Coleen T Murphy

List of Publications by Year
in descending order

84 papers	9,894 citations	76326 40 h-index	66911 78 g-index
112 all docs	112 docs citations	112 times ranked	8806 citing authors

#	Article	IF	Citations
1	Novel elasticity measurements reveal C.Âelegans cuticle stiffens with age and in a long-lived mutant. Biophysical Journal, 2022, 121, 515-524.	0.5	13
2	GAIT-GM integrative cross-omics analyses reveal cholinergic defects in a C. elegans model of Parkinsonâ€™s disease. Scientific Reports, 2022, 12, 3268.	3.3	2
3	Metabolic adaptation to hypoxia: do worms and cancer cells share common metabolic responses to hypoxic stress?. Cell Death and Differentiation, 2021, 28, 1434-1436.	11.2	8
4	High-throughput behavioral screen in C. elegans reveals Parkinsonâ€™s disease drug candidates. Communications Biology, 2021, 4, 203.	4.4	23
5	Reduced insulin/IGF1 signaling prevents immune aging via ZIP-10/bZIPâ€“mediated feedforward loop. Journal of Cell Biology, 2021, 220, .	5.2	18
6	Protocol for transgenerational learned pathogen avoidance behavior assays in Caenorhabditis elegans. STAR Protocols, 2021, 2, 100384.	1.2	4
7	Oleic Acid Protects Caenorhabditis Mothers From Mating-Induced Death and the Cost of Reproduction. Frontiers in Cell and Developmental Biology, 2021, 9, 690373.	3.7	11
8	CeAid: a smartphone application for logging and plotting Caenorhabditis elegans assays. G3: Genes, Genomes, Genetics, 2021, 11, .	1.8	5
9	The role of the Cer1 transposon in horizontal transfer of transgenerational memory. Cell, 2021, 184, 4697-4712.e18.	28.9	41
10	Sex and death. Current Topics in Developmental Biology, 2021, 144, 353-375.	2.2	5
11	PQM-1 controls hypoxic survival via regulation of lipid metabolism. Nature Communications, 2020, 11, 4627.	12.8	16
12	Metformin rescues Parkinsonâ€™s disease phenotypes caused by hyperactive mitochondria. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26438-26447.	7.1	95
13	Mitochondrial hyperactivity as a potential therapeutic target in Parkinsonâ€™s disease. Translational Medicine of Aging, 2020, 4, 117-120.	1.3	8
14	C.Âelegans interprets bacterial non-coding RNAs to learn pathogenic avoidance. Nature, 2020, 586, 445-451.	27.8	124
15	CREB Non-autonomously Controls Reproductive Aging through Hedgehog/Patched Signaling. Developmental Cell, 2020, 54, 92-105.e5.	7.0	26
16	Transcriptional Profiling of C. elegans Adult Cells and Tissues with Age. Methods in Molecular Biology, 2020, 2144, 177-186.	0.9	4
17	Short and sweet. ELife, 2020, 9, .	6.0	1
18	Being open to the unexpected. Molecular Biology of the Cell, 2019, 30, 2862-2864.	2.1	0

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19	Piwi/PRG-1 Argonaute and TGF-Î² Mediate Transgenerational Learned Pathogenic Avoidance. Cell, 2019, 177, 1827-1841.e12.	28.9	199
20	A PBX/MEIS Complex Balances Reproduction and Somatic Resilience. Developmental Cell, 2019, 49, 157-158.	7.0	1
21	Gut feelings: microRNAs tune protein quality control and ageing to odours. Nature Metabolism, 2019, 1, 306-307.	11.9	0
22	Nervous system-wide profiling of presynaptic mRNAs reveals regulators of associative memory. Scientific Reports, 2019, 9, 20314.	3.3	11
23	Investigating Mechanisms that Control Ubiquitin-Mediated DAF-16/FOXO Protein Turnover. Methods in Molecular Biology, 2019, 1890, 41-49.	0.9	0
24	Insulin-like peptides and the mTOR-TFEB pathway protect Caenorhabditis elegans hermaphrodites from mating-induced death. ELife, 2019, 8, .	6.0	24
25	Insulin Signaling Regulates Oocyte Quality Maintenance with Age via Cathepsin B Activity. Current Biology, 2018, 28, 753-760.e4.	3.9	45
26	Activation of GÎ±q Signaling Enhances Memory Consolidation and Slows Cognitive Decline. Neuron, 2018, 98, 562-574.e5.	8.1	35
27	Regulation of reproduction and longevity by nutrient-sensing pathways. Journal of Cell Biology, 2018, 217, 93-106.	5.2	118
28	The nematode Caenorhabditis elegans as a model for aging research. Drug Discovery Today: Disease Models, 2018, 27, 3-13.	1.2	38
29	Caenorhabditis elegans sperm carry a histone-based epigenetic memory of both spermatogenesis and oogenesis. Nature Communications, 2018, 9, 4310.	12.8	63
30	An integrative tissue-network approach to identify and test human disease genes. Nature Biotechnology, 2018, 36, 1091-1099.	17.5	54
31	Transcriptome analysis of adult Caenorhabditis elegans cells reveals tissue-specific gene and isoform expression. PLoS Genetics, 2018, 14, e1007559.	3.5	151
32	Conserved regulators of cognitive aging: From worms to humans. Behavioural Brain Research, 2017, 322, 299-310.	2.2	31
33	RNA surveillance via nonsense-mediated mRNA decay is crucial for longevity in daf-2/insulin/IGF-1 mutant C. elegans. Nature Communications, 2017, 8, 14749.	12.8	59
34	Reproductive Ageing. Healthy Ageing and Longevity, 2017, , 137-162.	0.2	0
35	Mating and male pheromone kill Caenorhabditis males through distinct mechanisms. ELife, 2017, 6, .	6.0	57
36	Cell-Type-Specific Transcriptome Analysis in the Drosophila Mushroom Body Reveals Memory-Related Changes in Gene Expression. Cell Reports, 2016, 15, 1580-1596.	6.4	85

