

Daniel A ColÃ³n-Ramos

List of Publications by Year in descending order

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Version: 2024-02-01

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	Spatially isotropic four-dimensional imaging with dual-view plane illumination microscopy. <i>Nature Biotechnology</i> , 2013, 31, 1032-1038.	17.5	290
2	Inverted selective plane illumination microscopy (<i>SPIM</i>) enables coupled cell identity lineaging and neurodevelopmental imaging in <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 17708-17713.	7.1	264
3	Glia Promote Local Synaptogenesis Through UNC-6 (Netrin) Signaling in <i>C. elegans</i> . <i>Science</i> , 2007, 318, 103-106.	12.6	260
4	Glycolytic Enzymes Localize to Synapses under Energy Stress to Support Synaptic Function. <i>Neuron</i> , 2016, 90, 278-291.	8.1	222
5	Reaper eliminates IAP proteins through stimulated IAP degradation and generalized translational inhibition. <i>Nature Cell Biology</i> , 2002, 4, 439-444.	10.3	195
6	Dual-view plane illumination microscopy for rapid and spatially isotropic imaging. <i>Nature Protocols</i> , 2014, 9, 2555-2573.	12.0	195
7	KIF1A/UNC-104 Transports ATG-9 to Regulate Neurodevelopment and Autophagy at Synapses. <i>Developmental Cell</i> , 2016, 38, 171-185.	7.0	165
8	Functional Organization of a Neural Network for Aversive Olfactory Learning in <i>Caenorhabditis elegans</i> . <i>Neuron</i> , 2010, 68, 1173-1186.	8.1	152
9	Dynamic Encoding of Perception, Memory, and Movement in a <i>C. elegans</i> Chemotaxis Circuit. <i>Neuron</i> , 2014, 82, 1115-1128.	8.1	121
10	Rapid image deconvolution and multiview fusion for optical microscopy. <i>Nature Biotechnology</i> , 2020, 38, 1337-1346.	17.5	105
11	Bidirectional thermotaxis in <i>Caenorhabditis elegans</i> is mediated by distinct sensorimotor strategies driven by the AFD thermosensory neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2776-2781.	7.1	98
12	The LIM and POU homeobox genes <i>ttx-3</i> and <i>unc-86</i> act as terminal selectors in distinct cholinergic and serotonergic neuron types. <i>Development (Cambridge)</i> , 2014, 141, 422-435.	2.5	93
13	Netrin (UNC-6) mediates dendritic self-avoidance. <i>Nature Neuroscience</i> , 2012, 15, 731-737.	14.8	91
14	Nanoscopy in a Living Multicellular Organism Expressing GFP. <i>Biophysical Journal</i> , 2011, 100, L63-L65.	0.5	87
15	Chapter 2 Synapse Formation in Developing Neural Circuits. <i>Current Topics in Developmental Biology</i> , 2009, 87, 53-79.	2.2	85
16	ASICs Mediate Food Responses in an Enteric Serotonergic Neuron that Controls Foraging Behaviors. <i>Cell</i> , 2019, 176, 85-97.e14.	28.9	84
17	Integration of Plasticity Mechanisms within a Single Sensory Neuron of <i>C.Âlegans</i> Actuates a Memory. <i>Neuron</i> , 2018, 97, 356-367.e4.	8.1	78
18	Synapse Location during Growth Depends on Glia Location. <i>Cell</i> , 2013, 154, 337-350.	28.9	68

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19	Inhibition of Translation and Induction of Apoptosis by Bunyaviral Nonstructural Proteins Bearing Sequence Similarity to Reaper. <i>Molecular Biology of the Cell</i> , 2003, 14, 4162-4172.	2.1	67
20	Clarinet (CLA-1), a novel active zone protein required for synaptic vesicle clustering and release. <i>ELife</i> , 2017, 6, .	6.0	63
21	The actin cytoskeleton in presynaptic assembly. <i>Cell Adhesion and Migration</i> , 2013, 7, 379-387.	2.7	61
22	Structural and developmental principles of neuropil assembly in <i>C. elegans</i> . <i>Nature</i> , 2021, 591, 99-104.	27.8	60
23	Netrin instructs synaptic vesicle clustering through Rac GTPase, MIG-10, and the actin cytoskeleton. <i>Journal of Cell Biology</i> , 2012, 197, 75-88.	5.2	59
24	Maturation and Clearance of Autophagosomes in Neurons Depends on a Specific Cysteine Protease Isoform, ATG-4.2. <i>Developmental Cell</i> , 2019, 49, 251-266.e8.	7.0	58
25	A conserved PTEN/FOXO pathway regulates neuronal morphology during <i>C. elegans</i> development. <i>Development (Cambridge)</i> , 2011, 138, 5257-5267.	2.5	57
26	Multiview confocal super-resolution microscopy. <i>Nature</i> , 2021, 600, 279-284.	27.8	55
27	A GH3-like Domain in Reaper Is Required for Mitochondrial Localization and Induction of IAP Degradation. <i>Journal of Biological Chemistry</i> , 2003, 278, 44758-44768.	3.4	48
28	The Journey of the Synaptic Autophagosome: A Cell Biological Perspective. <i>Neuron</i> , 2020, 105, 961-973.	8.1	42
29	Asymmetric Distribution of Nuclear Pore Complexes and the Cytoplasmic Localization of β -Tubulin mRNA in <i>Chlamydomonas reinhardtii</i> . <i>Developmental Cell</i> , 2003, 4, 941-952.	7.0	41
30	Presynaptic autophagy is coupled to the synaptic vesicle cycle via ATG-9. <i>Neuron</i> , 2022, 110, 824-840.e10.	8.1	41
31	WormGUIDES: an interactive single cell developmental atlas and tool for collaborative multidimensional data exploration. <i>BMC Bioinformatics</i> , 2015, 16, 189.	2.6	40
32	Phosphofruktokinase relocates into subcellular compartments with liquid-like properties in <i>A. vivivo</i> . <i>Biophysical Journal</i> , 2021, 120, 1170-1186.	0.5	39
33	Direct ribosomal binding by a cellular inhibitor of translation. <i>Nature Structural and Molecular Biology</i> , 2006, 13, 103-111.	8.2	36
34	Synaptic vesicle clustering requires a distinct MIG-10/Lamellipodin isoform and ABI-1 downstream from Netrin. <i>Genes and Development</i> , 2012, 26, 2206-2221.	5.9	36
35	Concrete steps to diversify the scientific workforce. <i>Science</i> , 2021, 372, 133-135.	12.6	33
36	Untwisting the <i>Caenorhabditis elegans</i> embryo. <i>ELife</i> , 2015, 4, .	6.0	33

