Andrew Dillin

List of Publications by Year in Descending Order

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	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
119	Aging alters the metabolic flux signature of the ER-unfolded protein response in vivo in mice.. *Aging Cell*, **2022**, e13558	9.9	2
118	The UPRmt preserves mitochondrial import to extend lifespan. *Journal of Cell Biology*, **2022**, 221,	7.3	3
117	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
116	Brains and brawn: Stress-induced myokine abates nervous system aging. *Cell Metabolism*, **2021**, 33, 1067-1069	24.6	
115	Systemic regulation of mitochondria by germline proteostasis prevents protein aggregation in the soma of. *Science Advances*, **2021**, 7,	14.3	4
114	Adhesion-mediated mechanosignaling forces mitohormesis. *Cell Metabolism*, **2021**, 33, 1322-1341.e13	24.6	12
113	Measuring expression heterogeneity of single-cell cytoskeletal protein complexes. *Nature Communications*, **2021**, 12, 4969	17.4	2
112	Lysosomal recycling of amino acids affects ER quality control. *Science Advances*, **2020**, 6, eaaz9805	14.3	8
111	Protein homeostasis from the outside in. *Nature Cell Biology*, **2020**, 22, 911-912	23.4	3
110	Systemic effects of mitochondrial stress. *EMBO Reports*, **2020**, 21, e50094	6.5	19
109	Four glial cells regulate ER stress resistance and longevity via neuropeptide signaling in. *Science*, **2020**, 367, 436-440	33.3	40
108	Measurements of Physiological Stress Responses in C. Elegans. *Journal of Visualized Experiments*, **2020**,	1.6	4
107	UPR promotes lipophagy independent of chaperones to extend life span. *Science Advances*, **2020**, 6, eaaz1441	14.3	23
106	Beyond the cell factory: Homeostatic regulation of and by the UPR. *Science Advances*, **2020**, 6, eabb9614	14.3	32
105	Divergent Nodes of Non-autonomous UPR Signaling through Serotonergic and Dopaminergic Neurons. *Cell Reports*, **2020**, 33, 108489	10.6	7
104	X Chromosome Domain Architecture Regulates Caenorhabditis elegans Lifespan but Not Dosage Compensation. *Developmental Cell*, **2019**, 51, 192-207.e6	10.2	19

103	Evolutionary Comeuppance: Mitochondrial Stress Awakens the Remnants of Ancient Bacterial Warfare. *Cell Metabolism*, **2019**, 29, 1015-1017	24.6	
102	Intercellular communication is required for trap formation in the nematode-trapping fungus Duddingtonia flagrans. *PLoS Genetics*, **2019**, 15, e1008029	6	31
101	Transient activation of the UPR is an essential step in the acquisition of pluripotency during reprogramming. *Science Advances*, **2019**, 5, eaaw0025	14.3	17
100	Vive ut Numquam Moriturus: Tweaking Translational Control to Regulate Longevity. *Molecular Cell*, **2019**, 73, 643-644	17.6	1
99	The Hyaluronidase, TMEM2, Promotes ER Homeostasis and Longevity Independent of the UPR. *Cell*, **2019**, 179, 1306-1318.e18	56.2	37
98	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
97	Mitochondrial proteostasis in the context of cellular and organismal health and aging. *Journal of Biological Chemistry*, **2019**, 294, 5396-5407	5.4	83
96	Visible light reduces C. elegans longevity. *Nature Communications*, **2018**, 9, 927	17.4	40
95	A Futile Battle? Protein Quality Control and the Stress of Aging. *Developmental Cell*, **2018**, 44, 139-163	10.2	73
94	The Lysosome, Elixir of Neural Stem Cell Youth. *Cell Stem Cell*, **2018**, 22, 619-620	18	1
93	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
92	The Mitochondrial Unfolded Protein Response Is Mediated Cell-Non-autonomously by Retromer-Dependent Wnt Signaling. *Cell*, **2018**, 174, 870-883.e17	56.2	100
91	Spatial regulation of the actin cytoskeleton by HSF-1 during aging. *Molecular Biology of the Cell*, **2018**, 29, 2522-2527	3.5	19
90	Mitochondrial Subtype Identification and Characterization. *Current Protocols in Cytometry*, **2018**, 85, e41	3.6	0
89	The UPR: Sensor and Coordinator of Organismal Homeostasis. *Molecular Cell*, **2017**, 66, 761-771	17.6	138
88	"High-Throughput Characterization of Region-Specific Mitochondrial Function and Morphology". *Scientific Reports*, **2017**, 7, 6749	4.9	15
87	DGAT1-Dependent Lipid Droplet Biogenesis Protects Mitochondrial Function during Starvation-Induced Autophagy. *Developmental Cell*, **2017**, 42, 9-21.e5	10.2	225
86	The Sense of Smell Impacts Metabolic Health and Obesity. *Cell Metabolism*, **2017**, 26, 198-211.e5	24.6	93

