

# Laurent Mouchiroud

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/10392255/laurent-mouchiroud-publications-by-citations.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

35  
papers

4,321  
citations

24  
h-index

36  
g-index

36  
ext. papers

5,228  
ext. citations

16.8  
avg, IF

5.22  
L-index

#	Paper	IF	Citations
35	The NAD(+)/Sirtuin Pathway Modulates Longevity through Activation of Mitochondrial UPR and FOXO Signaling. <i>Cell</i> , <b>2013</b> , 154, 430-41	56.2	747
34	Mitonuclear protein imbalance as a conserved longevity mechanism. <i>Nature</i> , <b>2013</b> , 497, 451-7	50.4	656
33	Urolithin A induces mitophagy and prolongs lifespan in <i>C. elegans</i> and increases muscle function in rodents. <i>Nature Medicine</i> , <b>2016</b> , 22, 879-88	50.5	450
32	Enhancing mitochondrial proteostasis reduces amyloid- $\beta$ proteotoxicity. <i>Nature</i> , <b>2017</b> , 552, 187-193	50.4	291
31	Tetracyclines Disturb Mitochondrial Function across Eukaryotic Models: A Call for Caution in Biomedical Research. <i>Cell Reports</i> , <b>2015</b> , 10, 1681-1691	10.6	280
30	The mitochondrial unfolded protein response, a conserved stress response pathway with implications in health and disease. <i>Journal of Experimental Biology</i> , <b>2014</b> , 217, 137-43	3	223
29	Two Conserved Histone Demethylases Regulate Mitochondrial Stress-Induced Longevity. <i>Cell</i> , <b>2016</b> , 165, 1209-1223	56.2	204
28	Pharmacological Inhibition of poly(ADP-ribose) polymerases improves fitness and mitochondrial function in skeletal muscle. <i>Cell Metabolism</i> , <b>2014</b> , 19, 1034-41	24.6	175
27	NCoR1 is a conserved physiological modulator of muscle mass and oxidative function. <i>Cell</i> , <b>2011</b> , 147, 827-39	56.2	170
26	Emerging roles of the corepressors NCoR1 and SMRT in homeostasis. <i>Genes and Development</i> , <b>2013</b> , 27, 819-35	12.6	169
25	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
24	NAD <sup>+</sup> metabolism: a therapeutic target for age-related metabolic disease. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , <b>2013</b> , 48, 397-408	8.7	144
23	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
22	Tetracycline antibiotics impair mitochondrial function and its experimental use confounds research. <i>Cancer Research</i> , <b>2015</b> , 75, 4446-9	10.1	70
21	Transcriptional coregulators: fine-tuning metabolism. <i>Cell Metabolism</i> , <b>2014</b> , 20, 26-40	24.6	66
20	Pyruvate imbalance mediates metabolic reprogramming and mimics lifespan extension by dietary restriction in <i>Caenorhabditis elegans</i> . <i>Aging Cell</i> , <b>2011</b> , 10, 39-54	9.9	58
19	A novel role for the SMG-1 kinase in lifespan and oxidative stress resistance in <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , <b>2008</b> , 3, e3354	3.7	47

18	An automated microfluidic platform for <i>C. elegans</i> embryo arraying, phenotyping, and long-term live imaging. <i>Scientific Reports</i> , <b>2015</b> , 5, 10192	4.9	44
17	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
16	A method to identify and validate mitochondrial modulators using mammalian cells and the worm <i>C. elegans</i> . <i>Scientific Reports</i> , <b>2014</b> , 4, 5285	4.9	39
15	An evolutionarily conserved role for the aryl hydrocarbon receptor in the regulation of movement. <i>PLoS Genetics</i> , <b>2014</b> , 10, e1004673	6	36
14	Automated longitudinal monitoring of in vivo protein aggregation in neurodegenerative disease <i>C. elegans</i> models. <i>Molecular Neurodegeneration</i> , <b>2016</b> , 11, 17	19	32
13	Loss of Sirt1 function improves intestinal anti-bacterial defense and protects from colitis-induced colorectal cancer. <i>PLoS ONE</i> , <b>2014</b> , 9, e102495	3.7	30
12	Metabolomics analysis uncovers that dietary restriction buffers metabolic changes associated with aging in <i>Caenorhabditis elegans</i> . <i>Journal of Proteome Research</i> , <b>2014</b> , 13, 2910-9	5.6	26
11	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
10	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
9	TBK1 phosphorylates mutant Huntingtin and suppresses its aggregation and toxicity in Huntington's disease models. <i>EMBO Journal</i> , <b>2020</b> , 39, e104671	13	15
8	Deguelin exerts potent nematocidal activity the mitochondrial respiratory chain. <i>FASEB Journal</i> , <b>2017</b> , 31, 4515-4532	0.9	14
7	Type 5 adenylyl cyclase disruption leads to enhanced exercise performance. <i>Aging Cell</i> , <b>2015</b> , 14, 1075-84	4.9	11
6	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
5	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
4	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
3	Automated High-Content Phenotyping of the Nematode <i>C. Elegans</i> at Single Animal Resolution with a Microfluidic Platform <b>2019</b> ,		1
2	A microfluidic array for high-content screening at whole-organism resolution <b>2018</b> ,		1
1	A homozygous missense mutation in ERAL1, encoding a mitochondrial rRNA chaperone, causes Perrault syndrome		1

