

Michael N Sack

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76 papers	9,421 citations	41 h-index	84 g-index
84 ext. papers	10,815 ext. citations	9.1 avg, IF	5.72 L-index

#	Paper	IF	Citations
76	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016 , 12, 1-222	10.2	3838
75	Mitochondrial reactive oxygen species promote production of proinflammatory cytokines and are elevated in TNFR1-associated periodic syndrome (TRAPS). <i>Journal of Experimental Medicine</i> , 2011 , 208, 519-33	16.6	614
74	Fatty acid oxidation enzyme gene expression is downregulated in the failing heart. <i>Circulation</i> , 1996 , 94, 2837-42	16.7	460
73	Myocardial protection by insulin at reperfusion requires early administration and is mediated via Akt and p70s6 kinase cell-survival signaling. <i>Circulation Research</i> , 2001 , 89, 1191-8	15.7	443
72	Fatty liver is associated with reduced SIRT3 activity and mitochondrial protein hyperacetylation. <i>Biochemical Journal</i> , 2011 , 433, 505-14	3.8	273
71	Mitochondrial Function, Biology, and Role in Disease: A Scientific Statement From the American Heart Association. <i>Circulation Research</i> , 2016 , 118, 1960-91	15.7	219
70	Identification of a molecular component of the mitochondrial acetyltransferase programme: a novel role for GCN5L1. <i>Biochemical Journal</i> , 2012 , 443, 655-61	3.8	153
69	Mitochondrial metabolism, sirtuins, and aging. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012 , 4,	10.2	150
68	Parkin is a lipid-responsive regulator of fat uptake in mice and mutant human cells. <i>Journal of Clinical Investigation</i> , 2011 , 121, 3701-12	15.9	144
67	Mitochondrial depolarization and the role of uncoupling proteins in ischemia tolerance. <i>Cardiovascular Research</i> , 2006 , 72, 210-9	9.9	139
66	Obesity-induced lysine acetylation increases cardiac fatty acid oxidation and impairs insulin signalling. <i>Cardiovascular Research</i> , 2014 , 103, 485-97	9.9	132
65	Insulin administered at reoxygenation exerts a cardioprotective effect in myocytes by a possible anti-apoptotic mechanism. <i>Journal of Molecular and Cellular Cardiology</i> , 2000 , 32, 757-64	5.8	132
64	Wnt signaling regulates hepatic metabolism. <i>Science Signaling</i> , 2011 , 4, ra6	8.8	129
63	Uncoupling proteins 2 and 3 function in concert to augment tolerance to cardiac ischemia. <i>Journal of Biological Chemistry</i> , 2005 , 280, 33470-6	5.4	127
62	SIRT3 is regulated by nutrient excess and modulates hepatic susceptibility to lipotoxicity. <i>Free Radical Biology and Medicine</i> , 2010 , 49, 1230-7	7.8	123
61	The NAD-dependent deacetylase SIRT2 is required for programmed necrosis. <i>Nature</i> , 2012 , 492, 199-204	50.4	122
60	Basic Biology of Oxidative Stress and the Cardiovascular System: Part 1 of a 3-Part Series. <i>Journal of the American College of Cardiology</i> , 2017 , 70, 196-211	15.1	119

