Andrew Dillin

List of Publications by Citations

120 papers	18,137 citations	58 h-index	133 g-index
133 ext. papers	21,303 ext. citations	22.1 avg, IF	6.93 L-index

#	Paper	IF	Citations
120	Phosphorylation of ULK1 (hATG1) by AMP-activated protein kinase connects energy sensing to mitophagy. *Science*, **2011**, 331, 456-61	33.3	1746
119	Adapting proteostasis for disease intervention. *Science*, **2008**, 319, 916-9	33.3	1715
118	ULK1 induces autophagy by phosphorylating Beclin-1 and activating VPS34 lipid kinase. *Nature Cell Biology*, **2013**, 15, 741-50	23.4	1009
117	Biological and chemical approaches to diseases of proteostasis deficiency. *Annual Review of Biochemistry*, **2009**, 78, 959-91	29.1	854
116	Rates of behavior and aging specified by mitochondrial function during development. *Science*, **2002** , 298, 2398-401	33.3	827
115	The cell-non-autonomous nature of electron transport chain-mediated longevity. *Cell*, **2011**, 144, 79-91	56.2	702
114	Opposing activities protect against age-onset proteotoxicity. *Science*, **2006**, 313, 1604-10	33.3	701
113	Automated approach for quantitative analysis of complex peptide mixtures from tandem mass spectra. *Nature Methods*, **2004**, 1, 39-45	21.6	512
112	Aging and survival: the genetics of life span extension by dietary restriction. *Annual Review of Biochemistry*, **2008**, 77, 727-54	29.1	484
111	PHA-4/Foxa mediates diet-restriction-induced longevity of C. elegans. *Nature*, **2007**, 447, 550-5	50.4	429
110	The role of protein clearance mechanisms in organismal ageing and age-related diseases. *Nature Communications*, **2014**, 5, 5659	17.4	401
109	Reduced IGF-1 signaling delays age-associated proteotoxicity in mice. *Cell*, **2009**, 139, 1157-69	56.2	388
108	Timing requirements for insulin/IGF-1 signaling in C. elegans. *Science*, **2002**, 298, 830-4	33.3	372
107	Regulation of life-span by germ-line stem cells in Caenorhabditis elegans. *Science*, **2002**, 295, 502-5	33.3	365
106	XBP-1 is a cell-nonautonomous regulator of stress resistance and longevity. *Cell*, **2013**, 153, 1435-47	56.2	353
105	Aging as an event of proteostasis collapse. *Cold Spring Harbor Perspectives in Biology*, **2011**, 3,	10.2	319
104	The TFEB orthologue HLH-30 regulates autophagy and modulates longevity in Caenorhabditis elegans. *Nature Communications*, **2013**, 4, 2267	17.4	292

103	RPN-6 determines C. elegans longevity under proteotoxic stress conditions. *Nature*, **2012**, 489, 263-8	50.4	289
102	Increased proteasome activity in human embryonic stem cells is regulated by PSMD11. *Nature*, **2012**, 489, 304-8	50.4	286
101	Lifespan extension induced by AMPK and calcineurin is mediated by CRTC-1 and CREB. *Nature*, **2011**, 470, 404-8	50.4	274
100	Protein homeostasis and aging in neurodegeneration. *Journal of Cell Biology*, **2010**, 190, 719-29	7.3	261
99	Quantitative mass spectrometry identifies insulin signaling targets in C. elegans. *Science*, **2007**, 317, 660-3	33.3	260
98	The insulin paradox: aging, proteotoxicity and neurodegeneration. *Nature Reviews Neuroscience*, **2008**, 9, 759-67	13.5	248
97	DGAT1-Dependent Lipid Droplet Biogenesis Protects Mitochondrial Function during Starvation-Induced Autophagy. *Developmental Cell*, **2017**, 42, 9-21.e5	10.2	225
96	Two Conserved Histone Demethylases Regulate Mitochondrial Stress-Induced Longevity. *Cell*, **2016**, 165, 1209-1223	56.2	204
95	Mitochondrial Stress Induces Chromatin Reorganization to Promote Longevity and UPR(mt). *Cell*, **2016**, 165, 1197-1208	56.2	197
94	SMK-1, an essential regulator of DAF-16-mediated longevity. *Cell*, **2006**, 124, 1039-53	56.2	175
93	Differential scales of protein quality control. *Cell*, **2014**, 157, 52-64	56.2	172
92	Fine-tuning of Drp1/Fis1 availability by AKAP121/Siah2 regulates mitochondrial adaptation to hypoxia. *Molecular Cell*, **2011**, 44, 532-44	17.6	165
91	DAF-16 employs the chromatin remodeller SWI/SNF to promote stress resistance and longevity. *Nature Cell Biology*, **2013**, 15, 491-501	23.4	145
90	TRPV1 pain receptors regulate longevity and metabolism by neuropeptide signaling. *Cell*, **2014**, 157, 1023-36	56.2	143
89	The UPR: Sensor and Coordinator of Organismal Homeostasis. *Molecular Cell*, **2017**, 66, 761-771	17.6	138
88	Phosphorylation of LC3 by the Hippo kinases STK3/STK4 is essential for autophagy. *Molecular Cell*, **2015**, 57, 55-68	17.6	126
87	Walking the tightrope: proteostasis and neurodegenerative disease. *Journal of Neurochemistry*, **2016**, 137, 489-505	6	126
86	Lipid Biosynthesis Coordinates a Mitochondrial-to-Cytosolic Stress Response. *Cell*, **2016**, 166, 1539-1552.e16	56.2	120

