pathways. Endocrine Reviews, 2010, 31, 194-223. | 20.1 | 731 |
| 8 | PARP-1 Inhibition Increases Mitochondrial Metabolism through SIRT1 Activation. Cell Metabolism, 2011, 13, 461-468. | 16.2 | 673 |
| 9 | Specific SIRT1 Activation Mimics Low Energy Levels and Protects against Diet-Induced Metabolic Disorders by Enhancing Fat Oxidation. Cell Metabolism, 2008, 8, 347-358. | 16.2 | 665 |
| 10 | The metabolic footprint of aging in mice. Scientific Reports, 2011, 1, 134. | 3.3 | 440 |
| 11 | The molecular targets of resveratrol. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2015, 1852, 1114-1123. | 3.8 | 362 |
| 12 | Caloric restriction, SIRT1 and longevity. Trends in Endocrinology and Metabolism, 2009, 20, 325-331. | 7.1 | 352 |
| 13 | AMP-activated protein kinase and its downstream transcriptional pathways. Cellular and Molecular Life Sciences, 2010, 67, 3407-3423. | 5.4 | 336 |
| 14 | Targeting Sirtuin 1 to Improve Metabolism: All You Need Is NAD<sup>+</sup>?. Pharmacological Reviews, 2012, 64, 166-187. | 16.0 | 326 |
| 15 | NRK1 controls nicotinamide mononucleotide and nicotinamide riboside metabolism in mammalian cells. Nature Communications, 2016, 7, 13103. | 12.8 | 261 |
| 16 | SRT1720 improves survival and healthspan of obese mice. Scientific Reports, 2011, 1, 70. | 3.3 | 249 |
| 17 | The Role of PARP-1 and PARP-2 Enzymes in Metabolic Regulation and Disease. Cell Metabolism, 2012, 16, 290-295. | 16.2 | 240 |
| 18 | PARP-2 Regulates SIRT1 Expression and Whole-Body Energy Expenditure. Cell Metabolism, 2011, 13, 450-460. | 16.2 | 231 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | NCoR1 Is a Conserved Physiological Modulator of Muscle Mass and Oxidative Function. Cell, 2011, 147, 827-839. | 28.9 | 228 |
| 20 | Enhanced Respiratory Chain Supercomplex Formation in Response to Exercise in Human Skeletal Muscle. Cell Metabolism, 2017, 25, 301-311. | 16.2 | 213 |
| 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 | Calorie Restriction: Is AMPK a Key Sensor and Effector?. Physiology, 2011, 26, 214-224. | 3.1 | 209 |
| 23 | NAD <sup>+</sup> repletion improves muscle function in muscular dystrophy and counters global PARylation. Science Translational Medicine, 2016, 8, 361ra139. | 12.4 | 208 |
| 24 | Crosstalk between poly(ADP-ribose) polymerase and sirtuin enzymes. Molecular Aspects of Medicine, 2013, 34, 1168-1201. | 6.4 | 202 |
| 25 | Mfn2 is critical for brown adipose tissue thermogenic function. EMBO Journal, 2017, 36, 1543-1558. | 7.8 | 193 |
| 26 | The NAD-Booster Nicotinamide Riboside Potently Stimulates Hematopoiesis through Increased Mitochondrial Clearance. Cell Stem Cell, 2019, 24, 405-418.e7. | 11.1 | 143 |
| 27 | CREB and ChREBP oppositely regulate SIRT1 expression in response to energy availability. EMBO Reports, 2011, 12, 1069-1076. | 4.5 | 140 |
| 28 | Muscle or liver-specific Sirt3 deficiency induces hyperacetylation of mitochondrial proteins without affecting global metabolic homeostasis. Scientific Reports, 2012, 2, 425. | 3.3 | 126 |
| 29 | Mitochondrial response to nutrient availability and its role in metabolic disease. EMBO Molecular Medicine, 2014, 6, 580-589. | 6.9 | 120 |
| 30 | Skeletal Muscle Mitochondria in the Elderly: Effects of Physical Fitness and Exercise Training. Journal of Clinical Endocrinology and Metabolism, 2014, 99, 1852-1861. | 3.6 | 114 |
| 31 | SIRT1 metabolic actions: Integrating recent advances from mouse models. Molecular Metabolism, 2014, 3, 5-18. | 6.5 | 102 |
| 32 | Nicotinamide riboside kinases display redundancy in mediating nicotinamide mononucleotide and nicotinamide riboside metabolism in skeletal muscle cells. Molecular Metabolism, 2017, 6, 819-832. | 6.5 | 96 |
