Alex Hajnal

List of Publications by Year
in descending order

62	1,908	304743	276875
papers	citations	22 h-index	41 g-index

70	70	70	2595
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Epidermal Growth Factor Signaling Promotes Sleep through a Combined Series and Parallel Neural Circuit. Current Biology, 2020, 30, 1-16.e13.	3.9	264
2	Notch Inhibition of RAS Signaling Through MAP Kinase Phosphatase LIP-1 During C. elegans Vulval Development. Science, 2001, 291, 1055-1058.	12.6	240
3	Remarkably Divergent Regions Punctuate the Genome Assembly of theCaenorhabditis elegansHawaiian Strain CB4856. Genetics, 2015, 200, 975-989.	2.9	136
4	The Caenorhabditis elegans APC-related gene apr-1 is required for epithelial cell migration and Hox gene expression. Genes and Development, 2000, 14, 874-886.	5.9	95
5	Predictive Modeling of Signaling Crosstalk during C. elegans Vulval Development. PLoS Computational Biology, 2007, 3, e92.	3.2	88
6	The C. elegans homolog of the mammalian tumor suppressor Dep-1/Scc1 inhibits EGFR signaling to regulate binary cell fate decisions. Genes and Development, 2005, 19, 1328-1340.	5.9	78
7	Systemic Regulation of RAS/MAPK Signaling by the Serotonin Metabolite 5-HIAA. PLoS Genetics, 2015, 11, e1005236.	3.5	58
8	Neuron-Specific Regulation of Associative Learning and Memory by MAGI-1 in C. elegans. PLoS ONE, 2009, 4, e6019.	2.5	55
9	EGF Signal Propagation during C. elegans Vulval Development Mediated by ROM-1 Rhomboid. PLoS Biology, 2004, 2, e334.	5.6	52
10	The C.elegans MAPK phosphatase LIP-1 is required for the G2/M meiotic arrest of developing oocytes. EMBO Journal, 2002, 21, 4317-4326.	7.8	51
11	Regulation of anchor cell invasion and uterine cell fates by the egl-43 Evi-1 proto-oncogene in Caenorhabditis elegans. Developmental Biology, 2007, 308, 187-195.	2.0	48
12	Cell fate-specific regulation of EGF receptor trafficking during Caenorhabditis elegans vulval development. EMBO Journal, 2006, 25, 2347-2357.	7.8	46
13	PTEN Negatively Regulates MAPK Signaling during Caenorhabditis elegans Vulval Development. PLoS Genetics, 2012, 8, e1002881.	3.5	40
14	Cellâ€cycle regulation of NOTCH signaling during C. elegans vulval development. Molecular Systems Biology, 2012, 8, 618.	7.2	39
15	A Conserved Function of C. elegans CASY-1 Calsyntenin in Associative Learning. PLoS ONE, 2009, 4, e4880.	2.5	38
16	Ras/MAPK Modifier Loci Revealed by eQTL inCaenorhabditis elegans. G3: Genes, Genomes, Genetics, 2017, 7, 3185-3193.	1.8	38
17	TheC. elegansG-protein-coupled receptor SRA-13 inhibits RAS/MAPK signalling during olfaction and vulval development. Development (Cambridge), 2003, 130, 2567-2577.	2.5	37
18	Signal transduction during C. elegans vulval development: a NeverEnding story. Current Opinion in Genetics and Development, 2015, 32, 1-9.	3.3	36

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19	An In Vivo EGF Receptor Localization Screen in C. elegans Identifies the Ezrin Homolog ERM-1 as a Temporal Regulator of Signaling. PLoS Genetics, 2014, 10, e1004341.	3.5	34
20	WormQTLâ€"public archive and analysis web portal for natural variation data in Caenorhabditis spp. Nucleic Acids Research, 2012, 41, D738-D743.	14.5	33
21	Long-termC. elegansimmobilization enables high resolution developmental studiesin vivo. Lab on A Chip, 2018, 18, 1359-1368.	6.0	30
22	The Caenorhabditis elegans homologue of the protoâ€oncogene ectâ€2 positively regulates RAS signalling during vulval development. EMBO Reports, 2005, 6, 1169-1175.	4.5	29
23	Coordinated Lumen Contraction and Expansion during Vulval Tube Morphogenesis in Caenorhabditis elegans. Developmental Cell, 2012, 23, 494-506.	7.0	29
24	Distinct roles of the Pumilio and FBF translational repressors during C. elegans vulval development. Development (Cambridge), 2006, 133, 3461-3471.	2.5	22
25	LIN-39 and the EGFR/RAS/MAPK pathway regulateC. elegansvulval morphogenesis via the VAB-23 zinc finger protein. Development (Cambridge), 2011, 138, 4649-4660.	2.5	22
26	Loss-of-function of Î²-catenin bar-1 slows development and activates the Wnt pathway in Caenorhabditis elegans. Scientific Reports, 2014, 4, 4926.	3.3	22
27	A universal method for automated gene mapping. Genome Biology, 2005, 6, R19.	9.6	21
28	The C. elegans MAGI-1 protein is a novel component of cell junctions that is required for junctional compartmentalization. Developmental Biology, 2011, 350, 24-31.	2.0	19
29	The Caenorhabditis elegans homolog of the Evi1 proto-oncogene, egl-43, coordinates G1 cell cycle arrest with pro-invasive gene expression during anchor cell invasion. PLoS Genetics, 2020, 16, e1008470.	3.5	19
30	Microfluidic-based imaging of complete Caenorhabditis elegans larval development. Development (Cambridge), 2021, 148, .	2.5	19
31	The Invading Anchor Cell Induces Lateral Membrane Constriction during Vulval Lumen Morphogenesis in C.Âelegans. Developmental Cell, 2017, 42, 271-285.e3.	7.0	17
32	Î²-Integrin de-phosphorylation by the Density-Enhanced Phosphatase DEP-1 attenuates EGFR signaling in C. elegans. PLoS Genetics, 2017, 13, e1006592.	3.5	17
33	Suppression of ras-mediated transformation. Advances in Enzyme Regulation, 1993, 33, 267-272.	2.6	14
34	The hypoxia-response pathway modulates RAS/MAPKâ€"mediated cell fate decisions inCaenorhabditis elegans. Life Science Alliance, 2019, 2, e201800255.	2.8	14
35	Tissue-specific functions of the Caenorhabditis elegans p120 Ras GTPase activating protein GAP-3. Developmental Biology, 2008, 323, 166-176.	2.0	12
36	Emergent Stem Cell Homeostasis in the C.Âelegans Germline Is Revealed by Hybrid Modeling. Biophysical Journal, 2015, 109, 428-438.	0.5	12

