# Andrew Dillin

List of Publications by Year
in descending order

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 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, 1073. | 1.8 | 3 |
| 2 | Aging alters the metabolic flux signature of the ERâ€unfolded protein response in vivo in mice. Aging Cell, 2022, 21, e13558. | 3.0 | 6 |
| 3 | The UPRmt preserves mitochondrial import to extend lifespan. Journal of Cell Biology, 2022, 221, . | 2.3 | 27 |
| 4 | Mitochondria as Cellular and Organismal Signaling Hubs. Annual Review of Cell and Developmental Biology, 2022, 38, 179-218. | 4.0 | 52 |
| 5 | Brains and brawn: Stress-induced myokine abates nervous system aging. Cell Metabolism, 2021, 33, 1067-1069. | 7.2 | 0 |
| 6 | Systemic regulation of mitochondria by germline proteostasis prevents protein aggregation in the soma of <i>C. elegans</i>. Science Advances, 2021, 7, . | 4.7 | 28 |
| 7 | Adhesion-mediated mechanosignaling forces mitohormesis. Cell Metabolism, 2021, 33, 1322-1341.e13. | 7.2 | 65 |
| 8 | Measuring expression heterogeneity of single-cell cytoskeletal protein complexes. Nature Communications, 2021, 12, 4969. | 5.8 | 6 |
| 9 | Cross-species screening platforms identify EPS-8 as a critical link for mitochondrial stress and actin stabilization. Science Advances, 2021, 7, eabj6818. | 4.7 | 5 |
| 10 | UPR <sup>ER</sup> promotes lipophagy independent of chaperones to extend life span. Science Advances, 2020, 6, eaaz1441. | 4.7 | 48 |
| 11 | Beyond the cell factory: Homeostatic regulation of and by the UPR <sup>ER</sup>. Science Advances, 2020, 6, eabb9614. | 4.7 | 75 |
| 12 | Divergent Nodes of Non-autonomous UPRER Signaling through Serotonergic and Dopaminergic Neurons. Cell Reports, 2020, 33, 108489. | 2.9 | 30 |
| 13 | Lysosomal recycling of amino acids affects ER quality control. Science Advances, 2020, 6, eaaz9805. | 4.7 | 19 |
| 14 | Protein homeostasis from the outside in. Nature Cell Biology, 2020, 22, 911-912. | 4.6 | 10 |
| 15 | Systemic effects of mitochondrial stress. EMBO Reports, 2020, 21, e50094. | 2.0 | 54 |
| 16 | Four glial cells regulate ER stress resistance and longevity via neuropeptide signaling in <i>C. elegans</i>. Science, 2020, 367, 436-440. | 6.0 | 92 |
| 17 | Measurements of Physiological Stress Responses in <em>C. Elegans</em>. Journal of Visualized Experiments, 2020, , . | 0.2 | 21 |
| 18 | X Chromosome Domain Architecture Regulates Caenorhabditis elegans Lifespan but Not Dosage Compensation. Developmental Cell, 2019, 51, 192-207.e6. | 3.1 | 39 |

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|---|---|---|---|
| 19 | Evolutionary Comeuppance: Mitochondrial Stress Awakens the Remnants of Ancient Bacterial Warfare. Cell Metabolism, 2019, 29, 1015-1017. | 7.2 | 2 |
| 20 | Intercellular communication is required for trap formation in the nematode-trapping fungus Duddingtonia flagrans. PLoS Genetics, 2019, 15, e1008029. | 1.5 | 59 |
| 21 | Transient activation of the UPR <sup>ER</sup> is an essential step in the acquisition of pluripotency during reprogramming. Science Advances, 2019, 5, eaaw0025. | 4.7 | 31 |
| 22 | Vive ut Numquam Moriturus: Tweaking Translational Control to Regulate Longevity. Molecular Cell, 2019, 73, 643-644. | 4.5 | 7 |
| 23 | The Hyaluronidase, TMEM2, Promotes ER Homeostasis and Longevity Independent of the UPRER. Cell, 2019, 179, 1306-1318.e18. | 13.5 | 87 |
