Marcos Gonzalez-Gaitan

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5408757/publications.pdf

Version: 2024-02-01

86 papers	7,532 citations	57719 44 h-index	56687 83 g-index
101 all docs	101 docs citations	101 times ranked	7494 citing authors

#	Article	IF	Citations
1	A role for Flower and cell death in controlling morphogen gradient scaling. Nature Cell Biology, 2022, 24, 424-433.	4.6	9
2	Morphogen gradient scaling by recycling of intracellular Dpp. Nature, 2022, 602, 287-293.	13.7	33
3	Flipper Probes for the Community. Chimia, 2021, 75, 1004.	0.3	9
4	BMP Signaling Gradient Scaling in the Zebrafish Pectoral Fin. Cell Reports, 2020, 30, 4292-4302.e7.	2.9	35
5	Pharmacological disruption of the Notch transcription factor complex. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16292-16301.	3.3	64
6	Wnt-controlled sphingolipids modulate Anthrax Toxin Receptor palmitoylation to regulate oriented mitosis in zebrafish. Nature Communications, 2020, 11, 3317.	5.8	8
7	Cell-Penetrating Streptavidin: A General Tool for Bifunctional Delivery with Spatiotemporal Control, Mediated by Transport Systems Such as Adaptive Benzopolysulfane Networks. Journal of the American Chemical Society, 2020, 142, 4784-4792.	6.6	28
8	Diselenolaneâ€Mediated Cellular Uptake: Efficient Cytosolic Delivery of Probes, Peptides, Proteins, Artificial Metalloenzymes and Proteinâ€Coated Quantum Dots. Chemistry - A European Journal, 2019, 25, 4047-4051.	1.7	29
9	Critical Point in Self-Organized Tissue Growth. Physical Review Letters, 2018, 120, 198102.	2.9	25
10	Endosomal Trafficking During Mitosis and Notch-Dependent Asymmetric Division. Progress in Molecular and Subcellular Biology, 2018, 57, 301-329.	0.9	10
11	A fluorescent membrane tension probe. Nature Chemistry, 2018, 10, 1118-1125.	6.6	343
12	The Crumbs_C isoform ofDrosophilashows tissue- and stage-specific expression and prevents light-dependent retinal degeneration. Biology Open, 2017, 6, 165-175.	0.6	16
13	Sara phosphorylation state controls the dispatch of endosomes from the central spindle during asymmetric division. Nature Communications, 2017, 8, 15285.	5.8	12
14	Efficient Delivery of Quantum Dots into the Cytosol of Cells Using Cell-Penetrating Poly(disulfide)s. Journal of the American Chemical Society, 2017, 139, 10172-10175.	6.6	106
15	Headgroup engineering in mechanosensitive membrane probes. Chemical Communications, 2016, 52, 14450-14453.	2.2	46
16	Nucleic Acid Templated Chemical Reaction in a Live Vertebrate. ACS Central Science, 2016, 2, 394-400.	5.3	71
17	ESCRT proteins restrict constitutive NF-ÎºB signaling by trafficking cytokine receptors. Science Signaling, 2016, 9, ra8.	1.6	64
18	The wing and the eye: a parsimonious theory for scaling and growth control?. Wiley Interdisciplinary Reviews: Developmental Biology, 2015, 4, 591-608.	5.9	19

