Tim Schedl

List of Publications by Year
in descending order

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86	7,622	57719	64755
papers	citations	44 h-index	79 g-index

111	111	111	7586
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	CED-12/ELMO, a Novel Member of the CrkII/Dock180/Rac Pathway, Is Required for Phagocytosis and Cell Migration. Cell, 2001, 107, 27-41.	13.5	520
2	On the Control of Oocyte Meiotic Maturation and Ovulation inCaenorhabditis elegans. Developmental Biology, 1999, 205, 111-128.	0.9	451
3	Whole-genome sequencing and variant discovery in C. elegans. Nature Methods, 2008, 5, 183-188.	9.0	380
4	A Sperm Cytoskeletal Protein That Signals Oocyte Meiotic Maturation and Ovulation. Science, 2001, 291, 2144-2147.	6.0	367
5	WormBase 2016: expanding to enable helminth genomic research. Nucleic Acids Research, 2016, 44, D774-D780.	6.5	329
6	High Fat Diet Induced Developmental Defects in the Mouse: Oocyte Meiotic Aneuploidy and Fetal Growth Retardation/Brain Defects. PLoS ONE, 2012, 7, e49217.	1.1	286
7	GLD-1, a Cytoplasmic Protein Essential for Oocyte Differentiation, Shows Stage- and Sex-Specific Expression duringCaenorhabditis elegansGermline Development. Developmental Biology, 1996, 180, 165-183.	0.9	264
8	Somaâ€“Germ Cell Interactions inCaenorhabditis elegans:Multiple Events of Hermaphrodite Germline Development Require the Somatic Sheath and Spermathecal Lineages. Developmental Biology, 1997, 181, 121-143.	0.9	234
9	WormBase: a modern Model Organism Information Resource. Nucleic Acids Research, 2020, 48, D762-D767.	6.5	213
10	Translational Repression of C. elegans p53 by GLD-1 Regulates DNA Damage-Induced Apoptosis. Cell, 2005, 120, 357-368.	13.5	195
11	A High-Resolution C.Âelegans Essential Gene Network Based on Phenotypic Profiling of a Complex Tissue. Cell, 2011, 145, 470-482.	13.5	193
12	Maternal Diabetes Causes Mitochondrial Dysfunction and Meiotic Defects in Murine Oocytes. Molecular Endocrinology, 2009, 23, 1603-1612.	3.7	182
13	WormBase 2017: molting into a new stage. Nucleic Acids Research, 2018, 46, D869-D874.	6.5	172
14	Multiple Functions and Dynamic Activation of MPK-1 Extracellular Signal-Regulated Kinase Signaling inCaenorhabditis elegansGermline Development. Genetics, 2007, 177, 2039-2062.	1.2	166
15	Identification of in vivo mRNA targets of GLD-1, a maxi-KH motif containing protein required for C. elegans germ cell development. Genes and Development, 2001, 15, 2408-2420.	2.7	159
16	WormBase 2014: new views of curated biology. Nucleic Acids Research, 2014, 42, D789-D793.	6.5	149
17	Control of the proliferation versus meiotic development decision in the C. elegans germline through regulation of GLD-1 protein accumulation. Development (Cambridge), 2004, 131, 93-104.	1.2	146
18	Multi-pathway control of the proliferation versus meiotic development decision in the Caenorhabditis elegans germline. Developmental Biology, 2004, 268, 342-357.	0.9	145

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19	Cyclin E and CDK-2 regulate proliferative cell fate and cell cycle progression in the C. elegans germline. Development (Cambridge), 2011, 138, 2223-2234.	1.2	142
20	WormBase in 2022â€"data, processes, and tools for analyzing Caenorhabditis elegans. Genetics, 2022, 220, .	1.2	128
21	C. elegans ksr-1 and ksr-2 Have Both Unique and Redundant Functions and Are Required for MPK-1 ERK Phosphorylation. Current Biology, 2002, 12, 427-433.	1.8	116
22	Multiple ERK substrates execute single biological processes in Caenorhabditis elegans germ-line development. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 4776-4781.	3.3	113
23	The Caenorhabditis elegans Skp1-Related Gene Family. Current Biology, 2002, 12, 277-287.	1.8	112
24	fog-2 and the Evolution of Self-Fertile Hermaphroditism in Caenorhabditis. PLoS Biology, 2004, 3, e6.	2.6	106
25	Epsin potentiates Notch pathway activity in Drosophilaand C. elegans. Development (Cambridge), 2004, 131, 5807-5815.	1.2	97
26	Sirt2 functions in spindle organization and chromosome alignment in mouse oocyte meiosis. FASEB Journal, 2014, 28, 1435-1445.	0.2	96
27	Mitochondrial Dysfunction and Apoptosis in Cumulus Cells of Type I Diabetic Mice. PLoS ONE, 2010, 5, e15901.	1.1	96
28	Biology of the Caenorhabditis elegans Germline Stem Cell System. Genetics, 2019, 213, 1145-1188.	1.2	94
29	The germline in C. elegans: Origins, proliferation, and silencing. International Review of Cytology, 2001, 203, 139-185.	6.2	90
30	Cell-cell interactions prevent a potential inductive interaction between soma and germline in C. elegans. Cell, 1990, 61, 939-951.	13.5	84
31	Translation repression by GLD-1 protects its mRNA targets from nonsense-mediated mRNA decay in C. elegans. Genes and Development, 2004, 18, 1047-1059.	2.7	83
32	Moremog genes that influence the switch from spermatogenesis to oogenesis in the hermaphrodite germ line ofCaenorhabditis elegans. Genesis, 1993, 14, 471-484.	3.3	82
33	Sirt3 prevents maternal obesity-associated oxidative stress and meiotic defects in mouse oocytes. Cell Cycle, 2015, 14, 2959-2968.	1.3	80
34	A C. elegans patched gene, ptc-1, functions in germ-line cytokinesis. Genes and Development, 2000, 14, 1933-1944.	2.7	80
35	Characterization of Metabolic Patterns in Mouse Oocytes during Meiotic Maturation. Molecular Cell, 2020, 80, 525-540.e9.	4.5	74
36	Stem Cell Proliferation Versus Meiotic Fate Decision in Caenorhabditis elegans. Advances in Experimental Medicine and Biology, 2013, 757, 71-99.	0.8	74