85	Signaling Networks Determining Life Span. *Annual Review of Biochemistry*, **2016**, 85, 35-64	29.1	109
84	A Ribosomal Perspective on Proteostasis and Aging. *Cell Metabolism*, **2016**, 23, 1004-1012	24.6	79
83	Autophagy-mediated longevity is modulated by lipoprotein biogenesis. *Autophagy*, **2016**, 12, 261-72	10.2	73
82	Mitochondrial UPR: A Double-Edged Sword. *Trends in Cell Biology*, **2016**, 26, 563-565	18.3	26
81	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
80	Emerging Role of Sensory Perception in Aging and Metabolism. *Trends in Endocrinology and Metabolism*, **2016**, 27, 294-303	8.8	28
79	Mitochondrial Stress Induces Chromatin Reorganization to Promote Longevity and UPR(mt). *Cell*, **2016**, 165, 1197-1208	56.2	197
78	Two Conserved Histone Demethylases Regulate Mitochondrial Stress-Induced Longevity. *Cell*, **2016**, 165, 1209-1223	56.2	204
77	Lipid Biosynthesis Coordinates a Mitochondrial-to-Cytosolic Stress Response. *Cell*, **2016**, 166, 1539-1552.e16	56.2	120
76	Neuroendocrine Coordination of Mitochondrial Stress Signaling and Proteostasis. *Cell*, **2016**, 166, 1553-1563.e10	56.2	112
75	Walking the tightrope: proteostasis and neurodegenerative disease. *Journal of Neurochemistry*, **2016**, 137, 489-505	6	126
74	Tipping the metabolic scales towards increased longevity in mammals. *Nature Cell Biology*, **2015**, 17, 196-203	23.4	90
73	The Deubiquitylase MATH-33 Controls DAF-16 Stability and Function in Metabolism and Longevity. *Cell Metabolism*, **2015**, 22, 151-63	24.6	26
72	Heterotypic Signals from Neural HSF-1 Separate Thermotolerance from Longevity. *Cell Reports*, **2015**, 12, 1196-1204	10.6	56
71	Can aging be "drugged"? *Nature Medicine*, **2015**, 21, 1400-5	50.5	38
70	Phosphorylation of LC3 by the Hippo kinases STK3/STK4 is essential for autophagy. *Molecular Cell*, **2015**, 57, 55-68	17.6	126
69	Endocrine aspects of organelle stress□ell non-autonomous signaling of mitochondria and the ER. *Current Opinion in Cell Biology*, **2015**, 33, 102-10	9	34
68	The good and the bad of being connected: the integrons of aging. *Current Opinion in Cell Biology*, **2014**, 26, 107-12	9	90