#	Article	IF	Citations
19	Endocytic Adaptor Protein Tollip Inhibits Canonical Wnt Signaling. PLoS ONE, 2015, 10, e0130818.	1.1	10
20	Polarized endosome dynamics by spindle asymmetry during asymmetric cell division. Nature, 2015, 528, 280-285.	13.7	116
21	Fluorescent Flippers for Mechanosensitive Membrane Probes. Journal of the American Chemical Society, 2015, 137, 568-571.	6.6	159
22	Directional Notch trafficking in Sara endosomes during asymmetric cell division in the spinal cord. Nature Cell Biology, 2015, 17, 333-339.	4.6	83
23	SiRâ€“Hoechst is a far-red DNA stain for live-cell nanoscopy. Nature Communications, 2015, 6, 8497.	5.8	244
24	When cell biology meets theory. Journal of Cell Biology, 2015, 210, 1041-1045.	2.3	2
25	Sara endosomes and the asymmetric division of intestinal stem cells. Development (Cambridge), 2014, 141, 2014-2023.	1.2	52
26	Monitoring Notch/Delta Endosomal Trafficking and Signaling in Drosophila. Methods in Enzymology, 2014, 534, 301-321.	0.4	19
27	Growth control by a moving morphogen gradient during Drosophila eye development. Development (Cambridge), 2014, 141, 1884-1893.	1.2	55
28	Uninflatable and Notch Control the Targeting of Sara Endosomes during Asymmetric Division. Current Biology, 2014, 24, 2142-2148.	1.8	30
29	The Role of Endocytosis during Morphogenetic Signaling. Cold Spring Harbor Perspectives in Biology, 2014, 6, a016881-a016881.	2.3	21
30	Biochemical Membrane Lipidomics during Drosophila Development. Developmental Cell, 2013, 24, 98-111.	3.1	133
31	Anthrax toxin receptor 2a controls mitotic spindle positioning. Nature Cell Biology, 2013, 15, 28-39.	4.6	47
32	Quantitative Imaging of Morphogen Gradients in Drosophila Imaginal Discs. Cold Spring Harbor Protocols, 2013, 2013, pdb.top074237.	0.2	4
33	Response to Comment on â€œDynamics of Dpp Signaling and Proliferation Controlâ€• Science, 2012, 335, 401-401.	6.0	20
34	Highly Activatable and Environment-Insensitive Optical Highlighters for Selective Spatiotemporal Imaging of Target Proteins. Journal of the American Chemical Society, 2012, 134, 11153-11160.	6.6	115
35	Investigating the principles of morphogen gradient formation: from tissues to cells. Current Opinion in Genetics and Development, 2012, 22, 527-532.	1.5	65
36	Quantification of Biological Interactions with Particle Image Cross-Correlation Spectroscopy (PICCS). Biophysical Journal, 2011, 100, 1810-1818.	0.2	37

#	Article	IF	Citations
37	The missing link: implementation of morphogenetic growth control on the cellular and molecular level. Current Opinion in Genetics and Development, 2011, 21, 690-695.	1.5	19
38	Understanding morphogenetic growth control â€" lessons from flies. Nature Reviews Molecular Cell Biology, 2011, 12, 594-604.	16.1	103
39	Oriented cell division in vertebrate embryogenesis. Current Opinion in Cell Biology, 2011, 23, 697-704.	2.6	35
40	Integrating levels of complexity: a trend in developmental biology. Current Opinion in Cell Biology, 2011, 23, 647-649.	2.6	2
41	Labelling cell structures and tracking cell lineage in zebrafish using SNAP-tag. Developmental Dynamics, 2011, 240, 820-827.	0.8	31
42	Dynamics of Dpp Signaling and Proliferation Control. Science, 2011, 331, 1154-1159.	6.0	330
43	A novel function for the Rab5 effector Rabenosyn-5 in planar cell polarity. Development (Cambridge), 2010, 137, 2353-2364.	1.2	44
44	Spatial restriction of receptor tyrosine kinase activity through a polarized endocytic cycle controls border cell migration. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 22558-22563.	3.3	91
45	Morphogen Gradient Formation. Cold Spring Harbor Perspectives in Biology, 2009, 1, a001255-a001255.	2.3	244
46	Endocytosis and mitosis: A two-way relationship. Cell Cycle, 2009, 8, 3311-3318.	1.3	26
47	Directional Delta and Notch trafficking in Sara endosomes during asymmetric cell division. Nature, 2009, 458, 1051-1055.	13.7	179
48	Quantitative approaches in developmental biology. Nature Reviews Genetics, 2009, 10, 517-530.	7.7	149
49	Endocytic Regulation of Notch Signalling During Development. Traffic, 2009, 10, 792-802.	1.3	65
50	Tales of 1001 Functions: The Multiple Roles of Membrane Trafficking in Development. Traffic, 2009, 10, 781-782.	1.3	4
51	Quantification of growth asymmetries in developing epithelia. European Physical Journal E, 2009, 30, 93-99.	0.7	31
52	Endocytosis, asymmetric cell division, stem cells and cancer: Unus pro omnibus, omnes pro uno. Molecular Oncology, 2009, 3, 339-353.	2.1	25
53	The Decapentaplegic morphogen gradient: a precise definition. Current Opinion in Cell Biology, 2008, 20, 137-143.	2.6	45
54	From endocytosis to tumors through asymmetric cell division of stem cells. Current Opinion in Cell Biology, 2008, 20, 462-469.	2.6	16

