

Alex Hajnal

List of Publications by Year in descending order

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62
papers

1,908
citations

304743

22
h-index

276875

41
g-index

70
all docs

70
docs citations

70
times ranked

2595
citing authors

#	ARTICLE	IF	CITATIONS
1	Reciprocal EGFR signaling in the anchor cell ensures precise inter-organ connection during <i>Caenorhabditis elegans</i> vulval morphogenesis. <i>Development (Cambridge)</i> , 2022, 149, .	2.5	8
2	A DNA replication-independent function of pre-replication complex genes during cell invasion in <i>C. elegans</i> . <i>PLoS Biology</i> , 2022, 20, e3001317.	5.6	7
3	Tissue-specific inhibition of protein sumoylation uncovers diverse SUMO functions during <i>C. elegans</i> vulval development. <i>PLoS Genetics</i> , 2022, 18, e1009978.	3.5	0
4	Microfluidic-based imaging of complete <i>Caenorhabditis elegans</i> larval development. <i>Development (Cambridge)</i> , 2021, 148, .	2.5	19
5	Epidermal Growth Factor Signaling Promotes Sleep through a Combined Series and Parallel Neural Circuit. <i>Current Biology</i> , 2020, 30, 1-16.e13.	3.9	264
6	Fluorescent dATP for DNA Synthesis <i>In Vivo</i> . <i>ACS Chemical Biology</i> , 2020, 15, 2996-3003.	3.4	5
7	The <i>Caenorhabditis elegans</i> homolog of the Evi1 proto-oncogene, <i>egl-43</i> , coordinates G1 cell cycle arrest with pro-invasive gene expression during anchor cell invasion. <i>PLoS Genetics</i> , 2020, 16, e1008470.	3.5	19
8	To Divide or Invade: A Look Behind the Scenes of the Proliferation-Invasion Interplay in the <i>Caenorhabditis elegans</i> Anchor Cell. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 616051.	3.7	4
9	Polarized epidermal growth factor secretion ensures robust vulval cell fate specification in <i>Caenorhabditis elegans</i> . <i>Development (Cambridge)</i> , 2020, 147, .	2.5	7
10	The CHORD protein CHP-1 regulates EGF receptor trafficking and signaling in <i>C. elegans</i> and in human cells. <i>ELife</i> , 2020, 9, .	6.0	3
11	Title is missing!. , 2020, 16, e1008470.		0
12	Title is missing!. , 2020, 16, e1008470.		0
13	Title is missing!. , 2020, 16, e1008470.		0
14	Title is missing!. , 2020, 16, e1008470.		0
15	Title is missing!. , 2020, 16, e1008470.		0
16	Title is missing!. , 2020, 16, e1008470.		0
17	The hypoxia-response pathway modulates RAS/MAPK-mediated cell fate decisions in <i>Caenorhabditis elegans</i> . <i>Life Science Alliance</i> , 2019, 2, e201800255.	2.8	14
18	Long-term <i>C. elegans</i> immobilization enables high resolution developmental studies <i>in vivo</i> . <i>Lab on A Chip</i> , 2018, 18, 1359-1368.	6.0	30

