Daniel A ColÃ³n-Ramos

List of Publications by Year
in descending order

59 papers	3,824 citations	147801 31 h-index	149698 56 g-index
78 all docs	78 docs citations	78 times ranked	4882 citing authors

#	Article	IF	Citations
1	Presynaptic autophagy is coupled to the synaptic vesicle cycle via ATG-9. Neuron, 2022, 110, 824-840.e10.	8.1	41
2	Transmembrane protein ATG-9 links presynaptic autophagy with the synaptic vesicle cycle. Autophagy, 2022, , 1-2.	9.1	0
3	A group approach to growing as a principal investigator. Current Biology, 2022, 32, R498-R504.	3.9	2
4	Phosphofructokinase relocalizes into subcellular compartments with liquid-like properties inÂvivo. Biophysical Journal, 2021, 120, 1170-1186.	0.5	39
5	Structural and developmental principles of neuropil assembly in C. elegans. Nature, 2021, 591, 99-104.	27.8	60
6	Concrete steps to diversify the scientific workforce. Science, 2021, 372, 133-135.	12.6	33
7	A genetically encoded tool for reconstituting synthetic modulatory neurotransmission and reconnect neural circuits in vivo. Nature Communications, 2021, 12, 4795.	12.8	15
8	Differential adhesion regulates neurite placement via a retrograde zippering mechanism. ELife, 2021, 10, .	6.0	13
9	Multiview confocal super-resolution microscopy. Nature, 2021, 600, 279-284.	27.8	55
10	The Journey of the Synaptic Autophagosome: A Cell Biological Perspective. Neuron, 2020, 105, 961-973.	8.1	42
11	Rapid image deconvolution and multiview fusion for optical microscopy. Nature Biotechnology, 2020, 38, 1337-1346.	17.5	105
12	A muscle-epidermis-glia signaling axis sustains synaptic specificity during allometric growth in Caenorhabditis elegans. ELife, 2020, 9, .	6.0	9
13	Cadherin preserves cohesion across involuting tissues during C. elegans neurulation. ELife, 2020, 9, .	6.0	7
14	Transforming the development and dissemination of cutting-edge microscopy and computation. Nature Methods, 2019, 16, 667-669.	19.0	16
15	A specific ATG-4 isoform is required for autophagic maturation and clearance in C. elegans neurons. Autophagy, 2019, 15, 1840-1842.	9.1	5
16	Isotropic Light-Sheet Microscopy and Automated Cell Lineage Analyses to Catalogue Caenorhabditis elegans Embryogenesis with Subcellular Resolution. Journal of Visualized Experiments, 2019, , .	0.3	17
17	Maturation and Clearance of Autophagosomes in Neurons Depends on a Specific Cysteine Protease Isoform, ATG-4.2. Developmental Cell, 2019, 49, 251-266.e8.	7.0	58
18	Coarse Graining of Data via Inhomogeneous Diffusion Condensation. , 2019, 2019, 2624-2633.		9

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19	ASICs Mediate Food Responses in an Enteric Serotonergic Neuron that Controls Foraging Behaviors. Cell, 2019, 176, 85-97.e14.	28.9	84
20	Integration of Plasticity Mechanisms within a Single Sensory Neuron of C.Âelegans Actuates a Memory. Neuron, 2018, 97, 356-367.e4.	8.1	78
21	Statements of Mentorship. ENeuro, 2018, 5, ENEURO.0411-18.2018.	1.9	1
22	Visualizing Calcium Flux in Freely Moving Nematode Embryos. Biophysical Journal, 2017, 112, 1975-1983.	0.5	31
23	Clarinet (CLA-1), a novel active zone protein required for synaptic vesicle clustering and release. ELife, 2017, 6, .	6.0	63
24	KIF1A/UNC-104 Transports ATG-9 to Regulate Neurodevelopment and Autophagy at Synapses. Developmental Cell, 2016, 38, 171-185.	7.0	165
25	The need to connect: on the cell biology of synapses, behaviors, and networks in science. Molecular Biology of the Cell, 2016, 27, 3203-3207.	2.1	2
26	Glycolytic Enzymes Localize to Synapses under Energy Stress to Support Synaptic Function. Neuron, 2016, 90, 278-291.	8.1	222
27	Using Stage- and Slit-Scanning to Improve Contrast and Optical Sectioning in Dual-View Inverted Light Sheet Microscopy (diSPIM). Biological Bulletin, 2016, 231, 26-39.	1.8	24
28	Watching a roundworm develop with a sheet of light. Physics Today, 2015, 68, 58-59.	0.3	4
29	Impact of Culturally Relevant Contextualized Activities on Elementary and Middle School Studentsâ€™ Perceptions of Science: An Exploratory Study. International Journal of Science Education, Part B: Communication and Public Engagement, 2015, 5, 182-202.	1.5	3
30	WormGUIDES: an interactive single cell developmental atlas and tool for collaborative multidimensional data exploration. BMC Bioinformatics, 2015, 16, 189.	2.6	40
31	Untwisting the Caenorhabditis elegans embryo. ELife, 2015, 4, .	6.0	33
32	Assessing a Science Graduate School Recruitment Symposium. Revista De EducaciÃ“n De Puerto Rico (reduca), 2015, 30, 55-70.	0.0	0
33	Bidirectional thermotaxis in Caenorhabditis elegans is mediated by distinct sensorimotor strategies driven by the AFD thermosensory neurons. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2776-2781.	7.1	98
34	The LIM and POU homeobox genes ttx-3 and unc-86 act as terminal selectors in distinct cholinergic and serotonergic neuron types. Development (Cambridge), 2014, 141, 422-435.	2.5	93
35	Dual-view plane illumination microscopy for rapid and spatially isotropic imaging. Nature Protocols, 2014, 9, 2555-2573.	12.0	195
36	Dynamic Encoding of Perception, Memory, and Movement in a C. elegans Chemotaxis Circuit. Neuron, 2014, 82, 1115-1128.	8.1	121

