

Marcia C Haigis

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

21,208
citations

34493

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66518

82
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docs citations

95
times ranked

30301
citing authors

#	ARTICLE	IF	CITATIONS
1	Metabolomic and transcriptomic signatures of chemogenetic heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2022, 322, H451-H465.	1.5	14
2	Dangerous dynamic duo: Lactic acid and PD-1 blockade. <i>Cancer Cell</i> , 2022, 40, 127-130.	7.7	10
3	Tumor cells dictate anti-tumor immune responses by altering pyruvate utilization and succinate signaling in CD8+ T cells. <i>Cell Metabolism</i> , 2022, 34, 1137-1150.e6.	7.2	78
4	Pharmacologic Screening Identifies Metabolic Vulnerabilities of CD8+ T Cells. <i>Cancer Immunology Research</i> , 2021, 9, 184-199.	1.6	74
5	The aging lung: Physiology, disease, and immunity. <i>Cell</i> , 2021, 184, 1990-2019.	13.5	175
6	Cell-specific transcriptional control of mitochondrial metabolism by TIF1 β drives erythropoiesis. <i>Science</i> , 2021, 372, 716-721.	6.0	25
7	Combined epigenetic and metabolic treatments overcome differentiation blockade in acute myeloid leukemia. <i>Science</i> , 2021, 24, 102651.	1.9	4
8	SIRT4 is an early regulator of branched-chain amino acid catabolism that promotes adipogenesis. <i>Cell Reports</i> , 2021, 36, 109345.	2.9	32
9	Metabolic modeling of single Th17 cells reveals regulators of autoimmunity. <i>Cell</i> , 2021, 184, 4168-4185.e21.	13.5	203
10	Mitochondria: Their relevance during oocyte ageing. <i>Ageing Research Reviews</i> , 2021, 70, 101378.	5.0	80
11	Lipid metabolism in sickness and in health: Emerging regulators of lipotoxicity. <i>Molecular Cell</i> , 2021, 81, 3708-3730.	4.5	118
12	Development of a colorimetric α -ketoglutarate detection assay for prolyl hydroxylase domain (PHD) proteins. <i>Journal of Biological Chemistry</i> , 2021, 296, 100397.	1.6	10
13	Metabolites and the tumour microenvironment: from cellular mechanisms to systemic metabolism. <i>Nature Metabolism</i> , 2021, 3, 21-32.	5.1	250
14	The Role of Mitochondria in Aging and Cancer. <i>Innovation in Aging</i> , 2021, 5, 454-454.	0.0	0
15	Leveraging insights into cancer metabolism—a symposium report. <i>Annals of the New York Academy of Sciences</i> , 2020, 1462, 5-13.	1.8	3
16	PHD3 Loss Promotes Exercise Capacity and Fat Oxidation in Skeletal Muscle. <i>Cell Metabolism</i> , 2020, 32, 215-228.e7.	7.2	22
17	Astrocyte deletion of α -Na/K ATPase triggers episodic motor paralysis in mice via a metabolic pathway. <i>Nature Communications</i> , 2020, 11, 6164.	5.8	23
18	Induction of a Timed Metabolic Collapse to Overcome Cancer Chemoresistance. <i>Cell Metabolism</i> , 2020, 32, 391-403.e6.	7.2	79