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19	The Invading Anchor Cell Induces Lateral Membrane Constriction during Vulval Lumen Morphogenesis in <i>C.Âlegans</i> . <i>Developmental Cell</i> , 2017, 42, 271-285.e3.	7.0	17
20	Ras/MAPK Modifier Loci Revealed by eQTL in <i>Caenorhabditis elegans</i> . <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 3185-3193.	1.8	38
21	Î²-Integrin de-phosphorylation by the Density-Enhanced Phosphatase DEP-1 attenuates EGFR signaling in <i>C. elegans</i> . <i>PLoS Genetics</i> , 2017, 13, e1006592.	3.5	17
22	The <i>C. elegans</i> hox gene <i>lin-39</i> controls cell cycle progression during vulval development. <i>Developmental Biology</i> , 2016, 418, 124-134.	2.0	9
23	Emergent Stem Cell Homeostasis in the <i>C.Âlegans</i> Germline Is Revealed by Hybrid Modeling. <i>Biophysical Journal</i> , 2015, 109, 428-438.	0.5	12
24	Remarkably Divergent Regions Punctuate the Genome Assembly of the <i>Caenorhabditis elegans</i> Hawaiian Strain CB4856. <i>Genetics</i> , 2015, 200, 975-989.	2.9	136
25	Signal transduction during <i>C. elegans</i> vulval development: a NeverEnding story. <i>Current Opinion in Genetics and Development</i> , 2015, 32, 1-9.	3.3	36
26	Systemic Regulation of RAS/MAPK Signaling by the Serotonin Metabolite 5-HIAA. <i>PLoS Genetics</i> , 2015, 11, e1005236.	3.5	58
27	Emergent Behaviours of Stem Cells in Organogenesis Demonstrated by Hybrid Modelling. <i>Biophysical Journal</i> , 2015, 108, 365a.	0.5	0
28	FRAP Analysis of LET-23::GFP in the Vulval Epithelial Cells of Living <i>Caenorhabditis elegans</i> Larvae. <i>Bio-protocol</i> , 2015, 5, .	0.4	3
29	An In Vivo EGF Receptor Localization Screen in <i>C. elegans</i> Identifies the Ezrin Homolog ERM-1 as a Temporal Regulator of Signaling. <i>PLoS Genetics</i> , 2014, 10, e1004341.	3.5	34
30	An intimate look at LET-23 EGFR trafficking in the vulval cells of live <i>C. elegans</i> larvae. <i>Worm</i> , 2014, 3, e965605.	1.0	2
31	Logic programming to predict cell fate patterns and retrodict genotypes in organogenesis. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140245.	3.4	3
32	Predicting and Retrodicting Fate Patterns in <i>C. elegans</i> Vulval Development using Logic Programming. <i>Biophysical Journal</i> , 2014, 106, 376a.	0.5	0
33	Loss-of-function of Î²-catenin <i>bar-1</i> slows development and activates the Wnt pathway in <i>Caenorhabditis elegans</i> . <i>Scientific Reports</i> , 2014, 4, 4926.	3.3	22
34	The <i>Caenorhabditis elegans</i> homolog of the Opitz syndrome gene, <i>madd-2/Mid1</i> , regulates anchor cell invasion during vulval development. <i>Developmental Biology</i> , 2013, 374, 108-114.	2.0	10
35	PTEN Negatively Regulates MAPK Signaling during <i>Caenorhabditis elegans</i> Vulval Development. <i>PLoS Genetics</i> , 2012, 8, e1002881.	3.5	40
36	WormQTLâ€™ public archive and analysis web portal for natural variation data in <i>Caenorhabditis</i> spp. <i>Nucleic Acids Research</i> , 2012, 41, D738-D743.	14.5	33