| 24 | Blood-brain barrier dysfunction in aging induces hyperactivation of TGFÎ² signaling and chronic yet reversible neural dysfunction. Science Translational Medicine, 2019, 11, . | 5.8 | 157 |
| 25 | Mitochondrial proteostasis in the context of cellular and organismal health and aging. Journal of Biological Chemistry, 2019, 294, 5396-5407. | 1.6 | 136 |
| 26 | Visible light reduces C. elegans longevity. Nature Communications, 2018, 9, 927. | 5.8 | 70 |
| 27 | A Futile Battle? Protein Quality Control and the Stress of Aging. Developmental Cell, 2018, 44, 139-163. | 3.1 | 112 |
| 28 | The Lysosome, Elixir of Neural Stem Cell Youth. Cell Stem Cell, 2018, 22, 619-620. | 5.2 | 2 |
| 29 | Mitochondrial Subtype Identification and Characterization. Current Protocols in Cytometry, 2018, 85, e41. | 3.7 | 1 |
| 30 | Cellular clearance of circulating transthyretin decreases cell-nonautonomous proteotoxicity in <i>Caenorhabditis elegans</i>. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7710-E7719. | 3.3 | 23 |
| 31 | The Mitochondrial Unfolded Protein Response Is Mediated Cell-Non-autonomously by Retromer-Dependent Wnt Signaling. Cell, 2018, 174, 870-883.e17. | 13.5 | 183 |
| 32 | Spatial regulation of the actin cytoskeleton by HSF-1 during aging. Molecular Biology of the Cell, 2018, 29, 2522-2527. | 0.9 | 39 |
| 33 | The UPR ER : Sensor and Coordinator of Organismal Homeostasis. Molecular Cell, 2017, 66, 761-771. | 4.5 | 227 |
| 34 | â€œHigh-Throughput Characterization of Region-Specific Mitochondrial Function and Morphologyâ€. Scientific Reports, 2017, 7, 6749. | 1.6 | 16 |
| 35 | DGAT1-Dependent Lipid Droplet Biogenesis Protects Mitochondrial Function during Starvation-Induced Autophagy. Developmental Cell, 2017, 42, 9-21.e5. | 3.1 | 397 |
| 36 | The Sense of Smell Impacts Metabolic Health and Obesity. Cell Metabolism, 2017, 26, 198-211.e5. | 7.2 | 151 |

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|---|---|---|---|
| 37 | Mitochondrial UPR: A Double-Edged Sword. Trends in Cell Biology, 2016, 26, 563-565. | 3.6 | 36 |
| 38 | Identification and Characterization of Mitochondrial Subtypes in <i>Caenorhabditis elegans</i> via Analysis of Individual Mitochondria by Flow Cytometry. Analytical Chemistry, 2016, 88, 6309-6316. | 3.2 | 23 |
| 39 | Metabolism, Mitochondrial Stress, and Aging: How Neuroendocrine Signaling Coordinates Metabolic State in Aging and Neurodegenerative Disease Models. American Journal of Geriatric Psychiatry, 2016, 24, S73-S74. | 0.6 | 1 |
| 40 | Emerging Role of Sensory Perception in Aging and Metabolism. Trends in Endocrinology and Metabolism, 2016, 27, 294-303. | 3.1 | 50 |
| 41 | Mitochondrial Stress Induces Chromatin Reorganization to Promote Longevity and UPR mt. Cell, 2016, 165, 1197-1208. | 13.5 | 272 |
| 42 | Two Conserved Histone Demethylases Regulate Mitochondrial Stress-Induced Longevity. Cell, 2016, 165, 1209-1223. | 13.5 | 279 |
| 43 | Lipid Biosynthesis Coordinates a Mitochondrial-to-Cytosolic Stress Response. Cell, 2016, 166, 1539-1552.e16. | 13.5 | 179 |
| 44 | Neuroendocrine Coordination of Mitochondrial Stress Signaling and Proteostasis. Cell, 2016, 166, 1553-1563.e10. | 13.5 | 181 |
| 45 | Walking the tightrope: proteostasis and neurodegenerative disease. Journal of Neurochemistry, 2016, 137, 489-505. | 2.1 | 176 |
