Cayetano Gonzalez

List of Publications by Year
in descending order

82 papers	5,243 citations	87888 38 h-index	88630 70 g-index
87 all docs	87 docs citations	87 times ranked	4674 citing authors

#	Article	IF	Citations
1	Induction of tumor growth by altered stem-cell asymmetric division in Drosophila melanogaster. Nature Genetics, 2005, 37, 1125-1129.	21.4	406
2	polo encodes a protein kinase homolog required for mitosis in Drosophila.. Genes and Development, 1991, 5, 2153-2165.	5.9	371
3	Functionally Unequal Centrosomes Drive Spindle Orientation in Asymmetrically Dividing Drosophila Neural Stem Cells. Developmental Cell, 2007, 12, 467-474.	7.0	262
4	Ectopic Expression of Germline Genes Drives Malignant Brain Tumor Growth in Drosophila. Science, 2010, 330, 1824-1827.	12.6	252
5	Drosophila melanogaster: a model and a tool to investigate malignancy and identify new therapeutics. Nature Reviews Cancer, 2013, 13, 172-183.	28.4	246
6	Drosophila neuroblasts retain the daughter centrosome. Nature Communications, 2011, 2, 243.	12.8	171
7	Spindle orientation, asymmetric division and tumour suppression in Drosophila stem cells. Nature Reviews Genetics, 2007, 8, 462-472.	16.3	169
8	Centrosome Dysfunction in Drosophila Neural Stem Cells Causes Tumors that Are Not Due to Genome Instability. Current Biology, 2008, 18, 1209-1214.	3.9	154
9	Vaccinia virus infection disrupts microtubule organization and centrosome function. EMBO Journal, 2000, 19, 3932-3944.	7.8	151
10	The Drosophila Gene abnormal spindle Encodes a Novel Microtubule-associated Protein That Associates with the Polar Regions of the Mitotic Spindle. Journal of Cell Biology, 1997, 137, 881-890.	5.2	142
11	Asterless Is a Centriolar Protein Required for Centrosome Function and Embryo Development in Drosophila. Current Biology, 2007, 17, 1735-1745.	3.9	142
12	Transcripts of one of two Drosophila cyclin genes become localized in pole cells during embryogenesis. Nature, 1989, 338, 337-340.	27.8	132
13	Polyhomeotic has a tumor suppressor activity mediated by repression of Notch signaling. Nature Genetics, 2009, 41, 1076-1082.	21.4	112
14	Hsp90 is a core centrosomal component and is required at different stages of the centrosome cycle in Drosophila and vertebrates. EMBO Journal, 2000, 19, 1252-1262.	7.8	111
15	Centrobin controls motherâ€“daughter centriole asymmetry in Drosophila neuroblasts. Nature Cell Biology, 2013, 15, 241-248.	10.3	111
16	Regulation of the G1-S transition in postembryonic neuronal precursors by axon ingrowth. Nature, 1992, 355, 253-255.	27.8	102
17	Transposable elements map in a conserved pattern of distribution extending from beta-heterochromatin to centromeres in Drosophila melanogaster. Chromosoma, 1995, 103, 676-684.	2.2	101
18	Essential role for gamma -tubulin in the acentriolar female meiotic spindle of Drosophila. EMBO Journal, 1997, 16, 1809-1819.	7.8	92

