

# Johan Auwerx

## List of Publications by Year in Descending Order

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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.

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	Inhibition of sphingolipid de novo synthesis counteracts muscular dystrophy.. <i>Science Advances</i> , <b>2022</b> , 8, eabh4423	14.3	0
337	The mouse metallomic landscape of aging and metabolism.. <i>Nature Communications</i> , <b>2022</b> , 13, 607	17.4	3
336	Multi-omics analysis identifies essential regulators of mitochondrial stress response in two wild-type strains.. <i>IScience</i> , <b>2022</b> , 25, 103734	6.1	0
335	Pleiotropic effects of mitochondria in aging. <i>Nature Aging</i> , <b>2022</b> , 2, 199-213		3
334	eNAMPT actions through nucleus accumbens NAD/SIRT1 link increased adiposity with sociability deficits programmed by peripuberty stress.. <i>Science Advances</i> , <b>2022</b> , 8, eabj9109	14.3	2
333	Urolithin A improves muscle strength, exercise performance, and biomarkers of mitochondrial health in a randomized trial in middle-aged adults.. <i>Cell Reports Medicine</i> , <b>2022</b> , 3, 100633	18	4
332	Genetic background and sex control the outcome of high-fat diet feeding in mice. <i>IScience</i> , <b>2022</b> , 25, 104468	6.1	3
331	SIRT7 modulates the stability and activity of the renal K-Cl cotransporter KCC4 through deacetylation. <i>EMBO Reports</i> , <b>2021</b> , 22, e50766	6.5	3
330	A platform for experimental precision medicine: The extended BXD mouse family. <i>Cell Systems</i> , <b>2021</b> , 12, 235-247.e9	10.6	29
329	Differential roles of GDF15 and FGF21 in systemic metabolic adaptation to the mitochondrial integrated stress response. <i>IScience</i> , <b>2021</b> , 24, 102181	6.1	12
328	Urolithin A improves muscle function by inducing mitophagy in muscular dystrophy. <i>Science Translational Medicine</i> , <b>2021</b> , 13,	17.5	22
327	Direct supplementation with Urolithin A overcomes limitations of dietary exposure and gut microbiome variability in healthy adults to achieve consistent levels across the population. <i>European Journal of Clinical Nutrition</i> , <b>2021</b> ,	5.2	10
326	Metabolic Rewiring by Loss of Sirt5 Promotes Kras-Induced Pancreatic Cancer Progression. <i>Gastroenterology</i> , <b>2021</b> , 161, 1584-1600	13.3	8
325	Impact of the Natural Compound Urolithin A on Health, Disease, and Aging. <i>Trends in Molecular Medicine</i> , <b>2021</b> , 27, 687-699	11.5	36
324	TGR5/Cathepsin E signaling regulates macrophage innate immune activation in liver ischemia and reperfusion injury. <i>American Journal of Transplantation</i> , <b>2021</b> , 21, 1453-1464	8.7	6
323	Pancreatic Sirtuin 3 Deficiency Promotes Hepatic Steatosis by Enhancing 5-Hydroxytryptamine Synthesis in Mice With Diet-Induced Obesity. <i>Diabetes</i> , <b>2021</b> , 70, 119-131	0.9	4
322	Differential role of nicotinamide adenine dinucleotide deficiency in acute and chronic kidney disease. <i>Nephrology Dialysis Transplantation</i> , <b>2021</b> , 36, 60-68	4.3	10

321	Pharmacological and genetic perturbation establish SIRT5 as a promising target in breast cancer. <i>Oncogene</i> , <b>2021</b> , 40, 1644-1658	9.2	13
320	NAD boosting reduces age-associated amyloidosis and restores mitochondrial homeostasis in muscle. <i>Cell Reports</i> , <b>2021</b> , 34, 108660	10.6	14
319	The transcriptional coactivator CBP/p300 is an evolutionarily conserved node that promotes longevity in response to mitochondrial stress. <i>Nature Aging</i> , <b>2021</b> , 1, 165-178		12