| 33 | A reduced form of nicotinamide riboside defines a new path for NAD+ biosynthesis and acts as an orally bioavailable NAD+ precursor. Molecular Metabolism, 2019, 30, 192-202. | 6.5 | 89 |
| 34 | Distinct patterns of skeletal muscle mitochondria fusion, fission and mitophagy upon duration of exercise training. Acta Physiologica, 2019, 225, e13179. | 3.8 | 79 |
| 35 | SIRT1 enhances glucose tolerance by potentiating brown adipose tissue function. Molecular Metabolism, 2015, 4, 118-131. | 6.5 | 75 |
| 36 | Circadian and Feeding Rhythms Orchestrate the Diurnal Liver Acetylome. Cell Reports, 2017, 20, 1729-1743. | 6.4 | 72 |

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|---|---|---|---|
| 37 | Mfn1 Deficiency in the Liver Protects Against Diet-Induced Insulin Resistance and Enhances the Hypoglycemic Effect of Metformin. Diabetes, 2016, 65, 3552-3560. | 0.6 | 66 |
| 38 | Circadian Rhythms and Mitochondria: Connecting the Dots. Frontiers in Genetics, 2018, 9, 452. | 2.3 | 62 |
| 39 | Mitochondrial stress management: a dynamic journey. Cell Stress, 2018, 2, 253-274. | 3.2 | 55 |
| 40 | FGF21 Takes a Fat Bite. Science, 2012, 336, 675-676. | 12.6 | 46 |
| 41 | Interference between PARPs and SIRT1: a novel approach to healthy ageing?. Aging, 2011, 3, 543-547. | 3.1 | 46 |
| 42 | Longevity hits a roadblock. Nature, 2011, 477, 410-411. | 27.8 | 44 |
| 43 | Reduced nicotinamide mononucleotide is a new and potent NAD<sup>+</sup>precursor in mammalian cells and mice. FASEB Journal, 2021, 35, e21456. | 0.5 | 42 |
| 44 | Highâ€Resolution Respirometry for Mitochondrial Characterization of Ex Vivo Mouse Tissues. Current Protocols in Mouse Biology, 2015, 5, 135-153. | 1.2 | 32 |
| 45 | Crosstalk between Drp1 phosphorylation sites during mitochondrial remodeling and their impact on metabolic adaptation. Cell Reports, 2021, 36, 109565. | 6.4 | 32 |
| 46 | SIRT1 Gain of Function Does Not Mimic or Enhance the Adaptations to Intermittent Fasting. Cell Reports, 2016, 14, 2068-2075. | 6.4 | 31 |
| 47 | Endogenous nicotinamide riboside metabolism protects against diet-induced liver damage. Nature Communications, 2019, 10, 4291. | 12.8 | 30 |
| 48 | A Method to Monitor the NAD+ Metabolomeâ€"From Mechanistic to Clinical Applications. International Journal of Molecular Sciences, 2021, 22, 10598. | 4.1 | 13 |
| 49 | Mitochondrial Dynamics: Shaping Metabolic Adaptation. International Review of Cell and Molecular Biology, 2018, 340, 129-167. | 3.2 | 12 |
| 50 | Clking on PGC-1Î± to Inhibit Gluconeogenesis. Cell Metabolism, 2010, 11, 6-7. | 16.2 | 11 |
| 51 | SIRT1: A novel guardian of brown fat against metabolic damage. Obesity, 2016, 24, 554-554. | 3.0 | 8 |
| 52 | NAD+ Precursors: A Questionable Redundancy. Metabolites, 2022, 12, 630. | 2.9 | 8 |
| 53 | The heat shock factor HSF1 juggles protein quality control and metabolic regulation. Journal of Cell Biology, 2017, 216, 551-553. | 5.2 | 7 |
| 54 | Nicotinamide Riboside and Dihydronicotinic Acid Riboside Synergistically Increase Intracellular NAD+ by Generating Dihydronicotinamide Riboside. Nutrients, 2022, 14, 2752. | 4.1 | 7 |

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|---|---|---|---|
| 55 | Glucose Restriction: Longevity SIRTainly, but without Building Muscle?. Developmental Cell, 2008, 14, 642-644. | 7.0 | 3 |
| 56 | Dietary restriction and Sirtuin 1 in metabolic health: connections and divergences. Proceedings of the Nutrition Society, 2016, 75, 30-37. | 1.0 | 3 |
| 57 | Specific SIRT1 Activation Mimics Low Energy Levels and Protects against Diet-Induced Metabolic Disorders by Enhancing Fat Oxidation. Cell Metabolism, 2009, 9, 210. | 16.2 | 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. Methods in Molecular Biology, 2013, 1077, 217-237. | 0.9 | 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 |