

Marcos Gonzalez-Gaitan

List of Publications by Year in descending order

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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	Gradient Formation of the TGF- β Homolog Dpp. <i>Cell</i> , 2000, 103, 981-992.	13.5	577
2	Role of <i>Drosophila</i> Rab5 during endosomal trafficking at the synapse and evoked neurotransmitter release. <i>Journal of Cell Biology</i> , 2003, 161, 609-624.	2.3	395
3	Kinetics of Morphogen Gradient Formation. <i>Science</i> , 2007, 315, 521-525.	6.0	355
4	A fluorescent membrane tension probe. <i>Nature Chemistry</i> , 2018, 10, 1118-1125.	6.6	343
5	The Endocytic Protein $\hat{\pm}$ -Adaptin Is Required for Numb-Mediated Asymmetric Cell Division in <i>Drosophila</i> . <i>Developmental Cell</i> , 2002, 3, 221-231.	3.1	340
6	Dynamics of Dpp Signaling and Proliferation Control. <i>Science</i> , 2011, 331, 1154-1159.	6.0	330
7	Role of <i>Drosophila</i> $\hat{\pm}$ -Adaptin in Presynaptic Vesicle Recycling. <i>Cell</i> , 1997, 88, 767-776.	13.5	247
8	Morphogen Gradient Formation. <i>Cold Spring Harbor Perspectives in Biology</i> , 2009, 1, a001255-a001255.	2.3	244
9	SiR $\hat{\pm}$ -Hoechst is a far-red DNA stain for live-cell nanoscopy. <i>Nature Communications</i> , 2015, 6, 8497.	5.8	244
10	spalt encodes an evolutionarily conserved zinc finger protein of novel structure which provides homeotic gene function in the head and tail region of the <i>Drosophila</i> embryo.. <i>EMBO Journal</i> , 1994, 13, 168-179.	3.5	229
11	Directional Delta and Notch trafficking in Sara endosomes during asymmetric cell division. <i>Nature</i> , 2009, 458, 1051-1055.	13.7	179
12	Fluorescent Flippers for Mechanosensitive Membrane Probes. <i>Journal of the American Chemical Society</i> , 2015, 137, 568-571.	6.6	159
13	Quantitative approaches in developmental biology. <i>Nature Reviews Genetics</i> , 2009, 10, 517-530.	7.7	149
14	Precision of the Dpp gradient. <i>Development (Cambridge)</i> , 2008, 135, 1137-1146.	1.2	138
15	Biochemical Membrane Lipidomics during <i>Drosophila</i> Development. <i>Developmental Cell</i> , 2013, 24, 98-111.	3.1	133
16	Signal dispersal and transduction through the endocytic pathway. <i>Nature Reviews Molecular Cell Biology</i> , 2003, 4, 213-224.	16.1	129
17	Polarized endosome dynamics by spindle asymmetry during asymmetric cell division. <i>Nature</i> , 2015, 528, 280-285.	13.7	116
18	Highly Activatable and Environment-Insensitive Optical Highlighters for Selective Spatiotemporal Imaging of Target Proteins. <i>Journal of the American Chemical Society</i> , 2012, 134, 11153-11160.	6.6	115

#	ARTICLE	IF	CITATIONS
19	Cell proliferation patterns in the wing imaginal disc of <i>Drosophila</i> . <i>Mechanisms of Development</i> , 1994, 46, 183-200.	1.7	113
20	Essential role of endophilin A in synaptic vesicle budding at the <i>Drosophila</i> neuromuscular junction. <i>EMBO Journal</i> , 2002, 21, 1661-1672.	3.5	109
21	Dpp gradient formation by dynamin-dependent endocytosis: receptor trafficking and the diffusion model. <i>Development (Cambridge)</i> , 2004, 131, 4843-4856.	1.2	106
22	Efficient Delivery of Quantum Dots into the Cytosol of Cells Using Cell-Penetrating Poly(disulfide)s. <i>Journal of the American Chemical Society</i> , 2017, 139, 10172-10175.	6.6	106
23	Target-selected mutant screen by TILLING in <i>Drosophila</i> . <i>Genome Research</i> , 2005, 15, 718-723.	2.4	105
24	Understanding morphogenetic growth control "lessons from flies. <i>Nature Reviews Molecular Cell Biology</i> , 2011, 12, 594-604.	16.1	103
25	Sara Endosomes and the Maintenance of Dpp Signaling Levels Across Mitosis. <i>Science</i> , 2006, 314, 1135-1139.	6.0	99
26	Number, identity, and sequence of the <i>Drosophila</i> head segments as revealed by neural elements and their deletion patterns in mutants.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994, 91, 8363-8367.	3.3	98
27	spalt encodes an evolutionarily conserved zinc finger protein of novel structure which provides homeotic gene function in the head and tail region of the <i>Drosophila</i> embryo. <i>EMBO Journal</i> , 1994, 13, 168-79.	3.5	95
28	Robust Formation of Morphogen Gradients. <i>Physical Review Letters</i> , 2005, 94, 018103.	2.9	94
29	Spatial restriction of receptor tyrosine kinase activity through a polarized endocytic cycle controls border cell migration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 22558-22563.	3.3	91
30	Spermatocyte cytokinesis requires rapid membrane addition mediated by ARF6 on central spindle recycling endosomes. <i>Development (Cambridge)</i> , 2007, 134, 4437-4447.	1.2	90
31	Directional Notch trafficking in Sara endosomes during asymmetric cell division in the spinal cord. <i>Nature Cell Biology</i> , 2015, 17, 333-339.	4.6	83
32	Redundant functions of the genes <i>knirps</i> and <i>knirps-related</i> for the establishment of anterior <i>Drosophila</i> head structures.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994, 91, 8567-8571.	3.3	71
33	Nucleic Acid Templated Chemical Reaction in a Live Vertebrate. <i>ACS Central Science</i> , 2016, 2, 394-400.	5.3	71
34	Visualizing Long-Range Movement of the Morphogen Xnr2 in the <i>Xenopus</i> Embryo. <i>Current Biology</i> , 2004, 14, 1916-1923.	1.8	66
35	Endocytic Regulation of Notch Signalling During Development. <i>Traffic</i> , 2009, 10, 792-802.	1.3	65
36	Investigating the principles of morphogen gradient formation: from tissues to cells. <i>Current Opinion in Genetics and Development</i> , 2012, 22, 527-532.	1.5	65