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19	Obesity Shapes Metabolism in the Tumor Microenvironment to Suppress Anti-Tumor Immunity. <i>Cell</i> , 2020, 183, 1848-1866.e26.	13.5	347
20	The human mitochondrial 12S rRNA m4C methyltransferase METTL15 is required for mitochondrial function. <i>Journal of Biological Chemistry</i> , 2020, 295, 8505-8513.	1.6	34
21	Nitrogen Metabolism in Cancer and Immunity. <i>Trends in Cell Biology</i> , 2020, 30, 408-424.	3.6	72
22	Localized Metabolomic Gradients in Patient-Derived Xenograft Models of Glioblastoma. <i>Cancer Research</i> , 2020, 80, 1258-1267.	0.4	67
23	The effects of age and systemic metabolism on anti-tumor T cell responses. <i>ELife</i> , 2020, 9, .	2.8	34
24	Metabolic Competition in the Tumor Microenvironment. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	0
25	T Cell Activation Depends on Extracellular Alanine. <i>Cell Reports</i> , 2019, 28, 3011-3021.e4.	2.9	117
26	Adaptation of Human iPSC-Derived Cardiomyocytes to Tyrosine Kinase Inhibitors Reduces Acute Cardiotoxicity via Metabolic Reprogramming. <i>Cell Systems</i> , 2019, 8, 412-426.e7.	2.9	49
27	Histone demethylase KDM6A directly senses oxygen to control chromatin and cell fate. <i>Science</i> , 2019, 363, 1217-1222.	6.0	281
28	Sweet Temptation: From Sugar Metabolism to Gene Regulation. <i>Immunity</i> , 2019, 51, 980-981.	6.6	10
29	Transcriptional Regulation of Coenzyme Q Biosynthesis By TIF1 β Drives Erythropoiesis. <i>Blood</i> , 2019, 134, 152-152.	0.6	0
30	The Distinctive Metabolic Environment of the Bone Marrow Niche Drives Leukemia Chemoresistance. <i>Blood</i> , 2019, 134, 3725-3725.	0.6	0
31	Dynamic Regulation of Long-Chain Fatty Acid Oxidation by a Noncanonical Interaction between the MCL-1 BH3 Helix and VLCAD. <i>Molecular Cell</i> , 2018, 69, 729-743.e7.	4.5	45
32	Small-Molecule Screen Identifies De Novo Nucleotide Synthesis as a Vulnerability of Cells Lacking SIRT3. <i>Cell Reports</i> , 2018, 22, 1945-1955.	2.9	31
33	Chemical and Physiological Features of Mitochondrial Acylation. <i>Molecular Cell</i> , 2018, 72, 610-624.	4.5	34
34	Defective respiration and one-carbon metabolism contribute to impaired na \tilde{A} -ve T cell activation in aged mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 13347-13352.	3.3	93
35	L-Alanine activates hepatic AMP-activated protein kinase and modulates systemic glucose metabolism. <i>Molecular Metabolism</i> , 2018, 17, 61-70.	3.0	33
36	Transaminase Inhibition by 2-Hydroxyglutarate Impairs Glutamate Biosynthesis and Redox Homeostasis in Glioma. <i>Cell</i> , 2018, 175, 101-116.e25.	13.5	234