#	Article	IF	Citations
55	The Garden of Forking Paths: Recycling, Signaling, and Degradation. Developmental Cell, 2008, 15, 172-174.	3.1	8
56	Precision of the Dpp gradient. Development (Cambridge), 2008, 135, 1137-1146.	1.2	138
57	Dynamics of anisotropic tissue growth. New Journal of Physics, 2008, 10, 063001.	1.2	64
58	Morphogen transport in epithelia. Physical Review E, 2007, 75, 011901.	0.8	45
59	Spermatocyte cytokinesis requires rapid membrane addition mediated by ARF6 on central spindle recycling endosomes. Development (Cambridge), 2007, 134, 4437-4447.	1.2	90
60	Kinetics of Morphogen Gradient Formation. Science, 2007, 315, 521-525.	6.0	355
61	Postsynaptic Mad Signaling at the Drosophila Neuromuscular Junction. Current Biology, 2006, 16, 625-635.	1.8	54
62	Sara Endosomes and the Maintenance of Dpp Signaling Levels Across Mitosis. Science, 2006, 314, 1135-1139.	6.0	99
63	Target-selected mutant screen by TILLING in Drosophila. Genome Research, 2005, 15, 718-723.	2.4	105
64	Robust Formation of Morphogen Gradients. Physical Review Letters, 2005, 94, 018103.	2.9	94
65	Dpp gradient formation by dynamin-dependent endocytosis: receptor trafficking and the diffusion model. Development (Cambridge), 2004, 131, 4843-4856.	1.2	106
66	Visualizing Long-Range Movement of the Morphogen Xnr2 in the Xenopus Embryo. Current Biology, 2004, 14, 1916-1923.	1.8	66
67	Membrane traffic during embryonic development: epithelial formation, cell fate decisions and differentiation. Current Opinion in Cell Biology, 2004, 16, 407-414.	2.6	22
68	Signal dispersal and transduction through the endocytic pathway. Nature Reviews Molecular Cell Biology, 2003, 4, 213-224.	16.1	129
69	Endocytic trafficking during Drosophila development. Mechanisms of Development, 2003, 120, 1265-1282.	1.7	32
70	Role of Drosophila Rab5 during endosomal trafficking at the synapse and evoked neurotransmitter release. Journal of Cell Biology, 2003, 161, 609-624.	2.3	395
71	The Endocytic Protein Î±-Adaptin Is Required for Numb-Mediated Asymmetric Cell Division in Drosophila. Developmental Cell, 2002, 3, 221-231.	3.1	340
72	Essential role of endophilin A in synaptic vesicle budding at the Drosophila neuromuscular junction. EMBO Journal, 2002, 21, 1661-1672.	3.5	109

#	Article	IF	Citations
73	Gradient Formation of the TGF-Î² Homolog Dpp. Cell, 2000, 103, 981-992.	13.5	577
74	Tip cellâ€derived RTK signaling initiates cell movements in theDrosophilastomatogastric nervous system anlage. EMBO Reports, 2000, 1, 366-371.	2.0	16
75	The range of spalt-activating Dpp signalling is reduced in endocytosis-defective Drosophila wing discs. Mechanisms of Development, 1999, 87, 143-151.	1.7	26
76	Role of Drosophila Î±-Adaptin in Presynaptic Vesicle Recycling. Cell, 1997, 88, 767-776.	13.5	247
77	Analysis of neural elements in head-mutant Drosophila embryos suggests segmental origin of the optic lobes. Roux's Archives of Developmental Biology, 1995, 205, 31-44.	1.2	25
78	Invagination centers within the Drosophila stomatogastric nervous system anlage are positioned by Notch-mediated signaling which is spatially controlled through wingless. Development (Cambridge), 1995, 121, 2313-2325.	1.2	51
79	Invagination centers within the Drosophila stomatogastric nervous system anlage are positioned by Notch-mediated signaling which is spatially controlled through wingless. Development (Cambridge), 1995, 121, 2313-25.	1.2	14
80	spalt encodes an evolutionarily conserved zinc finger protein of novel structure which provides homeotic gene function in the head and tail region of the Drosophila embryo.. EMBO Journal, 1994, 13, 168-179.	3.5	229
81	Identical transacting factor requirement for knirps and knirps-related gene expression in the anterior but not in the posterior region of the Drosophila embryo. Mechanisms of Development, 1994, 46, 169-181.	1.7	42
82	Cell proliferation patterns in the wing imaginal disc of Drosophila. Mechanisms of Development, 1994, 46, 183-200.	1.7	113
83	Redundant functions of the genes knirps and knirps-related for the establishment of anterior Drosophila head structures.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 8567-8571.	3.3	71
84	Number, identity, and sequence of the Drosophila head segments as revealed by neural elements and their deletion patterns in mutants.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 8363-8367.	3.3	98
85	spalt encodes an evolutionarily conserved zinc finger protein of novel structure which provides homeotic gene function in the head and tail region of the Drosophila embryo. EMBO Journal, 1994, 13, 168-79.	3.5	95
86	Embryonic limb development in Drosophila. Trends in Genetics, 1993, 9, 371-373.	2.9	10