318	Nicotinamide Riboside Enhances In Vitro Beta-adrenergic Brown Adipose Tissue Activity in Humans. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2021</b> , 106, 1437-1447	5.6	5
317	Gene-by-environment modulation of lifespan and weight gain in the murine BXD family. <i>Nature Metabolism</i> , <b>2021</b> , 3, 1217-1227	14.6	5
316	Phalloidin Staining of Actin Filaments for Visualization of Muscle Fibers in. <i>Bio-protocol</i> , <b>2021</b> , 11, e41830	0.9	1
315	The exercise-induced long noncoding RNA promotes fast-twitch myogenesis in aging. <i>Science Translational Medicine</i> , <b>2021</b> , 13, eabc7367	17.5	1
314	Acute RyR1 Ca leak enhances NADH-linked mitochondrial respiratory capacity. <i>Nature Communications</i> , <b>2021</b> , 12, 7219	17.4	3
313	Skeletal muscle enhancer interactions identify genes controlling whole-body metabolism. <i>Nature Communications</i> , <b>2020</b> , 11, 2695	17.4	14
312	Gene replacement therapy provides benefit in an adult mouse model of Leigh syndrome. <i>Brain</i> , <b>2020</b> , 143, 1686-1696	11.2	13
311	Eosinophils regulate adipose tissue inflammation and sustain physical and immunological fitness in old age. <i>Nature Metabolism</i> , <b>2020</b> , 2, 688-702	14.6	28
310	Mouse Systems Genetics as a Prelude to Precision Medicine. <i>Trends in Genetics</i> , <b>2020</b> , 36, 259-272	8.5	15
309	NAD homeostasis in health and disease. <i>Nature Metabolism</i> , <b>2020</b> , 2, 9-31	14.6	141
308	Sirt6 deletion in bone marrow-derived cells increases atherosclerosis - Central role of macrophage scavenger receptor 1. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2020</b> , 139, 24-32	5.8	13
307	Evaluation of the NAD biosynthetic pathway in ALS patients and effect of modulating NAD levels in hSOD1-linked ALS mouse models. <i>Experimental Neurology</i> , <b>2020</b> , 327, 113219	5.7	20
306	Nicotinamide riboside supplementation alters body composition and skeletal muscle acetylcarnitine concentrations in healthy obese humans. <i>American Journal of Clinical Nutrition</i> , <b>2020</b> , 112, 413-426	7	46
305	Long noncoding RNA integrates a DNA-PK-mediated DNA damage response and vascular senescence. <i>Science Translational Medicine</i> , <b>2020</b> , 12,	17.5	41
304	Inhibition of mitophagy drives macrophage activation and antibacterial defense during sepsis. <i>Journal of Clinical Investigation</i> , <b>2020</b> , 130, 5858-5874	15.9	31

303	TBK1 phosphorylates mutant Huntingtin and suppresses its aggregation and toxicity in Huntington $\beta$ disease models. <i>EMBO Journal</i> , <b>2020</b> , 39, e104671	13	15
302	Confounding factors from inducible systems for spatiotemporal gene expression regulation. <i>Journal of Cell Biology</i> , <b>2020</b> , 219,	7.3	11
301	Mitochondrial Deacetylase Sirt3 Reduces Vascular Dysfunction and Hypertension While Sirt3 Depletion in Essential Hypertension Is Linked to Vascular Inflammation and Oxidative Stress. <i>Circulation Research</i> , <b>2020</b> , 126, 439-452	15.7	80
300	Nicotinamide Pathway-Dependent Sirt1 Activation Restores Calcium Homeostasis to Achieve Neuroprotection in Spinocerebellar Ataxia Type 7. <i>Neuron</i> , <b>2020</b> , 105, 630-644.e9	13.9	31
299	Asperuloside Improves Obesity and Type 2 Diabetes through Modulation of Gut Microbiota and Metabolic Signaling. <i>IScience</i> , <b>2020</b> , 23, 101522	6.1	9
