

Laurent Mouchiroud

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.

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	TBK1 phosphorylates mutant Huntingtin and suppresses its aggregation and toxicity in Huntington's disease models. <i>EMBO Journal</i> , 2020 , 39, e104671	13	15
34	Automated High-Content Phenotyping of the Nematode <i>C. Elegans</i> at Single Animal Resolution with a Microfluidic Platform 2019 ,		1
33	Multimodal imaging and high-throughput image-processing for drug screening on living organisms on-chip. <i>Journal of Biomedical Optics</i> , 2018 , 24, 1-9	3.5	4
32	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	3.7	15
31	A microfluidic array for high-content screening at whole-organism resolution 2018 ,		1
30	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> , 2018 , 4, 6	7.7	16
29	A homozygous missense mutation in ERAL1, encoding a mitochondrial rRNA chaperone, causes Perrault syndrome. <i>Human Molecular Genetics</i> , 2017 , 26, 2541-2550	5.6	43
28	Label-free three-dimensional imaging of <i>Caenorhabditis elegans</i> with visible optical coherence microscopy. <i>PLoS ONE</i> , 2017 , 12, e0181676	3.7	2
27	Deguelin exerts potent nematocidal activity the mitochondrial respiratory chain. <i>FASEB Journal</i> , 2017 , 31, 4515-4532	0.9	14
26	Enhancing mitochondrial proteostasis reduces amyloid- β proteotoxicity. <i>Nature</i> , 2017 , 552, 187-193	50.4	291
25	A screening-based platform for the assessment of cellular respiration in <i>Caenorhabditis elegans</i> . <i>Nature Protocols</i> , 2016 , 11, 1798-816	18.8	79
24	NAD ⁺ repletion improves muscle function in muscular dystrophy and counters global PARylation. <i>Science Translational Medicine</i> , 2016 , 8, 361ra139	17.5	152
23	Automated longitudinal monitoring of in vivo protein aggregation in neurodegenerative disease <i>C. elegans</i> models. <i>Molecular Neurodegeneration</i> , 2016 , 11, 17	19	32
22	Urolithin A induces mitophagy and prolongs lifespan in <i>C. elegans</i> and increases muscle function in rodents. <i>Nature Medicine</i> , 2016 , 22, 879-88	50.5	450
21	Two Conserved Histone Demethylases Regulate Mitochondrial Stress-Induced Longevity. <i>Cell</i> , 2016 , 165, 1209-1223	56.2	204
20	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	2.7	10
19	Tetracyclines Disturb Mitochondrial Function across Eukaryotic Models: A Call for Caution in Biomedical Research. <i>Cell Reports</i> , 2015 , 10, 1681-1691	10.6	280

18	Tetracycline antibiotics impair mitochondrial function and its experimental use confounds research. <i>Cancer Research</i> , 2015 , 75, 4446-9	10.1	70
17	Type 5 adenylyl cyclase disruption leads to enhanced exercise performance. <i>Aging Cell</i> , 2015 , 14, 1075-84	9.9	11
16	An automated microfluidic platform for C. elegans embryo arraying, phenotyping, and long-term live imaging. <i>Scientific Reports</i> , 2015 , 5, 10192	4.9	44
15	Transcriptional coregulators: fine-tuning metabolism. <i>Cell Metabolism</i> , 2014 , 20, 26-40	24.6	66
14	Pharmacological Inhibition of poly(ADP-ribose) polymerases improves fitness and mitochondrial function in skeletal muscle. <i>Cell Metabolism</i> , 2014 , 19, 1034-41	24.6	175
13	The mitochondrial unfolded protein response, a conserved stress response pathway with implications in health and disease. <i>Journal of Experimental Biology</i> , 2014 , 217, 137-43	3	223
12	Metabolomics analysis uncovers that dietary restriction buffers metabolic changes associated with aging in Caenorhabditis elegans. <i>Journal of Proteome Research</i> , 2014 , 13, 2910-9	5.6	26
11	Loss of Sirt1 function improves intestinal anti-bacterial defense and protects from colitis-induced colorectal cancer. <i>PLoS ONE</i> , 2014 , 9, e102495	3.7	30
10	An evolutionarily conserved role for the aryl hydrocarbon receptor in the regulation of movement. <i>PLoS Genetics</i> , 2014 , 10, e1004673	6	36
9	A method to identify and validate mitochondrial modulators using mammalian cells and the worm C. elegans. <i>Scientific Reports</i> , 2014 , 4, 5285	4.9	39
8	The NAD(+)/Sirtuin Pathway Modulates Longevity through Activation of Mitochondrial UPR and FOXO Signaling. <i>Cell</i> , 2013 , 154, 430-41	56.2	747
7	NAD+ metabolism: a therapeutic target for age-related metabolic disease. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2013 , 48, 397-408	8.7	144
6	Mitochondrial protein imbalance as a conserved longevity mechanism. <i>Nature</i> , 2013 , 497, 451-7	50.4	656
5	Emerging roles of the corepressors NCoR1 and SMRT in homeostasis. <i>Genes and Development</i> , 2013 , 27, 819-35	12.6	169
4	NCoR1 is a conserved physiological modulator of muscle mass and oxidative function. <i>Cell</i> , 2011 , 147, 827-39	56.2	170
3	Pyruvate imbalance mediates metabolic reprogramming and mimics lifespan extension by dietary restriction in Caenorhabditis elegans. <i>Aging Cell</i> , 2011 , 10, 39-54	9.9	58
2	A novel role for the SMG-1 kinase in lifespan and oxidative stress resistance in Caenorhabditis elegans. <i>PLoS ONE</i> , 2008 , 3, e3354	3.7	47
1	A homozygous missense mutation in ERAL1, encoding a mitochondrial rRNA chaperone, causes Perrault syndrome		1

