Johan Auwerx

List of Publications by Year
in descending order

340 papers	66,601 citations	553 126 h-index	794 247 g-index
355 all docs	355 docs citations	355 times ranked	66553 citing authors

#	Article	IF	Citations
1	Resveratrol Improves Mitochondrial Function and Protects against Metabolic Disease by Activating SIRT1 and PGC-1Î±. Cell, 2006, 127, 1109-1122.	13.5	3,603
2	AMPK regulates energy expenditure by modulating NAD+ metabolism and SIRT1 activity. Nature, 2009, 458, 1056-1060.	13.7	2,654
3	Bile acids induce energy expenditure by promoting intracellular thyroid hormone activation. Nature, 2006, 439, 484-489.	13.7	1,818
4	Sirtuins as regulators of metabolism and healthspan. Nature Reviews Molecular Cell Biology, 2012, 13, 225-238.	16.1	1,633
5	TGR5-Mediated Bile Acid Sensing Controls Glucose Homeostasis. Cell Metabolism, 2009, 10, 167-177.	7.2	1,465
6	A Pro12Ala substitution in PPARÎ³2 associated with decreased receptor activity, lower body mass index and improved insulin sensitivity. Nature Genetics, 1998, 20, 284-287.	9.4	1,262
7	PGC-1Î±, SIRT1 and AMPK, an energy sensing network that controls energy expenditure. Current Opinion in Lipidology, 2009, 20, 98-105.	1.2	1,238
8	Sirt5 Is a NAD-Dependent Protein Lysine Demalonylase and Desuccinylase. Science, 2011, 334, 806-809.	6.0	1,165
9	NAD+ Metabolism and the Control of Energy Homeostasis: A Balancing Act between Mitochondria and the Nucleus. Cell Metabolism, 2015, 22, 31-53.	7.2	1,153
10	Targeting bile-acid signalling for metabolic diseases. Nature Reviews Drug Discovery, 2008, 7, 678-693.	21.5	1,084
11	Calorie Restriction-like Effects of 30 Days of Resveratrol Supplementation on Energy Metabolism and Metabolic Profile in Obese Humans. Cell Metabolism, 2011, 14, 612-622.	7.2	1,072
12	Regulation of PGC-1Î±, a nodal regulator of mitochondrial biogenesis. American Journal of Clinical Nutrition, 2011, 93, 884S-890S.	2.2	974
13	The NAD+ Precursor Nicotinamide Riboside Enhances Oxidative Metabolism and Protects against High-Fat Diet-Induced Obesity. Cell Metabolism, 2012, 15, 838-847.	7.2	957
14	The NAD+/Sirtuin Pathway Modulates Longevity through Activation of Mitochondrial UPR and FOXO Signaling. Cell, 2013, 154, 430-441.	13.5	951
15	NAD ⁺ repletion improves mitochondrial and stem cell function and enhances life span in mice. Science, 2016, 352, 1436-1443.	6.0	907
16	International Union of Pharmacology. LXI. Peroxisome Proliferator-Activated Receptors. Pharmacological Reviews, 2006, 58, 726-741.	7.1	869
17	Regulation of circadian behaviour and metabolism by REV-ERB-Î± and REV-ERB-Î². Nature, 2012, 485, 123-127.	13.7	867
18	Mitonuclear protein imbalance as a conserved longevity mechanism. Nature, 2013, 497, 451-457.	13.7	846

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19	Role of the peroxisome proliferator-activated receptor (PPAR) in mediating the effects of fibrates and fatty acids on gene expression. Journal of Lipid Research, 1996, 37, 907-25.	2.0	837
20	Activation of peroxisome proliferator-activated receptor Â induces fatty acid Â-oxidation in skeletal muscle and attenuates metabolic syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 15924-15929.	3.3	776
21	Interdependence of AMPK and SIRT1 for Metabolic Adaptation to Fasting and Exercise in Skeletal Muscle. Cell Metabolism, 2010, 11, 213-219.	7.2	752
22	The Secret Life of NAD+: An Old Metabolite Controlling New Metabolic Signaling Pathways. Endocrine Reviews, 2010, 31, 194-223.	8.9	731
23	PARP-1 Inhibition Increases Mitochondrial Metabolism through SIRT1 Activation. Cell Metabolism, 2011, 13, 461-468.	7.2	673
24	Urolithin A induces mitophagy and prolongs lifespan in C. elegans and increases muscle function in rodents. Nature Medicine, 2016, 22, 879-888.	15.2	668