67	The disposable soma theory of aging in reverse. *Cell Research*, **2014**, 24, 7-8	24.7	7
66	Proteostasis and aging of stem cells. *Trends in Cell Biology*, **2014**, 24, 161-70	18.3	103
65	Differential scales of protein quality control. *Cell*, **2014**, 157, 52-64	56.2	172
64	Systemic stress signalling: understanding the cell non-autonomous control of proteostasis. *Nature Reviews Molecular Cell Biology*, **2014**, 15, 211-7	48.7	110
63	TRPV1 pain receptors regulate longevity and metabolism by neuropeptide signaling. *Cell*, **2014**, 157, 1023-36	56.2	143
62	Cell-nonautonomous control of the UPR: mastering energy homeostasis. *Cell Metabolism*, **2014**, 20, 385-7	24.6	7
61	HSF-1-mediated cytoskeletal integrity determines thermotolerance and life span. *Science*, **2014**, 346, 360-3	33.3	113
60	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
59	The role of protein clearance mechanisms in organismal ageing and age-related diseases. *Nature Communications*, **2014**, 5, 5659	17.4	401
58	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
57	Meta-analysis of global metabolomic data identifies metabolites associated with life-span extension. *Metabolomics*, **2014**, 10, 737-743	4.7	23
56	Cell biology: The stressful influence of microbes. *Nature*, **2014**, 508, 328-9	50.4	28
55	The TFEB orthologue HLH-30 regulates autophagy and modulates longevity in Caenorhabditis elegans. *Nature Communications*, **2013**, 4, 2267	17.4	292
54	FOXO4 is necessary for neural differentiation of human embryonic stem cells. *Aging Cell*, **2013**, 12, 518-22	5.9	32
53	DAF-16 employs the chromatin remodeller SWI/SNF to promote stress resistance and longevity. *Nature Cell Biology*, **2013**, 15, 491-501	23.4	145
52	Ageing: beneficial miscommunication. *Nature*, **2013**, 497, 442-3	50.4	5
51	ULK1 induces autophagy by phosphorylating Beclin-1 and activating VPS34 lipid kinase. *Nature Cell Biology*, **2013**, 15, 741-50	23.4	1009
50	XBP-1 is a cell-nonautonomous regulator of stress resistance and longevity. *Cell*, **2013**, 153, 1435-47	56.2	353

49	RPN-6 determines C. elegans longevity under proteotoxic stress conditions. *Nature*, **2012**, 489, 263-8	50.4	289
48	Expanding the genetic code of Caenorhabditis elegans using bacterial aminoacyl-tRNA synthetase/tRNA pairs. *ACS Chemical Biology*, **2012**, 7, 1292-302	4.9	67
47	Increased proteasome activity in human embryonic stem cells is regulated by PSMD11. *Nature*, **2012**, 489, 304-8	50.4	286
46	Analysis of aging in Caenorhabditis elegans. *Methods in Cell Biology*, **2012**, 107, 353-81	1.8	40
45	Temporal requirements of heat shock factor-1 for longevity assurance. *Aging Cell*, **2012**, 11, 491-9	9.9	42
44	The cell-non-autonomous nature of electron transport chain-mediated longevity. *Cell*, **2011**, 144, 79-91	56.2	702
43	SIP-ing the elixir of youth. *Cell*, **2011**, 146, 859-60	56.2	
42	Fine-tuning of Drp1/Fis1 availability by AKAP121/Siah2 regulates mitochondrial adaptation to hypoxia. *Molecular Cell*, **2011**, 44, 532-44	17.6	165
41	Phosphorylation of ULK1 (hATG1) by AMP-activated protein kinase connects energy sensing to mitophagy. *Science*, **2011**, 331, 456-61	33.3	1746
40	Lifespan extension induced by AMPK and calcineurin is mediated by CRTC-1 and CREB. *Nature*, **2011**, 470, 404-8	50.4	274
39	Aging as an event of proteostasis collapse. *Cold Spring Harbor Perspectives in Biology*, **2011**, 3,	10.2	319
38	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
37	Temporal requirements of insulin/IGF-1 signaling for proteotoxicity protection. *Aging Cell*, **2010**, 9, 126-34	5.9	66
36	Protein homeostasis and aging in neurodegeneration. *Journal of Cell Biology*, **2010**, 190, 719-29	7.3	261
35	Aging and Aggregation-Mediated Proteotoxicity **2010**, 631-644		
34	Optimizing dietary restriction for genetic epistasis analysis and gene discovery in C. elegans. *PLoS ONE*, **2009**, 4, e4535	3.7	69
33	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
32	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

