

Ana Losada

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

5,512
citations

136950

32
h-index

133252

59
g-index

66
all docs

66
docs citations

66
times ranked

5385
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of <i>Xenopus</i> SMC protein complexes required for sister chromatid cohesion. <i>Genes and Development</i> , 1998, 12, 1986-1997.	5.9	561
2	Differential Contributions of Condensin I and Condensin II to Mitotic Chromosome Architecture in Vertebrate Cells. <i>Cell</i> , 2003, 115, 109-121.	28.9	487
3	Condensin and cohesin display different arm conformations with characteristic hinge angles. <i>Journal of Cell Biology</i> , 2002, 156, 419-424.	5.2	343
4	Dynamic molecular linkers of the genome: the first decade of SMC proteins. <i>Genes and Development</i> , 2005, 19, 1269-1287.	5.9	317
5	Cohesin release is required for sister chromatid resolution, but not for condensin-mediated compaction, at the onset of mitosis. <i>Genes and Development</i> , 2002, 16, 3004-3016.	5.9	293
6	Identification and Characterization of Sa/Scs3p Subunits in the <i>Xenopus</i> and Human Cohesin Complexes. <i>Journal of Cell Biology</i> , 2000, 150, 405-416.	5.2	278
7	Recurrent inactivation of STAG2 in bladder cancer is not associated with aneuploidy. <i>Nature Genetics</i> , 2013, 45, 1464-1469.	21.4	224
8	Cohesin in cancer: chromosome segregation and beyond. <i>Nature Reviews Cancer</i> , 2014, 14, 389-393.	28.4	210
9	Cohesin organizes chromatin loops at DNA replication factories. <i>Genes and Development</i> , 2010, 24, 2812-2822.	5.9	195
10	Functional contribution of Pds5 to cohesin-mediated cohesion in human cells and <i>Xenopus</i> egg extracts. <i>Journal of Cell Science</i> , 2005, 118, 2133-2141.	2.0	181
11	Cohesin-SA1 deficiency drives aneuploidy and tumorigenesis in mice due to impaired replication of telomeres. <i>EMBO Journal</i> , 2012, 31, 2076-2089.	7.8	160
12	A unique role of cohesin-SA1 in gene regulation and development. <i>EMBO Journal</i> , 2012, 31, 2090-2102.	7.8	134
13	ISWI Remodeling Complexes in <i>Xenopus</i> Egg Extracts: Identification as Major Chromosomal Components that Are Regulated by INCENP-aurora B. <i>Molecular Biology of the Cell</i> , 2002, 13, 25-39.	2.1	128
14	Distinct roles of cohesin-SA1 and cohesin-SA2 in 3D chromosome organization. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 496-504.	8.2	128
15	Cohesin Protects Genes against γ H2AX Induced by DNA Double-Strand Breaks. <i>PLoS Genetics</i> , 2012, 8, e1002460.	3.5	111
16	Intermolecular DNA interactions stimulated by the cohesin complex in vitro. <i>Current Biology</i> , 2001, 11, 268-272.	3.9	101
17	<i>Xenopus</i> HJURP and condensin II are required for CENP-A assembly. <i>Journal of Cell Biology</i> , 2011, 192, 569-582.	5.2	98
18	Shaping the metaphase chromosome: coordination of cohesion and condensation. <i>BioEssays</i> , 2001, 23, 924-935.	2.5	94