| 46 | Signaling Networks Determining Life Span. Annual Review of Biochemistry, 2016, 85, 35-64. | 5.0 | 143 |
| 47 | A Ribosomal Perspective on Proteostasis and Aging. Cell Metabolism, 2016, 23, 1004-1012. | 7.2 | 116 |
| 48 | Autophagy-mediated longevity is modulated by lipoprotein biogenesis. Autophagy, 2016, 12, 261-272. | 4.3 | 100 |
| 49 | Can aging be 'drugged'?. Nature Medicine, 2015, 21, 1400-1405. | 15.2 | 47 |
| 50 | Phosphorylation of LC3 by the Hippo Kinases STK3/STK4 Is Essential for Autophagy. Molecular Cell, 2015, 57, 55-68. | 4.5 | 158 |
| 51 | Endocrine aspects of organelle stress â€" cell non-autonomous signaling of mitochondria and the ER. Current Opinion in Cell Biology, 2015, 33, 102-110. | 2.6 | 39 |
| 52 | Tipping the metabolic scales towards increased longevity in mammals. Nature Cell Biology, 2015, 17, 196-203. | 4.6 | 120 |
| 53 | The Deubiquitylase MATH-33 Controls DAF-16 Stability and Function in Metabolism and Longevity. Cell Metabolism, 2015, 22, 151-163. | 7.2 | 29 |
| 54 | Heterotypic Signals from Neural HSF-1 Separate Thermotolerance from Longevity. Cell Reports, 2015, 12, 1196-1204. | 2.9 | 106 |

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|---|---|---|---|
| 55 | The role of protein clearance mechanisms in organismal ageing and age-related diseases. Nature Communications, 2014, 5, 5659. | 5.8 | 546 |
| 56 | 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, 17696-17697. | 3.3 | 2 |
| 57 | Meta-analysis of global metabolomic data identifies metabolites associated with life-span extension. Metabolomics, 2014, 10, 737-743. | 1.4 | 24 |
| 58 | The stressful influence of microbes. Nature, 2014, 508, 328-329. | 13.7 | 29 |
| 59 | The good and the bad of being connected: the integrons of aging. Current Opinion in Cell Biology, 2014, 26, 107-112. | 2.6 | 115 |
| 60 | The disposable soma theory of aging in reverse. Cell Research, 2014, 24, 7-8. | 5.7 | 14 |
| 61 | Proteostasis and aging of stem cells. Trends in Cell Biology, 2014, 24, 161-170. | 3.6 | 130 |
| 62 | Differential Scales of Protein Quality Control. Cell, 2014, 157, 52-64. | 13.5 | 207 |
| 63 | Systemic stress signalling: understanding the cell non-autonomous control of proteostasis. Nature Reviews Molecular Cell Biology, 2014, 15, 211-217. | 16.1 | 147 |
| 64 | TRPV1 Pain Receptors Regulate Longevity and Metabolism by Neuropeptide Signaling. Cell, 2014, 157, 1023-1036. | 13.5 | 195 |
| 65 | Cell-Nonautonomous Control of the UPR: Mastering Energy Homeostasis. Cell Metabolism, 2014, 20, 385-387. | 7.2 | 7 |
| 66 | HSF-1â€"mediated cytoskeletal integrity determines thermotolerance and life span. Science, 2014, 346, 360-363. | 6.0 | 174 |
| 67 | A KrÃ¼ppel-like factor downstream of the E3 ligase WWP-1 mediates dietary-restriction-induced longevity in Caenorhabditis elegans. Nature Communications, 2014, 5, 3772. | 5.8 | 27 |
| 68 | The TFEB orthologue HLH-30 regulates autophagy and modulates longevity in Caenorhabditis elegans. Nature Communications, 2013, 4, 2267. | 5.8 | 416 |
| 69 | <scp>FOXO</scp>4 is necessary for neural differentiation of human embryonic stem cells. Aging Cell, 2013, 12, 518-522. | 3.0 | 39 |
| 70 | DAF-16 employs the chromatin remodeller SWI/SNF to promote stress resistance and longevity. Nature Cell Biology, 2013, 15, 491-501. | 4.6 | 175 |