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37	The transcription factor VAB-23 links vulval cell fate specification and morphogenesis. <i>Worm</i> , 2012, 1, 170-175.	1.0	2
38	Coordinated Lumen Contraction and Expansion during Vulval Tube Morphogenesis in <i>Caenorhabditis elegans</i> . <i>Developmental Cell</i> , 2012, 23, 494-506.	7.0	29
39	Cell cycle regulation of NOTCH signaling during <i>C. elegans</i> vulval development. <i>Molecular Systems Biology</i> , 2012, 8, 618.	7.2	39
40	A Dynamic Physical Model of Cell Migration, Differentiation and Apoptosis in <i>Caenorhabditis elegans</i> . <i>Advances in Experimental Medicine and Biology</i> , 2012, 736, 211-233.	1.6	5
41	The <i>C. elegans</i> MAGI-1 protein is a novel component of cell junctions that is required for junctional compartmentalization. <i>Developmental Biology</i> , 2011, 350, 24-31.	2.0	19
42	Cell cycle control of NOTCH signalling during <i>C. elegans</i> vulval development. <i>Developmental Biology</i> , 2011, 356, 186.	2.0	0
43	LIN-39 and the EGFR/RAS/MAPK pathway regulate <i>C. elegans</i> vulval morphogenesis via the VAB-23 zinc finger protein. <i>Development (Cambridge)</i> , 2011, 138, 4649-4660.	2.5	22
44	A Conserved Function of <i>C. elegans</i> CASY-1 Calsyntenin in Associative Learning. <i>PLoS ONE</i> , 2009, 4, e4880.	2.5	38
45	The conserved zinc finger protein VAB-23 is an essential regulator of epidermal morphogenesis in <i>Caenorhabditis elegans</i> . <i>Developmental Biology</i> , 2009, 336, 84-93.	2.0	4
46	Neuron-Specific Regulation of Associative Learning and Memory by MAGI-1 in <i>C. elegans</i> . <i>PLoS ONE</i> , 2009, 4, e6019.	2.5	55
47	Tissue-specific functions of the <i>Caenorhabditis elegans</i> p120 Ras GTPase activating protein GAP-3. <i>Developmental Biology</i> , 2008, 323, 166-176.	2.0	12
48	Predictive Modeling of Signaling Crosstalk during <i>C. elegans</i> Vulval Development. <i>PLoS Computational Biology</i> , 2007, 3, e92.	3.2	88
49	Regulation of anchor cell invasion and uterine cell fates by the <i>egl-43</i> Evi-1 proto-oncogene in <i>Caenorhabditis elegans</i> . <i>Developmental Biology</i> , 2007, 308, 187-195.	2.0	48
50	Cell fate-specific regulation of EGF receptor trafficking during <i>Caenorhabditis elegans</i> vulval development. <i>EMBO Journal</i> , 2006, 25, 2347-2357.	7.8	46
51	Distinct roles of the Pumilio and FBF translational repressors during <i>C. elegans</i> vulval development. <i>Development (Cambridge)</i> , 2006, 133, 3461-3471.	2.5	22
52	The <i>Caenorhabditis elegans</i> homologue of the proto-oncogene <i>ect2</i> positively regulates RAS signalling during vulval development. <i>EMBO Reports</i> , 2005, 6, 1169-1175.	4.5	29
53	The <i>C. elegans</i> homolog of the mammalian tumor suppressor <i>Dep-1/Scc1</i> inhibits EGFR signaling to regulate binary cell fate decisions. <i>Genes and Development</i> , 2005, 19, 1328-1340.	5.9	78
54	A universal method for automated gene mapping. <i>Genome Biology</i> , 2005, 6, R19.	9.6	21

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55	EGF Signal Propagation during <i>C. elegans</i> Vulval Development Mediated by ROM-1 Rhomboid. <i>PLoS Biology</i> , 2004, 2, e334.	5.6	52
56	The <i>C. elegans</i> G-protein-coupled receptor SRA-13 inhibits RAS/MAPK signalling during olfaction and vulval development. <i>Development (Cambridge)</i> , 2003, 130, 2567-2577.	2.5	37
57	Fine-Tuning the RAS Signaling Pathway. <i>Molecular Cell</i> , 2002, 9, 927-928.	9.7	7
58	The <i>C. elegans</i> MAPK phosphatase LIP-1 is required for the G2/M meiotic arrest of developing oocytes. <i>EMBO Journal</i> , 2002, 21, 4317-4326.	7.8	51
59	Notch Inhibition of RAS Signaling Through MAP Kinase Phosphatase LIP-1 During <i>C. elegans</i> Vulval Development. <i>Science</i> , 2001, 291, 1055-1058.	12.6	240
60	The <i>Caenorhabditis elegans</i> APC-related gene <i>apr-1</i> is required for epithelial cell migration and <i>Hox</i> gene expression. <i>Genes and Development</i> , 2000, 14, 874-886.	5.9	95
61	Cell Fate Determination and Signal Transduction during <i>Caenorhabditis elegans</i> Vulval Development. , 1999, , 157-170.		1
62	Suppression of ras-mediated transformation. <i>Advances in Enzyme Regulation</i> , 1993, 33, 267-272.	2.6	14