Ao-Lin Hsu

List of Publications by Year
in descending order

40 papers	5,382 citations	361413 20 h-index	302126 39 g-index
42 all docs	42 docs citations	42 times ranked	5510 citing authors

#	Article	IF	Citations
1	SAMS-1 coordinates HLH-30/TFEB and PHA-4/FOXA activities through histone methylation to mediate dietary restriction-induced autophagy and longevity. Autophagy, 2023, 19, 224-240.	9.1	3
2	Development of a traditional Chinese medicineâ€based agent for the treatment of cancer cachexia. Journal of Cachexia, Sarcopenia and Muscle, 2022, 13, 2073-2087.	7.3	10
3	Using Convolutional Neural Networks to Measure the Physiological Age of Caenorhabditis elegans. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 2724-2732.	3.0	11
4	Caenorhabditis elegans learning in a structured maze is a multisensory behavior. IScience, 2021, 24, 102284.	4.1	19
5	A maze platform for the assessment of Caenorhabditis elegans behavior and learning. STAR Protocols, 2021, 2, 100829.	1.2	2
6	High-throughput small molecule screening reveals Nrf2-dependent and -independent pathways of cellular stress resistance. Science Advances, 2020, 6, .	10.3	12
7	HSB-1/HSF-1 pathway modulates histone H4 in mitochondria to control mtDNA transcription and longevity. Science Advances, 2020, 6, .	10.3	21
8	Short-term enhancement of motor neuron synaptic exocytosis during early aging extends lifespan in Caenorhabditis elegans. Experimental Biology and Medicine, 2020, 245, 1552-1559.	2.4	3
9	AMPKâ€mediated formation of stress granules is required for dietary restrictionâ€induced longevity in Caenorhabditis elegans. Aging Cell, 2020, 19, e13157.	6.7	23
10	S-adenosyl methionine synthetase SAMS-5 mediates dietary restriction-induced longevity in Caenorhabditis elegans. PLoS ONE, 2020, 15, e0241455.	2.5	7
11	HSB-1 Inhibition and HSF-1 Overexpression Trigger Overlapping Transcriptional Changes To Promote Longevity in Caenorhabditis elegans. G3: Genes, Genomes, Genetics, 2019, 9, 1679-1692.	1.8	21
12	DAFâ€16 stabilizes the aging transcriptome and is activated in midâ€aged Caenorhabditis elegans to cope with internal stress. Aging Cell, 2019, 18, e12896.	6.7	53
13	Genetic and pharmacological interventions in the aging motor nervous system slow motor aging and extend life span in C. elegans. Science Advances, 2019, 5, eaau5041.	10.3	16
14	Prefoldin 6 mediates longevity response from heat shock factor 1 to FOXO in C. elegans. Genes and Development, 2018, 32, 1562-1575.	5.9	26
15	Approach to the Caenorhabditis Elegans Segmentation from Its Microscopic Image. , 2018, , .		2
16	Reciprocal Changes in Phosphoenolpyruvate Carboxykinase and Pyruvate Kinase with Age Are a Determinant of Aging in Caenorhabditis elegans. Journal of Biological Chemistry, 2016, 291, 1307-1319.	3.4	27
17	Environmental Temperature Differentially Modulates C.Âelegans Longevity through a Thermosensitive TRP Channel. Cell Reports, 2015, 11, 1414-1424.	6.4	81
18	Monitoring Newly Synthesized Proteins over the Adult Life Span of Caenorhabditis elegans. Journal of Proteome Research, 2015, 14, 1483-1494.	3.7	23

