Laurent Mouchiroud

List of Publications by Year
in descending order

34 papers	5,888 citations	257101 24 h-index	414034 32 g-index
36 all docs	36 docs citations	36 times ranked	9885 citing authors

#	Article	IF	Citations
1	The NAD+/Sirtuin Pathway Modulates Longevity through Activation of Mitochondrial UPR and FOXO Signaling. Cell, 2013, 154, 430-441.	13.5	951
2	Mitonuclear protein imbalance as a conserved longevity mechanism. Nature, 2013, 497, 451-457.	13.7	846
3	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
4	Enhancing mitochondrial proteostasis reduces amyloid-Î2 proteotoxicity. Nature, 2017, 552, 187-193.	13.7	471
5	Tetracyclines Disturb Mitochondrial Function across Eukaryotic Models: A Call for Caution in Biomedical Research. Cell Reports, 2015, 10, 1681-1691.	2.9	385
6	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
7	Two Conserved Histone Demethylases Regulate Mitochondrial Stress-Induced Longevity. Cell, 2016, 165, 1209-1223.	13.5	279
8	Emerging roles of the corepressors NCoR1 and SMRT in homeostasis. Genes and Development, 2013, 27, 819-835.	2.7	243
9	NCoR1 Is a Conserved Physiological Modulator of Muscle Mass and Oxidative Function. Cell, 2011, 147, 827-839.	13.5	228
10	Pharmacological Inhibition of Poly(ADP-Ribose) Polymerases Improves Fitness and Mitochondrial Function in Skeletal Muscle. Cell Metabolism, 2014, 19, 1034-1041.	7.2	211
11	NAD ⁺ repletion improves muscle function in muscular dystrophy and counters global PARylation. Science Translational Medicine, 2016, 8, 361ra139.	5.8	208
12	NAD⁺metabolism: A therapeutic target for age-related metabolic disease. Critical Reviews in Biochemistry and Molecular Biology, 2013, 48, 397-408.	2.3	163
13	A screening-based platform for the assessment of cellular respiration in Caenorhabditis elegans. Nature Protocols, 2016, 11, 1798-1816.	5.5	133
14	Tetracycline Antibiotics Impair Mitochondrial Function and Its Experimental Use Confounds Research. Cancer Research, 2015, 75, 4446-4449.	0.4	112
15	Transcriptional Coregulators: Fine-Tuning Metabolism. Cell Metabolism, 2014, 20, 26-40.	7.2	89
16	Pyruvate imbalance mediates metabolic reprogramming and mimics lifespan extension by dietary restriction in Caenorhabditis elegans. Aging Cell, 2011, 10, 39-54.	3.0	74
17	A homozygous missense mutation in ERAL1, encoding a mitochondrial rRNA chaperone, causes Perrault syndrome. Human Molecular Genetics, 2017, 26, 2541-2550.	1.4	61
18	An automated microfluidic platform for C. elegans embryo arraying, phenotyping, and long-term live imaging. Scientific Reports, 2015, 5, 10192.	1.6	57

#	Article	IF	Citations
19	A Novel Role for the SMG-1 Kinase in Lifespan and Oxidative Stress Resistance in Caenorhabditis elegans. PLoS ONE, 2008, 3, e3354.	1.1	56
20	An Evolutionarily Conserved Role for the Aryl Hydrocarbon Receptor in the Regulation of Movement. PLoS Genetics, 2014, 10, e1004673.	1.5	50
21	A method to identify and validate mitochondrial modulators using mammalian cells and the worm C. elegans. Scientific Reports, 2014, 4, 5285.	1.6	42
22	Automated longitudinal monitoring of in vivo protein aggregation in neurodegenerative disease C. elegans models. Molecular Neurodegeneration, 2016, 11, 17.	4.4	42
23	Loss of Sirt1 Function Improves Intestinal Anti-Bacterial Defense and Protects from Colitis-Induced Colorectal Cancer. PLoS ONE, 2014, 9, e102495.	1.1	41
24	Metabolomics Analysis Uncovers That Dietary Restriction Buffers Metabolic Changes Associated with Aging in Caenorhabditis elegans. Journal of Proteome Research, 2014, 13, 2910-2919.	1.8	40
25	TBK1 phosphorylates mutant Huntingtin and suppresses its aggregation and toxicity in Huntington's disease models. EMBO Journal, 2020, 39, e104671.	3.5	34
26	Microfluidics-enabled phenotyping of a whole population of C. elegans worms over their embryonic and post-embryonic development at single-organism resolution. Microsystems and Nanoengineering, 2018, 4, 6.	3.4	26
27	Deguelin exerts potent nematocidal activity via the mitochondrial respiratory chain. FASEB Journal, 2017, 31, 4515-4532.	0.2	25
28	Reversible and long-term immobilization in a hydrogel-microbead matrix for high-resolution imaging of Caenorhabditis elegans and other small organisms. PLoS ONE, 2018, 13, e0193989.	1.1	25
29	The Movement Tracker: A Flexible System for Automated Movement Analysis in Invertebrate Model Organisms. Current Protocols in Neuroscience, 2016, 77, 8.37.1-8.37.21.	2.6	15
30	Type 5 adenylyl cyclase disruption leads to enhanced exercise performance. Aging Cell, 2015, 14, 1075-1084.	3.0	13
31	Multimodal imaging and high-throughput image-processing for drug screening on living organisms on-chip. Journal of Biomedical Optics, 2018, 24, 1.	1.4	8
32	Label-free three-dimensional imaging of Caenorhabditis elegans with visible optical coherence microscopy. PLoS ONE, 2017, 12, e0181676.	1.1	3
33	Automated High-Content Phenotyping of the Nematode C. Elegans at Single Animal Resolution with a Microfluidic Platform. , 2019, , .		1
34	A microfluidic array for high-content screening at whole-organism resolution. , 2018, , .		1