85	HSF-1-mediated cytoskeletal integrity determines thermotolerance and life span. *Science*, **2014**, 346, 360-3	33.3	113
84	Neuroendocrine Coordination of Mitochondrial Stress Signaling and Proteostasis. *Cell*, **2016**, 166, 1553-1563.e10	56.2	112
83	Systemic stress signalling: understanding the cell non-autonomous control of proteostasis. *Nature Reviews Molecular Cell Biology*, **2014**, 15, 211-7	48.7	110
82	Signaling Networks Determining Life Span. *Annual Review of Biochemistry*, **2016**, 85, 35-64	29.1	109
81	A conserved ubiquitination pathway determines longevity in response to diet restriction. *Nature*, **2009**, 460, 396-9	50.4	104
80	Proteostasis and aging of stem cells. *Trends in Cell Biology*, **2014**, 24, 161-70	18.3	103
79	The Mitochondrial Unfolded Protein Response Is Mediated Cell-Non-autonomously by Retromer-Dependent Wnt Signaling. *Cell*, **2018**, 174, 870-883.e17	56.2	100
78	C. elegans telomeres contain G-strand and C-strand overhangs that are bound by distinct proteins. *Cell*, **2008**, 132, 745-57	56.2	95
77	The Sense of Smell Impacts Metabolic Health and Obesity. *Cell Metabolism*, **2017**, 26, 198-211.e5	24.6	93
76	Tipping the metabolic scales towards increased longevity in mammals. *Nature Cell Biology*, **2015**, 17, 196-203	23.4	90
75	The good and the bad of being connected: the integrons of aging. *Current Opinion in Cell Biology*, **2014**, 26, 107-12	9	90
74	The trifecta of aging in Caenorhabditis elegans. *Experimental Gerontology*, **2006**, 41, 894-903	4.5	89
73	Mitochondrial proteostasis in the context of cellular and organismal health and aging. *Journal of Biological Chemistry*, **2019**, 294, 5396-5407	5.4	83
72	A Ribosomal Perspective on Proteostasis and Aging. *Cell Metabolism*, **2016**, 23, 1004-1012	24.6	79
71	SMK-1/PPH-4.1 mediated silencing of the CHK-1 response to DNA damage in early C. elegans embryos. *Journal of Cell Biology*, **2009**, 184, 613-613	7.3	78
70	A Futile Battle? Protein Quality Control and the Stress of Aging. *Developmental Cell*, **2018**, 44, 139-163	10.2	73
69	Autophagy-mediated longevity is modulated by lipoprotein biogenesis. *Autophagy*, **2016**, 12, 261-72	10.2	73
68	Blood-brain barrier dysfunction in aging induces hyperactivation of TGF signaling and chronic yet reversible neural dysfunction. *Science Translational Medicine*, **2019**, 11,	17.5	72