31	A conserved ubiquitination pathway determines longevity in response to diet restriction. *Nature*, **2009**, 460, 396-9	50.4	104
30	PPTR-1 counterAkts insulin signaling. *Cell*, **2009**, 136, 816-8	56.2	5
29	Reduced IGF-1 signaling delays age-associated proteotoxicity in mice. *Cell*, **2009**, 139, 1157-69	56.2	388
28	Signals of youth: endocrine regulation of aging in Caenorhabditis elegans. *Trends in Endocrinology and Metabolism*, **2009**, 20, 259-64	8.8	61
27	Biological and chemical approaches to diseases of proteostasis deficiency. *Annual Review of Biochemistry*, **2009**, 78, 959-91	29.1	854
26	Connecting mechanism of proteotoxicity: from worm to mouse. *FASEB Journal*, **2009**, 23, LB213	0.9	
25	The insulin paradox: aging, proteotoxicity and neurodegeneration. *Nature Reviews Neuroscience*, **2008**, 9, 759-67	13.5	248
24	Metabolite induction of Caenorhabditis elegans dauer larvae arises via transport in the pharynx. *ACS Chemical Biology*, **2008**, 3, 294-304	4.9	22
23	Aging and survival: the genetics of life span extension by dietary restriction. *Annual Review of Biochemistry*, **2008**, 77, 727-54	29.1	484
22	C. elegans telomeres contain G-strand and C-strand overhangs that are bound by distinct proteins. *Cell*, **2008**, 132, 745-57	56.2	95
21	Adapting proteostasis for disease intervention. *Science*, **2008**, 319, 916-9	33.3	1715
20	Medicine. The yin-yang of sirtuins. *Science*, **2007**, 317, 461-2	33.3	33
19	PHA-4/Foxa mediates diet-restriction-induced longevity of C. elegans. *Nature*, **2007**, 447, 550-5	50.4	429
18	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
17	Mitochondria and aging: dilution is the solution. *Cell Metabolism*, **2007**, 6, 427-9	24.6	9
16	Quantitative mass spectrometry identifies insulin signaling targets in C. elegans. *Science*, **2007**, 317, 660-3	33.3	260
15	The trifecta of aging in Caenorhabditis elegans. *Experimental Gerontology*, **2006**, 41, 894-903	4.5	89
14	Opposing activities protect against age-onset proteotoxicity. *Science*, **2006**, 313, 1604-10	33.3	701

13	SMK-1, an essential regulator of DAF-16-mediated longevity. *Cell*, **2006**, 124, 1039-53	56.2	175
12	Uncoupling of longevity and telomere length in C. elegans. *PLoS Genetics*, **2005**, 1, e30	6	46
11	Metabolism, ubiquinone synthesis, and longevity. *Genes and Development*, **2005**, 19, 2399-406	12.6	33
10	MAPping innate immunity. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 12781-2	11.5	15
9	Automated approach for quantitative analysis of complex peptide mixtures from tandem mass spectra. *Nature Methods*, **2004**, 1, 39-45	21.6	512
8	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
7	Rates of behavior and aging specified by mitochondrial function during development. *Science*, **2002** , 298, 2398-401	33.3	827
6	Regulation of life-span by germ-line stem cells in Caenorhabditis elegans. *Science*, **2002**, 295, 502-5	33.3	365
5	Timing requirements for insulin/IGF-1 signaling in C. elegans. *Science*, **2002**, 298, 830-4	33.3	372
4	Separable functions of ORC5 in replication initiation and silencing in Saccharomyces cerevisiae. *Genetics*, **1997**, 147, 1053-62	4	55
3	On the origin of a silencer. *Trends in Biochemical Sciences*, **1995**, 20, 231-5	10.3	16
2	A non-canonical arm of UPRER mediates longevity through ER remodeling and lipophagy		1
1	Adhesion-mediated mechanosignaling forces mitohormesis		3