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19	The interphase microtubule aster is a determinant of asymmetric division orientation in Drosophila neuroblasts. Journal of Cell Biology, 2010, 188, 693-706.	5.2	91
20	Spermatocyte cytokinesis requires rapid membrane addition mediated by ARF6 on central spindle recycling endosomes. Development (Cambridge), 2007, 134, 4437-4447.	2.5	90
21	Requirement of Hsp90 for centrosomal function reflects its regulation of Polo kinase stability. EMBO Journal, 2001, 20, 2878-2884.	7.8	85
22	Contribution of Noncentrosomal Microtubules to Spindle Assembly in Drosophila Spermatocytes. PLoS Biology, 2004, 2, e8.	5.6	84
23	Cell type-specific gene expression in the Drosophila melanogaster male accessory gland. Mechanisms of Development, 1992, 38, 33-40.	1.7	83
24	Computer-aided design of a PDZ domain to recognize new target sequences. Nature Structural Biology, 2002, 9, 621-7.	9.7	83
25	Drosophila asymmetric division, polarity and cancer. Oncogene, 2008, 27, 6994-7002.	5.9	73
26	Patterns of Cell Division and Expression of Asymmetric Cell Fate Determinants in Postembryonic Neuroblast Lineages of Drosophila. Developmental Biology, 2001, 230, 125-138.	2.0	68
27	An Ana2/Ctp/Mud Complex Regulates Spindle Orientation in Drosophila Neuroblasts. Developmental Cell, 2011, 21, 520-533.	7.0	61
28	The Brm-HDAC3-Erm repressor complex suppresses dedifferentiation in Drosophila type II neuroblast lineages. ELife, 2014, 3, e01906.	6.0	60
29	Organized microtubule arrays in Î³-tubulin-depleted Drosophila spermatocytes. Current Biology, 2001, 11, 1788-1793.	3.9	58
30	Visualizing the spindle checkpoint inDrosophilaspermatocytes. EMBO Reports, 2000, 1, 65-70.	4.5	55
31	Biased segregation of DNA and centrosomes â€" moving together or drifting apart?. Nature Reviews Molecular Cell Biology, 2009, 10, 804-810.	37.0	52
32	The Centrosome. Scientific American, 1993, 268, 62-68.	1.0	51
33	Connecting Cancer to the Asymmetric Division of Stem Cells. Cell, 2006, 124, 1121-1123.	28.9	49
34	Spindle alignment is achieved without rotation after the first cell cycle inDrosophilaembryonic neuroblasts. Development (Cambridge), 2009, 136, 3393-3397.	2.5	48
35	The translational relevance of Drosophila in drug discovery. EMBO Reports, 2016, 17, 471-472.	4.5	46
36	The spindle is required for the process of sister chromatid separation in Drosophila neuroblasts. Experimental Cell Research, 1991, 192, 10-15.	2.6	45

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37	Cdc37 is essential for chromosome segregation and cytokinesis in higher eukaryotes. EMBO Journal, 2002, 21, 5364-5374.	7.8	45
38	Studying tumor growth in Drosophila using the tissue allograft method. Nature Protocols, 2015, 10, 1525-1534.	12.0	43
39	Relationship between chromosome content and nuclear diameter in early spermatids ofDrosophila melanogaster. Genetical Research, 1989, 54, 205-212.	0.9	41
40	Hsp90 inhibition differentially destabilises MAP kinase and TGF-beta signalling components in cancer cells revealed by kinase-targeted chemoproteomics. BMC Cancer, 2012, 12, 38.	2.6	41
41	Molecular analysis of ribosomal DNA from the aphid Amphorophora idaei and an associated fungal organism. Insect Molecular Biology, 1994, 3, 183-189.	2.0	36
42	Localized transfection on arrays of magnetic beads coated with PCR products. Nature Methods, 2005, 2, 113-118.	19.0	36
43	Drosophila dd4 mutants reveal that Î³TuRC is required to maintain juxtaposed half spindles in spermatocytes. Journal of Cell Science, 2003, 116, 929-941.	2.0	33
44	When fate follows age: unequal centrosomes in asymmetric cell division. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130466.	4.0	33
45	On the inscrutable role of Inscuteable: structural basis and functional implications for the competitive binding of NuMA and Inscuteable to LGN. Open Biology, 2012, 2, 120102.	3.6	31
46	Interactions between mgr , asp , and polo : asp function modulated by polo and needed to maintain the poles of monopolar and bipolar spindles. Chromosoma, 1998, 107, 452-460.	2.2	28
47	Neural stem cells: the need for a proper orientation. Current Opinion in Genetics and Development, 2010, 20, 438-442.	3.3	28
48	Drosophila Mgr, a Prefoldin subunit cooperating with von Hippel Lindau to regulate tubulin stability. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5729-5734.	7.1	27
49	Loss of Centrobin Enables Daughter Centrioles to Form Sensory Cilia in Drosophila. Current Biology, 2015, 25, 2319-2324.	3.9	26
50	Â-Tubulin function during female germ-cell development and oogenesis in Drosophila. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10263-10268.	7.1	25
51	Structure and Non-Structure of Centrosomal Proteins. PLoS ONE, 2013, 8, e62633.	2.5	25
52	Protein traps: using intracellular localization for cloning. Trends in Cell Biology, 2000, 10, 162-165.	7.9	24
53	Centrosome function during stem cell division: the devil is in the details. Current Opinion in Cell Biology, 2008, 20, 694-698.	5.4	24
54	Arl2- and Msps-dependent microtubule growth governs asymmetric division. Journal of Cell Biology, 2016, 212, 661-676.	5.2	24