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37	Dynamics of anisotropic tissue growth. <i>New Journal of Physics</i> , 2008, 10, 063001.	1.2	64
38	ESCRT proteins restrict constitutive NF- κ B signaling by trafficking cytokine receptors. <i>Science Signaling</i> , 2016, 9, ra8.	1.6	64
39	Pharmacological disruption of the Notch transcription factor complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 16292-16301.	3.3	64
40	Growth control by a moving morphogen gradient during <i>Drosophila</i> eye development. <i>Development (Cambridge)</i> , 2014, 141, 1884-1893.	1.2	55
41	Postsynaptic Mad Signaling at the <i>Drosophila</i> Neuromuscular Junction. <i>Current Biology</i> , 2006, 16, 625-635.	1.8	54
42	Sara endosomes and the asymmetric division of intestinal stem cells. <i>Development (Cambridge)</i> , 2014, 141, 2014-2023.	1.2	52
43	Invagination centers within the <i>Drosophila</i> stomatogastric nervous system anlage are positioned by Notch-mediated signaling which is spatially controlled through <i>wingless</i> . <i>Development (Cambridge)</i> , 1995, 121, 2313-2325.	1.2	51
44	Anthrax toxin receptor 2a controls mitotic spindle positioning. <i>Nature Cell Biology</i> , 2013, 15, 28-39.	4.6	47
45	Headgroup engineering in mechanosensitive membrane probes. <i>Chemical Communications</i> , 2016, 52, 14450-14453.	2.2	46
46	Morphogen transport in epithelia. <i>Physical Review E</i> , 2007, 75, 011901.	0.8	45
47	The Decapentaplegic morphogen gradient: a precise definition. <i>Current Opinion in Cell Biology</i> , 2008, 20, 137-143.	2.6	45
48	A novel function for the Rab5 effector Rabenosyn-5 in planar cell polarity. <i>Development (Cambridge)</i> , 2010, 137, 2353-2364.	1.2	44
49	Identical transacting factor requirement for <i>knirps</i> and <i>knirps</i> -related gene expression in the anterior but not in the posterior region of the <i>Drosophila</i> embryo. <i>Mechanisms of Development</i> , 1994, 46, 169-181.	1.7	42
50	Quantification of Biological Interactions with Particle Image Cross-Correlation Spectroscopy (PICCS). <i>Biophysical Journal</i> , 2011, 100, 1810-1818.	0.2	37
51	Oriented cell division in vertebrate embryogenesis. <i>Current Opinion in Cell Biology</i> , 2011, 23, 697-704.	2.6	35
52	BMP Signaling Gradient Scaling in the Zebrafish Pectoral Fin. <i>Cell Reports</i> , 2020, 30, 4292-4302.e7.	2.9	35
53	Morphogen gradient scaling by recycling of intracellular Dpp. <i>Nature</i> , 2022, 602, 287-293.	13.7	33
54	Endocytic trafficking during <i>Drosophila</i> development. <i>Mechanisms of Development</i> , 2003, 120, 1265-1282.	1.7	32