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37	The Caenorhabditis elegans homolog of the Opitz syndrome gene, madd-2/Mid1, regulates anchor cell invasion during vulval development. Developmental Biology, 2013, 374, 108-114.	2.0	10
38	The C. elegans hox gene lin-39 controls cell cycle progression during vulval development. Developmental Biology, 2016, 418, 124-134.	2.0	9
39	Reciprocal EGFR signaling in the anchor cell ensures precise inter-organ connection during Caenorhabditis elegans vulval morphogenesis. Development (Cambridge), 2022, 149, .	2.5	8
40	Fine-Tuning the RAS Signaling Pathway. Molecular Cell, 2002, 9, 927-928.	9.7	7
41	Polarized epidermal growth factor secretion ensures robust vulval cell fate specification in Caenorhabditis elegans. Development (Cambridge), 2020, 147, .	2.5	7
42	A DNA replication-independent function of pre-replication complex genes during cell invasion in C. elegans. PLoS Biology, 2022, 20, e3001317.	5.6	7
43	Fluorescent dATP for DNA Synthesis In Vivo. ACS Chemical Biology, 2020, 15, 2996-3003.	3.4	5
44	A Dynamic Physical Model of Cell Migration, Differentiation and Apoptosis in Caenorhabditis elegans. Advances in Experimental Medicine and Biology, 2012, 736, 211-233.	1.6	5
45	The conserved zinc finger protein VAB-23 is an essential regulator of epidermal morphogenesis in Caenorhabditis elegans. Developmental Biology, 2009, 336, 84-93.	2.0	4
46	To Divide or Invade: A Look Behind the Scenes of the Proliferation-Invasion Interplay in the Caenorhabditis elegans Anchor Cell. Frontiers in Cell and Developmental Biology, 2020, 8, 616051.	3.7	4
47	Logic programming to predict cell fate patterns and retrodict genotypes in organogenesis. Journal of the Royal Society Interface, 2014, 11, 20140245.	3.4	3
48	FRAP Analysis of LET-23::GFP in the Vulval Epithelial Cells of Living Caenorhabditis elegans Larvae. Bio-protocol, 2015, 5, .	0.4	3
49	The CHORD protein CHP-1 regulates EGF receptor trafficking and signaling in C. elegans and in human cells. ELife, 2020, 9, .	6.0	3
50	The transcription factor VAB-23 links vulval cell fate specification and morphogenesis. Worm, 2012, 1, 170-175.	1.0	2
51	An intimate look at LET-23 EGFR trafficking in the vulval cells of liveC. eleganslarvae. Worm, 2014, 3, e965605.	1.0	2
52	Cell Fate Determination and Signal Transduction during Caenorhabditis elegans Vulval Development. , 1999, , 157-170.		1
53	Cell cycle control of NOTCH signalling during C. elegans vulval development. Developmental Biology, 2011, 356, 186.	2.0	0
54	Predicting and Retrodicting Fate Patterns in C. elegans Vulval Development using Logic Programming. Biophysical Journal, 2014, 106, 376a.	0.5	0

#	Article	IF	Citations
55	Emergent Behaviours of Stem Cells in Organogenesis Demonstrated by Hybrid Modelling. Biophysical Journal, 2015, 108, 365a.	0.5	0
56	Title is missing!. , 2020, 16, e1008470.		0
57	Title is missing!. , 2020, 16, e1008470.		0
58	Title is missing!. , 2020, 16, e1008470.		0
59	Title is missing!. , 2020, 16, e1008470.		0
60	Title is missing!. , 2020, 16, e1008470.		0
61	Title is missing!. , 2020, 16, e1008470.		0
62	Tissue-specific inhibition of protein sumoylation uncovers diverse SUMO functions during C. elegans vulval development. PLoS Genetics, 2022, 18, e1009978.	3.5	0