298	The Gene-Regulatory Footprint of Aging Highlights Conserved Central Regulators. <i>Cell Reports</i> , <b>2020</b> , 32, 108203	10.6	7
297	Growth differentiation factor 15 protects against the aging-mediated systemic inflammatory response in humans and mice. <i>Aging Cell</i> , <b>2020</b> , 19, e13195	9.9	27
296	PHD3 Loss Promotes Exercise Capacity and Fat Oxidation in Skeletal Muscle. <i>Cell Metabolism</i> , <b>2020</b> , 32, 215-228.e7	24.6	8
295	NCoR1 Protects Mice From Dextran Sodium Sulfate-Induced Colitis by Guarding Colonic Crypt Cells From Luminal Insult. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , <b>2020</b> , 10, 133-147	7.9	5
294	Enoxacin induces oxidative metabolism and mitigates obesity by regulating adipose tissue miRNA expression. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	8
293	Macrophage NCOR1 Deficiency Ameliorates Myocardial Infarction and Neointimal Hyperplasia in Mice. <i>Journal of the American Heart Association</i> , <b>2020</b> , 9, e015862	6	8
292	TGR5 Regulates Macrophage Inflammation in Nonalcoholic Steatohepatitis by Modulating NLRP3 Inflammasome Activation. <i>Frontiers in Immunology</i> , <b>2020</b> , 11, 609060	8.4	15
291	The RNA-Binding Protein PUM2 Impairs Mitochondrial Dynamics and Mitophagy During Aging. <i>Molecular Cell</i> , <b>2019</b> , 73, 775-787.e10	17.6	60
290	Opposing action of NCoR1 and PGC-1 $\beta$ on mitochondrial redox homeostasis. <i>Free Radical Biology and Medicine</i> , <b>2019</b> , 143, 203-208	7.8	1
289	Automated High-Content Phenotyping of the Nematode <i>C. Elegans</i> at Single Animal Resolution with a Microfluidic Platform <b>2019</b> ,		1
288	Automated Platform for Long-Term Culture and High-Content Phenotyping of Single <i>C. elegans</i> Worms. <i>Scientific Reports</i> , <b>2019</b> , 9, 14340	4.9	14
287	Mild inborn errors of metabolism in commonly used inbred mouse strains. <i>Molecular Genetics and Metabolism</i> , <b>2019</b> , 126, 388-396	3.7	7
286	The virtuous cycle of human genetics and mouse models in drug discovery. <i>Nature Reviews Drug Discovery</i> , <b>2019</b> , 18, 255-272	64.1	26

285	The mitophagy activator urolithin A is safe and induces a molecular signature of improved mitochondrial and cellular health in humans. <i>Nature Metabolism</i> , <b>2019</b> , 1, 595-603	14.6	160
284	The nuclear receptor corepressor NCoR1 regulates hematopoiesis and leukemogenesis in vivo. <i>Blood Advances</i> , <b>2019</b> , 3, 644-657	7.8	11
283	The NAD-Booster Nicotinamide Riboside Potently Stimulates Hematopoiesis through Increased Mitochondrial Clearance. <i>Cell Stem Cell</i> , <b>2019</b> , 24, 405-418.e7	18	81
282	Autophagy regulates lipid metabolism through selective turnover of NCoR1. <i>Nature Communications</i> , <b>2019</b> , 10, 1567	17.4	80
281	Fine-Tuning of PGC1 $\beta$ Expression Regulates Cardiac Function and Longevity. <i>Circulation Research</i> , <b>2019</b> , 125, 707-719	15.7	17
280	The gut microbiota influences skeletal muscle mass and function in mice. <i>Science Translational Medicine</i> , <b>2019</b> , 11,	17.5	124
279	Cross-species functional modules link proteostasis to human normal aging. <i>PLoS Computational Biology</i> , <b>2019</b> , 15, e1007162	5	9
278	-acetylaspartate availability is essential for juvenile survival on fat-free diet and determines metabolic health. <i>FASEB Journal</i> , <b>2019</b> , 33, 13808-13824	0.9	2
277	Diet modulates cecum bacterial diversity and physiological phenotypes across the BXD mouse genetic reference population. <i>PLoS ONE</i> , <b>2019</b> , 14, e0224100	3.7	3
