Johan Auwerx

List of Publications by Citations

338 papers	51,658 citations	116 h-index	224 g-index
355 ext. papers	59,981 ext. citations	14.1 avg, IF	7.75 L-index

#	Paper	IF	Citations
338	Resveratrol improves mitochondrial function and protects against metabolic disease by activating SIRT1 and PGC-1alpha. *Cell*, **2006**, 127, 1109-22	56.2	3191
337	AMPK regulates energy expenditure by modulating NAD+ metabolism and SIRT1 activity. *Nature*, **2009**, 458, 1056-60	50.4	2221
336	Bile acids induce energy expenditure by promoting intracellular thyroid hormone activation. *Nature* , **2006**, 439, 484-9	50.4	1508
335	Sirtuins as regulators of metabolism and healthspan. *Nature Reviews Molecular Cell Biology*, **2012**, 13, 225-238	48.7	1302
334	TGR5-mediated bile acid sensing controls glucose homeostasis. *Cell Metabolism*, **2009**, 10, 167-77	24.6	1184
333	A Pro12Ala substitution in PPARgamma2 associated with decreased receptor activity, lower body mass index and improved insulin sensitivity. *Nature Genetics*, **1998**, 20, 284-7	36.3	1117
332	PGC-1alpha, SIRT1 and AMPK, an energy sensing network that controls energy expenditure. *Current Opinion in Lipidology*, **2009**, 20, 98-105	4.4	982
331	Sirt5 is a NAD-dependent protein lysine demalonylase and desuccinylase. *Science*, **2011**, 334, 806-9	33.3	924
330	Calorie restriction-like effects of 30 days of resveratrol supplementation on energy metabolism and metabolic profile in obese humans. *Cell Metabolism*, **2011**, 14, 612-22	24.6	924
329	Targeting bile-acid signalling for metabolic diseases. *Nature Reviews Drug Discovery*, **2008**, 7, 678-93	64.1	864
328	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	6.3	766
327	NAD(+) Metabolism and the Control of Energy Homeostasis: A Balancing Act between Mitochondria and the Nucleus. *Cell Metabolism*, **2015**, 22, 31-53	24.6	762
326	Regulation of PGC-1□a nodal regulator of mitochondrial biogenesis. *American Journal of Clinical Nutrition*, **2011**, 93, 884S-90	7	750
325	International Union of Pharmacology. LXI. Peroxisome proliferator-activated receptors. *Pharmacological Reviews*, **2006**, 58, 726-41	22.5	749
324	The NAD(+)/Sirtuin Pathway Modulates Longevity through Activation of Mitochondrial UPR and FOXO Signaling. *Cell*, **2013**, 154, 430-41	56.2	747
323	The NAD(+) precursor nicotinamide riboside enhances oxidative metabolism and protects against high-fat diet-induced obesity. *Cell Metabolism*, **2012**, 15, 838-47	24.6	732
322	Regulation of circadian behaviour and metabolism by REV-ERB-□and REV-ERB-□*Nature*, **2012**, 485, 123-7	50.4	700