25	Specific SIRT1 Activation Mimics Low Energy Levels and Protects against Diet-Induced Metabolic Disorders by Enhancing Fat Oxidation. Cell Metabolism, 2008, 8, 347-358.	7.2	665
26	A guide to analysis of mouse energy metabolism. Nature Methods, 2012, 9, 57-63.	9.0	655
27	Multi-omics analysis identifies ATF4 as a key regulator of the mitochondrial stress response in mammals. Journal of Cell Biology, 2017, 216, 2027-2045.	2.3	590
28	Nuclear Receptors and the Control of Metabolism. Annual Review of Physiology, 2003, 65, 261-311.	5.6	551
29	Mitonuclear communication in homeostasis and stress. Nature Reviews Molecular Cell Biology, 2016, 17, 213-226.	16.1	533
30	Serum Bile Acids Are Higher in Humans With Prior Gastric Bypass: Potential Contribution to Improved Glucose and Lipid Metabolism. Obesity, 2009, 17, 1671-1677.	1.5	501
31	Enhancing mitochondrial proteostasis reduces amyloid-Î² proteotoxicity. Nature, 2017, 552, 187-193.	13.7	471
32	TGR5 Activation Inhibits Atherosclerosis by Reducing Macrophage Inflammation and Lipid Loading. Cell Metabolism, 2011, 14, 747-757.	7.2	469
33	The metabolic footprint of aging in mice. Scientific Reports, 2011, 1, 134.	1.6	440
34	Adipose-Specific Knockout of raptor Results in Lean Mice with Enhanced Mitochondrial Respiration. Cell Metabolism, 2008, 8, 399-410.	7.2	434
35	Sirtuin Functions in Health and Disease. Molecular Endocrinology, 2007, 21, 1745-1755.	3.7	409
36	SRC-1 and TIF2 Control Energy Balance between White and Brown Adipose Tissues. Cell, 2002, 111, 931-941.	13.5	401

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37	Sirtuins: The â€˜<i>magnificent seven</i>â€™, function, metabolism and longevity. Annals of Medicine, 2007, 39, 335-345.	1.5	394
38	PPARÎ³ANDGLUCOSEHOMEOSTASIS. Annual Review of Nutrition, 2002, 22, 167-197.	4.3	393
39	Tetracyclines Disturb Mitochondrial Function across Eukaryotic Models: A Call for Caution in Biomedical Research. Cell Reports, 2015, 10, 1681-1691.	2.9	385
40	Imp2 controls oxidative phosphorylation and is crucial for preserving glioblastoma cancer stem cells. Genes and Development, 2012, 26, 1926-1944.	2.7	370
41	Protective effects of sirtuins in cardiovascular diseases: from bench to bedside. European Heart Journal, 2015, 36, 3404-3412.	1.0	354
42	Caloric restriction, SIRT1 and longevity. Trends in Endocrinology and Metabolism, 2009, 20, 325-331.	3.1	352
43	NAD+ homeostasis in health and disease. Nature Metabolism, 2020, 2, 9-31.	5.1	351
44	AMP-activated protein kinase and its downstream transcriptional pathways. Cellular and Molecular Life Sciences, 2010, 67, 3407-3423.	2.4	336
45	The bile acid membrane receptor TGR5 as an emerging target in metabolism and inflammation. Journal of Hepatology, 2011, 54, 1263-1272.	1.8	328
46	Targeting Sirtuin 1 to Improve Metabolism: All You Need Is NAD⁺?. Pharmacological Reviews, 2012, 64, 166-187.	7.1	326
47	Effective treatment of mitochondrial myopathy by nicotinamide riboside, a vitamin <scp>B</scp>3. EMBO Molecular Medicine, 2014, 6, 721-731.	3.3	326
48	Pharmacological approaches to restore mitochondrial function. Nature Reviews Drug Discovery, 2013, 12, 465-483.	21.5	323
49	Anti-hyperglycemic activity of a TGR5 agonist isolated from Olea europaea. Biochemical and Biophysical Research Communications, 2007, 362, 793-798.	1.0	302
50	De novo NAD+ synthesis enhances mitochondrial function and improves health. Nature, 2018, 563, 354-359.	13.7	302
51	The mitophagy activator urolithin A is safe and induces a molecular signature of improved mitochondrial and cellular health in humans. Nature Metabolism, 2019, 1, 595-603.	5.1	302
52	Bioavailable copper modulates oxidative phosphorylation and growth of tumors. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19507-19512.	3.3	299