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55	Interplay between the Transcription Factor Zif and aPKC Regulates Neuroblast Polarity and Self-Renewal. Developmental Cell, 2010, 19, 778-785.	7.0	23
56	Prefoldin and Pins synergistically regulate asymmetric division and suppress dedifferentiation. Scientific Reports, 2016, 6, 23735.	3.3	21
57	Miranda, a protein involved in neuroblast asymmetric division, is associated with embryonic centrosomes of Drosophila melanogaster. Biology of the Cell, 2002, 94, 1-13.	2.0	19
58	Mutations in New Cell Cycle Genes That Fail to Complement a Multiply Mutant Third Chromosome of Drosophila. Genetics, 1996, 144, 1097-1111.	2.9	17
59	Dominant-negative mutant dynein allows spontaneous centrosome assembly, uncouples chromosome and centrosome cycles. Current Biology, 2001, 11, 136-140.	3.9	16
60	Centrobin is essential for C-tubule assembly and flagellum development in Drosophila melanogaster spermatogenesis. Journal of Cell Biology, 2018, 217, 2365-2372.	5.2	16
61	Time-lapse recording of centrosomes and other organelles in Drosophila neuroblasts. Methods in Cell Biology, 2015, 129, 301-315.	1.1	15
62	Towards the genetic dissection of mitosis inDrosophila. BioEssays, 1987, 7, 204-210.	2.5	13
63	Time-Lapse Imaging of Male Meiosis by Phase-Contrast and Fluorescence Microscopy. , 2004, 247, 77-88.		13
64	Synergism between altered cortical polarity and the PI3K/TOR pathway in the suppression of tumour growth. EMBO Reports, 2012, 13, 157-162.	4.5	12
65	Anin vivogenetic screen inDrosophilaidentifies the orthologue of human cancer/testis geneSPO11among a network of targets to inhibitlethal(3)malignant brain tumourgrowth. Open Biology, 2017, 7, 170156.	3.6	12
66	Transposable elements map in a conserved pattern of distribution extending from beta-heterochromatin to centromeres in Drosophila melanogaster. Chromosoma, 1995, 103, 676-684.	2.2	12
67	Localized transfection with magnetic beads coated with PCR products and other nucleic acids. Nature Protocols, 2006, 1, 526-531.	12.0	10
68	Cell Cycle Genes of Drosophila. Advances in Genetics, 1994, 31, 79-138.	1.8	9
69	16 Methods in Drosophila Cell Cycle Biology. Current Topics in Developmental Biology, 1997, 36, 279-291.	2.2	9
70	Timeâ€Łapse Imaging of Embryonic Neural Stem Cell Division in Drosophila by Twoâ€Photon Microscopy. Current Protocols in Stem Cell Biology, 2010, 13, Unit1H.2.	3.0	8
71	Structure and microtubule-nucleation activity of isolated Drosophila embryo centrosomes characterized by whole mount scanning and transmission electron microscopy. Histochemistry and Cell Biology, 2005, 124, 325-334.	1.7	7
72	The histone code reader PHD finger protein 7 controls sex-linked disparities in gene expression and malignancy in Drosophila. Science Advances, 2019, 5, eaaw7965.	10.3	7

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73	Cell Division: The Place and Time of Cytokinesis. Current Biology, 2003, 13, R363-R365.	3.9	5
74	Centrosomes in asymmetric cell division. Current Opinion in Structural Biology, 2021, 66, 178-182.	5.7	5
75	DrosophilaLarval Brain Neoplasms Present Tumour-Type Dependent Genome Instability. G3: Genes, Genomes, Genetics, 2018, 8, 1205-1214.	1.8	4
76	Structures of the germline-specific Deadhead and thioredoxin T proteins from Drosophila melanogaster reveal unique features among thioredoxins. IUCrJ, 2021, 8, 281-294.	2.2	4
77	Aurora-A in Cell Fate Control. Science Signaling, 2002, 2002, pe48-pe48.	3.6	3
78	A last-minute decision. Nature, 2015, 528, 196-197.	27.8	3
79	Cyclical Changes in the Subcellular Distribution of Proteins Essential for Mitosis during Embryogenesis in Drosophila. Cold Spring Harbor Symposia on Quantitative Biology, 1991, 56, 709-717.	1.1	1
80	Below the Convergence. Current Biology, 2009, 19, R313-R314.	3.9	0
81	Cayetano GonzÃ¡lez: Mothers, daughters, stemness, and cancer. Journal of Cell Biology, 2015, 208, 254-255.	5.2	0
82	Quantitative differences, qualitative outcomes. ELife, 2014, 3, .	6.0	0