67	The specifics of small interfering RNA specificity. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 6289-91	11.5	70
66	Optimizing dietary restriction for genetic epistasis analysis and gene discovery in C. elegans. *PLoS ONE*, **2009**, 4, e4535	3.7	69
65	Expanding the genetic code of Caenorhabditis elegans using bacterial aminoacyl-tRNA synthetase/tRNA pairs. *ACS Chemical Biology*, **2012**, 7, 1292-302	4.9	67
64	Temporal requirements of insulin/IGF-1 signaling for proteotoxicity protection. *Aging Cell*, **2010**, 9, 126-34	5.9	66
63	Signals of youth: endocrine regulation of aging in Caenorhabditis elegans. *Trends in Endocrinology and Metabolism*, **2009**, 20, 259-64	8.8	61
62	Heterotypic Signals from Neural HSF-1 Separate Thermotolerance from Longevity. *Cell Reports*, **2015**, 12, 1196-1204	10.6	56
61	Separable functions of ORC5 in replication initiation and silencing in Saccharomyces cerevisiae. *Genetics*, **1997**, 147, 1053-62	4	55
60	Uncoupling of longevity and telomere length in C. elegans. *PLoS Genetics*, **2005**, 1, e30	6	46
59	Temporal requirements of heat shock factor-1 for longevity assurance. *Aging Cell*, **2012**, 11, 491-9	9.9	42
58	Ageing and protein aggregation-mediated disorders: from invertebrates to mammals. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2011**, 366, 94-8	5.8	42
57	Four glial cells regulate ER stress resistance and longevity via neuropeptide signaling in. *Science*, **2020**, 367, 436-440	33.3	40
56	Visible light reduces C. elegans longevity. *Nature Communications*, **2018**, 9, 927	17.4	40
55	Analysis of aging in Caenorhabditis elegans. *Methods in Cell Biology*, **2012**, 107, 353-81	1.8	40
54	Can aging be ‘drugged’?. *Nature Medicine*, **2015**, 21, 1400-5	50.5	38
53	The Hyaluronidase, TMEM2, Promotes ER Homeostasis and Longevity Independent of the UPR. *Cell*, **2019**, 179, 1306-1318.e18	56.2	37
52	Endocrine aspects of organelle stress cell non-autonomous signaling of mitochondria and the ER. *Current Opinion in Cell Biology*, **2015**, 33, 102-10	9	34
51	Medicine. The yin-yang of sirtuins. *Science*, **2007**, 317, 461-2	33.3	33
50	Metabolism, ubiquinone synthesis, and longevity. *Genes and Development*, **2005**, 19, 2399-406	12.6	33

49	FOXO4 is necessary for neural differentiation of human embryonic stem cells. *Aging Cell*, **2013**, 12, 518-22	3.9	32
48	Beyond the cell factory: Homeostatic regulation of and by the UPR. *Science Advances*, **2020**, 6, eabb9614	14.3	32
47	Intercellular communication is required for trap formation in the nematode-trapping fungus Duddingtonia flagrans. *PLoS Genetics*, **2019**, 15, e1008029	6	31
46	A kinetic assessment of the C. elegans amyloid disaggregation activity enables uncoupling of disassembly and proteolysis. *Protein Science*, **2009**, 18, 2231-41	6.3	29
45	Cell biology: The stressful influence of microbes. *Nature*, **2014**, 508, 328-9	50.4	28
44	Emerging Role of Sensory Perception in Aging and Metabolism. *Trends in Endocrinology and Metabolism*, **2016**, 27, 294-303	8.8	28
43	The Deubiquitylase MATH-33 Controls DAF-16 Stability and Function in Metabolism and Longevity. *Cell Metabolism*, **2015**, 22, 151-63	24.6	26
42	Mitochondrial UPR: A Double-Edged Sword. *Trends in Cell Biology*, **2016**, 26, 563-565	18.3	26
41	Meta-analysis of global metabolomic data identifies metabolites associated with life-span extension. *Metabolomics*, **2014**, 10, 737-743	4.7	23
40	UPR promotes lipophagy independent of chaperones to extend life span. *Science Advances*, **2020**, 6, eaaz1441	14.3	23
39	Metabolite induction of Caenorhabditis elegans dauer larvae arises via transport in the pharynx. *ACS Chemical Biology*, **2008**, 3, 294-304	4.9	22
38	X Chromosome Domain Architecture Regulates Caenorhabditis elegans Lifespan but Not Dosage Compensation. *Developmental Cell*, **2019**, 51, 192-207.e6	10.2	19
37	Systemic effects of mitochondrial stress. *EMBO Reports*, **2020**, 21, e50094	6.5	19
36	Cellular clearance of circulating transthyretin decreases cell-nonautonomous proteotoxicity in. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E7710-E7719	11.5	19
35	Spatial regulation of the actin cytoskeleton by HSF-1 during aging. *Molecular Biology of the Cell*, **2018**, 29, 2522-2527	3.5	19
34	Transient activation of the UPR is an essential step in the acquisition of pluripotency during reprogramming. *Science Advances*, **2019**, 5, eaaw0025	14.3	17
33	A Krüppel-like factor downstream of the E3 ligase WWP-1 mediates dietary-restriction-induced longevity in Caenorhabditis elegans. *Nature Communications*, **2014**, 5, 3772	17.4	17
32	SMK-1/PPH-4.1-mediated silencing of the CHK-1 response to DNA damage in early C. elegans embryos. *Journal of Cell Biology*, **2007**, 179, 41-52	7.3	17

