

# Joseph G Culotti

## List of Publications by Year in descending order

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51  
papers

6,945  
citations

126907

33  
h-index

206112

48  
g-index

51  
all docs

51  
docs citations

51  
times ranked

4749  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deleted in Colorectal Cancer (DCC) Encodes a Netrin Receptor. <i>Cell</i> , 1996, 87, 175-185.	28.9	934
2	Mutant sensory cilia in the nematode <i>Caenorhabditis elegans</i> . <i>Developmental Biology</i> , 1986, 117, 456-487.	2.0	853
3	The <i>unc-5</i> , <i>unc-6</i> , and <i>unc-40</i> genes guide circumferential migrations of pioneer axons and mesodermal cells on the epidermis in <i>C. elegans</i> . <i>Neuron</i> , 1990, 4, 61-85.	8.1	841
4	UNC-6, a laminin-related protein, guides cell and pioneer axon migrations in <i>C. elegans</i> . <i>Neuron</i> , 1992, 9, 873-881.	8.1	471
5	Axonal guidance mutants of <i>Caenorhabditis elegans</i> identified by filling sensory neurons with fluorescein dyes. <i>Developmental Biology</i> , 1985, 111, 158-170.	2.0	427
6	UNC-5, a transmembrane protein with immunoglobulin and thrombospondin type 1 domains, guides cell and pioneer axon migrations in <i>C. elegans</i> . <i>Cell</i> , 1992, 71, 289-299.	28.9	389
7	Semaphorin and Eph Receptor Signaling Guide a Series of Cell Movements for Ventral Enclosure in <i>C. elegans</i> . <i>Current Biology</i> , 2012, 22, 1-11.	3.9	352
8	Expression of the UNC-5 guidance receptor in the touch neurons of <i>C. elegans</i> steers their axons dorsally. <i>Nature</i> , 1993, 364, 327-330.	27.8	229
9	<i>C. elegans</i> Slit Acts in Midline, Dorsal-Ventral, and Anterior-Posterior Guidance via the SAX-3/Robo Receptor. <i>Neuron</i> , 2001, 32, 25-38.	8.1	209
10	Pioneer Axon Guidance by UNC-129, a <i>C. elegans</i> TGF- $\beta$ . , 1998, 281, 706-709.		194
11	Dopamine modulates the plasticity of mechanosensory responses in <i>Caenorhabditis elegans</i> . <i>EMBO Journal</i> , 2004, 23, 473-482.	7.8	190
12	Suppressors of Ectopic UNC-5 Growth Cone Steering Identify Eight Genes Involved in Axon Guidance in <i>Caenorhabditis elegans</i> . <i>Developmental Biology</i> , 1998, 194, 72-85.	2.0	165
13	Netrin-G1: a Novel Glycosyl Phosphatidylinositol-Linked Mammalian Netrin That Is Functionally Divergent from Classical Netrins. <i>Journal of Neuroscience</i> , 2000, 20, 6540-6550.	3.6	143
14	DCC and netrins. <i>Current Opinion in Cell Biology</i> , 1998, 10, 609-613.	5.4	124
15	Multiple Ephrins Control Cell Organization in <i>C. elegans</i> Using Kinase-Dependent and -Independent Functions of the VAB-1 Eph Receptor. <i>Molecular Cell</i> , 1999, 4, 903-913.	9.7	101
16	Functions of netrins and semaphorins in axon guidance. <i>Current Opinion in Neurobiology</i> , 1996, 6, 81-88.	4.2	92
17	UNC-52/Perlecan affects gonadal leader cell migrations in <i>c. elegans</i> hermaphrodites through alterations in growth factor signaling. <i>Developmental Biology</i> , 2003, 256, 174-187.	2.0	78
18	VAB-8, UNC-73 and MIG-2 regulate axon polarity and cell migration functions of UNC-40 in <i>C. elegans</i> . <i>Nature Neuroscience</i> , 2007, 10, 161-168.	14.8	77