276	Mitocellular communication: Shaping health and disease. <i>Science</i> , <b>2019</b> , 366, 827-832	33.3	73
275	Nuclear receptor corepressor 1 represses cardiac hypertrophy. <i>EMBO Molecular Medicine</i> , <b>2019</b> , 11, e91272	16	
274	Niacin: an old lipid drug in a new NAD dress. <i>Journal of Lipid Research</i> , <b>2019</b> , 60, 741-746	6.3	19
273	The Detection of Early Epigenetic Inheritance of Mitochondrial Stress in C. Elegans with a Microfluidic Phenotyping Platform. <i>Scientific Reports</i> , <b>2019</b> , 9, 19315	4.9	1
272	Identifying gene function and module connections by the integration of multispecies expression compendia. <i>Genome Research</i> , <b>2019</b> , 29, 2034-2045	9.7	10
271	Mitochondrial haplotypes affect metabolic phenotypes in the Drosophila Genetic Reference Panel. <i>Nature Metabolism</i> , <b>2019</b> , 1, 1226-1242	14.6	5
270	A biosensor for measuring NAD levels at the point of care. <i>Nature Metabolism</i> , <b>2019</b> , 1, 1219-1225	14.6	24
269	MicroRNA-382 silencing induces a mitonuclear protein imbalance and activates the mitochondrial unfolded protein response in muscle cells. <i>Journal of Cellular Physiology</i> , <b>2019</b> , 234, 6601-6610	7	12
268	Automated high-content phenotyping from the first larval stage till the onset of adulthood of the nematode <i>Caenorhabditis elegans</i> . <i>Lab on A Chip</i> , <b>2018</b> , 19, 120-135	7.2	10

267	Reduced oxidative capacity in macrophages results in systemic insulin resistance. <i>Nature Communications</i> , <b>2018</b> , 9, 1551	17.4	67
266	Enhanced longevity and metabolism by brown adipose tissue with disruption of the regulator of G protein signaling 14. <i>Aging Cell</i> , <b>2018</b> , 17, e12751	9.9	21
265	Increased cardiac fatty acid oxidation in a mouse model with decreased malonyl-CoA sensitivity of CPT1B. <i>Cardiovascular Research</i> , <b>2018</b> , 114, 1324-1334	9.9	18
264	The role of mitochondria in stem cell fate and aging. <i>Development (Cambridge)</i> , <b>2018</b> , 145,	6.6	129
263	Genetic cartography of longevity in humans and mice: Current landscape and horizons. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2018</b> , 1864, 2718-2732	6.9	18
262	Loss of Sirt3 accelerates arterial thrombosis by increasing formation of neutrophil extracellular traps and plasma tissue factor activity. <i>Cardiovascular Research</i> , <b>2018</b> , 114, 1178-1188	9.9	27
261	β-Amino-β-carboxymuconate-β-semialdehyde Decarboxylase (ACMSD) Inhibitors as Novel Modulators of De Novo Nicotinamide Adenine Dinucleotide (NAD) Biosynthesis. <i>Journal of Medicinal Chemistry</i> , <b>2018</b> , 61, 745-759	8.3	25
260	NAD + Modulation <b>2018</b> , 27-44		
259	Increased Hepatic PDGF-AA Signaling Mediates Liver Insulin Resistance in Obesity-Associated Type 2 Diabetes. <i>Diabetes</i> , <b>2018</b> , 67, 1310-1321	0.9	42
258	ERRα Preserves Brown Fat Innate Thermogenic Activity. <i>Cell Reports</i> , <b>2018</b> , 22, 2849-2859	10.6	18
257	Repairing Mitochondrial Dysfunction in Disease. <i>Annual Review of Pharmacology and Toxicology</i> , <b>2018</b> , 58, 353-389	17.9	118
256	Oxidative stress and mitochondrial dynamics malfunction are linked in Pelizaeus-Merzbacher disease. <i>Brain Pathology</i> , <b>2018</b> , 28, 611-630	6	9
255	Mitochondrial function is impaired in the skeletal muscle of pre-frail elderly. <i>Scientific Reports</i> , <b>2018</b> , 8, 8548	4.9	45