321	Activation of peroxisome proliferator-activated receptor delta induces fatty acid beta-oxidation in skeletal muscle and attenuates metabolic syndrome. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 15924-9	11.5	699
320	Mitonuclear protein imbalance as a conserved longevity mechanism. *Nature*, **2013**, 497, 451-7	50.4	656
319	NAD+ repletion improves mitochondrial and stem cell function and enhances life span in mice. *Science*, **2016**, 352, 1436-43	33.3	645
318	Interdependence of AMPK and SIRT1 for metabolic adaptation to fasting and exercise in skeletal muscle. *Cell Metabolism*, **2010**, 11, 213-9	24.6	635
317	Specific SIRT1 activation mimics low energy levels and protects against diet-induced metabolic disorders by enhancing fat oxidation. *Cell Metabolism*, **2008**, 8, 347-58	24.6	614
316	The secret life of NAD+: an old metabolite controlling new metabolic signaling pathways. *Endocrine Reviews*, **2010**, 31, 194-223	27.2	595
315	PARP-1 inhibition increases mitochondrial metabolism through SIRT1 activation. *Cell Metabolism*, **2011**, 13, 461-468	24.6	555
314	A guide to analysis of mouse energy metabolism. *Nature Methods*, **2011**, 9, 57-63	21.6	516
313	Nuclear receptors and the control of metabolism. *Annual Review of Physiology*, **2003**, 65, 261-311	23.1	500
312	Urolithin A induces mitophagy and prolongs lifespan in C. elegans and increases muscle function in rodents. *Nature Medicine*, **2016**, 22, 879-88	50.5	450
311	Serum bile acids are higher in humans with prior gastric bypass: potential contribution to improved glucose and lipid metabolism. *Obesity*, **2009**, 17, 1671-7	8	431
310	Adipose-specific knockout of raptor results in lean mice with enhanced mitochondrial respiration. *Cell Metabolism*, **2008**, 8, 399-410	24.6	389
309	Mitonuclear communication in homeostasis and stress. *Nature Reviews Molecular Cell Biology*, **2016**, 17, 213-26	48.7	378
308	SRC-1 and TIF2 control energy balance between white and brown adipose tissues. *Cell*, **2002**, 111, 931-41	56.2	369
307	TGR5 activation inhibits atherosclerosis by reducing macrophage inflammation and lipid loading. *Cell Metabolism*, **2011**, 14, 747-57	24.6	364
306	PPAR(gamma) and glucose homeostasis. *Annual Review of Nutrition*, **2002**, 22, 167-97	9.9	358
305	Sirtuins: the Pmagnificent sevenP, function, metabolism and longevity. *Annals of Medicine*, **2007**, 39, 335-45	5.5	353
304	Multi-omics analysis identifies ATF4 as a key regulator of the mitochondrial stress response in mammals. *Journal of Cell Biology*, **2017**, 216, 2027-2045	7.3	349

303	Sirtuin functions in health and disease. *Molecular Endocrinology*, **2007**, 21, 1745-55		343
302	The metabolic footprint of aging in mice. *Scientific Reports*, **2011**, 1, 134	4.9	330
301	AMP-activated protein kinase and its downstream transcriptional pathways. *Cellular and Molecular Life Sciences*, **2010**, 67, 3407-23	10.3	296
300	Enhancing mitochondrial proteostasis reduces amyloid-β proteotoxicity. *Nature*, **2017**, 552, 187-193	50.4	291
299	Caloric restriction, SIRT1 and longevity. *Trends in Endocrinology and Metabolism*, **2009**, 20, 325-31	8.8	286
298	Targeting sirtuin 1 to improve metabolism: all you need is NAD(+)?. *Pharmacological Reviews*, **2012**, 64, 166-87	22.5	282
297	Tetracyclines Disturb Mitochondrial Function across Eukaryotic Models: A Call for Caution in Biomedical Research. *Cell Reports*, **2015**, 10, 1681-1691	10.6	280
296	Imp2 controls oxidative phosphorylation and is crucial for preserving glioblastoma cancer stem cells. *Genes and Development*, **2012**, 26, 1926-44	12.6	275
295	Effective treatment of mitochondrial myopathy by nicotinamide riboside, a vitamin B3. *EMBO Molecular Medicine*, **2014**, 6, 721-31	12	265
294	Protective effects of sirtuins in cardiovascular diseases: from bench to bedside. *European Heart Journal*, **2015**, 36, 3404-12	9.5	264
293	A unique PPARgamma ligand with potent insulin-sensitizing yet weak adipogenic activity. *Molecular Cell*, **2001**, 8, 737-47	17.6	264
292	The bile acid membrane receptor TGR5 as an emerging target in metabolism and inflammation. *Journal of Hepatology*, **2011**, 54, 1263-72	13.4	262
291	Pharmacological approaches to restore mitochondrial function. *Nature Reviews Drug Discovery*, **2013**, 12, 465-83	64.1	258
290	Activation of PPARdelta alters lipid metabolism in db/db mice. *FEBS Letters*, **2000**, 473, 333-6	3.8	258
289	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, 2610-5	11.5	255
288	Anti-hyperglycemic activity of a TGR5 agonist isolated from Olea europaea. *Biochemical and Biophysical Research Communications*, **2007**, 362, 793-8	3.4	253
287	E2Fs regulate adipocyte differentiation. *Developmental Cell*, **2002**, 3, 39-49	10.2	249
286	Transcriptional coregulators in the control of energy homeostasis. *Trends in Cell Biology*, **2007**, 17, 292-301	18.3	247