53	NAD+-Dependent Activation of Sirt1 Corrects the Phenotype in a Mouse Model of Mitochondrial Disease. Cell Metabolism, 2014, 19, 1042-1049.	7.2	293
54	Eliciting the mitochondrial unfolded protein response by nicotinamide adenine dinucleotide repletion reverses fatty liver disease in mice. Hepatology, 2016, 63, 1190-1204.	3.6	289

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55	Activation of PPARÎ´ alters lipid metabolism in db/db mice. FEBS Letters, 2000, 473, 333-336.	1.3	287
56	E2Fs Regulate Adipocyte Differentiation. Developmental Cell, 2002, 3, 39-49.	3.1	284
57	The mitochondrial unfolded protein response, a conserved stress response pathway with implications in health and disease. Journal of Experimental Biology, 2014, 217, 137-143.	0.8	284
58	A Unique PPARÎ³ Ligand with Potent Insulin-Sensitizing yet Weak Adipogenic Activity. Molecular Cell, 2001, 8, 737-747.	4.5	279
59	Transcriptional coregulators in the control of energy homeostasis. Trends in Cell Biology, 2007, 17, 292-301.	3.6	279
60	Two Conserved Histone Demethylases Regulate Mitochondrial Stress-Induced Longevity. Cell, 2016, 165, 1209-1223.	13.5	279
61	Reduction of atherosclerosis in apolipoprotein E knockout mice by activation of the retinoid X receptor. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 2610-2615.	3.3	271
62	The gut microbiota influences skeletal muscle mass and function in mice. Science Translational Medicine, 2019, 11, .	5.8	271
63	Metabolomics-assisted proteomics identifies succinylation and SIRT5 as important regulators of cardiac function. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4320-4325.	3.3	263
64	NRK1 controls nicotinamide mononucleotide and nicotinamide riboside metabolism in mammalian cells. Nature Communications, 2016, 7, 13103.	5.8	261
65	Novel Potent and Selective Bile Acid Derivatives as TGR5 Agonists: Biological Screening, Structureâ^'Activity Relationships, and Molecular Modeling Studies. Journal of Medicinal Chemistry, 2008, 51, 1831-1841.	2.9	259
66	Systems proteomics of liver mitochondria function. Science, 2016, 352, aad0189.	6.0	257
67	Analysis of mtDNA/nDNA Ratio in Mice. Current Protocols in Mouse Biology, 2017, 7, 47-54.	1.2	256
68	Mitochondria and Epigenetics â€" Crosstalk in Homeostasis and Stress. Trends in Cell Biology, 2017, 27, 453-463.	3.6	256
69	Peroxisome Proliferator-Activated Receptor-Î³ Calls for Activation in Moderation: Lessons from Genetics and Pharmacology. Endocrine Reviews, 2004, 25, 899-918.	8.9	251
70	Growth differentiation factor 15 is a myomitokine governing systemic energy homeostasis. Journal of Cell Biology, 2017, 216, 149-165.	2.3	250
71	The Retinoblastoma-Histone Deacetylase 3 Complex Inhibits PPARÎ³ and Adipocyte Differentiation. Developmental Cell, 2002, 3, 903-910.	3.1	249
72	SRT1720 improves survival and healthspan of obese mice. Scientific Reports, 2011, 1, 70.	1.6	249

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73	Adipocyte NCoR Knockout Decreases PPARÎ³ Phosphorylation and Enhances PPARÎ³ Activity and Insulin Sensitivity. Cell, 2011, 147, 815-826.	13.5	246
74	Emerging roles of the corepressors NCoR1 and SMRT in homeostasis. Genes and Development, 2013, 27, 819-835.	2.7	243
75	Protein acetylation in metabolism â€” metabolites and cofactors. Nature Reviews Endocrinology, 2016, 12, 43-60.	4.3	236
76	Histone Methyl Transferases and Demethylases; CanÂThey Link Metabolism and Transcription?. Cell Metabolism, 2010, 12, 321-327.	7.2	231
77	PARP-2 Regulates SIRT1 Expression and Whole-Body Energy Expenditure. Cell Metabolism, 2011, 13, 450-460.	7.2	231
78	Reliability, robustness, and reproducibility in mouse behavioral phenotyping: a cross-laboratory study. Physiological Genomics, 2008, 34, 243-255.	1.0	229