254	Genetic Regulation of Plasma Lipid Species and Their Association with Metabolic Phenotypes. <i>Cell Systems</i> , <b>2018</b> , 6, 709-721.e6	10.6	31
253	Systems Analyses Reveal Physiological Roles and Genetic Regulators of Liver Lipid Species. <i>Cell Systems</i> , <b>2018</b> , 6, 722-733.e6	10.6	32
252	Multimodal imaging and high-throughput image-processing for drug screening on living organisms on-chip. <i>Journal of Biomedical Optics</i> , <b>2018</b> , 24, 1-9	3.5	4
251	Reversible and long-term immobilization in a hydrogel-microbead matrix for high-resolution imaging of <i>Caenorhabditis elegans</i> and other small organisms. <i>PLoS ONE</i> , <b>2018</b> , 13, e0193989	3.7	15
250	A microfluidic array for high-content screening at whole-organism resolution <b>2018</b> ,		1

249	An Integrated Systems Genetics and Omics Toolkit to Probe Gene Function. <i>Cell Systems</i> , <b>2018</b> , 6, 90-102.e4	2.6	23
248	TRANSLATING UROLITHIN A BENEFITS ON MUSCLE MITOCHONDRIA TO HUMANS. <i>Innovation in Aging</i> , <b>2018</b> , 2, 92-93	0.1	1
247	De novo NAD synthesis enhances mitochondrial function and improves health. <i>Nature</i> , <b>2018</b> , 563, 354-359.	59.4	163
246	Microfluidics-enabled phenotyping of a whole population of worms over their embryonic and post-embryonic development at single-organism resolution. <i>Microsystems and Nanoengineering</i> , <b>2018</b> , 4, 6	7.7	16
245	Quantifying and Localizing the Mitochondrial Proteome Across Five Tissues in A Mouse Population. <i>Molecular and Cellular Proteomics</i> , <b>2018</b> , 17, 1766-1777	7.6	37
244	GRAM domain proteins specialize functionally distinct ER-PM contact sites in human cells. <i>ELife</i> , <b>2018</b> , 7,	8.9	64
243	Parkin functionally interacts with PGC-1 $\alpha$ to preserve mitochondria and protect dopaminergic neurons. <i>Human Molecular Genetics</i> , <b>2017</b> , 26, 582-598	5.6	41
242	Intestinal NCoR1, a regulator of epithelial cell maturation, controls neonatal hyperbilirubinemia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E1432-E1440	11.5	15
241	Analysis of mtDNA/nDNA Ratio in Mice. <i>Current Protocols in Mouse Biology</i> , <b>2017</b> , 7, 47-54	1.1	118
240	Mitochondria and Epigenetics - Crosstalk in Homeostasis and Stress. <i>Trends in Cell Biology</i> , <b>2017</b> , 27, 453-463	18.3	150
239	PPAR $\beta$ Promotes Running Endurance by Preserving Glucose. <i>Cell Metabolism</i> , <b>2017</b> , 25, 1186-1193.e4	24.6	110
238	A homozygous missense mutation in ERAL1, encoding a mitochondrial rRNA chaperone, causes Perrault syndrome. <i>Human Molecular Genetics</i> , <b>2017</b> , 26, 2541-2550	5.6	43
237	Enhanced Respiratory Chain Supercomplex Formation in Response to Exercise in Human Skeletal Muscle. <i>Cell Metabolism</i> , <b>2017</b> , 25, 301-311	24.6	136
236	Sirtuin 3 deficiency does not alter host defenses against bacterial and fungal infections. <i>Scientific Reports</i> , <b>2017</b> , 7, 3853	4.9	20
235	Cytosolic Proteostasis Networks of the Mitochondrial Stress Response. <i>Trends in Biochemical Sciences</i> , <b>2017</b> , 42, 712-725	10.3	66
234	Multi-omics analysis identifies ATF4 as a key regulator of the mitochondrial stress response in mammals. <i>Journal of Cell Biology</i> , <b>2017</b> , 216, 2027-2045	7.3	349
233	Growth differentiation factor 15 is a myomitokine governing systemic energy homeostasis. <i>Journal of Cell Biology</i> , <b>2017</b> , 216, 149-165	7.3	169
232	An unbiased silencing screen in muscle cells identifies miR-320a, miR-150, miR-196b, and miR-34c as regulators of skeletal muscle mitochondrial metabolism. <i>Molecular Metabolism</i> , <b>2017</b> , 6, 1429-1442	8.8	14