285	NAD(+)-dependent activation of Sirt1 corrects the phenotype in a mouse model of mitochondrial disease. *Cell Metabolism*, **2014**, 19, 1042-9	24.6	241
284	Peroxisome proliferator-activated receptor-gamma calls for activation in moderation: lessons from genetics and pharmacology. *Endocrine Reviews*, **2004**, 25, 899-918	27.2	234
283	The retinoblastoma-histone deacetylase 3 complex inhibits PPARgamma and adipocyte differentiation. *Developmental Cell*, **2002**, 3, 903-10	10.2	234
282	Eliciting the mitochondrial unfolded protein response by nicotinamide adenine dinucleotide repletion reverses fatty liver disease in mice. *Hepatology*, **2016**, 63, 1190-204	11.2	223
281	The mitochondrial unfolded protein response, a conserved stress response pathway with implications in health and disease. *Journal of Experimental Biology*, **2014**, 217, 137-43	3	223
280	Novel potent and selective bile acid derivatives as TGR5 agonists: biological screening, structure-activity relationships, and molecular modeling studies. *Journal of Medicinal Chemistry*, **2008**, 51, 1831-41	8.3	218
279	SRT1720 improves survival and healthspan of obese mice. *Scientific Reports*, **2011**, 1, 70	4.9	215
278	Adipocyte NCoR knockout decreases PPAR phosphorylation and enhances PPAR activity and insulin sensitivity. *Cell*, **2011**, 147, 815-26	56.2	213
277	Histone methyl transferases and demethylases; can they link metabolism and transcription?. *Cell Metabolism*, **2010**, 12, 321-327	24.6	204
276	Two Conserved Histone Demethylases Regulate Mitochondrial Stress-Induced Longevity. *Cell*, **2016**, 165, 1209-1223	56.2	204
275	Discovery of 6alpha-ethyl-23(S)-methylcholic acid (S-EMCA, INT-777) as a potent and selective agonist for the TGR5 receptor, a novel target for diabesity. *Journal of Medicinal Chemistry*, **2009**, 52, 7958-61	8.3	194
274	Systems proteomics of liver mitochondria function. *Science*, **2016**, 352, aad0189	33.3	193
273	PARP-2 regulates SIRT1 expression and whole-body energy expenditure. *Cell Metabolism*, **2011**, 13, 450-460	24.6	192
272	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, 26913-20	5.4	185
271	Reliability, robustness, and reproducibility in mouse behavioral phenotyping: a cross-laboratory study. *Physiological Genomics*, **2008**, 34, 243-55	3.6	183
270	E2F transcription factor-1 regulates oxidative metabolism. *Nature Cell Biology*, **2011**, 13, 1146-52	23.4	180
269	Protein acetylation in metabolism - metabolites and cofactors. *Nature Reviews Endocrinology*, **2016**, 12, 43-60	15.2	179
268	Calorie restriction: is AMPK a key sensor and effector?. *Physiology*, **2011**, 26, 214-24	9.8	178