| 71 | Beneficial miscommunication. Nature, 2013, 497, 442-443. | 13.7 | 7 |
| 72 | ULK1 induces autophagy by phosphorylating Beclin-1 and activating VPS34 lipid kinase. Nature Cell Biology, 2013, 15, 741-750. | 4.6 | 1,255 |

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| 73 | XBP-1 Is a Cell-Nonautonomous Regulator of Stress Resistance and Longevity. Cell, 2013, 153, 1435-1447. | 13.5 | 485 |
| 74 | RPN-6 determines C. elegans longevity under proteotoxic stress conditions. Nature, 2012, 489, 263-268. | 13.7 | 372 |
| 75 | Expanding the Genetic Code of <i>Caenorhabditis elegans</i> Using Bacterial Aminoacyl-tRNA Synthetase/tRNA Pairs. ACS Chemical Biology, 2012, 7, 1292-1302. | 1.6 | 80 |
| 76 | Increased proteasome activity in human embryonic stem cells is regulated by PSMD11. Nature, 2012, 489, 304-308. | 13.7 | 339 |
| 77 | Analysis of Aging in Caenorhabditis elegans. Methods in Cell Biology, 2012, 107, 353-381. | 0.5 | 47 |
| 78 | Temporal requirements of heat shock factorâ€1 for longevity assurance. Aging Cell, 2012, 11, 491-499. | 3.0 | 54 |
| 79 | The Cell-Non-Autonomous Nature of Electron Transport Chain-Mediated Longevity. Cell, 2011, 144, 79-91. | 13.5 | 898 |
| 80 | SIP-ing the Elixir of Youth. Cell, 2011, 146, 859-860. | 13.5 | 0 |
| 81 | Fine-Tuning of Drp1/Fis1 Availability by AKAP121/Siah2 Regulates Mitochondrial Adaptation to Hypoxia. Molecular Cell, 2011, 44, 532-544. | 4.5 | 202 |
| 82 | Phosphorylation of ULK1 (hATG1) by AMP-Activated Protein Kinase Connects Energy Sensing to Mitophagy. Science, 2011, 331, 456-461. | 6.0 | 2,107 |
| 83 | Lifespan extension induced by AMPK and calcineurin is mediated by CRTC-1 and CREB. Nature, 2011, 470, 404-408. | 13.7 | 339 |
| 84 | Aging as an Event of Proteostasis Collapse. Cold Spring Harbor Perspectives in Biology, 2011, 3, a004440-a004440. | 2.3 | 420 |
| 85 | Ageing and protein aggregation-mediated disorders: from invertebrates to mammals. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 94-98. | 1.8 | 54 |
| 86 | Temporal requirements of insulin/IGFâ€1 signaling for proteotoxicity protection. Aging Cell, 2010, 9, 126-134. | 3.0 | 73 |
| 87 | Protein homeostasis and aging in neurodegeneration. Journal of Cell Biology, 2010, 190, 719-729. | 2.3 | 336 |
| 88 | SMK-1/PPH-4.1â€“mediated silencing of the CHK-1 response to DNA damage in early C. elegans embryos. Journal of Cell Biology, 2010, 189, 1187-1187. | 2.3 | 1 |
| 89 | Optimizing Dietary Restriction for Genetic Epistasis Analysis and Gene Discovery in C. elegans. PLoS ONE, 2009, 4, e4535. | 1.1 | 74 |
| 90 | SMK-1/PPH-4.1â€“mediated silencing of the CHK-1 response to DNA damage in early C. elegans embryos. Journal of Cell Biology, 2009, 184, 613-613. | 2.3 | 0 |

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| 91 | A kinetic assessment of the <i>C. elegans</i> amyloid disaggregation activity enables uncoupling of disassembly and proteolysis. Protein Science, 2009, 18, 2231-2241. | 3.1 | 31 |
| 92 | A conserved ubiquitination pathway determines longevity in response to diet restriction. Nature, 2009, 460, 396-399. | 13.7 | 117 |
| 93 | PPTR-1 CounterAkts Insulin Signaling. Cell, 2009, 136, 816-818. | 13.5 | 5 |
| 94 | Reduced IGF-1 Signaling Delays Age-Associated Proteotoxicity in Mice. Cell, 2009, 139, 1157-1169. | 13.5 | 450 |
