Monica Bettencourt-Dias

List of Publications by Year
in descending order

64 papers	5,773 citations	136950 32 h-index	133252 59 g-index
75 all docs	75 docs citations	75 times ranked	5522 citing authors

#	Article	IF	Citations
1	SAK/PLK4 Is Required for Centriole Duplication and Flagella Development. Current Biology, 2005, 15, 2199-2207.	3.9	553
2	Centrosome biogenesis and function: centrosomics brings new understanding. Nature Reviews Molecular Cell Biology, 2007, 8, 451-463.	37.0	489
3	Polo-like kinases: structural variations lead to multiple functions. Nature Reviews Molecular Cell Biology, 2014, 15, 433-452.	37.0	377
4	Tracing the origins of centrioles, cilia, and flagella. Journal of Cell Biology, 2011, 194, 165-175.	5.2	335
5	Genome-wide survey of protein kinases required for cell cycle progression. Nature, 2004, 432, 980-987.	27.8	324
6	Centrosomes and cilia in human disease. Trends in Genetics, 2011, 27, 307-315.	6.7	323
7	Candidate exome capture identifies mutation of SDCCAG8 as the cause of a retinal-renal ciliopathy. Nature Genetics, 2010, 42, 840-850.	21.4	295
8	Asterless is a scaffold for the onset of centriole assembly. Nature, 2010, 467, 714-718.	27.8	275
9	Revisiting the Role of the Mother Centriole in Centriole Biogenesis. Science, 2007, 316, 1046-1050.	12.6	236
10	The SCF/Slimb Ubiquitin Ligase Limits Centrosome Amplification through Degradation of SAK/PLK4. Current Biology, 2009, 19, 43-49.	3.9	226
11	Stepwise evolution of the centriole-assembly pathway. Journal of Cell Science, 2010, 123, 1414-1426.	2.0	202
12	DSAS-6 Organizes a Tube-like Centriole Precursor, and Its Absence Suggests Modularity in Centriole Assembly. Current Biology, 2007, 17, 1465-1472.	3.9	172
13	Heterogeneous proliferative potential in regenerative adult newt cardiomyocytes. Journal of Cell Science, 2003, 116, 4001-4009.	2.0	129
14	Deconstructing the centriole: structure and number control. Current Opinion in Cell Biology, 2012, 24, 4-13.	5.4	117
15	Over-elongation of centrioles in cancer promotes centriole amplification and chromosome missegregation. Nature Communications, 2018, 9, 1258.	12.8	113
16	Regulation of Autophosphorylation Controls PLK4 Self-Destruction and Centriole Number. Current Biology, 2013, 23, 2245-2254.	3.9	110
17	A mechanism for the elimination of the female gamete centrosome in <i>Drosophila melanogaster</i>. Science, 2016, 353, aaf4866.	12.6	90
18	Centrioles: active players or passengers during mitosis?. Cellular and Molecular Life Sciences, 2010, 67, 2173-2194.	5.4	88

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19	BLD10/CEP135 Is a Microtubule-Associated Protein that Controls the Formation of the Flagellum Central Microtubule Pair. Developmental Cell, 2012, 23, 412-424.	7.0	84
20	Building the right centriole for each cell type. Journal of Cell Biology, 2018, 217, 823-835.	5.2	84
21	Differential regulation of transition zone and centriole proteins contributes to ciliary base diversity. Nature Cell Biology, 2018, 20, 928-941.	10.3	78
22	PLK4 trans-Autoactivation Controls Centriole Biogenesis in Space. Developmental Cell, 2015, 35, 222-235.	7.0	77
23	CDK1 Prevents Unscheduled PLK4-STIL Complex Assembly in Centriole Biogenesis. Current Biology, 2016, 26, 1127-1137.	3.9	68
24	From centriole biogenesis to cellular function: Centrioles are essential for cell division at critical developmental stages. Cell Cycle, 2008, 7, 11-16.	2.6	67
25	Rootletin organizes the ciliary rootlet to achieve neuron sensory function in <i>Drosophila</i>. Journal of Cell Biology, 2015, 211, 435-453.	5.2	63
26	Mapping molecules to structure: unveiling secrets of centriole and cilia assembly with near-atomic resolution. Current Opinion in Cell Biology, 2014, 26, 96-106.	5.4	62
27	Centrosome amplification arises before neoplasia and increases upon p53 loss in tumorigenesis. Journal of Cell Biology, 2018, 217, 2353-2363.	5.2	61
28	Drosophila melanogaster as a model for basal body research. Cilia, 2016, 5, 22.	1.8	55
29	Distinct mechanisms eliminate mother and daughter centrioles in meiosis of starfish oocytes. Journal of Cell Biology, 2016, 212, 815-827.	5.2	48
30	Centrosome Remodelling in Evolution. Cells, 2018, 7, 71.	4.1	46
31	From Zero to Many: Control of Centriole Number in Development and Disease. Traffic, 2009, 10, 482-498.	2.7	43
32	Maintaining centrosomes and cilia. Journal of Cell Science, 2017, 130, 3789-3800.	2.0	43
33	PLK4 is a microtubule-associated protein that self assembles promoting <i>de novo</i> MTOC formation. Journal of Cell Science, 2018, 132, .	2.0	40
34	Polo-like kinase 4 controls centriole duplication but does not directly regulate cytokinesis. Molecular Biology of the Cell, 2012, 23, 1838-1845.	2.1	35
35	Pan-cancer association of a centrosome amplification gene expression signature with genomic alterations and clinical outcome. PLoS Computational Biology, 2019, 15, e1006832.	3.2	35
36	Evolution of centriole assembly. Current Biology, 2020, 30, R494-R502.	3.9	28