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37	The multifaceted contributions of mitochondria to cellular metabolism. <i>Nature Cell Biology</i> , 2018, 20, 745-754.	4.6	969
38	Inhibition of epithelial cell migration and Src/FAK signaling by SIRT3. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 7057-7062.	3.3	55
39	Accumulation of succinate controls activation of adipose tissue thermogenesis. <i>Nature</i> , 2018, 560, 102-106.	13.7	380
40	Mitochondrial Sirtuins. , 2018, , 95-115.		1
41	SIRT4 Is a Regulator of Insulin Secretion. <i>Cell Chemical Biology</i> , 2017, 24, 656-658.	2.5	24
42	Mitochondrial Sirtuins and Molecular Mechanisms of Aging. <i>Trends in Molecular Medicine</i> , 2017, 23, 320-331.	3.5	242
43	mTOR and HDAC Inhibitors Converge on the TXNIP/Thioredoxin Pathway to Cause Catastrophic Oxidative Stress and Regression of RAS-Driven Tumors. <i>Cancer Discovery</i> , 2017, 7, 1450-1463.	7.7	87
44	Metabolic recycling of ammonia via glutamate dehydrogenase supports breast cancer biomass. <i>Science</i> , 2017, 358, 941-946.	6.0	303
45	An LC-MS Approach to Quantitative Measurement of Ammonia Isotopologues. <i>Scientific Reports</i> , 2017, 7, 10304.	1.6	18
46	Strength in numbers: Phosphofructokinase polymerization prevails in the liver. <i>Journal of Cell Biology</i> , 2017, 216, 2239-2241.	2.3	4
47	Mitochondrial Biogenesis and Proteome Remodeling Promote One-Carbon Metabolism for T Cell Activation. <i>Cell Metabolism</i> , 2016, 24, 104-117.	7.2	282
48	Sirtuins in Cancer – Emerging Role as Modulators of Metabolic Reprogramming. , 2016, , 171-190.		0
49	Suppression by TFR cells leads to durable and selective inhibition of B cell effector function. <i>Nature Immunology</i> , 2016, 17, 1436-1446.	7.0	189
50	Mitochondria and Cancer. <i>Cell</i> , 2016, 166, 555-566.	13.5	1,203
51	PHD3 Loss in Cancer Enables Metabolic Reliance on Fatty Acid Oxidation via Deactivation of ACC2. <i>Molecular Cell</i> , 2016, 63, 1006-1020.	4.5	120
52	Mitochondrial Sirtuin Network Reveals Dynamic SIRT3-Dependent Deacetylation in Response to Membrane Depolarization. <i>Cell</i> , 2016, 167, 985-1000.e21.	13.5	259
53	Mitochondrial Metabolism in T Cell Activation and Senescence: A Mini-Review. <i>Gerontology</i> , 2015, 61, 131-138.	1.4	50
54	Nuclear respiratory factor 2 induces <sc>SIRT</sc>3 expression. <i>Aging Cell</i> , 2015, 14, 818-825.	3.0	68

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55	Sirtuins and the Metabolic Hurdles in Cancer. <i>Current Biology</i> , 2015, 25, R569-R583.	1.8	60
56	Defective TFH Cell Function and Increased TFR Cells Contribute to Defective Antibody Production in Aging. <i>Cell Reports</i> , 2015, 12, 163-171.	2.9	112
57	Intersections between mitochondrial sirtuin signaling and tumor cell metabolism. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2015, 50, 242-255.	2.3	18
58	Sirtuins in Cancer: a Balancing Act between Genome Stability and Metabolism. <i>Molecules and Cells</i> , 2015, 38, 750-758.	1.0	56
59	SIRT4 Protein Suppresses Tumor Formation in Genetic Models of Myc-induced B Cell Lymphoma. <i>Journal of Biological Chemistry</i> , 2014, 289, 4135-4144.	1.6	106
60	Luciferase-Based Reporter to Monitor the Transcriptional Activity of the SIRT3 Promoter. <i>Methods in Enzymology</i> , 2014, 543, 141-163.	0.4	8
61	Neurotrophin receptor TrkB promotes lung adenocarcinoma metastasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10299-10304.	3.3	77
62	PGC-1 β mediates mitochondrial biogenesis and oxidative phosphorylation in cancer cells to promote metastasis. <i>Nature Cell Biology</i> , 2014, 16, 992-1003.	4.6	1,073
63	Metformin and phenformin deplete tricarboxylic acid cycle and glycolytic intermediates during cell transformation and NTPs in cancer stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10574-10579.	3.3	227
64	SIRT4 Represses Peroxisome Proliferator-Activated Receptor α Activity To Suppress Hepatic Fat Oxidation. <i>Molecular and Cellular Biology</i> , 2013, 33, 4552-4561.	1.1	132
65	A novel AMPK-dependent FoxO3A-SIRT3 intramitochondrial complex sensing glucose levels. <i>Cellular and Molecular Life Sciences</i> , 2013, 70, 2015-2029.	2.4	85
66	Glutamine supports pancreatic cancer growth through a KRAS-regulated metabolic pathway. <i>Nature</i> , 2013, 496, 101-105.	13.7	1,562
67	SIRT4 Has Tumor-Suppressive Activity and Regulates the Cellular Metabolic Response to DNA Damage by Inhibiting Mitochondrial Glutamine Metabolism. <i>Cancer Cell</i> , 2013, 23, 450-463.	7.7	389
68	The mTORC1 Pathway Stimulates Glutamine Metabolism and Cell Proliferation by Repressing SIRT4. <i>Cell</i> , 2013, 153, 840-854.	13.5	505
69	SIRT4 Coordinates the Balance between Lipid Synthesis and Catabolism by Repressing Malonyl CoA Decarboxylase. <i>Molecular Cell</i> , 2013, 50, 686-698.	4.5	315
70	SIRT3 regulation of mitochondrial oxidative stress. <i>Experimental Gerontology</i> , 2013, 48, 634-639.	1.2	248
71	HDAC6 and SIRT2 Regulate the Acetylation State and Oncogenic Activity of Mutant K-RAS. <i>Molecular Cancer Research</i> , 2013, 11, 1072-1077.	1.5	121
72	The Protein Deacetylase SIRT3 Prevents Oxidative Stress-induced Keratinocyte Differentiation. <i>Journal of Biological Chemistry</i> , 2013, 288, 36484-36491.	1.6	30