267	NRK1 controls nicotinamide mononucleotide and nicotinamide riboside metabolism in mammalian cells. *Nature Communications*, **2016**, 7, 13103	17.4	177
266	Bioavailable copper modulates oxidative phosphorylation and growth of tumors. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 19507-12	11.5	176
265	The European dimension for the mouse genome mutagenesis program. *Nature Genetics*, **2004**, 36, 925-7	36.3	176
264	Pharmacological Inhibition of poly(ADP-ribose) polymerases improves fitness and mitochondrial function in skeletal muscle. *Cell Metabolism*, **2014**, 19, 1034-41	24.6	175
263	A SIRT7-dependent acetylation switch of GABPβ1 controls mitochondrial function. *Cell Metabolism*, **2014**, 20, 856-869	24.6	171
262	NCoR1 is a conserved physiological modulator of muscle mass and oxidative function. *Cell*, **2011**, 147, 827-39	56.2	170
261	Growth differentiation factor 15 is a myomitokine governing systemic energy homeostasis. *Journal of Cell Biology*, **2017**, 216, 149-165	7.3	169
260	Emerging roles of the corepressors NCoR1 and SMRT in homeostasis. *Genes and Development*, **2013**, 27, 819-35	12.6	169
259	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, 4320-5	11.5	169
258	Transcriptional targets of sirtuins in the coordination of mammalian physiology. *Current Opinion in Cell Biology*, **2008**, 20, 303-9	9	166
257	Opposite effects of statins on mitochondria of cardiac and skeletal muscles: a 'mitohormesis' mechanism involving reactive oxygen species and PGC-1. *European Heart Journal*, **2012**, 33, 1397-407	9.5	163
256	De novo NAD synthesis enhances mitochondrial function and improves health. *Nature*, **2018**, 563, 354-359	50.4	163
255	Multilayered genetic and omics dissection of mitochondrial activity in a mouse reference population. *Cell*, **2014**, 158, 1415-1430	56.2	161
254	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	14.6	160
253	Structure-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, 178-90	8.3	159
252	The genetic ablation of SRC-3 protects against obesity and improves insulin sensitivity by reducing the acetylation of PGC-1{alpha}. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 17187-92	11.5	158
251	PPARgamma in human and mouse physiology. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2007**, 1771, 999-1013	5	158
250	Compensation by the muscle limits the metabolic consequences of lipodystrophy in PPAR gamma hypomorphic mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 14457-62	11.5	154

249	Metabolic networks of longevity. *Cell*, **2010**, 142, 9-14	56.2	153
248	NAD+ repletion improves muscle function in muscular dystrophy and counters global PARylation. *Science Translational Medicine*, **2016**, 8, 361ra139	17.5	152
247	Murine gut microbiota is defined by host genetics and modulates variation of metabolic traits. *PLoS ONE*, **2012**, 7, e39191	3.7	152
246	Mitochondria and Epigenetics - Crosstalk in Homeostasis and Stress. *Trends in Cell Biology*, **2017**, 27, 453-463	16.3	150
245	Systems genetics of metabolism: the use of the BXD murine reference panel for multiscalar integration of traits. *Cell*, **2012**, 150, 1287-99	56.2	150
244	Liver receptor homolog 1 is essential for ovulation. *Genes and Development*, **2008**, 22, 1871-6	12.6	150
243	NAD+ metabolism: a therapeutic target for age-related metabolic disease. *Critical Reviews in Biochemistry and Molecular Biology*, **2013**, 48, 397-408	8.7	144
242	Specification of haematopoietic stem cell fate via modulation of mitochondrial activity. *Nature Communications*, **2016**, 7, 13125	17.4	142
241	NAD homeostasis in health and disease. *Nature Metabolism*, **2020**, 2, 9-31	14.6	141
240	Enhanced Respiratory Chain Supercomplex Formation in Response to Exercise in Human Skeletal Muscle. *Cell Metabolism*, **2017**, 25, 301-311	24.6	136
239	Nuclear receptor/microRNA circuitry links muscle fiber type to energy metabolism. *Journal of Clinical Investigation*, **2013**, 123, 2564-75	15.9	136
238	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, 9902-7	11.5	136
237	Modulating NAD metabolism, from bench to bedside. *EMBO Journal*, **2017**, 36, 2670-2683	13	135
236	The role of sirtuins in the control of metabolic homeostasis. *Annals of the New York Academy of Sciences*, **2009**, 1173 Suppl 1, E10-9	6.5	135
235	Systematic gene expression mapping clusters nuclear receptors according to their function in the brain. *Cell*, **2007**, 131, 405-18	56.2	132
234	The role of mitochondria in stem cell fate and aging. *Development (Cambridge)*, **2018**, 145,	6.6	129
233	Conjugated bile acids associate with altered rates of glucose and lipid oxidation after Roux-en-Y gastric bypass. *Obesity Surgery*, **2012**, 22, 1473-80	3.7	127
232	Compromised intestinal lipid absorption in mice with a liver-specific deficiency of liver receptor homolog 1. *Molecular and Cellular Biology*, **2007**, 27, 8330-9	4.8	127