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37	RNAi in Drosophila S2 Cells as a Tool for Studying Cell Cycle Progression. Methods in Molecular Biology, 2009, 545, 39-62.	0.9	27
38	Q&A: Who needs a centrosome?. BMC Biology, 2013, 11, 28.	3.8	27
39	Double life of centrioles: CP110 in the spotlight. Trends in Cell Biology, 2008, 18, 8-11.	7.9	25
40	Plk4 triggers autonomous de novo centriole biogenesis and maturation. Journal of Cell Biology, 2021, 220, .	5.2	22
41	Pericentrin-mediated SAS-6 recruitment promotes centriole assembly. ELife, 2019, 8, .	6.0	22
42	Noncanonical Biogenesis of Centrioles and Basal Bodies. Cold Spring Harbor Symposia on Quantitative Biology, 2017, 82, 123-135.	1.1	21
43	Î³-Tubulin-containing abnormal centrioles are induced by insufficient Plk4 in human HCT116 colorectal cancer cells. Journal of Cell Science, 2009, 122, 2014-2023.	2.0	20
44	SnapShot: Centriole Biogenesis. Cell, 2009, 136, 188.e1-188.e2.	28.9	19
45	Phenotypic Screen with TSC-Deficient Neurons Reveals Heat-Shock Machinery as a Druggable Pathway for mTORC1 and Reduced Cilia. Cell Reports, 2020, 31, 107780.	6.4	16
46	Biophysical and Quantitative Principles of Centrosome Biogenesis and Structure. Annual Review of Cell and Developmental Biology, 2021, 37, 43-63.	9.4	15
47	Polo Boxes Come out of the Crypt: A New View of PLK Function and Evolution. Structure, 2012, 20, 1801-1804.	3.3	14
48	Pericentriolar material. Current Biology, 2020, 30, R687-R689.	3.9	10
49	Tracing the origins of centrioles, cilia, and flagella. Journal of Cell Biology, 2011, 195, 341-341.	5.2	8
50	Patterns of selection against centrosome amplification in human cell lines. PLoS Computational Biology, 2021, 17, e1008765.	3.2	8
51	The 3D architecture and molecular foundations of de novo centriole assembly via bicentrioles. Current Biology, 2021, 31, 4340-4353.e7.	3.9	8
52	Myosin VI regulates ciliogenesis by promoting the turnover of the centrosomal/satellite protein OFD1. EMBO Reports, 2022, 23, e54160.	4.5	7
53	CYR61 and TAZ Upregulation and Focal Epithelial to Mesenchymal Transition May Be Early Predictors of Barrettâ€™s Esophagus Malignant Progression. PLoS ONE, 2016, 11, e0161967.	2.5	6
54	Methods to Study Centrosomes and Cilia in Drosophila. Methods in Molecular Biology, 2016, 1454, 215-236.	0.9	5

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55	Microscopy Methods for the Study of Centriole Biogenesis and Function in Drosophila. Methods in Cell Biology, 2010, 97, 223-242.	1.1	3
56	A structural road map to unveil basal body composition and assembly. EMBO Journal, 2012, 31, 519-521.	7.8	3
57	A first-takes-all model of centriole copy number control based on cartwheel elongation. PLoS Computational Biology, 2021, 17, e1008359.	3.2	2
58	Centrosome Assembly: Reconstructing the Core Cartwheel Structure InÂVitro. Current Biology, 2017, 27, R606-R609.	3.9	1
59	The Cell Cycle, Cytoskeleton and Cancer. Learning Materials in Biosciences, 2019, , 51-74.	0.4	1
60	Training Scientists in Communication Skills. , 2007, , 71-77.		1
61	MÃ³nica Bettencourt-Dias: Centered on centrioles. Journal of Cell Biology, 2010, 190, 710-711.	5.2	0
62	Polo Boxes Come out of the Crypt: A New View of PLK Function and Evolution. Structure, 2012, 20, 2191.	3.3	0
63	The architectural landscape of diverse ciliary functions. Cilia, 2015, 4, .	1.8	0
64	Studying Centriole Duplication and Elongation in Human Cells. Methods in Molecular Biology, 2020, 2101, 147-162.	0.9	0