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19	Co-chaperone p23 Regulates C. elegans Lifespan in Response to Temperature. PLoS Genetics, 2015, 11, e1005023.	3.5	37
20	Analysis of lifespan-promoting effect of garlic extract by an integrated metabolo-proteomics approach. Journal of Nutritional Biochemistry, 2015, 26, 808-817.	4.2	20
21	Integrinâ€linked kinase modulates longevity and thermotolerance in C. elegans through neuronal control of <scp>HSF</scp>â€1. Aging Cell, 2014, 13, 419-430.	6.7	42
22	Functional Aging in the Nervous System Contributes to Age-Dependent Motor Activity Decline in C.Âelegans. Cell Metabolism, 2013, 18, 392-402.	16.2	117
23	C. elegans SIRT6/7 Homolog SIR-2.4 Promotes DAF-16 Relocalization and Function during Stress. PLoS Genetics, 2012, 8, e1002948.	3.5	58
24	Enhanced Energy Metabolism Contributes to the Extended Life Span of Calorie-restricted Caenorhabditis elegans. Journal of Biological Chemistry, 2012, 287, 31414-31426.	3.4	60
25	HSF-1 Regulators DDL-1/2 Link Insulin-like Signaling to Heat-Shock Responses and Modulation of Longevity. Cell, 2012, 148, 322-334.	28.9	201
26	Solid Plate-based Dietary Restriction in Caenorhabditis elegans. Journal of Visualized Experiments, 2011, , .	0.3	12
27	Celecoxib extends C.Âelegans lifespan via inhibition of insulin-like signaling but not cyclooxygenase-2 activity. Aging Cell, 2011, 10, 506-519.	6.7	42
28	drrâ€2 encodes an eIF4H that acts downstream of TOR in dietâ€restrictionâ€induced longevity of C.Âelegans. Aging Cell, 2010, 9, 545-557.	6.7	50
29	Identification by machine vision of the rate of motor activity decline as a lifespan predictor in C. elegans. Neurobiology of Aging, 2009, 30, 1498-1503.	3.1	92
30	New Genes Tied to Endocrine, Metabolic, and Dietary Regulation of Lifespan from a Caenorhabditis elegans Genomic RNAi Screen. PLoS Genetics, 2005, 1, e17.	3.5	467
31	Regulation of Aging and Age-Related Disease by DAF-16 and Heat-Shock Factor. Science, 2003, 300, 1142-1145.	12.6	1,346
32	Rates of Behavior and Aging Specified by Mitochondrial Function During Development. Science, 2002, 298, 2398-2401.	12.6	974
33	Genetic Analysis of Tissue Aging in Caenorhabditis elegans: A Role for Heat-Shock Factor and Bacterial Proliferation. Genetics, 2002, 161, 1101-1112.	2.9	718
34	A phosphatidylinositol 3,4,5-trisphosphate analogue with low serum protein-binding affinity. Bioorganic and Medicinal Chemistry, 2001, 9, 133-139.	3.0	10
35	Phosphoinositide 3-Kinase Facilitates Antigen-stimulated Ca2+ Influx in RBL-2H3 Mast Cells via a Phosphatidylinositol 3,4,5-Trisphosphate-sensitive Ca2+Entry Mechanism. Journal of Biological Chemistry, 2001, 276, 14814-14820.	3.4	79
36	Novel Function of Phosphoinositide 3-Kinase in T Cell Ca2+ Signaling. Journal of Biological Chemistry, 2000, 275, 16242-16250.	3.4	54

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37	The Cyclooxygenase-2 Inhibitor Celecoxib Induces Apoptosis by Blocking Akt Activation in Human Prostate Cancer Cells Independently of Bcl-2. Journal of Biological Chemistry, 2000, 275, 11397-11403.	3.4	596
38	Identification of Multiple Phosphoinositide-specific Phospholipases D as New Regulatory Enzymes for Phosphatidylinositol 3,4,5-Trisphosphate. Journal of Biological Chemistry, 1999, 274, 8611-8617.	3.4	22
39	Molecular Recognition at the Phosphatidylinositol 3,4,5-Trisphosphate-Binding Site. Studies Using the Permuted Isomers of Phosphatidylinositol Trisphosphate. Journal of Organic Chemistry, 1998, 63, 5430-5437.	3.2	13
40	Regulation of Nuclear Calcium Uptake by Inositol Phosphates and External Calcium. Biochemical and Biophysical Research Communications, 1998, 243, 653-656.	2.1	12