31	On the origin of a silencer. *Trends in Biochemical Sciences*, **1995**, 20, 231-5	10.3	16
30	"High-Throughput Characterization of Region-Specific Mitochondrial Function and Morphology". *Scientific Reports*, **2017**, 7, 6749	4.9	15
29	MAPping innate immunity. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 12781-2	11.5	15
28	Identification and Characterization of Mitochondrial Subtypes in Caenorhabditis elegans via Analysis of Individual Mitochondria by Flow Cytometry. *Analytical Chemistry*, **2016**, 88, 6309-16	7.8	14
27	Adhesion-mediated mechanosignaling forces mitohormesis. *Cell Metabolism*, **2021**, 33, 1322-1341.e13	24.6	12
26	Mitochondria and aging: dilution is the solution. *Cell Metabolism*, **2007**, 6, 427-9	24.6	9
25	Lysosomal recycling of amino acids affects ER quality control. *Science Advances*, **2020**, 6, eaaz9805	14.3	8
24	The disposable soma theory of aging in reverse. *Cell Research*, **2014**, 24, 7-8	24.7	7
23	Cell-nonautonomous control of the UPR: mastering energy homeostasis. *Cell Metabolism*, **2014**, 20, 385-7	24.6	7
22	Divergent Nodes of Non-autonomous UPR Signaling through Serotonergic and Dopaminergic Neurons. *Cell Reports*, **2020**, 33, 108489	10.6	7
21	Ageing: beneficial miscommunication. *Nature*, **2013**, 497, 442-3	50.4	5
20	PPTR-1 counterAkts insulin signaling. *Cell*, **2009**, 136, 816-8	56.2	5
19	Measurements of Physiological Stress Responses in C. Elegans. *Journal of Visualized Experiments*, **2020**,	1.6	4
18	Systemic regulation of mitochondria by germline proteostasis prevents protein aggregation in the soma of. *Science Advances*, **2021**, 7,	14.3	4
17	Protein homeostasis from the outside in. *Nature Cell Biology*, **2020**, 22, 911-912	23.4	3
16	Adhesion-mediated mechanosignaling forces mitohormesis		3
15	The UPRmt preserves mitochondrial import to extend lifespan. *Journal of Cell Biology*, **2022**, 221,	7.3	3
14	Profile of Kazutoshi Mori and Peter Walter, 2014 Lasker Basic Medical Research awardees: The unfolded protein response. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 17696-7	11.5	2

13	Measuring expression heterogeneity of single-cell cytoskeletal protein complexes. *Nature Communications*, **2021**, 12, 4969	17.4	2
12	Aging alters the metabolic flux signature of the ER-unfolded protein response in vivo in mice.. *Aging Cell*, **2022**, e13558	9.9	2
11	Vive ut Numquam Moriturus: Tweaking Translational Control to Regulate Longevity. *Molecular Cell*, **2019**, 73, 643-644	17.6	1
10	The Lysosome, Elixir of Neural Stem Cell Youth. *Cell Stem Cell*, **2018**, 22, 619-620	18	1
9	ER Unfolded Protein Response in Liver In Vivo Is Characterized by Reduced, Not Increased, De Novo Lipogenesis and Cholesterol Synthesis Rates with Uptake of Fatty Acids from Adipose Tissue: Integrated Gene Expression, Translation Rates and Metabolic Fluxes.. *International Journal of Molecular Sciences*, **2022**, 23,	6.3	1
8	A non-canonical arm of UPRER mediates longevity through ER remodeling and lipophagy		1
7	Cross-species screening platforms identify EPS-8 as a critical link for mitochondrial stress and actin stabilization. *Science Advances*, **2021**, 7, eabj6818	14.3	0
6	Mitochondrial Subtype Identification and Characterization. *Current Protocols in Cytometry*, **2018**, 85, e41	3.6	0
5	Evolutionary Comeuppance: Mitochondrial Stress Awakens the Remnants of Ancient Bacterial Warfare. *Cell Metabolism*, **2019**, 29, 1015-1017	24.6	
4	SIP-ing the elixir of youth. *Cell*, **2011**, 146, 859-60	56.2	
3	Aging and Aggregation-Mediated Proteotoxicity **2010**, 631-644		
2	Connecting mechanism of proteotoxicity: from worm to mouse. *FASEB Journal*, **2009**, 23, LB213	0.9	
1	Brains and brawn: Stress-induced myokine abates nervous system aging. *Cell Metabolism*, **2021**, 33, 1067-1069	24.6	