79	NCoR1 Is a Conserved Physiological Modulator of Muscle Mass and Oxidative Function. Cell, 2011, 147, 827-839.	13.5	228
80	E2F transcription factor-1 regulates oxidative metabolism. Nature Cell Biology, 2011, 13, 1146-1152.	4.6	222
81	Multilayered Genetic and Omics Dissection of Mitochondrial Activity in a Mouse Reference Population. Cell, 2014, 158, 1415-1430.	13.5	222
82	Lowering Bile Acid Pool Size with a Synthetic Farnesoid X Receptor (FXR) Agonist Induces Obesity and Diabetes through Reduced Energy Expenditure. Journal of Biological Chemistry, 2011, 286, 26913-26920.	1.6	221
83	Discovery of 6Î±-Ethyl-23(<i>S</i>)-methylcholic Acid (<i>S</i>-EMCA, INT-777) as a Potent and Selective Agonist for the TGR5 Receptor, a Novel Target for Diabesity. Journal of Medicinal Chemistry, 2009, 52, 7958-7961.	2.9	220
84	A SIRT7-Dependent Acetylation Switch of GABPÎ²1 Controls Mitochondrial Function. Cell Metabolism, 2014, 20, 856-869.	7.2	214
85	Enhanced Respiratory Chain Supercomplex Formation in Response to Exercise in Human Skeletal Muscle. Cell Metabolism, 2017, 25, 301-311.	7.2	213
86	Systems Genetics of Metabolism: The Use of the BXD Murine Reference Panel for Multiscalar Integration of Traits. Cell, 2012, 150, 1287-1299.	13.5	212
87	Analysis of Mitochondrial Respiratory Chain Supercomplexes Using Blue Native Polyacrylamide Gel Electrophoresis (BNâ€PAGE). Current Protocols in Mouse Biology, 2016, 6, 1-14.	1.2	212
88	Pharmacological Inhibition of Poly(ADP-Ribose) Polymerases Improves Fitness and Mitochondrial Function in Skeletal Muscle. Cell Metabolism, 2014, 19, 1034-1041.	7.2	211
89	Calorie Restriction: Is AMPK a Key Sensor and Effector?. Physiology, 2011, 26, 214-224.	1.6	209
90	NAD ⁺ repletion improves muscle function in muscular dystrophy and counters global PARylation. Science Translational Medicine, 2016, 8, 361ra139.	5.8	208

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91	Specification of haematopoietic stem cell fate via modulation of mitochondrial activity. Nature Communications, 2016, 7, 13125.	5.8	206
92	Opposite effects of statins on mitochondria of cardiac and skeletal muscles: a â€˜mitohormesisâ€™ mechanism involving reactive oxygen species and PGC-1. European Heart Journal, 2012, 33, 1397-1407.	1.0	203
93	The role of mitochondria in stem cell fate and aging. Development (Cambridge), 2018, 145, .	1.2	199
94	Murine Gut Microbiota Is Defined by Host Genetics and Modulates Variation of Metabolic Traits. PLoS ONE, 2012, 7, e39191.	1.1	198
95	Repairing Mitochondrial Dysfunction in Disease. Annual Review of Pharmacology and Toxicology, 2018, 58, 353-389.	4.2	198
96	The European dimension for the mouse genome mutagenesis program. Nature Genetics, 2004, 36, 925-927.	9.4	195
97	Mitochondrial Deacetylase Sirt3 Reduces Vascular Dysfunction and Hypertension While Sirt3 Depletion in Essential Hypertension Is Linked to Vascular Inflammation and Oxidative Stress. Circulation Research, 2020, 126, 439-452.	2.0	195
98	Metabolic Networks of Longevity. Cell, 2010, 142, 9-14.	13.5	190
99	Joint mouseâ€“human phenome-wide association to test gene function and disease risk. Nature Communications, 2016, 7, 10464.	5.8	190
100	Transcriptional targets of sirtuins in the coordination of mammalian physiology. Current Opinion in Cell Biology, 2008, 20, 303-309.	2.6	187
101	PPARÎ³ in human and mouse physiology. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2007, 1771, 999-1013.	1.2	184
102	Liver receptor homolog 1 is essential for ovulation. Genes and Development, 2008, 22, 1871-1876.	2.7	182
103	The genetic ablation of SRC-3 protects against obesity and improves insulin sensitivity by reducing the acetylation of PGC-1Î±. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17187-17192.	3.3	180