59	The role of mitochondria in the pathophysiology of skeletal muscle insulin resistance. <i>Endocrine Reviews</i> , 2010 , 31, 25-51	27.2	111
58	Characterization of the cardiac succinylome and its role in ischemia-reperfusion injury. <i>Journal of Molecular and Cellular Cardiology</i> , 2015 , 88, 73-81	5.8	93
57	Fasting and refeeding differentially regulate NLRP3 inflammasome activation in human subjects. <i>Journal of Clinical Investigation</i> , 2015 , 125, 4592-600	15.9	92
56	GCN5-like protein 1 (GCN5L1) controls mitochondrial content through coordinated regulation of mitochondrial biogenesis and mitophagy. <i>Journal of Biological Chemistry</i> , 2014 , 289, 2864-72	5.4	91
55	PGC-1alpha integrates insulin signaling, mitochondrial regulation, and bioenergetic function in skeletal muscle. <i>Journal of Biological Chemistry</i> , 2008 , 283, 22464-72	5.4	90
54	Metabolic plasticity and the promotion of cardiac protection in ischemia and ischemic preconditioning. <i>Journal of Molecular and Cellular Cardiology</i> , 2002 , 34, 1077-89	5.8	90
53	Characterization of the murine SIRT3 mitochondrial localization sequence and comparison of mitochondrial enrichment and deacetylase activity of long and short SIRT3 isoforms. <i>Journal of Cellular Biochemistry</i> , 2010 , 110, 238-47	4.7	83
52	Second signals rescue B cells from activation-induced mitochondrial dysfunction and death. <i>Nature Immunology</i> , 2018 , 19, 871-884	19.1	82
51	The role of sirtuins in modulating redox stressors. <i>Free Radical Biology and Medicine</i> , 2012 , 52, 281-90	7.8	76
50	Signal transducer and activator of transcription 3 is involved in the cardioprotective signalling pathway activated by insulin therapy at reperfusion. <i>Basic Research in Cardiology</i> , 2008 , 103, 444-53	11.8	75
49	Restricted mitochondrial protein acetylation initiates mitochondrial autophagy. <i>Journal of Cell Science</i> , 2013 , 126, 4843-9	5.3	74
48	Ischemic and pharmacological preconditioning in Girardi cells and C2C12 myotubes induce mitochondrial uncoupling. <i>Circulation Research</i> , 2001 , 89, 787-92	15.7	74
47	SIRT2 is a negative regulator of anoxia-reoxygenation tolerance via regulation of 14-3-3 zeta and BAD in H9c2 cells. <i>FEBS Letters</i> , 2008 , 582, 2857-62	3.8	67
46	Prolonged fasting suppresses mitochondrial NLRP3 inflammasome assembly and activation via SIRT3-mediated activation of superoxide dismutase 2. <i>Journal of Biological Chemistry</i> , 2017 , 292, 12153-12164	5.4	63
45	SIRT3-dependent deacetylation exacerbates acetaminophen hepatotoxicity. <i>EMBO Reports</i> , 2011 , 12, 840-6	6.5	61
44	Delayed ischemic preconditioning activates nuclear-encoded electron-transfer-chain gene expression in parallel with enhanced postanoxic mitochondrial respiratory recovery. <i>Circulation</i> , 2004 , 110, 534-9	16.7	53
43	The role of SIRT3 in mitochondrial homeostasis and cardiac adaptation to hypertrophy and aging. <i>Journal of Molecular and Cellular Cardiology</i> , 2012 , 52, 520-5	5.8	50
42	Protein deacetylation by sirtuins: delineating a post-translational regulatory program responsive to nutrient and redox stressors. <i>Cellular and Molecular Life Sciences</i> , 2010 , 67, 3073-87	10.3	47

41	Regulation of autophagy and mitophagy by nutrient availability and acetylation. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014 , 1841, 525-34	5	46
40	The emerging characterization of lysine residue deacetylation on the modulation of mitochondrial function and cardiovascular biology. <i>Circulation Research</i> , 2009 , 105, 830-41	15.7	46
39	Emerging characterization of the role of SIRT3-mediated mitochondrial protein deacetylation in the heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011 , 301, H2191-7	5.2	45
38	Prolonged fasting identifies heat shock protein 10 as a Sirtuin 3 substrate: elucidating a new mechanism linking mitochondrial protein acetylation to fatty acid oxidation enzyme folding and function. <i>Journal of Biological Chemistry</i> , 2015 , 290, 2466-76	5.4	43
37	Diazoxide-induced respiratory inhibition - a putative mitochondrial K(ATP) channel independent mechanism of pharmacological preconditioning. <i>Molecular and Cellular Biochemistry</i> , 2007 , 294, 11-8	4.2	42
36	p70s6 kinase is a functional target of insulin activated Akt cell-survival signaling. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 315, 160-5	3.4	41
35	Type 2 diabetes, mitochondrial biology and the heart. <i>Journal of Molecular and Cellular Cardiology</i> , 2009 , 46, 842-9	5.8	40
34	The complementary and divergent roles of uncoupling proteins 1 and 3 in thermoregulation. <i>Journal of Physiology</i> , 2016 , 594, 7455-7464	3.9	39
33	The protein acetylase GCN5L1 modulates hepatic fatty acid oxidation activity via acetylation of the mitochondrial oxidation enzyme HADHA. <i>Journal of Biological Chemistry</i> , 2018 , 293, 17676-17684	5.4	37
32	Network Analysis and Transcriptome Profiling Identify Autophagic and Mitochondrial Dysfunctions in SARS-CoV-2 Infection. <i>Frontiers in Genetics</i> , 2021 , 12, 599261	4.5	31
31	Parkin targets NOD2 to regulate astrocyte endoplasmic reticulum stress and inflammation. <i>Glia</i> , 2018 , 66, 2427-2437	9	28
30	GCN5L1/BLOS1 Links Acetylation, Organelle Remodeling, and Metabolism. <i>Trends in Cell Biology</i> , 2018 , 28, 346-355	18.3	26
29	Mitochondrial plasticity in classical ischemic preconditioning-moving beyond the mitochondrial KATP channel. <i>Cardiovascular Research</i> , 2003 , 59, 1-6	9.9	26
28	GCN5L1 modulates cross-talk between mitochondria and cell signaling to regulate FoxO1 stability and gluconeogenesis. <i>Nature Communications</i> , 2017 , 8, 523	17.4	25
27	The role of comorbidities in cardioprotection. <i>Journal of Cardiovascular Pharmacology and Therapeutics</i> , 2011 , 16, 267-72	2.6	25
26	Parkin regulation of CHOP modulates susceptibility to cardiac endoplasmic reticulum stress. <i>Scientific Reports</i> , 2017 , 7, 2093	4.9	24
25	Increased Mitochondrial Biogenesis and Reactive Oxygen Species Production Accompany Prolonged CD4 T Cell Activation. <i>Journal of Immunology</i> , 2018 , 201, 3294-3306	5.3	21
24	The role of caloric load and mitochondrial homeostasis in the regulation of the NLRP3 inflammasome. <i>Cellular and Molecular Life Sciences</i> , 2017 , 74, 1777-1791	10.3	16

