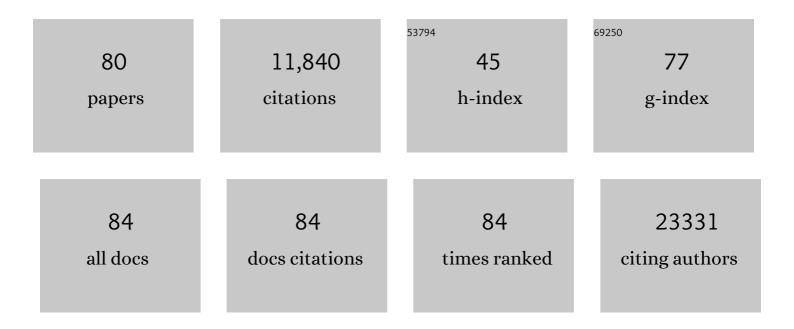
Michael N Sack

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
2	Mitochondrial reactive oxygen species promote production of proinflammatory cytokines and are elevated in TNFR1-associated periodic syndrome (TRAPS). Journal of Experimental Medicine, 2011, 208, 519-533.	8.5	749
3	Fatty Acid Oxidation Enzyme Gene Expression Is Downregulated in the Failing Heart. Circulation, 1996, 94, 2837-2842.	1.6	574
4	Myocardial Protection by Insulin at Reperfusion Requires Early Administration and Is Mediated via Akt and p70s6 Kinase Cell-Survival Signaling. Circulation Research, 2001, 89, 1191-1198.	4.5	493
5	Fatty liver is associated with reduced SIRT3 activity and mitochondrial protein hyperacetylation. Biochemical Journal, 2011, 433, 505-514.	3.7	339
6	Mitochondrial Function, Biology, and Role in Disease. Circulation Research, 2016, 118, 1960-1991.	4.5	330
7	Identification of a molecular component of the mitochondrial acetyltransferase programme: a novel role for GCN5L1. Biochemical Journal, 2012, 443, 655-661.	3.7	184
8	Obesity-induced lysine acetylation increases cardiac fatty acid oxidation and impairs insulin signalling. Cardiovascular Research, 2014, 103, 485-497.	3.8	175
9	Mitochondrial Metabolism, Sirtuins, and Aging. Cold Spring Harbor Perspectives in Biology, 2012, 4, a013102-a013102.	5.5	174
10	Basic Biology of Oxidative Stress and theÂCardiovascular System. Journal of the American College of Cardiology, 2017, 70, 196-211.	2.8	171
11	Parkin is a lipid-responsive regulator of fat uptake in mice and mutant human cells. Journal of Clinical Investigation, 2011, 121, 3701-3712.	8.2	170
12	Wnt Signaling Regulates Hepatic Metabolism. Science Signaling, 2011, 4, ra6.	3.6	167
13	Second signals rescue B cells from activation-induced mitochondrial dysfunction and death. Nature Immunology, 2018, 19, 871-884.	14.5	166
14	Mitochondrial depolarization and the role of uncoupling proteins in ischemia tolerance. Cardiovascular Research, 2006, 72, 210-219.	3.8	157
15	Insulin Administered at Reoxygenation Exerts a Cardioprotective Effect in Myocytes by a Possible Anti-Apoptotic Mechanism. Journal of Molecular and Cellular Cardiology, 2000, 32, 757-764.	1.9	150
16	SIRT3 is regulated by nutrient excess and modulates hepatic susceptibility to lipotoxicity. Free Radical Biology and Medicine, 2010, 49, 1230-1237.	2.9	148
17	Uncoupling Proteins 2 and 3 Function in Concert to Augment Tolerance to Cardiac Ischemia. Journal of Biological Chemistry, 2005, 280, 33470-33476.	3.4	137
18	Fasting and refeeding differentially regulate NLRP3 inflammasome activation in human subjects. Journal of Clinical Investigation, 2015, 125, 4592-4600.	8.2	135

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19	Characterization of the cardiac succinylome and its role in ischemia–reperfusion injury. Journal of Molecular and Cellular Cardiology, 2015, 88, 73-81.	1.9	132
20	The NAD-dependent deacetylase SIRT2 is required for programmed necrosis. Nature, 2012, 492, 199-204.	27.8	131
21	The Role of Mitochondria in the Pathophysiology of Skeletal Muscle Insulin Resistance. Endocrine Reviews, 2010, 31, 25-51.	20.1	125