104	Structureâ^'Activity Relationship Study of Betulinic Acid, A Novel and Selective TGR5 Agonist, and Its Synthetic Derivatives: Potential Impact in Diabetes. Journal of Medicinal Chemistry, 2010, 53, 178-190.	2.9	180
105	Modulating <scp>NAD</scp>⁺ metabolism, from bench toÂbedside. EMBO Journal, 2017, 36, 2670-2683.	3.5	174
106	Compensation by the muscle limits the metabolic consequences of lipodystrophy in PPARÂ hypomorphic mice. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 14457-14462.	3.3	171
107	Nuclear receptor/microRNA circuitry links muscle fiber type to energy metabolism. Journal of Clinical Investigation, 2013, 123, 2564-2575.	3.9	170
108	Impact of the Natural Compound Urolithin A on Health, Disease, and Aging. Trends in Molecular Medicine, 2021, 27, 687-699.	3.5	166

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109	NAD⁺metabolism: A therapeutic target for age-related metabolic disease. Critical Reviews in Biochemistry and Molecular Biology, 2013, 48, 397-408.	2.3	163
110	mTOR complex 2 in adipose tissue negatively controls whole-body growth. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9902-9907.	3.3	162
111	The Role of Sirtuins in the Control of Metabolic Homeostasis. Annals of the New York Academy of Sciences, 2009, 1173, E10-9.	1.8	160
112	PPARÎ´ Promotes Running Endurance by Preserving Glucose. Cell Metabolism, 2017, 25, 1186-1193.e4.	7.2	154
113	Mitocellular communication: Shaping health and disease. Science, 2019, 366, 827-832.	6.0	154
114	Reversible acetylation of PGC-1: connecting energy sensors and effectors to guarantee metabolic flexibility. Oncogene, 2010, 29, 4617-4624.	2.6	151
115	Key Electrophysiological, Molecular, and Metabolic Signatures of Sleep and Wakefulness Revealed in Primary Cortical Cultures. Journal of Neuroscience, 2012, 32, 12506-12517.	1.7	151
116	NCoR Repression of LXRs Restricts Macrophage Biosynthesis of Insulin-Sensitizing Omega 3 Fatty Acids. Cell, 2013, 155, 200-214.	13.5	149
117	Systematic Gene Expression Mapping Clusters Nuclear Receptors According to Their Function in the Brain. Cell, 2007, 131, 405-418.	13.5	145
118	Superâ€Resolution Biological Microscopy Using Virtual Imaging by a Microsphere Nanoscope. Small, 2014, 10, 1712-1718.	5.2	144
119	TGR5 potentiates GLP-1 secretion in response to anionic exchange resins. Scientific Reports, 2012, 2, 430.	1.6	143
120	The NAD-Booster Nicotinamide Riboside Potently Stimulates Hematopoiesis through Increased Mitochondrial Clearance. Cell Stem Cell, 2019, 24, 405-418.e7.	5.2	143
121	Autophagy regulates lipid metabolism through selective turnover of NCoR1. Nature Communications, 2019, 10, 1567.	5.8	143
122	Sir-two-homolog 2 (Sirt2) modulates peripheral myelination through polarity protein Par-3/atypical protein kinase C (aPKC) signaling. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E952-61.	3.3	142
123	The journey of resveratrol from yeast to human. Aging, 2012, 4, 146-158.	1.4	141
124	CREB and ChREBP oppositely regulate SIRT1 expression in response to energy availability. EMBO Reports, 2011, 12, 1069-1076.	2.0	140
125	Bile Acids and the Membrane Bile Acid Receptor TGR5â€"Connecting Nutrition and Metabolism. Thyroid, 2008, 18, 167-174.	2.4	139
126	LRH-1-mediated glucocorticoid synthesis in enterocytes protects against inflammatory bowel disease. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13098-13103.	3.3	136

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127	Compromised Intestinal Lipid Absorption in Mice with a Liver-Specific Deficiency of Liver Receptor Homolog 1. Molecular and Cellular Biology, 2007, 27, 8330-8339.	1.1	135
128	The Bile Acid Membrane Receptor TGR5: A Valuable Metabolic Target. Digestive Diseases, 2011, 29, 37-44.	0.8	135
129	Conjugated Bile Acids Associate with Altered Rates of Glucose and Lipid Oxidation after Roux-en-Y Gastric Bypass. Obesity Surgery, 2012, 22, 1473-1480.	1.1	135