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37	Synapse Location during Growth Depends on Glia Location. Cell, 2013, 154, 337-350.	28.9	68
38	The cell biology of synaptic specificity during development. Current Opinion in Neurobiology, 2013, 23, 1018-1026.	4.2	16
39	Spatially isotropic four-dimensional imaging with dual-view plane illumination microscopy. Nature Biotechnology, 2013, 31, 1032-1038.	17.5	290
40	Advanced optical imaging techniques for neurodevelopment. Current Opinion in Neurobiology, 2013, 23, 1090-1097.	4.2	27
41	Serotonergic Neurosecretory Synapse Targeting Is Controlled by Netrin-Releasing Guidepost Neurons inCaenorhabditis elegans. Journal of Neuroscience, 2013, 33, 1366-1376.	3.6	24
42	Supporting Diversity in Science through Social Networking. PLoS Biology, 2013, 11, e1001740.	5.6	11
43	The actin cytoskeleton in presynaptic assembly. Cell Adhesion and Migration, 2013, 7, 379-387.	2.7	61
44	Synaptic vesicle clustering requires a distinct MIG-10/Lamellipodin isoform and ABI-1 downstream from Netrin. Genes and Development, 2012, 26, 2206-2221.	5.9	36
45	Netrin instructs synaptic vesicle clustering through Rac GTPase, MIG-10, and the actin cytoskeleton. Journal of Cell Biology, 2012, 197, 75-88.	5.2	59
46	Netrin (UNC-6) mediates dendritic self-avoidance. Nature Neuroscience, 2012, 15, 731-737.	14.8	91
47	Nanoscopy in a Living Multicellular Organism Expressing GFP. Biophysical Journal, 2011, 100, L63-L65.	0.5	87
48	A conserved PTEN/FOXO pathway regulates neuronal morphology duringC. elegansdevelopment. Development (Cambridge), 2011, 138, 5257-5267.	2.5	57
49	Inverted selective plane illumination microscopy (i SPIM) enables coupled cell identity lineaging and neurodevelopmental imaging in Caenorhabditis elegans. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17708-17713.	7.1	264
50	FISH and Immunofluorescence Staining in Chlamydomonas. Methods in Molecular Biology, 2011, 714, 15-29.	0.9	28
51	Functional Organization of a Neural Network for Aversive Olfactory Learning in Caenorhabditis elegans. Neuron, 2010, 68, 1173-1186.	8.1	152
52	Chapter 2 Synapse Formation in Developing Neural Circuits. Current Topics in Developmental Biology, 2009, 87, 53-79.	2.2	85
53	Cellular Conductors: Glial Cells as Guideposts during Neural Circuit Development. PLoS Biology, 2008, 6, e112.	5.6	6
54	Glia Promote Local Synaptogenesis Through UNC-6 (Netrin) Signaling in C. elegans. Science, 2007, 318, 103-106.	12.6	260

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55	Direct ribosomal binding by a cellular inhibitor of translation. Nature Structural and Molecular Biology, 2006, 13, 103-111.	8.2	36
56	Asymmetric Distribution of Nuclear Pore Complexes and the Cytoplasmic Localization of Î²2-Tubulin mRNA in Chlamydomonas reinhardtii. Developmental Cell, 2003, 4, 941-952.	7.0	41
57	Inhibition of Translation and Induction of Apoptosis by Bunyaviral Nonstructural Proteins Bearing Sequence Similarity to Reaper. Molecular Biology of the Cell, 2003, 14, 4162-4172.	2.1	67
58	A GH3-like Domain in Reaper Is Required for Mitochondrial Localization and Induction of IAP Degradation. Journal of Biological Chemistry, 2003, 278, 44758-44768.	3.4	48
59	Reaper eliminates IAP proteins through stimulated IAP degradation and generalized translational inhibition. Nature Cell Biology, 2002, 4, 439-444.	10.3	195