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37	The C. elegans adult neuronal IIS/FOXO transcriptome reveals adult phenotype regulators. Nature, 2016, 529, 92-96.	27.8	196
38	The Neuronal Kinesin UNC-104/KIF1A Is a Key Regulator of Synaptic Aging and Insulin Signaling-Regulated Memory. Current Biology, 2016, 26, 605-615.	3.9	49
39	Feeding the germline. Genes and Development, 2016, 30, 249-250.	5.9	1
40	The cell biology of aging. Molecular Biology of the Cell, 2015, 26, 4524-4531.	2.1	139
41	Genome Sequencing Fishes out Longevity Genes. Cell, 2015, 163, 1312-1313.	28.9	4
42	Cell-Specific Transcriptional Profiling of Ciliated Sensory Neurons Reveals Regulators of Behavior and Extracellular Vesicle Biogenesis. Current Biology, 2015, 25, 3232-3238.	3.9	75
43	Genome-wide Functional Analysis of CREB/Long-Term Memory-Dependent Transcription Reveals Distinct Basal and Memory Gene Expression Programs. Neuron, 2015, 85, 330-345.	8.1	122
44	For Longevity, Perception is Everything. Cell, 2015, 160, 807-809.	28.9	3
45	C. elegans maximum velocity correlates with healthspan and is maintained in worms with an insulin receptor mutation. Nature Communications, 2015, 6, 8919.	12.8	182
46	Dauer-independent insulin/IGF-1-signalling implicates collagen remodelling in longevity. Nature, 2015, 519, 97-101.	27.8	251
47	A microfluidic device and automatic counting system for the study of C. elegans reproductive aging. Lab on A Chip, 2015, 15, 524-531.	6.0	38
48	An Insulin-to-Insulin Regulatory Network Orchestrates Phenotypic Specificity in Development and Physiology. PLoS Genetics, 2014, 10, e1004225.	3.5	90
49	Mating Induces Shrinking and Death in Caenorhabditis Mothers. Science, 2014, 343, 536-540.	12.6	127
50	C. elegans positive olfactory associative memory is a molecularly conserved behavioral paradigm. Neurobiology of Learning and Memory, 2014, 115, 86-94.	1.9	45
51	DAF-16 and PQM-1: Partners in longevity. Aging, 2014, 6, 5-6.	3.1	6
52	PQM-1 Complements DAF-16 as a Key Transcriptional Regulator of DAF-2-Mediated Development and Longevity. Cell, 2013, 154, 676-690.	28.9	270
53	A New System for Comparative Functional Genomics of Saccharomyces Yeasts. Genetics, 2013, 195, 275-287.	2.9	27
54	Insulin/insulin-like growth factor signaling in C. elegans. WormBook, 2013, , 1-43.	5.3	401