130	The C-type Lectin Receptors Dectin-1, MR, and SIGNR3 Contribute Both Positively and Negatively to the Macrophage Response to Leishmania infantum. Immunity, 2013, 38, 1038-1049.	6.6	134
131	A screening-based platform for the assessment of cellular respiration in Caenorhabditis elegans. Nature Protocols, 2016, 11, 1798-1816.	5.5	133
132	The Pollutant Diethylhexyl Phthalate Regulates Hepatic Energy Metabolism via Species-Specific PPARÎ±-Dependent Mechanisms. Environmental Health Perspectives, 2010, 118, 234-241.	2.8	129
133	Protein deacetylation by SIRT1: An emerging key post-translational modification in metabolic regulation. Pharmacological Research, 2010, 62, 35-41.	3.1	126
134	Muscle or liver-specific Sirt3 deficiency induces hyperacetylation of mitochondrial proteins without affecting global metabolic homeostasis. Scientific Reports, 2012, 2, 425.	1.6	126
135	Hdac6 deletion delays disease progression in the SOD1G93A mouse model of ALS. Human Molecular Genetics, 2013, 22, 1783-1790.	1.4	122
136	Vitamin D and energy homeostasisâ€"of mice and men. Nature Reviews Endocrinology, 2014, 10, 79-87.	4.3	121
137	The Sirt1 activator SRT3025 provides atheroprotection in Apoeâˆ'/âˆ' mice by reducing hepatic Pcsk9 secretion and enhancing Ldlr expression. European Heart Journal, 2015, 36, 51-59.	1.0	117
138	PARP inhibition protects against alcoholic and non-alcoholic steatohepatitis. Journal of Hepatology, 2017, 66, 589-600.	1.8	116
139	Metabolic Characterization of a Sirt5 deficient mouse model. Scientific Reports, 2013, 3, 2806.	1.6	115
140	Inhibiting poly ADP-ribosylation increases fatty acid oxidation and protects against fatty liver disease. Journal of Hepatology, 2017, 66, 132-141.	1.8	115
141	A platform for experimental precision medicine: The extended BXD mouse family. Cell Systems, 2021, 12, 235-247.e9.	2.9	115
142	Reduced oxidative capacity in macrophages results in systemic insulin resistance. Nature Communications, 2018, 9, 1551.	5.8	114
143	Tetracycline Antibiotics Impair Mitochondrial Function and Its Experimental Use Confounds Research. Cancer Research, 2015, 75, 4446-4449.	0.4	112
144	SIRT2 Deficiency Modulates Macrophage Polarization and Susceptibility to Experimental Colitis. PLoS ONE, 2014, 9, e103573.	1.1	111

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145	The mitochondrial unfolded protein responseâ€"synchronizing genomes. Current Opinion in Cell Biology, 2015, 33, 74-81.	2.6	111
146	LRP1 Functions as an Atheroprotective Integrator of TGFÎ² and PDGF Signals in the Vascular Wall: Implications for Marfan Syndrome. PLoS ONE, 2007, 2, e448.	1.1	110
147	Antibiotic use and abuse: A threat to mitochondria and chloroplasts with impact on research, health, and environment. BioEssays, 2015, 37, 1045-1053.	1.2	108
148	Mouse functional genomics requires standardization of mouse handling and housing conditions. Mammalian Genome, 2004, 15, 768-783.	1.0	106
149	LRP1 Controls Intracellular Cholesterol Storage and Fatty Acid Synthesis through Modulation of Wnt Signaling. Journal of Biological Chemistry, 2009, 284, 381-388.	1.6	106
150	Oncogenic steroid receptor coactivator-3 is a key regulator of the white adipogenic program. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 17868-17873.	3.3	101
151	The RNA-Binding Protein PUM2 Impairs Mitochondrial Dynamics and Mitophagy During Aging. Molecular Cell, 2019, 73, 775-787.e10.	4.5	100
152	Regulation of Steatohepatitis and PPARÎ³ Signaling by Distinct AP-1 Dimers. Cell Metabolism, 2014, 19, 84-95.	7.2	99
153	Loss of the RNA polymerase III repressor MAF1 confers obesity resistance. Genes and Development, 2015, 29, 934-947.	2.7	99