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37	PRPâ€17 and the preâ€mRNA splicing pathway are preferentially required for the proliferation versus meiotic development decision and germline sex determination in Caenorhabditis elegans. Developmental Dynamics, 2010, 239, 1555-1572.	0.8	71
38	The Regulatory Network Controlling the Proliferationâ€“Meiotic Entry Decision in the Caenorhabditis elegans Germ Line. Current Topics in Developmental Biology, 2006, 76, 185-215.	1.0	69
39	Discovery of Anthelmintic Drug Targets and Drugs Using Chokepoints in Nematode Metabolic Pathways. PLoS Pathogens, 2013, 9, e1003505.	2.1	69
40	Introduction to Germ Cell Development in Caenorhabditis elegans. Advances in Experimental Medicine and Biology, 2013, 757, 1-16.	0.8	66
41	GENETIC ANALYSIS OF RESISTANCE TO BENZIMIDAZOLES IN PHYSARUM: DIFFERENTIAL EXPRESSION OF Î²-TUBULIN GENES. Genetics, 1984, 108, 123-141.	1.2	64
42	Mendelian analysis of the organization of actin sequences in Physarum polycephalum. Journal of Molecular Biology, 1982, 160, 41-57.	2.0	60
43	Sex determination in the germ linerevisedversioncorrectedfigure1. WormBook, 2007, , 1-13.	5.3	58
44	MPK-1 ERK Controls Membrane Organization in C.Âelegans Oogenesis via a Sex-Determination Module. Developmental Cell, 2011, 20, 677-688.	3.1	56
45	Analysis of Germline Stem Cell Differentiation Following Loss of GLP-1 Notch Activity in Caenorhabditis elegans. Genetics, 2015, 201, 167-184.	1.2	54
46	Germline Stem Cell Differentiation Entails Regional Control of Cell Fate Regulator GLD-1 in Caenorhabditis elegans. Genetics, 2016, 202, 1085-1103.	1.2	53
47	Model organisms contribute to diagnosis and discovery in the undiagnosed diseases network: current state and a future vision. Orphanet Journal of Rare Diseases, 2021, 16, 206.	1.2	53
48	GENETICS OF THE TUBULIN GENE FAMILIES OF PHYSARUM. Genetics, 1984, 108, 143-164.	1.2	45
49	Caenorhabditis elegans lin-45 raf Is Essential for Larval Viability, Fertility and the Induction of Vulval Cell Fates. Genetics, 2002, 160, 481-492.	1.2	45
50	Rapid, population-wide declines in stem cell number and activity during reproductive aging inC. elegans. Development (Cambridge), 2019, 146, .	1.2	44
51	Initiation of Meiotic Development Is Controlled by Three Post-transcriptional Pathways inCaenorhabditis elegans. Genetics, 2018, 209, 1197-1224.	1.2	38
52	Caenorhabditis elegans prom-1Is Required for Meiotic Prophase Progression and Homologous Chromosome Pairing. Molecular Biology of the Cell, 2007, 18, 4911-4920.	0.9	34
53	GLP-1 Notchâ€”LAG-1 CSL control of the germline stem cell fate is mediated by transcriptional targets lst-1 and sygl-1. PLoS Genetics, 2020, 16, e1008650.	1.5	34
54	METT-10, A Putative Methyltransferase, Inhibits Germ Cell Proliferative Fate in Caenorhabditis elegans. Genetics, 2009, 183, 233-247.	1.2	33