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73	Skeletal muscle transcriptional coactivator PGC-1 β mediates mitochondrial, but not metabolic, changes during calorie restriction. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2931-2936.	3.3	94
74	Acetylation-Dependent Regulation of Skp2 Function. Cell, 2012, 150, 179-193.	13.5	180
75	From Sirtuin Biology to Human Diseases: An Update. Journal of Biological Chemistry, 2012, 287, 42444-42452.	1.6	218
76	Metabolic regulation by SIRT3: implications for tumorigenesis. Trends in Molecular Medicine, 2012, 18, 516-523.	3.5	108
77	SIRT3 Is a Mitochondrial Tumor Suppressor: A Scientific Tale That Connects Aberrant Cellular ROS, the Warburg Effect, and Carcinogenesis. Cancer Research, 2012, 72, 2468-2472.	0.4	166
78	Sirtuins in Aging and Age-Related Diseases. , 2011, , 243-274.		7
79	SIRT3 Opposes Reprogramming of Cancer Cell Metabolism through HIF1 α Destabilization. Cancer Cell, 2011, 19, 416-428.	7.7	690
80	Succinate Dehydrogenase Is a Direct Target of Sirtuin 3 Deacetylase Activity. PLoS ONE, 2011, 6, e23295.	1.1	310
81	Sirtuin regulation of mitochondria: energy production, apoptosis, and signaling. Trends in Biochemical Sciences, 2010, 35, 669-675.	3.7	549
82	Sirtuins regulate key aspects of lipid metabolism. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 1652-1657.	1.1	102
83	Mammalian Sirtuins: Biological Insights and Disease Relevance. Annual Review of Pathology: Mechanisms of Disease, 2010, 5, 253-295.	9.6	1,742
84	The Aging Stress Response. Molecular Cell, 2010, 40, 333-344.	4.5	451
85	New roles for sirtuins in mitochondrial metabolism. FASEB Journal, 2010, 24, 198.2.	0.2	0
86	SIRT5 Deacetylates Carbamoyl Phosphate Synthetase 1 and Regulates the Urea Cycle. Cell, 2009, 137, 560-570.	13.5	677
87	Mammalian Sir2 Homolog SIRT3 Regulates Global Mitochondrial Lysine Acetylation. Molecular and Cellular Biology, 2007, 27, 8807-8814.	1.1	1,097
88	Mammalian sirtuins--emerging roles in physiology, aging, and calorie restriction. Genes and Development, 2006, 20, 2913-2921.	2.7	1,138
89	SIRT4 Inhibits Glutamate Dehydrogenase and Opposes the Effects of Calorie Restriction in Pancreatic β Cells. Cell, 2006, 126, 941-954.	13.5	1,053
90	Calorie restriction extends yeast life span by lowering the level of NADH. Genes and Development, 2004, 18, 12-16.	2.7	566

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91	Induction of a Timed Metabolic Collapse to Overcome Cancer Chemoresistance. SSRN Electronic Journal, 0, , .	0.4	0