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37	Visualizing Calcium Flux in Freely Moving Nematode Embryos. <i>Biophysical Journal</i> , 2017, 112, 1975-1983.	0.5	31
38	FISH and Immunofluorescence Staining in <i>Chlamydomonas</i> . <i>Methods in Molecular Biology</i> , 2011, 714, 15-29.	0.9	28
39	Advanced optical imaging techniques for neurodevelopment. <i>Current Opinion in Neurobiology</i> , 2013, 23, 1090-1097.	4.2	27
40	Serotonergic Neurosecretory Synapse Targeting Is Controlled by Netrin-Releasing Guidepost Neurons in <i>Caenorhabditis elegans</i> . <i>Journal of Neuroscience</i> , 2013, 33, 1366-1376.	3.6	24
41	Using Stage- and Slit-Scanning to Improve Contrast and Optical Sectioning in Dual-View Inverted Light Sheet Microscopy (diSPIM). <i>Biological Bulletin</i> , 2016, 231, 26-39.	1.8	24
42	Isotropic Light-Sheet Microscopy and Automated Cell Lineage Analyses to Catalogue <i>Caenorhabditis elegans</i> Embryogenesis with Subcellular Resolution. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	17
43	The cell biology of synaptic specificity during development. <i>Current Opinion in Neurobiology</i> , 2013, 23, 1018-1026.	4.2	16
44	Transforming the development and dissemination of cutting-edge microscopy and computation. <i>Nature Methods</i> , 2019, 16, 667-669.	19.0	16
45	A genetically encoded tool for reconstituting synthetic modulatory neurotransmission and reconnect neural circuits in vivo. <i>Nature Communications</i> , 2021, 12, 4795.	12.8	15
46	Differential adhesion regulates neurite placement via a retrograde zipper mechanism. <i>ELife</i> , 2021, 10, .	6.0	13
47	Supporting Diversity in Science through Social Networking. <i>PLoS Biology</i> , 2013, 11, e1001740.	5.6	11
48	Coarse Graining of Data via Inhomogeneous Diffusion Condensation. , 2019, 2019, 2624-2633.		9
49	A muscle-epidermis-glia signaling axis sustains synaptic specificity during allometric growth in <i>Caenorhabditis elegans</i> . <i>ELife</i> , 2020, 9, .	6.0	9
50	Cadherin preserves cohesion across involuting tissues during <i>C. elegans</i> neurulation. <i>ELife</i> , 2020, 9, .	6.0	7
51	Cellular Conductors: Glial Cells as Guideposts during Neural Circuit Development. <i>PLoS Biology</i> , 2008, 6, e112.	5.6	6
52	A specific ATG-4 isoform is required for autophagic maturation and clearance in <i>C. elegans</i> neurons. <i>Autophagy</i> , 2019, 15, 1840-1842.	9.1	5
53	Watching a roundworm develop with a sheet of light. <i>Physics Today</i> , 2015, 68, 58-59.	0.3	4
54	Impact of Culturally Relevant Contextualized Activities on Elementary and Middle School Students's™ Perceptions of Science: An Exploratory Study. <i>International Journal of Science Education, Part B: Communication and Public Engagement</i> , 2015, 5, 182-202.	1.5	3

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55	The need to connect: on the cell biology of synapses, behaviors, and networks in science. <i>Molecular Biology of the Cell</i> , 2016, 27, 3203-3207.	2.1	2
56	A group approach to growing as a principal investigator. <i>Current Biology</i> , 2022, 32, R498-R504.	3.9	2
57	Statements of Mentorship. <i>ENeuro</i> , 2018, 5, ENEURO.0411-18.2018.	1.9	1
58	Assessing a Science Graduate School Recruitment Symposium. <i>Revista De Educaci3n De Puerto Rico (reduca)</i> , 2015, 30, 55-70.	0.0	0
59	Transmembrane protein ATG-9 links presynaptic autophagy with the synaptic vesicle cycle. <i>Autophagy</i> , 2022, , 1-2.	9.1	0