22	PGC-1α Integrates Insulin Signaling, Mitochondrial Regulation, and Bioenergetic Function in Skeletal Muscle. Journal of Biological Chemistry, 2008, 283, 22464-22472.	3.4	111
23	Prolonged fasting suppresses mitochondrial NLRP3 inflammasome assembly and activation via SIRT3-mediated activation of superoxide dismutase 2. Journal of Biological Chemistry, 2017, 292, 12153-12164.	3.4	107
24	GCN5-like Protein 1 (GCN5L1) Controls Mitochondrial Content through Coordinated Regulation of Mitochondrial Biogenesis and Mitophagy. Journal of Biological Chemistry, 2014, 289, 2864-2872.	3.4	104
25	Metabolic Plasticity and the Promotion of Cardiac Protection in Ischemia and Ischemic Preconditioning. Journal of Molecular and Cellular Cardiology, 2002, 34, 1077-1089.	1.9	99
26	Characterization of the murine SIRT3 mitochondrial localization sequence and comparison of mitochondrial enrichment and deacetylase activity of long and short SIRT3 isoforms. Journal of Cellular Biochemistry, 2010, 110, 238-247.	2.6	99
27	Signal transducer and activator of transcription 3 is involved in the cardioprotective signalling pathway activated by insulin therapy at reperfusion. Basic Research in Cardiology, 2008, 103, 444-453.	5.9	86
28	The role of sirtuins in modulating redox stressors. Free Radical Biology and Medicine, 2012, 52, 281-290.	2.9	86
29	Restricted mitochondrial protein acetylation initiates mitochondrial autophagy. Journal of Cell Science, 2013, 126, 4843-9.	2.0	85
30	Ischemic and Pharmacological Preconditioning in Girardi Cells and C2C12 Myotubes Induce Mitochondrial Uncoupling. Circulation Research, 2001, 89, 787-792.	4.5	78
31	SIRT2 is a negative regulator of anoxia–reoxygenation tolerance via regulation of 14â€3â€3 ζ and BAD in H9c2 cells. FEBS Letters, 2008, 582, 2857-2862.	2.8	71
32	SIRT3â€dependent deacetylation exacerbates acetaminophen hepatotoxicity. EMBO Reports, 2011, 12, 840-846.	4.5	70
33	Network Analysis and Transcriptome Profiling Identify Autophagic and Mitochondrial Dysfunctions in SARS-CoV-2 Infection. Frontiers in Genetics, 2021, 12, 599261.	2.3	64
34	The protein acetylase GCN5L1 modulates hepatic fatty acid oxidation activity via acetylation of the mitochondrial β-oxidation enzyme HADHA. Journal of Biological Chemistry, 2018, 293, 17676-17684.	3.4	62
35	Delayed Ischemic Preconditioning Activates Nuclear-Encoded Electron-Transfer-Chain Gene Expression in Parallel With Enhanced Postanoxic Mitochondrial Respiratory Recovery. Circulation, 2004, 110, 534-539.	1.6	59
36	The role of SIRT3 in mitochondrial homeostasis and cardiac adaptation to hypertrophy and aging. Journal of Molecular and Cellular Cardiology, 2012, 52, 520-525.	1.9	58

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37	Emerging characterization of the role of SIRT3-mediated mitochondrial protein deacetylation in the heart. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 301, H2191-H2197.	3.2	56
38	Regulation of autophagy and mitophagy by nutrient availability and acetylation. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2014, 1841, 525-534.	2.4	56
39	The Emerging Characterization of Lysine Residue Deacetylation on the Modulation of Mitochondrial Function and Cardiovascular Biology. Circulation Research, 2009, 105, 830-841.	4.5	55
