

# Laurent Mouchiroud

## List of Publications by Year in descending order

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Version: 2024-02-01

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	TBK1 phosphorylates mutant Huntingtin and suppresses its aggregation and toxicity in Huntington's disease models. <i>EMBO Journal</i> , 2020, 39, e104671.	3.5	34
2	Automated High-Content Phenotyping of the Nematode <i>C. Elegans</i> at Single Animal Resolution with a Microfluidic Platform. , 2019, , .		1
3	Microfluidics-enabled phenotyping of a whole population of <i>C. elegans</i> worms over their embryonic and post-embryonic development at single-organism resolution. <i>Microsystems and Nanoengineering</i> , 2018, 4, 6.	3.4	26
4	Multimodal imaging and high-throughput image-processing for drug screening on living organisms on-chip. <i>Journal of Biomedical Optics</i> , 2018, 24, 1.	1.4	8
5	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> , 2018, 13, e0193989.	1.1	25
6	A microfluidic array for high-content screening at whole-organism resolution. , 2018, , .		1
7	A homozygous missense mutation in <i>ERAL1</i> , encoding a mitochondrial rRNA chaperone, causes Perrault syndrome. <i>Human Molecular Genetics</i> , 2017, 26, 2541-2550.	1.4	61
8	Deguelin exerts potent nematocidal activity via the mitochondrial respiratory chain. <i>FASEB Journal</i> , 2017, 31, 4515-4532.	0.2	25
9	Label-free three-dimensional imaging of <i>Caenorhabditis elegans</i> with visible optical coherence microscopy. <i>PLoS ONE</i> , 2017, 12, e0181676.	1.1	3
10	Enhancing mitochondrial proteostasis reduces amyloid- $\beta^2$ proteotoxicity. <i>Nature</i> , 2017, 552, 187-193.	13.7	471
11	Urolithin A induces mitophagy and prolongs lifespan in <i>C. elegans</i> and increases muscle function in rodents. <i>Nature Medicine</i> , 2016, 22, 879-888.	15.2	668
12	Two Conserved Histone Demethylases Regulate Mitochondrial Stress-Induced Longevity. <i>Cell</i> , 2016, 165, 1209-1223.	13.5	279
13	The Movement Tracker: A Flexible System for Automated Movement Analysis in Invertebrate Model Organisms. <i>Current Protocols in Neuroscience</i> , 2016, 77, 8.37.1-8.37.21.	2.6	15
14	A screening-based platform for the assessment of cellular respiration in <i>Caenorhabditis elegans</i> . <i>Nature Protocols</i> , 2016, 11, 1798-1816.	5.5	133
15	NAD <sup>+</sup> repletion improves muscle function in muscular dystrophy and counters global PARylation. <i>Science Translational Medicine</i> , 2016, 8, 361ra139.	5.8	208
16	Automated longitudinal monitoring of in vivo protein aggregation in neurodegenerative disease <i>C. elegans</i> models. <i>Molecular Neurodegeneration</i> , 2016, 11, 17.	4.4	42
17	Type 5 adenylyl cyclase disruption leads to enhanced exercise performance. <i>Aging Cell</i> , 2015, 14, 1075-1084.	3.0	13
18	An automated microfluidic platform for <i>C. elegans</i> embryo arraying, phenotyping, and long-term live imaging. <i>Scientific Reports</i> , 2015, 5, 10192.	1.6	57

#	ARTICLE	IF	CITATIONS
19	Tetracyclines Disturb Mitochondrial Function across Eukaryotic Models: A Call for Caution in Biomedical Research. <i>Cell Reports</i> , 2015, 10, 1681-1691.	2.9	385
20	Tetracycline Antibiotics Impair Mitochondrial Function and Its Experimental Use Confounds Research. <i>Cancer Research</i> , 2015, 75, 4446-4449.	0.4	112
21	Loss of Sirt1 Function Improves Intestinal Anti-Bacterial Defense and Protects from Colitis-Induced Colorectal Cancer. <i>PLoS ONE</i> , 2014, 9, e102495.	1.1	41
22	An Evolutionarily Conserved Role for the Aryl Hydrocarbon Receptor in the Regulation of Movement. <i>PLoS Genetics</i> , 2014, 10, e1004673.	1.5	50
23	A method to identify and validate mitochondrial modulators using mammalian cells and the worm <i>C. elegans</i> . <i>Scientific Reports</i> , 2014, 4, 5285.	1.6	42
24	Transcriptional Coregulators: Fine-Tuning Metabolism. <i>Cell Metabolism</i> , 2014, 20, 26-40.	7.2	89
25	Pharmacological Inhibition of Poly(ADP-Ribose) Polymerases Improves Fitness and Mitochondrial Function in Skeletal Muscle. <i>Cell Metabolism</i> , 2014, 19, 1034-1041.	7.2	211
26	The mitochondrial unfolded protein response, a conserved stress response pathway with implications in health and disease. <i>Journal of Experimental Biology</i> , 2014, 217, 137-143.	0.8	284
27	Metabolomics Analysis Uncovered That Dietary Restriction Buffers Metabolic Changes Associated with Aging in <i>Caenorhabditis elegans</i> . <i>Journal of Proteome Research</i> , 2014, 13, 2910-2919.	1.8	40
28	The NAD <sup>+</sup> /Sirtuin Pathway Modulates Longevity through Activation of Mitochondrial UPR and FOXO Signaling. <i>Cell</i> , 2013, 154, 430-441.	13.5	951
29	NAD <sup>+</sup> metabolism: A therapeutic target for age-related metabolic disease. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2013, 48, 397-408.	2.3	163
30	Mitochondrial protein imbalance as a conserved longevity mechanism. <i>Nature</i> , 2013, 497, 451-457.	13.7	846
31	Emerging roles of the corepressors NCoR1 and SMRT in homeostasis. <i>Genes and Development</i> , 2013, 27, 819-835.	2.7	243
32	NCoR1 Is a Conserved Physiological Modulator of Muscle Mass and Oxidative Function. <i>Cell</i> , 2011, 147, 827-839.	13.5	228
33	Pyruvate imbalance mediates metabolic reprogramming and mimics lifespan extension by dietary restriction in <i>Caenorhabditis elegans</i> . <i>Aging Cell</i> , 2011, 10, 39-54.	3.0	74
34	A Novel Role for the SMG-1 Kinase in Lifespan and Oxidative Stress Resistance in <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , 2008, 3, e3354.	1.1	56