| 95 | Signals of youth: endocrine regulation of aging in Caenorhabditis elegans. Trends in Endocrinology and Metabolism, 2009, 20, 259-264. | 3.1 | 65 |
| 96 | Biological and Chemical Approaches to Diseases of Proteostasis Deficiency. Annual Review of Biochemistry, 2009, 78, 959-991. | 5.0 | 1,035 |
| 97 | Connecting mechanism of proteotoxicity: from worm to mouse. FASEB Journal, 2009, 23, LB213. | 0.2 | 0 |
| 98 | Adapting Proteostasis for Disease Intervention. Science, 2008, 319, 916-919. | 6.0 | 2,104 |
| 99 | The insulin paradox: aging, proteotoxicity and neurodegeneration. Nature Reviews Neuroscience, 2008, 9, 759-767. | 4.9 | 282 |
| 100 | Metabolite Induction of <i>Caenorhabditis elegans</i> Dauer Larvae Arises via Transport in the Pharynx. ACS Chemical Biology, 2008, 3, 294-304. | 1.6 | 23 |
| 101 | Aging and Survival: The Genetics of Life Span Extension by Dietary Restriction. Annual Review of Biochemistry, 2008, 77, 727-754. | 5.0 | 552 |
| 102 | C. elegans Telomeres Contain G-Strand and C-Strand Overhangs that Are Bound by Distinct Proteins. Cell, 2008, 132, 745-757. | 13.5 | 121 |
| 103 | SMK-1/PPH-4.1â€“mediated silencing of the CHK-1 response to DNA damage in early C. elegans embryos. Journal of Cell Biology, 2007, 179, 41-52. | 2.3 | 20 |
| 104 | Mitochondria and Aging: Dilution Is the Solution. Cell Metabolism, 2007, 6, 427-429. | 7.2 | 9 |
| 105 | Quantitative Mass Spectrometry Identifies Insulin Signaling Targets in <i>C. elegans</i>. Science, 2007, 317, 660-663. | 6.0 | 299 |
| 106 | The Yin-Yang of Sirtuins. Science, 2007, 317, 461-462. | 6.0 | 38 |
| 107 | PHA-4/Foxa mediates diet-restriction-induced longevity of C. elegans. Nature, 2007, 447, 550-555. | 13.7 | 500 |
| 108 | SMK-1, an Essential Regulator of DAF-16-Mediated Longevity. Cell, 2006, 124, 1039-1053. | 13.5 | 213 |

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| 109 | The trifecta of aging in Caenorhabditis elegans. Experimental Gerontology, 2006, 41, 894-903. | 1.2 | 99 |
| 110 | Opposing Activities Protect Against Age-Onset Proteotoxicity. Science, 2006, 313, 1604-1610. | 6.0 | 782 |
| 111 | Uncoupling of Longevity and Telomere Length in C. elegans. PLoS Genetics, 2005, 1, e30. | 1.5 | 55 |
| 112 | Metabolism, ubiquinone synthesis, and longevity. Genes and Development, 2005, 19, 2399-2406. | 2.7 | 35 |
| 113 | MAPping innate immunity. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12781-12782. | 3.3 | 16 |
| 114 | Automated approach for quantitative analysis of complex peptide mixtures from tandem mass spectra. Nature Methods, 2004, 1, 39-45. | 9.0 | 682 |
| 115 | The specifics of small interfering RNA specificity. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 6289-6291. | 3.3 | 75 |
| 116 | Rates of Behavior and Aging Specified by Mitochondrial Function During Development. Science, 2002, 298, 2398-2401. | 6.0 | 974 |
| 117 | Regulation of Life-Span by Germ-Line Stem Cells in Caenorhabditis elegans. Science, 2002, 295, 502-505. | 6.0 | 439 |
| 118 | Timing Requirements for Insulin/IGF-1 Signaling in C. elegans. Science, 2002, 298, 830-834. | 6.0 | 426 |
| 119 | Separable Functions of <i>ORC5</i> in Replication Initiation and Silencing in <i>Saccharomyces cerevisiae</i>. Genetics, 1997, 147, 1053-1062. | 1.2 | 64 |
| 120 | On the origin of a silencer. Trends in Biochemical Sciences, 1995, 20, 231-235. | 3.7 | 21 |