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55	Quantification of growth asymmetries in developing epithelia. <i>European Physical Journal E</i> , 2009, 30, 93-99.	0.7	31
56	Labelling cell structures and tracking cell lineage in zebrafish using SNAP-tag. <i>Developmental Dynamics</i> , 2011, 240, 820-827.	0.8	31
57	Uninflatable and Notch Control the Targeting of Sara Endosomes during Asymmetric Division. <i>Current Biology</i> , 2014, 24, 2142-2148.	1.8	30
58	Diselenolaneâ€Mediated Cellular Uptake: Efficient Cytosolic Delivery of Probes, Peptides, Proteins, Artificial Metalloenzymes and Proteinâ€Coated Quantum Dots. <i>Chemistry - A European Journal</i> , 2019, 25, 4047-4051.	1.7	29
59	Cell-Penetrating Streptavidin: A General Tool for Bifunctional Delivery with Spatiotemporal Control, Mediated by Transport Systems Such as Adaptive Benzopolysulfane Networks. <i>Journal of the American Chemical Society</i> , 2020, 142, 4784-4792.	6.6	28
60	The range of spalt-activating Dpp signalling is reduced in endocytosis-defective <i>Drosophila</i> wing discs. <i>Mechanisms of Development</i> , 1999, 87, 143-151.	1.7	26
61	Endocytosis and mitosis: A two-way relationship. <i>Cell Cycle</i> , 2009, 8, 3311-3318.	1.3	26
62	Analysis of neural elements in head-mutant <i>Drosophila</i> embryos suggests segmental origin of the optic lobes. <i>Roux's Archives of Developmental Biology</i> , 1995, 205, 31-44.	1.2	25
63	Endocytosis, asymmetric cell division, stem cells and cancer: Unus pro omnibus, omnes pro uno. <i>Molecular Oncology</i> , 2009, 3, 339-353.	2.1	25
64	Critical Point in Self-Organized Tissue Growth. <i>Physical Review Letters</i> , 2018, 120, 198102.	2.9	25
65	Membrane traffic during embryonic development: epithelial formation, cell fate decisions and differentiation. <i>Current Opinion in Cell Biology</i> , 2004, 16, 407-414.	2.6	22
66	The Role of Endocytosis during Morphogenetic Signaling. <i>Cold Spring Harbor Perspectives in Biology</i> , 2014, 6, a016881-a016881.	2.3	21
67	Response to Comment on "Dynamics of Dpp Signaling and Proliferation Control". <i>Science</i> , 2012, 335, 401-401.	6.0	20
68	The missing link: implementation of morphogenetic growth control on the cellular and molecular level. <i>Current Opinion in Genetics and Development</i> , 2011, 21, 690-695.	1.5	19
69	Monitoring Notch/Delta Endosomal Trafficking and Signaling in <i>Drosophila</i> . <i>Methods in Enzymology</i> , 2014, 534, 301-321.	0.4	19
70	The wing and the eye: a parsimonious theory for scaling and growth control?. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2015, 4, 591-608.	5.9	19
71	Tip cellâ€derived RTK signaling initiates cell movements in the <i>Drosophila</i> stomatogastric nervous system anlage. <i>EMBO Reports</i> , 2000, 1, 366-371.	2.0	16
72	From endocytosis to tumors through asymmetric cell division of stem cells. <i>Current Opinion in Cell Biology</i> , 2008, 20, 462-469.	2.6	16

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73	The Crumbs_C isoform of <i>Drosophila</i> shows tissue- and stage-specific expression and prevents light-dependent retinal degeneration. <i>Biology Open</i> , 2017, 6, 165-175.	0.6	16
74	Invagination centers within the <i>Drosophila</i> stomatogastric nervous system anlage are positioned by Notch-mediated signaling which is spatially controlled through wingless. <i>Development (Cambridge)</i> , 1995, 121, 2313-25.	1.2	14
75	Sara phosphorylation state controls the dispatch of endosomes from the central spindle during asymmetric division. <i>Nature Communications</i> , 2017, 8, 15285.	5.8	12
76	Embryonic limb development in <i>Drosophila</i> . <i>Trends in Genetics</i> , 1993, 9, 371-373.	2.9	10
77	Endocytic Adaptor Protein Tollip Inhibits Canonical Wnt Signaling. <i>PLoS ONE</i> , 2015, 10, e0130818.	1.1	10
78	Endosomal Trafficking During Mitosis and Notch-Dependent Asymmetric Division. <i>Progress in Molecular and Subcellular Biology</i> , 2018, 57, 301-329.	0.9	10
79	Flipper Probes for the Community. <i>Chimia</i> , 2021, 75, 1004.	0.3	9
80	A role for Flower and cell death in controlling morphogen gradient scaling. <i>Nature Cell Biology</i> , 2022, 24, 424-433.	4.6	9
81	The Garden of Forking Paths: Recycling, Signaling, and Degradation. <i>Developmental Cell</i> , 2008, 15, 172-174.	3.1	8
82	Wnt-controlled sphingolipids modulate Anthrax Toxin Receptor palmitoylation to regulate oriented mitosis in zebrafish. <i>Nature Communications</i> , 2020, 11, 3317.	5.8	8
83	Tales of 1001 Functions: The Multiple Roles of Membrane Trafficking in Development. <i>Traffic</i> , 2009, 10, 781-782.	1.3	4
84	Quantitative Imaging of Morphogen Gradients in <i>Drosophila</i> Imaginal Discs. <i>Cold Spring Harbor Protocols</i> , 2013, 2013, pdb.top074237.	0.2	4
85	Integrating levels of complexity: a trend in developmental biology. <i>Current Opinion in Cell Biology</i> , 2011, 23, 647-649.	2.6	2
86	When cell biology meets theory. <i>Journal of Cell Biology</i> , 2015, 210, 1041-1045.	2.3	2