23	ATP-degrading ENPP1 is required for survival (or persistence) of long-lived plasma cells. <i>Scientific Reports</i> , 2017 , 7, 17867	4.9	16
22	Mitochondrial fidelity and metabolic agility control immune cell fate and function. <i>Journal of Clinical Investigation</i> , 2018 , 128, 3651-3661	15.9	16
21	Caloric excess or restriction mediated modulation of metabolic enzyme acetylation-proposed effects on cardiac growth and function. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2011 , 1813, 1279-85	4.9	12
20	Parkin in the regulation of fat uptake and mitochondrial biology: emerging links in the pathophysiology of Parkinson's disease. <i>Current Opinion in Lipidology</i> , 2012 , 23, 201-205	4.4	12
19	Loss of GCN5L1 in cardiac cells disrupts glucose metabolism and promotes cell death via reduced Akt/mTORC2 signaling. <i>Biochemical Journal</i> , 2019 , 476, 1713-1724	3.8	11
18	A Pilot Study To Investigate the Immune-Modulatory Effects of Fasting in Steroid-Naive Mild Asthmatics. <i>Journal of Immunology</i> , 2018 , 201, 1382-1388	5.3	11
17	Cardiac-specific deletion of GCN5L1 restricts recovery from ischemia-reperfusion injury. <i>Journal of Molecular and Cellular Cardiology</i> , 2019 , 129, 69-78	5.8	7
16	GCN5L1 interacts with HAT1 and RanBP2 to regulate hepatic tubulin acetylation and lysosome trafficking. <i>Journal of Cell Science</i> , 2018 , 131,	5.3	7
15	BLOC1S1/GCN5L1/BORCS1 is a critical mediator for the initiation of autolysosomal tubulation. <i>Autophagy</i> , 2021 , 17, 3707-3724	10.2	5
14	Immunometabolism at the Nexus of Cancer Therapeutic Efficacy and Resistance. <i>Frontiers in Immunology</i> , 2021 , 12, 657293	8.4	4
13	Mitochondrial General Control of Amino Acid Synthesis 5 Like 1 Regulates Glutaminolysis, Mammalian Target of Rapamycin Complex 1 Activity, and Murine Liver Regeneration. <i>Hepatology</i> , 2020 , 71, 643-657	11.2	4
12	Obesity and Cardiac Function - The Role of Caloric Excess and its Reversal. <i>Drug Discovery Today Disease Mechanisms</i> , 2013 , 10, e41-e46		3
11	Fasting-induced FOXO4 blunts human CD4 T helper cell responsiveness. <i>Nature Metabolism</i> , 2021 , 3, 318-326	14.6	3
10	Feeding-induced resistance to acute lethal sepsis is dependent on hepatic BMAL1 and FXR signalling. <i>Nature Communications</i> , 2021 , 12, 2745	17.4	3
9	The emerging roles of GCN5L1 in mitochondrial and vacuolar organelle biology. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2021 , 1864, 194598	6	3
8	S-nitrosylation of cyclophilin D alters mitochondrial permeability transition pore. <i>FASEB Journal</i> , 2011 , 25, 1033.1	0.9	2
7	Identification and Validation of Nutrient State-Dependent Serum Protein Mediators of Human CD4 T Cell Responsiveness. <i>Nutrients</i> , 2021 , 13,	6.7	2
6	Mitochondrial Fe-S cluster biogenesis, frataxin and the modulation of susceptibility to drug-induced cardiomyopathy. <i>Aging</i> , 2010 , 2, 754-5	5.6	1

5	Proteomic and metabolomic advances uncover biomarkers of mitochondrial disease pathophysiology and severity. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	1
4	Allele-specific mitochondrial stress induced by Multiple Mitochondrial Dysfunctions Syndrome 1 pathogenic mutations modeled in <i>Caenorhabditis elegans</i> . <i>PLoS Genetics</i> , 2021 , 17, e1009771	6	1
3	Mitochondrial GCN5L1 regulates glutaminase acetylation and hepatocellular carcinoma.. <i>Clinical and Translational Medicine</i> , 2022 , 12, e852	5.7	1
2	Acetylation in the Control of Mitochondrial Metabolism and Integrity 2014 , 115-127		
1	Modulation of mitochondrial permeability transition pore by the F1Fo ATP synthase O subunit. <i>FASEB Journal</i> , 2011 , 25, 1097.1	0.9	