231	TGR5 potentiates GLP-1 secretion in response to anionic exchange resins. *Scientific Reports*, **2012**, 2, 430	4.9	126
230	Reversible acetylation of PGC-1: connecting energy sensors and effectors to guarantee metabolic flexibility. *Oncogene*, **2010**, 29, 4617-24	9.2	126
229	The gut microbiota influences skeletal muscle mass and function in mice. *Science Translational Medicine*, **2019**, 11,	17.5	124
228	CREB and ChREBP oppositely regulate SIRT1 expression in response to energy availability. *EMBO Reports*, **2011**, 12, 1069-76	6.5	123
227	Bile acids and the membrane bile acid receptor TGR5--connecting nutrition and metabolism. *Thyroid*, **2008**, 18, 167-74	6.2	123
226	The journey of resveratrol from yeast to human. *Aging*, **2012**, 4, 146-58	5.6	122
225	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	11.5	119
224	Analysis of mtDNA/nDNA Ratio in Mice. *Current Protocols in Mouse Biology*, **2017**, 7, 47-54	1.1	118
223	Repairing Mitochondrial Dysfunction in Disease. *Annual Review of Pharmacology and Toxicology*, **2018**, 58, 353-389	17.9	118
222	Analysis of Mitochondrial Respiratory Chain Supercomplexes Using Blue Native Polyacrylamide Gel Electrophoresis (BN-PAGE). *Current Protocols in Mouse Biology*, **2016**, 6, 1-14	1.1	115
221	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, 13098-103	11.5	111
220	PPARPromotes Running Endurance by Preserving Glucose. *Cell Metabolism*, **2017**, 25, 1186-1193.e4	24.6	110
219	Super-resolution biological microscopy using virtual imaging by a microsphere nanoscope. *Small*, **2014**, 10, 1712-8	11	109
218	The pollutant diethylhexyl phthalate regulates hepatic energy metabolism via species-specific PPARalpha-dependent mechanisms. *Environmental Health Perspectives*, **2010**, 118, 234-41	8.4	109
217	Protein deacetylation by SIRT1: an emerging key post-translational modification in metabolic regulation. *Pharmacological Research*, **2010**, 62, 35-41	10.2	108
216	NCoR repression of LXRs restricts macrophage biosynthesis of insulin-sensitizing omega 3 fatty acids. *Cell*, **2013**, 155, 200-214	56.2	107
215	Muscle or liver-specific Sirt3 deficiency induces hyperacetylation of mitochondrial proteins without affecting global metabolic homeostasis. *Scientific Reports*, **2012**, 2, 425	4.9	107
214	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, 1038-49	32.3	105

213	Hdac6 deletion delays disease progression in the SOD1G93A mouse model of ALS. *Human Molecular Genetics*, **2013**, 22, 1783-90	5.6	101
212	Key electrophysiological, molecular, and metabolic signatures of sleep and wakefulness revealed in primary cortical cultures. *Journal of Neuroscience*, **2012**, 32, 12506-17	6.6	98
211	Metabolic characterization of a Sirt5 deficient mouse model. *Scientific Reports*, **2013**, 3, 2806	4.9	94
210	Mouse functional genomics requires standardization of mouse handling and housing conditions. *Mammalian Genome*, **2004**, 15, 768-83	3.2	93
209	The Sirt1 activator SRT3025 provides atheroprotection in Apoe-/- mice by reducing hepatic Pcsk9 secretion and enhancing Ldlr expression. *European Heart Journal*, **2015**, 36, 51-9	9.5	92
208	The bile acid membrane receptor TGR5: a valuable metabolic target. *Digestive Diseases*, **2011**, 29, 37-44	3.2	92
207	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, 17868-73	11.5	92
206	Joint mouse-human phenome-wide association to test gene function and disease risk. *Nature Communications*, **2016**, 7, 10464	17.4	91
205	LRP1 functions as an atheroprotective integrator of TGFbeta and PDFG signals in the vascular wall: implications for Marfan syndrome. *PLoS ONE*, **2007**, 2, e448	3.7	91
204	LRP1 controls intracellular cholesterol storage and fatty acid synthesis through modulation of Wnt signaling. *Journal of Biological Chemistry*, **2009**, 284, 381-388	5.4	89
203	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, 4265-8	8.3	89
202	The mitochondrial unfolded protein response: synchronizing genomes. *Current Opinion in Cell Biology*, **2015**, 33, 74-81	9	87
201	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, 10703-8	11.5	85
200	PARP inhibition protects against alcoholic and non-alcoholic steatohepatitis. *Journal of Hepatology*, **2017**, 66, 589-600	13.4	84
199	Vitamin D and energy homeostasis: of mice and men. *Nature Reviews Endocrinology*, **2014**, 10, 79-87	15.2	83
198	SIRT1 mRNA expression may be associated with energy expenditure and insulin sensitivity. *Diabetes* , **2010**, 59, 829-35	0.9	83
197	Poly(ADP-ribose) polymerase-2 [corrected] controls adipocyte differentiation and adipose tissue function through the regulation of the activity of the retinoid X receptor/peroxisome proliferator-activated receptor-gamma [corrected] heterodimer. *Journal of Biological Chemistry*, **2007**, 282, 37738-46	5.4	82
196	The NAD-Booster Nicotinamide Riboside Potently Stimulates Hematopoiesis through Increased Mitochondrial Clearance. *Cell Stem Cell*, **2019**, 24, 405-418.e7	18	81