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19	Dopamine counteracts octopamine signalling in a neural circuit mediating food response in <i>C. elegans</i> . <i>EMBO Journal</i> , 2009, 28, 2437-2448.	7.8	74
20	Multiple Signaling Mechanisms of the UNC-6/netrin Receptors UNC-5 and UNC-40/DCC in Vivo. <i>Genetics</i> , 2001, 158, 1071-1080.	2.9	72
21	<i>Caenorhabditis elegans</i> DNA mismatch repair gene <i>msh-2</i> is required for microsatellite stability and maintenance of genome integrity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 2158-2163.	7.1	68
22	UNC-5 Function Requires Phosphorylation of Cytoplasmic Tyrosine 482, but Its UNC-40-Independent Functions also Require a Region between the ZU-5 and Death Domains. <i>Developmental Biology</i> , 2002, 251, 348-366.	2.0	64
23	Examination of Neurons in Wild Type and Mutants of <i>Caenorhabditis Elegans</i> Using Antibodies to Horseradish Peroxidase. <i>Journal of Neurogenetics</i> , 1991, 7, 193-211.	1.4	59
24	Netrin Stimulates Tyrosine Phosphorylation of the UNC-5 Family of Netrin Receptors and Induces Shp2 Binding to the RCM Cyto domain. <i>Journal of Biological Chemistry</i> , 2001, 276, 40917-40925.	3.4	59
25	The Slit Receptor EVA-1 Coactivates a SAX-3/Robo Mediated Guidance Signal in <i>C. elegans</i> . <i>Science</i> , 2007, 317, 1934-1938.	12.6	56
26	UNC-129 regulates the balance between UNC-40 dependent and independent UNC-5 signaling pathways. <i>Nature Neuroscience</i> , 2009, 12, 150-155.	14.8	52
27	The UNC-73/Trio RhoGEF-2 domain is required in separate isoforms for the regulation of pharynx pumping and normal neurotransmission in <i>C. elegans</i> . <i>Genes and Development</i> , 2005, 19, 2016-2029.	5.9	49
28	<i>C. elegans mig-6</i> encodes papilin isoforms that affect distinct aspects of DTC migration, and interacts genetically with <i>mig-17</i> and <i>collagen IV</i> . <i>Development (Cambridge)</i> , 2009, 136, 1433-1442.	2.5	48
29	Conversion of cell movement responses to Semaphorin-1 and Plexin-1 from attraction to repulsion by lowered levels of specific RAC GTPases in <i>C. elegans</i> . <i>Development (Cambridge)</i> , 2004, 131, 2073-2088.	2.5	47
30	Semaphorin 1a and semaphorin 1b are required for correct epidermal cell positioning and adhesion during morphogenesis in <i>C. elegans</i> . <i>Development (Cambridge)</i> , 2002, 129, 2065-2078.	2.5	46
31	Integration of Semaphorin-2A/MAB-20, ephrin-4, and UNC-129 TGF- $\beta$ Signaling Pathways Regulates Sorting of Distinct Sensory Rays in <i>C. elegans</i> . <i>Developmental Cell</i> , 2004, 6, 383-395.	7.0	45
32	Axon guidance mechanisms in <i>Caenorhabditis elegans</i> . <i>Current Opinion in Genetics and Development</i> , 1994, 4, 587-595.	3.3	41
33	Genetic association of the GDNF alpha-receptor genes with schizophrenia and clozapine response. <i>Journal of Psychiatric Research</i> , 2010, 44, 700-706.	3.1	39
34	Genetic analysis of growth cone migrations in <i>Caenorhabditis elegans</i> . <i>Journal of Neurobiology</i> , 2000, 44, 281-288.	3.6	34
35	The <i>Caenorhabditis elegans</i> Gene, <i>gly-2</i> , Can Rescue the N-Acetylglucosaminyltransferase V Mutation of <i>Lec4</i> Cells. <i>Journal of Biological Chemistry</i> , 2002, 277, 22829-22838.	3.4	34
36	Vulva morphogenesis involves attraction of plexin 1-expressing primordial vulva cells to semaphorin 1a sequentially expressed at the vulva midline. <i>Development (Cambridge)</i> , 2005, 132, 1387-1400.	2.5	29

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37	Netrins and Wnts Function Redundantly to Regulate Antero-Posterior and Dorso-Ventral Guidance in <i>C. elegans</i> . <i>PLoS Genetics</i> , 2014, 10, e1004381.	3.5	26
38	Genetics of Extracellular Matrix Remodeling During Organ Growth Using the <i>Caenorhabditis elegans</i> Pharynx Model. <i>Genetics</i> , 2010, 186, 969-982.	2.9	22
39	Semaphorin 1a and semaphorin 1b are required for correct epidermal cell positioning and adhesion during morphogenesis in <i>C. elegans</i> . <i>Development (Cambridge)</i> , 2002, 129, 2065-78.	2.5	19
40	<i>C. elegans</i> PVF-1 inhibits permissive UNC-40 signalling through CED-10 GTPase to position the male ray 1 sensillum. <i>Development (Cambridge)</i> , 2013, 140, 4020-4030.	2.5	16
41	EXAMINATION OF NEURONS IN WILD TYPE AND MUTANTS OF <i>CAENORHABDITIS ELEGANS</i> USING ANTIBODIES TO HORSERADISH PEROXIDASE. <i>Journal of Neurogenetics</i> , 2007, 21, 271-289.	1.4	14
42	Small molecule inhibitors of $\alpha$ -synuclein oligomers identified by targeting early dopamine-mediated motor impairment in <i>C. elegans</i> . <i>Molecular Neurodegeneration</i> , 2021, 16, 77.	10.8	13
43	The Wnt Frizzled Receptor MOM-5 Regulates the UNC-5 Netrin Receptor through Small GTPase-Dependent Signaling to Determine the Polarity of Migrating Cells. <i>PLoS Genetics</i> , 2015, 11, e1005446.	3.5	12
44	Dopamine suppresses octopamine signaling in <i>C. elegans</i> : possible involvement of dopamine in the regulation of lifespan. <i>Aging</i> , 2009, 1, 870-874.	3.1	10
45	UNC-5 Function Requires Phosphorylation of Cytoplasmic Tyrosine 482, but Its UNC-40-Independent Functions also Require a Region between the ZU-5 and Death Domains. <i>Developmental Biology</i> , 2002, 251, 348-348.	2.0	7
46	The directed migration of gonadal distal tip cells in <i>Caenorhabditis elegans</i> requires NGAT-1, a $\beta$ 1,4-N-acetylgalactosaminyltransferase enzyme. <i>PLoS ONE</i> , 2017, 12, e0183049.	2.5	7
47	Semaphorin-1 and Netrin Signal in Parallel and Permissively to Position the Male Ray 1 Sensillum in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2012, 192, 959-971.	2.9	6
48	Forty-five years of cell-cycle genetics. <i>Molecular Biology of the Cell</i> , 2015, 26, 4307-4312.	2.1	6
49	A Neural Antigen Conserved in Different Invertebrates. <i>Annals of the New York Academy of Sciences</i> , 1984, 435, 341-343.	3.8	2
50	<i>C. elegans</i> <i>seu-1</i> encodes novel nuclear proteins that regulate responses to UNC-6/netrin guidance cues. <i>Developmental Biology</i> , 2007, 310, 44-53.	2.0	0
51	Sensory regulated Wnt production from neurons helps make organ development robust to environmental changes in <i>C. elegans</i> . <i>Development (Cambridge)</i> , 2020, 147, .	2.5	0