154	Evidence for a Direct Effect of the NAD+ Precursor Acipimox on Muscle Mitochondrial Function in Humans. Diabetes, 2015, 64, 1193-1201.	0.3	99
155	Cytosolic Proteostasis Networks of the Mitochondrial Stress Response. Trends in Biochemical Sciences, 2017, 42, 712-725.	3.7	99
156	Peroxisome Proliferator-activated Receptor (PPAR)-2 Controls Adipocyte Differentiation and Adipose Tissue Function through the Regulation of the Activity of the Retinoid X Receptor/PPARÎ³ Heterodimer. Journal of Biological Chemistry, 2007, 282, 37738-37746.	1.6	97
157	Nongenomic Actions of Bile Acids. Synthesis and Preliminary Characterization of 23- and 6,23-Alkyl-Substituted Bile Acid Derivatives as Selective Modulators for the G-Protein Coupled Receptor TGR5. Journal of Medicinal Chemistry, 2007, 50, 4265-4268.	2.9	97
158	Genetic background determines metabolic phenotypes in the mouse. Mammalian Genome, 2008, 19, 318-331.	1.0	97
159	GRAM domain proteins specialize functionally distinct ER-PM contact sites in human cells. ELife, 2018, 7, .	2.8	96
160	Nicotinamide riboside supplementation alters body composition and skeletal muscle acetylcarnitine concentrations in healthy obese humans. American Journal of Clinical Nutrition, 2020, 112, 413-426.	2.2	96
161	Adipose tissue-specific inactivation of the retinoblastoma protein protects against diabesity because of increased energy expenditure. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 10703-10708.	3.3	95
162	LRH-1â€"dependent glucose sensing determines intermediary metabolism in liver. Journal of Clinical Investigation, 2012, 122, 2817-2826.	3.9	94

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163	SIRT1 mRNA Expression May Be Associated With Energy Expenditure and Insulin Sensitivity. Diabetes, 2010, 59, 829-835.	0.3	93
164	Exploring the therapeutic space around NAD+. Journal of Cell Biology, 2012, 199, 205-209.	2.3	93
165	Bile Acid Binding Resin Improves Metabolic Control through the Induction of Energy Expenditure. PLoS ONE, 2012, 7, e38286.	1.1	93
166	Urolithin A improves muscle function by inducing mitophagy in muscular dystrophy. Science Translational Medicine, 2021, 13, .	5.8	93
167	Long noncoding RNA <i>SNHG12</i> integrates a DNA-PKâ€"mediated DNA damage response and vascular senescence. Science Translational Medicine, 2020, 12, .	5.8	91
168	Impaired pancreatic growth, Î² cell mass, and Î² cell function in E2F1 â€"/â€" mice. Journal of Clinical Investigation, 2004, 113, 1288-1295.	3.9	90
169	Transcriptional Coregulators: Fine-Tuning Metabolism. Cell Metabolism, 2014, 20, 26-40.	7.2	89
170	Inhibition of mitophagy drives macrophage activation and antibacterial defense during sepsis. Journal of Clinical Investigation, 2020, 130, 5858-5874.	3.9	87
171	PPARÎ³ Controls Dectin-1 Expression Required for Host Antifungal Defense against Candida albicans. PLoS Pathogens, 2010, 6, e1000714.	2.1	84
172	IL-13 induces expression of CD36 in human monocytes through PPARÎ³ activation. European Journal of Immunology, 2007, 37, 1642-1652.	1.6	83
173	Type 5 Adenylyl Cyclase Increases Oxidative Stress by Transcriptional Regulation of Manganese Superoxide Dismutase via the SIRT1/FoxO3a Pathway. Circulation, 2013, 127, 1692-1701.	1.6	82
174	The small heterodimer partner is a gonadal gatekeeper of sexual maturation in male mice. Genes and Development, 2007, 21, 303-315.	2.7	81
175	Evaluation of Glucose Homeostasis. Current Protocols in Molecular Biology, 2007, 77, Unit 29B.3.	2.9	81
176	NAD+ as a Signaling Molecule Modulating Metabolism. Cold Spring Harbor Symposia on Quantitative Biology, 2011, 76, 291-298.	2.0	81
177	The Intestinal Nuclear Receptor Signature With Epithelial Localization Patterns and Expression Modulation in Tumors. Gastroenterology, 2010, 138, 636-648.e12.	0.6	80
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