195	Bile acid binding resin improves metabolic control through the induction of energy expenditure. *PLoS ONE*, **2012**, 7, e38286	3.7	81
194	Exploring the therapeutic space around NAD+. *Journal of Cell Biology*, **2012**, 199, 205-9	7.3	81
193	Autophagy regulates lipid metabolism through selective turnover of NCoR1. *Nature Communications*, **2019**, 10, 1567	17.4	80
192	Inhibiting poly ADP-ribosylation increases fatty acid oxidation and protects against fatty liver disease. *Journal of Hepatology*, **2017**, 66, 132-141	13.4	80
191	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	15.7	80
190	A screening-based platform for the assessment of cellular respiration in Caenorhabditis elegans. *Nature Protocols*, **2016**, 11, 1798-816	18.8	79
189	Genetic background determines metabolic phenotypes in the mouse. *Mammalian Genome*, **2008**, 19, 318-31	3.2	78
188	LRH-1-dependent glucose sensing determines intermediary metabolism in liver. *Journal of Clinical Investigation*, **2012**, 122, 2817-26	15.9	77
187	Evidence for a direct effect of the NAD+ precursor acipimox on muscle mitochondrial function in humans. *Diabetes*, **2015**, 64, 1193-201	0.9	74
186	Antibiotic use and abuse: a threat to mitochondria and chloroplasts with impact on research, health, and environment. *BioEssays*, **2015**, 37, 1045-53	4.1	74
185	Mitocellular communication: Shaping health and disease. *Science*, **2019**, 366, 827-832	33.3	73
184	IL-13 induces expression of CD36 in human monocytes through PPARgamma activation. *European Journal of Immunology*, **2007**, 37, 1642-52	6.1	73
183	SIRT2 deficiency modulates macrophage polarization and susceptibility to experimental colitis. *PLoS ONE*, **2014**, 9, e103573	3.7	72
182	Type 5 adenylyl cyclase increases oxidative stress by transcriptional regulation of manganese superoxide dismutase via the SIRT1/FoxO3a pathway. *Circulation*, **2013**, 127, 1692-701	16.7	71
181	Evaluation of glucose homeostasis. *Current Protocols in Molecular Biology*, **2007**, Chapter 29, Unit 29B.3	2.9	71
180	Tetracycline antibiotics impair mitochondrial function and its experimental use confounds research. *Cancer Research*, **2015**, 75, 4446-9	10.1	70
179	Loss of the RNA polymerase III repressor MAF1 confers obesity resistance. *Genes and Development*, **2015**, 29, 934-47	12.6	70
178	The small heterodimer partner is a gonadal gatekeeper of sexual maturation in male mice. *Genes and Development*, **2007**, 21, 303-15	12.6	70