231	Systems Phytohormone Responses to Mitochondrial Proteotoxic Stress. <i>Molecular Cell</i> , <b>2017</b> , 68, 540-551. <b>17.6</b>	28
230	NCOR1 restrains thymic negative selection by repressing Bim expression to spare thymocytes undergoing positive selection. <i>Nature Communications</i> , <b>2017</b> , 8, 959	17.4 9
229	Label-free three-dimensional imaging of <i>Caenorhabditis elegans</i> with visible optical coherence microscopy. <i>PLoS ONE</i> , <b>2017</b> , 12, e0181676	3.7 2
228	Fas cell surface death receptor controls hepatic lipid metabolism by regulating mitochondrial function. <i>Nature Communications</i> , <b>2017</b> , 8, 480	17.4 27
227	Degradation of PHLPP2 by KCTD17, via a Glucagon-Dependent Pathway, Promotes Hepatic Steatosis. <i>Gastroenterology</i> , <b>2017</b> , 153, 1568-1580.e10	13.3 13
226	Bayesian association scan reveals loci associated with human lifespan and linked biomarkers. <i>Nature Communications</i> , <b>2017</b> , 8, 15842	17.4 39
225	Modulating NAD metabolism, from bench to bedside. <i>EMBO Journal</i> , <b>2017</b> , 36, 2670-2683	13 135
224	The corepressor NCOR1 regulates the survival of single-positive thymocytes. <i>Scientific Reports</i> , <b>2017</b> , 7, 15928	4.9 6
223	Deguelin exerts potent nematocidal activity the mitochondrial respiratory chain. <i>FASEB Journal</i> , <b>2017</b> , 31, 4515-4532	0.9 14
222	PARP inhibition protects against alcoholic and non-alcoholic steatohepatitis. <i>Journal of Hepatology</i> , <b>2017</b> , 66, 589-600	13.4 84
221	Plasma membrane-bound G protein-coupled bile acid receptor attenuates liver ischemia/reperfusion injury via the inhibition of toll-like receptor 4 signaling in mice. <i>Liver Transplantation</i> , <b>2017</b> , 23, 63-74	4.5 29
220	Inhibiting poly ADP-ribosylation increases fatty acid oxidation and protects against fatty liver disease. <i>Journal of Hepatology</i> , <b>2017</b> , 66, 132-141	13.4 80
219	The chromatin remodeling factor ISW-1 integrates organismal responses against nuclear and mitochondrial stress. <i>Nature Communications</i> , <b>2017</b> , 8, 1818	17.4 21
218	Sirtuin 2 Deficiency Increases Bacterial Phagocytosis by Macrophages and Protects from Chronic Staphylococcal Infection. <i>Frontiers in Immunology</i> , <b>2017</b> , 8, 1037	8.4 26
217	Enhancing mitochondrial proteostasis reduces amyloid- $\beta$ proteotoxicity. <i>Nature</i> , <b>2017</b> , 552, 187-193	50.4 291
216	A screening-based platform for the assessment of cellular respiration in <i>Caenorhabditis elegans</i> . <i>Nature Protocols</i> , <b>2016</b> , 11, 1798-816	18.8 79
215	Sirtuins as Metabolic Modulators of Muscle Plasticity <b>2016</b> , 191-211	
214	NAD <sup>+</sup> repletion improves muscle function in muscular dystrophy and counters global PARylation. <i>Science Translational Medicine</i> , <b>2016</b> , 8, 361ra139	17.5 152



213	NRK1 controls nicotinamide mononucleotide and nicotinamide riboside metabolism in mammalian cells. <i>Nature Communications</i> , <b>2016</b> , 7, 13103	17.4	177
212	Specification of haematopoietic stem cell fate via modulation of mitochondrial activity. <i>Nature Communications</i> , <b>2016</b> , 7, 13125	17.4	142
211	Analysis of Mitochondrial Respiratory Chain Supercomplexes Using Blue Native Polyacrylamide Gel Electrophoresis (BN-PAGE). <i>Current Protocols in Mouse Biology</i> , <b>2016</b> , 6, 1-14	1.1	115