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55	Coleen Murphy: How to stay young at heart, body, and mind. Journal of Cell Biology, 2012, 197, 342-343.	5.2	1
56	Cell biology of disease and aging: a two-way street. Molecular Biology of the Cell, 2012, 23, 975-975.	2.1	0
57	The Intersection of Aging, Longevity Pathways, and Learning and Memory in C. elegans. Frontiers in Genetics, 2012, 3, 259.	2.3	39
58	C. elegans Positive Butanone Learning, Short-term, and Long-term Associative Memory Assays. Journal of Visualized Experiments, 2011, , .	0.3	64
59	Caenorhabditis elegans reproductive aging: Regulation and underlying mechanisms. Genesis, 2011, 49, 53-65.	1.6	40
60	The Evolutionarily Conserved Longevity Determinants HCF-1 and SIR-2.1/SIRT1 Collaborate to Regulate DAF-16/FOXO. PLoS Genetics, 2011, 7, e1002235.	3.5	106
61	EGF signalling activates the ubiquitin proteasome system to modulate C. elegans lifespan. EMBO Journal, 2011, 30, 2990-3003.	7.8	90
62	Aging: miRacles of Longevity?. Current Biology, 2010, 20, R1076-R1078.	3.9	3
63	Integration of diverse inputs in the regulation of Caenorhabditis elegans DAFâ€16/FOXO. Developmental Dynamics, 2010, 239, 1405-1412.	1.8	77
64	Insulin Signaling and Dietary Restriction Differentially Influence the Decline of Learning and Memory with Age. PLoS Biology, 2010, 8, e1000372.	5.6	223
65	The role of insulin/IGF-like signaling in C. elegans longevity and aging. DMM Disease Models and Mechanisms, 2010, 3, 415-419.	2.4	84
66	TGF-Î² and Insulin Signaling Regulate Reproductive Aging via Oocyte and Germline Quality Maintenance. Cell, 2010, 143, 299-312.	28.9	238
67	TGF-ÃŸ Sma/Mab Signaling Mutations Uncouple Reproductive Aging from Somatic Aging. PLoS Genetics, 2009, 5, e1000789.	3.5	125
68	Conditionâ€adapted stress and longevity gene regulation by Caenorhabditis elegans SKNâ€1/Nrf. Aging Cell, 2009, 8, 524-541.	6.7	302
69	Glucose Shortens the Life Span of C. elegans by Downregulating DAF-16/FOXO Activity and Aquaporin Gene Expression. Cell Metabolism, 2009, 10, 379-391.	16.2	299
70	The endocrine regulation of aging in Caenorhabditis elegans. Molecular and Cellular Endocrinology, 2009, 299, 51-57.	3.2	27
71	Global Prediction of Tissue-Specific Gene Expression and Context-Dependent Gene Networks in Caenorhabditis elegans. PLoS Computational Biology, 2009, 5, e1000417.	3.2	84
72	Tissue entrainment by feedback regulation of insulin gene expression in the endoderm of Caenorhabditis elegans. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 19046-19050.	7.1	155

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73	The C. elegans TGF-Î² Dauer Pathway Regulates Longevity via Insulin Signaling. Current Biology, 2007, 17, 1635-1645.	3.9	242
74	Using whole-genome transcriptional analyses to identify molecular mechanisms of aging. Drug Discovery Today Disease Mechanisms, 2006, 3, 41-46.	0.8	11
75	Enrichment of regulatory motifs upstream of predicted DAF-16 targets. Nature Genetics, 2006, 38, 397-398.	21.4	22
76	The search for DAF-16/FOXO transcriptional targets: Approaches and discoveries. Experimental Gerontology, 2006, 41, 910-921.	2.8	161
77	A review of Genes that Act Downstream of the DAF-16 FOXO Transcription Factor to Influence the Life Span of C. Elegans. , 2005, , 27-37.		3
78	Comparing genomic expression patterns across species identifies shared transcriptional profile in aging. Nature Genetics, 2004, 36, 197-204.	21.4	434
79	Regulation of Aging and Age-Related Disease by DAF-16 and Heat-Shock Factor. Science, 2003, 300, 1142-1145.	12.6	1,346
80	Genes that act downstream of DAF-16 to influence the lifespan of Caenorhabditis elegans. Nature, 2003, 424, 277-283.	27.8	1,998
81	A myosin II mutation uncouples ATPase activity from motility and shortens step size. Nature Cell Biology, 2001, 3, 311-315.	10.3	73
82	Variable surface loops and myosin activity: accessories to a motor. , 2000, 21, 139-151.		45
83	The Sequence of the Myosin 50â^'20K Loop Affects Myosin's Affinity for Actin throughout the Actinâ^'Myosin ATPase Cycle and Its Maximum ATPase Activityâ€. Biochemistry, 1999, 38, 3785-3792.	2.5	83
84	Dictyostelium Myosin 25-50K Loop Substitutions Specifically Affect ADP Release Rates. Biochemistry, 1998, 37, 6738-6744.	2.5	87