177	PPARβ controls Dectin-1 expression required for host antifungal defense against Candida albicans. *PLoS Pathogens*, **2010**, 6, e1000714	7.6	68
176	NAD+ as a signaling molecule modulating metabolism. *Cold Spring Harbor Symposia on Quantitative Biology*, **2011**, 76, 291-8	3.9	68
175	Reduced oxidative capacity in macrophages results in systemic insulin resistance. *Nature Communications*, **2018**, 9, 1551	17.4	67
174	Cytosolic Proteostasis Networks of the Mitochondrial Stress Response. *Trends in Biochemical Sciences*, **2017**, 42, 712-725	10.3	66
173	Transcriptional coregulators: fine-tuning metabolism. *Cell Metabolism*, **2014**, 20, 26-40	24.6	66
172	The corepressor NCoR1 antagonizes PGC-1β and estrogen-related receptor α in the regulation of skeletal muscle function and oxidative metabolism. *Molecular and Cellular Biology*, **2012**, 32, 4913-24	4.8	66
171	Regulation of steatohepatitis and PPARγ signaling by distinct AP-1 dimers. *Cell Metabolism*, **2014**, 19, 84-95	24.6	65
170	The intestinal nuclear receptor signature with epithelial localization patterns and expression modulation in tumors. *Gastroenterology*, **2010**, 138, 636-48, 648.e1-12	13.3	65
169	Impaired pancreatic growth, beta cell mass, and beta cell function in E2F1 (-/-)mice. *Journal of Clinical Investigation*, **2004**, 113, 1288-95	15.9	65
168	GRAM domain proteins specialize functionally distinct ER-PM contact sites in human cells. *ELife*, **2018**, 7,	8.9	64
167	Ppargamma2 is a key driver of longevity in the mouse. *PLoS Genetics*, **2009**, 5, e1000752	6	62
166	PPARβ ligands switched high fat diet-induced macrophage M2b polarization toward M2a thereby improving intestinal Candida elimination. *PLoS ONE*, **2010**, 5, e12828	3.7	61
165	The RNA-Binding Protein PUM2 Impairs Mitochondrial Dynamics and Mitophagy During Aging. *Molecular Cell*, **2019**, 73, 775-787.e10	17.6	60
164	The Pro12Ala PPARgamma2 variant determines metabolism at the gene-environment interface. *Cell Metabolism*, **2009**, 9, 88-98	24.6	57
163	In vivo imaging of farnesoid X receptor activity reveals the ileum as the primary bile acid signaling tissue. *Molecular Endocrinology*, **2007**, 21, 1312-23		56
162	Emerging actions of the nuclear receptor LRH-1 in the gut. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2011**, 1812, 947-55	6.9	55
161	Absence of the steroid receptor coactivator-3 induces B-cell lymphoma. *EMBO Journal*, **2006**, 25, 2453-643		53
160	Roux-en-y gastric bypass attenuates hepatic mitochondrial dysfunction in mice with non-alcoholic steatohepatitis. *Gut*, **2015**, 64, 673-83	19.2	51

159	Diet1 functions in the FGF15/19 enterohepatic signaling axis to modulate bile acid and lipid levels. *Cell Metabolism*, **2013**, 17, 916-928	24.6	50
158	Bile acids increase levels of microRNAs 221 and 222, leading to degradation of CDX2 during esophageal carcinogenesis. *Gastroenterology*, **2013**, 145, 1300-11	13.3	50
157	The Convergence of Systems and Reductionist Approaches in Complex Trait Analysis. *Cell*, **2015**, 162, 23-32	56.2	47
156	The orphan nuclear receptor small heterodimer partner mediates male infertility induced by diethylstilbestrol in mice. *Journal of Clinical Investigation*, **2009**, 119, 3752-64	15.9	47
155	Nicotinamide riboside supplementation alters body composition and skeletal muscle acetylcarnitine concentrations in healthy obese humans. *American Journal of Clinical Nutrition*, **2020**, 112, 413-426	7	46
154	The mitochondrial unfolded protein response in mammalian physiology. *Mammalian Genome*, **2014**, 25, 424-33	3.2	46
153	Mitochondrial function is impaired in the skeletal muscle of pre-frail elderly. *Scientific Reports*, **2018**, 8, 8548	4.9	45
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