William B Mair

List of Publications by Year
in descending order

42 papers	8,034 citations	159585 30 h-index	276875 41 g-index
63 all docs	63 docs citations	63 times ranked	13677 citing authors

#	Article	IF	Citations
1	Phosphorylation of ULK1 (hATG1) by AMP-Activated Protein Kinase Connects Energy Sensing to Mitophagy. Science, 2011, 331, 456-461.	12.6	2,107
2	Aging and Survival: The Genetics of Life Span Extension by Dietary Restriction. Annual Review of Biochemistry, 2008, 77, 727-754.	11.1	552
3	Demography of Dietary Restriction and Death in Drosophila. Science, 2003, 301, 1731-1733.	12.6	480
4	Endogenous Hydrogen Sulfide Production Is Essential for Dietary Restriction Benefits. Cell, 2015, 160, 132-144.	28.9	449
5	Calories Do Not Explain Extension of Life Span by Dietary Restriction in Drosophila. PLoS Biology, 2005, 3, e223.	5.6	442
6	Chromatin-Bound Nuclear Pore Components Regulate Gene Expression in Higher Eukaryotes. Cell, 2010, 140, 372-383.	28.9	399
7	AMPK at the Nexus of Energetics and Aging. Cell Metabolism, 2014, 20, 10-25.	16.2	347
8	Lifespan extension induced by AMPK and calcineurin is mediated by CRTC-1 and CREB. Nature, 2011, 470, 404-408.	27.8	339
9	Dietary restriction in Drosophila. Mechanisms of Ageing and Development, 2005, 126, 938-950.	4.6	304
10	Hepatic Bmal1 Regulates Rhythmic Mitochondrial Dynamics and Promotes Metabolic Fitness. Cell Metabolism, 2015, 22, 709-720.	16.2	280
11	Dietary Restriction and AMPK Increase Lifespan via Mitochondrial Network and Peroxisome Remodeling. Cell Metabolism, 2017, 26, 884-896.e5.	16.2	265
12	Mono-unsaturated fatty acids link H3K4me3 modifiers to C. elegans lifespan. Nature, 2017, 544, 185-190.	27.8	245
13	You Are What You Host: Microbiome Modulation of the Aging Process. Cell, 2014, 156, 408-411.	28.9	213
14	Neuronal CRTC-1 Governs Systemic Mitochondrial Metabolism and Lifespan via a Catecholamine Signal. Cell, 2015, 160, 842-855.	28.9	175
15	Splicing factor 1 modulates dietary restriction and TORC1 pathway longevity in C. elegans. Nature, 2017, 541, 102-106.	27.8	152
16	Feedback regulation via AMPK and HIF-1 mediates ROS-dependent longevity in Caenorhabditis elegans. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E4458-67.	7.1	151
17	Causal roles of mitochondrial dynamics in longevity and healthy aging. EMBO Reports, 2019, 20, e48395.	4.5	114
18	Alternative splicing in aging and longevity. Human Genetics, 2020, 139, 357-369.	3.8	108

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19	Dietary restriction, mortality trajectories, risk and damage. Mechanisms of Ageing and Development, 2005, 126, 35-41.	4.6	96
20	Lifespan extension by dietary restriction in female Drosophila melanogaster is not caused by a reduction in vitellogenesis or ovarian activity. Experimental Gerontology, 2004, 39, 1011-1019.	2.8	85
21	Neuronal TORC1 modulates longevity via AMPK and cell nonautonomous regulation of mitochondrial dynamics in C. elegans. ELife, 2019, 8, .	6.0	75
22	Optimizing Dietary Restriction for Genetic Epistasis Analysis and Gene Discovery in C. elegans. PLoS ONE, 2009, 4, e4535.	2.5	74
23	Counting the Calories: The Role of Specific Nutrients in Extension of Life Span by Food Restriction. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2005, 60, 549-555.	3.6	73
24	A Systems Approach to Reverse Engineer Lifespan Extension by Dietary Restriction. Cell Metabolism, 2016, 23, 529-540.	16.2	67
25	Single-Copy Knock-In Loci for Defined Gene Expression inCaenorhabditis elegans. G3: Genes, Genomes, Genetics, 2019, 9, 2195-2198.	1.8	57
26	Metabolic Communication and Healthy Aging: Where Should We Focus Our Energy?. Developmental Cell, 2020, 54, 196-211.	7.0	55
27	Dietary restriction enhances germline stem cell maintenance. Aging Cell, 2010, 9, 916-918.	6.7	43
28	Atf-6 Regulates Lifespan through ER-Mitochondrial Calcium Homeostasis. Cell Reports, 2020, 32, 108125.	6.4	43
29	ATF-4 and hydrogen sulfide signalling mediate longevity in response to inhibition of translation or mTORC1. Nature Communications, 2022, 13, 967.	12.8	40
30	Mitochondrial translation and dynamics synergistically extend lifespan in C. elegans through HLH-30. Journal of Cell Biology, 2020, 219, .	5.2	37
31	Deregulation of CRTCs in Aging and Age-Related Disease Risk. Trends in Genetics, 2017, 33, 303-321.	6.7	36
32	AMPK as a Pro-longevity Target. Exs, 2016, 107, 227-256.	1.4	31
33	Lysosome lipid signalling from the periphery to neurons regulates longevity. Nature Cell Biology, 2022, 24, 906-916.	10.3	30
34	Tipping the Energy Balance toward Longevity. Cell Metabolism, 2013, 17, 5-6.	16.2	9
35	Synthetic Ligands of Cannabinoid Receptors Affect Dauer Formation in the Nematode Caenorhabditis elegans. G3: Genes, Genomes, Genetics, 2016, 6, 1695-1705.	1.8	9
36	SnapShot: Neuronal Regulation of Aging. Cell, 2016, 166, 784-784.e1.	28.9	8

#	Article	IF	Citations
37	The next decade of metabolism. Nature Metabolism, 2019, 1, 2-4.	11.9	8
38	<scp>FLN</scp>â€1/filamin is required to anchor the actomyosin cytoskeleton and for global organization of subâ€cellular organelles in a contractile tissue. Cytoskeleton, 2020, 77, 379-398.	2.0	8
39	Predicting longevity responses to dietary restriction: A stepping stone toward precision geroscience. PLoS Genetics, 2020, 16, e1008833.	3.5	8
40	Dietary Restriction in C. elegans. Healthy Ageing and Longevity, 2017, , 355-391.	0.2	1
41	Remote but not isolated. Translational Medicine of Aging, 2020, 4, 86-87.	1.3	1
42	SIP-ing the Elixir of Youth. Cell, 2011, 146, 859-860.	28.9	0