40	Protein deacetylation by sirtuins: delineating a post-translational regulatory program responsive to nutrient and redox stressors. Cellular and Molecular Life Sciences, 2010, 67, 3073-3087.	5.4	54
41	The complementary and divergent roles of uncoupling proteins 1 and 3 in thermoregulation. Journal of Physiology, 2016, 594, 7455-7464.	2.9	51
42	p70s6 kinase is a functional target of insulin activated Akt cell-survival signaling. Biochemical and Biophysical Research Communications, 2004, 315, 160-165.	2.1	47
43	Type 2 diabetes, mitochondrial biology and the heart. Journal of Molecular and Cellular Cardiology, 2009, 46, 842-849.	1.9	47
44	Diazoxide-induced respiratory inhibition – a putative mitochondrial KATP channel independent mechanism of pharmacological preconditioning. Molecular and Cellular Biochemistry, 2007, 294, 11-18.	3.1	46
45	Prolonged Fasting Identifies Heat Shock Protein 10 as a Sirtuin 3 Substrate. Journal of Biological Chemistry, 2015, 290, 2466-2476.	3.4	46
46	Parkin targets NOD2 to regulate astrocyte endoplasmic reticulum stress and inflammation. Glia, 2018, 66, 2427-2437.	4.9	44
47	GCN5L1/BLOS1 Links Acetylation, Organelle Remodeling, and Metabolism. Trends in Cell Biology, 2018, 28, 346-355.	7.9	42
48	GCN5L1 modulates cross-talk between mitochondria and cell signaling to regulate FoxO1 stability and gluconeogenesis. Nature Communications, 2017, 8, 523.	12.8	41
49	Increased Mitochondrial Biogenesis and Reactive Oxygen Species Production Accompany Prolonged CD4+ T Cell Activation. Journal of Immunology, 2018, 201, 3294-3306.	0.8	39
50	Mitochondrial fidelity and metabolic agility control immune cell fate and function. Journal of Clinical Investigation, 2018, 128, 3651-3661.	8.2	32
51	Parkin regulation of CHOP modulates susceptibility to cardiac endoplasmic reticulum stress. Scientific Reports, 2017, 7, 2093.	3.3	31
52	The Role of Comorbidities in Cardioprotection. Journal of Cardiovascular Pharmacology and Therapeutics, 2011, 16, 267-272.	2.0	30
53	Mitochondrial plasticity in classical ischemic preconditioning—moving beyond the mitochondrial KATP channel. Cardiovascular Research, 2003, 59, 1-6.	3.8	29
54	Fasting-induced FOXO4 blunts human CD4+ T helper cell responsiveness. Nature Metabolism, 2021, 3, 318-326.	11.9	29

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55	The role of caloric load and mitochondrial homeostasis in the regulation of the NLRP3 inflammasome. Cellular and Molecular Life Sciences, 2017, 74, 1777-1791.	5.4	28
56	Boosting NAD+ blunts TLR4-induced type I IFN in control and systemic lupus erythematosus monocytes. Journal of Clinical Investigation, 2022, 132, .	8.2	27
57	A Pilot Study To Investigate the Immune-Modulatory Effects of Fasting in Steroid-Naive Mild Asthmatics. Journal of Immunology, 2018, 201, 1382-1388.	0.8	24
58	BLOC1S1/GCN5L1/BORCS1 is a critical mediator for the initiation of autolysosomal tubulation. Autophagy, 2021, 17, 3707-3724.	9.1	24
59	ATP-degrading ENPP1 is required for survival (or persistence) of long-lived plasma cells. Scientific Reports, 2017, 7, 17867.	3.3	23
60	Loss of GCN5L1 in cardiac cells disrupts glucose metabolism and promotes cell death via reduced Akt/mTORC2 signaling. Biochemical Journal, 2019, 476, 1713-1724.	3.7	22