210	Joint mouse-human phenome-wide association to test gene function and disease risk. <i>Nature Communications</i> , <b>2016</b> , 7, 10464	17.4	91
209	Systems proteomics of liver mitochondria function. <i>Science</i> , <b>2016</b> , 352, aad0189	33.3	193
208	Automated longitudinal monitoring of in vivo protein aggregation in neurodegenerative disease C. elegans models. <i>Molecular Neurodegeneration</i> , <b>2016</b> , 11, 17	19	32
207	LRH-1-dependent programming of mitochondrial glutamine processing drives liver cancer. <i>Genes and Development</i> , <b>2016</b> , 30, 1255-60	12.6	41
206	Eliciting the mitochondrial unfolded protein response by nicotinamide adenine dinucleotide repletion reverses fatty liver disease in mice. <i>Hepatology</i> , <b>2016</b> , 63, 1190-204	11.2	223
205	Mitonuclear communication in homeostasis and stress. <i>Nature Reviews Molecular Cell Biology</i> , <b>2016</b> , 17, 213-26	48.7	378
204	Miniaturized implantable sensors for in vivo localized temperature measurements in mice during cold exposure. <i>Biomedical Microdevices</i> , <b>2016</b> , 18, 1	3.7	35
203	Protein acetylation in metabolism - metabolites and cofactors. <i>Nature Reviews Endocrinology</i> , <b>2016</b> , 12, 43-60	15.2	179
202	Urolithin A induces mitophagy and prolongs lifespan in C. elegans and increases muscle function in rodents. <i>Nature Medicine</i> , <b>2016</b> , 22, 879-88	50.5	450
201	Metabolomics-assisted proteomics identifies succinylation and SIRT5 as important regulators of cardiac function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 4320-5	11.5	169
200	KAT2B Is Required for Pancreatic Beta Cell Adaptation to Metabolic Stress by Controlling the Unfolded Protein Response. <i>Cell Reports</i> , <b>2016</b> , 15, 1051-1061	10.6	10
199	Two Conserved Histone Demethylases Regulate Mitochondrial Stress-Induced Longevity. <i>Cell</i> , <b>2016</b> , 165, 1209-1223	56.2	204
198	NAD <sup>+</sup> repletion improves mitochondrial and stem cell function and enhances life span in mice. <i>Science</i> , <b>2016</b> , 352, 1436-43	33.3	645
197	Mild endothelial dysfunction in Sirt3 knockout mice fed a high-cholesterol diet: protective role of a novel C/EBP $\beta$ -dependent feedback regulation of SOD2. <i>Basic Research in Cardiology</i> , <b>2016</b> , 111, 33	11.8	20
196	The Movement Tracker: A Flexible System for Automated Movement Analysis in Invertebrate Model Organisms. <i>Current Protocols in Neuroscience</i> , <b>2016</b> , 77, 8.37.1-8.37.21	2.7	10

195	The Convergence of Systems and Reductionist Approaches in Complex Trait Analysis. <i>Cell</i> , <b>2015</b> , 162, 23-32	56.2	47
194	Protective effects of sirtuins in cardiovascular diseases: from bench to bedside. <i>European Heart Journal</i> , <b>2015</b> , 36, 3404-12	9.5	264
193	NAD(+) Metabolism and the Control of Energy Homeostasis: A Balancing Act between Mitochondria and the Nucleus. <i>Cell Metabolism</i> , <b>2015</b> , 22, 31-53	24.6	762
192	Gene expression mapping of histone deacetylases and co-factors, and correlation with survival time and 1H-HRMAS metabolomic profile in human gliomas. <i>Scientific Reports</i> , <b>2015</b> , 5, 9087	4.9	21
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3	The expanded BXD family of mice: A cohort for experimental systems genetics and precision medicine		15
2	Gene-by-environmental modulation of longevity and weight gain in the murine BXD family		5
1	GCN5 Maintains Muscle Integrity by Acetylating YY1 to Promote Dystrophin Expression		1