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55	Differing roles of pyruvate dehydrogenase kinases during mouse oocyte maturation. Journal of Cell Science, 2015, 128, 2319-2329.	1.2	31
56	C. Elegans Star Proteins, Gld-1 And Asd-2, Regulate Specific RNA Targets to Control Development. Advances in Experimental Medicine and Biology, 2010, 693, 106-122.	0.8	31
57	A Role for Dynein in the Inhibition of Germ Cell Proliferative Fate. Molecular and Cellular Biology, 2009, 29, 6128-6139.	1.1	30
58	Rab5a is required for spindle length control and kinetochoreâ€microtubule attachment during meiosis in oocytes. FASEB Journal, 2014, 28, 4026-4035.	0.2	30
59	A plasmodial Î±-tubulin cDNA from Physarum polycephalum. Journal of Molecular Biology, 1985, 183, 633-638.	2.0	28
60	TEGâ€1 CD2BP2 regulates stem cell proliferation and sex determination in the C. elegans germ line and physically interacts with the UAFâ€1 U2AF65 splicing factor. Developmental Dynamics, 2012, 241, 505-521.	0.8	25
61	Caenorhabditis elegans glp-4Encodes a Valyl Aminoacyl tRNA Synthetase. G3: Genes, Genomes, Genetics, 2015, 5, 2719-2728.	0.8	25
62	Micropublication: incentivizing community curation and placing unpublished data into the public domain. Database: the Journal of Biological Databases and Curation, 2018, 2018, .	1.4	22
63	Generation and purification of highly specific antibodies for detecting post-translationally modified proteins in vivo. Nature Protocols, 2014, 9, 375-395.	5.5	21
64	Caenorhabditis Globin genes: Rapid intronic divergence contrasts with conservation of silent exonic sites. Journal of Molecular Evolution, 1996, 43, 101-108.	0.8	17
65	EOR-2 Is an Obligate Binding Partner of the BTBâ€“Zinc Finger Protein EOR-1 in Caenorhabditis elegans. Genetics, 2010, 184, 899-913.	1.2	17
66	Cell Cycle Analysis in the C. elegans Germline with the Thymidine Analog EdU. Journal of Visualized Experiments, 2018, , .	0.2	17
67	Caenorhabditis nomenclature. WormBook, 2018, 2018, 1-14.	5.3	13
68	The NEMP family supports metazoan fertility and nuclear envelope stiffness. Science Advances, 2020, 6, eabb4591.	4.7	11
69	A dominant negative variant of RAB5B disrupts maturation of surfactant protein B and surfactant protein C. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	9
70	Somatic control of germ cell development in Caenorhabditis elegans. Seminars in Developmental Biology, 1994, 5, 21-30.	1.3	8
71	Cell cycle accumulation of the proliferating cell nuclear antigen PCN-1 transitions from continuous in the adult germline to intermittent in the early embryo of C. elegans. BMC Developmental Biology, 2018, 18, 12.	2.1	8
72	The role of cell-cell interactions in postembryonic development of the Caenorhabditis elegans germ line. Current Opinion in Genetics and Development, 1991, 1, 185-190.	1.5	7

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73	Functional analysis of a de novo variant in the neurodevelopment and generalized epilepsy disease gene NBEA. Molecular Genetics and Metabolism, 2021, 134, 195-202.	0.5	5
74	Release of CHK-2 from PPM-1.D anchorage schedules meiotic entry. Science Advances, 2022, 8, eabl8861.	4.7	5
75	Functional analysis of a novel de novo variant in PPP5C associated with microcephaly, seizures, and developmental delay. Molecular Genetics and Metabolism, 2022, 136, 65-73.	0.5	4
76	Reevaluation of the role of LIP-1 as an ERK/MPK-1 dual specificity phosphatase in the C. elegans germline. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	2
77	Cellular Reprogramming: Chromatin Puts On the Brake. Current Biology, 2011, 21, R157-R159.	1.8	1
78	Indirect Immunofluorescence of Proteins in Oogenic Germ Cells of Caenorhabditis elegans. Methods in Molecular Biology, 2016, 1457, 9-17.	0.4	1
79	Comparison of the efficiency of TIR1 transgenes to provoke auxin induced LAG-1 degradation in germline stem cells. MicroPublication Biology, 2020, 2020, .	0.1	1
80	The 2009 Genetics Society of America Elizabeth W. Jones Award for Excellence in Education. Genetics, 2009, 181, 835-836.	1.2	0
81	Publishing Interactive Articles: Integrating Journals And Biological Databases. Nature Precedings, 2010, , .	0.1	0
82	G3, GENETICS, and the GSA: Two Journals, One Mission. Genetics, 2011, 189, 1-2.	1.2	0
83	The 2012 Thomas Hunt Morgan Medal. Genetics, 2012, 191, 293-295.	1.2	0
84	Using Next Generation Solexa Sequencing to Identify Genes that Regulate Stem Cell Proliferation in the Caenorhabditis elegans Germline. FASEB Journal, 2009, 23, 699.1.	0.2	0
85	Role of GLD-3 in suppression of the germline stem cell fate. MicroPublication Biology, 2020, 2020, .	0.1	0
86	A simple one-step PCR assay for SNP detection. MicroPublication Biology, 2021, 2021, .	0.1	0