61	Cardiac-specific deletion of GCN5L1 restricts recovery from ischemia-reperfusion injury. Journal of Molecular and Cellular Cardiology, 2019, 129, 69-78.	1.9	19
62	Immunometabolism at the Nexus of Cancer Therapeutic Efficacy and Resistance. Frontiers in Immunology, 2021, 12, 657293.	4.8	18
63	Parkin in the regulation of fat uptake and mitochondrial biology. Current Opinion in Lipidology, 2012, 23, 201-205.	2.7	17
64	Identification and Validation of Nutrient State-Dependent Serum Protein Mediators of Human CD4+ T Cell Responsiveness. Nutrients, 2021, 13, 1492.	4.1	16
65	GCN5L1 interacts with αTAT1 and RanBP2 to regulate hepatic α-tubulin acetylation and lysosome trafficking. Journal of Cell Science, 2018, 131, .	2.0	15
66	Mitochondrial GCN5L1 regulates glutaminase acetylation and hepatocellular carcinoma. Clinical and Translational Medicine, 2022, 12, e852.	4.0	14
67	Mitochondrial General Control of Amino Acid Synthesis 5 Like 1 Regulates Glutaminolysis, Mammalian Target of Rapamycin Complex 1 Activity, and Murine Liver Regeneration. Hepatology, 2020, 71, 643-657.	7.3	13
68	Feeding-induced resistance to acute lethal sepsis is dependent on hepatic BMAL1 and FXR signalling. Nature Communications, 2021, 12, 2745.	12.8	13
69	Caloric excess or restriction mediated modulation of metabolic enzyme acetylation—proposed effects on cardiac growth and function. Biochimica Et Biophysica Acta - Molecular Cell Research, 2011, 1813, 1279-1285.	4.1	12
70	The emerging roles of GCN5L1 in mitochondrial and vacuolar organelle biology. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2021, 1864, 194598.	1.9	8
71	Allele-specific mitochondrial stress induced by Multiple Mitochondrial Dysfunctions Syndrome 1 pathogenic mutations modeled in Caenorhabditis elegans. PLoS Genetics, 2021, 17, e1009771.	3.5	7
72	Rethinking Protein Acetylation in Pressure Overload-Induced Heart Failure. Circulation Research, 2020, 127, 1109-1111.	4.5	5

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73	Obesity and cardiac function – the role of caloric excess and its reversal. Drug Discovery Today Disease Mechanisms, 2013, 10, e41-e46.	0.8	4
74	The enigma of anti-inflammatory therapy for the management of heart failure. Cardiovascular Research, 2019, 116, 6-8.	3.8	3
75	Proteomic and metabolomic advances uncover biomarkers of mitochondrial disease pathophysiology and severity. Journal of Clinical Investigation, 2021, 131, .	8.2	3
76	Sâ€nitrosylation of cyclophilin D alters mitochondrial permeability transition pore. FASEB Journal, 2011, 25, 1033.1.	0.5	2
77	Mitochondrial Fe-S cluster biogenesis, frataxin and the modulation of susceptibility to drug-induced cardiomyopathy. Aging, 2010, 2, 754-755.	3.1	1
78	Acetylation in the Control of Mitochondrial Metabolism and Integrity. , 2014, , 115-127.		0
79	Modulation of mitochondrial permeability transition pore by the F ₁ Fo ATP synthase O subunit. FASEB Journal, 2011, 25, 1097.1.	0.5	0
80	Abstract P234: S-nitrosylation of Cyclophilin D Attenuates Mitochondrial Permeability Transition Pore Opening: A Critical Role for Cysteine 203 Residue. Circulation Research, 2011, 109, .	4.5	0