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19	Pds5B is required for cohesion establishment and Aurora B accumulation at centromeres. <i>EMBO Journal</i> , 2013, 32, 2938-2949.	7.8	87
20	Cohesin, a chromatin engagement ring. <i>Current Opinion in Cell Biology</i> , 2013, 25, 63-71.	5.4	87
21	Cohesin in development and disease. <i>Development (Cambridge)</i> , 2013, 140, 3715-3718.	2.5	78
22	Mutations and variants in the cohesion factor genes <i>NIPBL</i> , <i>SMC1A</i> , and <i>SMC3</i> in a cohort of 30 unrelated patients with Cornelia de Lange syndrome. <i>American Journal of Medical Genetics, Part A</i> , 2010, 152A, 924-929.	1.2	72
23	Tipin/Tim1/And1 protein complex promotes Pol α chromatin binding and sister chromatid cohesion. <i>EMBO Journal</i> , 2009, 28, 3681-3692.	7.8	71
24	Establishing and dissolving cohesion during the vertebrate cell cycle. <i>Current Opinion in Cell Biology</i> , 2018, 52, 51-57.	5.4	71
25	Cohesin Mutations in Cancer. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2016, 6, a026476.	6.2	68
26	Centromeres from telomeres? The centromeric region of the Y chromosome of <i>Drosophila melanogaster</i> contains a tandem array of telomeric HeT-A- and TART-related sequences. <i>Nucleic Acids Research</i> , 1999, 27, 3318-3324.	14.5	62
27	Specific Contributions of Cohesin-SA1 and Cohesin-SA2 to TADs and Polycomb Domains in Embryonic Stem Cells. <i>Cell Reports</i> , 2019, 27, 3500-3510.e4.	6.4	60
28	Specialized functions of cohesins STAG1 and STAG2 in 3D genome architecture. <i>Current Opinion in Genetics and Development</i> , 2020, 61, 9-16.	3.3	52
29	PDS5 proteins are required for proper cohesin dynamics and participate in replication fork protection. <i>Journal of Biological Chemistry</i> , 2020, 295, 146-157.	3.4	51
30	A dicentric chromosome of <i>Drosophila melanogaster</i> showing alternate centromere inactivation. <i>Chromosoma</i> , 2000, 109, 190-196.	2.2	42
31	Reduction of <i>Nipbl</i> impairs cohesin loading locally and affects transcription but not cohesion-dependent functions in a mouse model of Cornelia de Lange Syndrome. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013, 1832, 2097-2102.	3.8	41
32	Cohesin regulation: fashionable ways to wear a ring. <i>Chromosoma</i> , 2007, 116, 321-329.	2.2	40
33	Esperanto for histones: CENP-A, not CenH3, is the centromeric histone H3 variant. <i>Chromosome Research</i> , 2013, 21, 101-106.	2.2	37
34	Heterochromatin Protein 1 (HP1) Proteins Do Not Drive Pericentromeric Cohesin Enrichment in Human Cells. <i>PLoS ONE</i> , 2009, 4, e5118.	2.5	36
35	<i>Xenopus</i> Shugoshin 2 regulates the spindle assembly pathway mediated by the chromosomal passenger complex. <i>EMBO Journal</i> , 2012, 31, 1467-1479.	7.8	33
36	Essential Roles of Cohesin STAG2 in Mouse Embryonic Development and Adult Tissue Homeostasis. <i>Cell Reports</i> , 2020, 32, 108014.	6.4	33

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37	Shugoshin regulates cohesion by driving relocalization of PP2A in <i>Xenopus</i> extracts. <i>Chromosoma</i> , 2009, 118, 223-233.	2.2	32
38	The regulation of sister chromatid cohesion. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2008, 1786, 41-48.	7.4	31
39	The contribution of cohesin-SA1 to gene expression and chromatin architecture in two murine tissues. <i>Nucleic Acids Research</i> , 2015, 43, 3056-3067.	14.5	31
40	Epigenetic specification of centromeres by CENP-A. <i>Experimental Cell Research</i> , 2009, 315, 3233-3241.	2.6	29
41	Shugoshin and PP2A, shared duties at the centromere. <i>BioEssays</i> , 2006, 28, 775-779.	2.5	28
42	Organization of DNA sequences near the centromere of the <i>Drosophila melanogaster</i> Y chromosome. <i>Chromosoma</i> , 1998, 106, 503-512.	2.2	27
43	Sororin loads to the synaptonemal complex central region independently of meiotic cohesin complexes. <i>EMBO Reports</i> , 2016, 17, 695-707.	4.5	27
44	Autosomal location of a new subtype of 1.688 satellite DNA of <i>Drosophila melanogaster</i> . <i>Chromosome Research</i> , 1996, 4, 372-383.	2.2	26
45	Chromatin determinants of the inner-centromere rely on replication factors with functions that impart cohesion. <i>Oncotarget</i> , 2016, 7, 67934-67947.	1.8	26
46	Cohesin ties up the genome. <i>Current Opinion in Cell Biology</i> , 2010, 22, 781-787.	5.4	24
47	The human Cranio Facial Development Protein 1 (Cfdp1) gene encodes a protein required for the maintenance of higher-order chromatin organization. <i>Scientific Reports</i> , 2017, 7, 45022.	3.3	24
48	<sc>PDS</sc> 5 proteins regulate the length of axial elements and telomere integrity during male mouse meiosis. <i>EMBO Reports</i> , 2020, 21, e49273.	4.5	24
49	The specific contributions of cohesin-SA1 to cohesion and gene expression. <i>Cell Cycle</i> , 2012, 11, 2233-2238.	2.6	22
50	Disruption of NIPBL/Sccl in Cornelia de Lange Syndrome provokes cohesin genome-wide redistribution with an impact in the transcriptome. <i>Nature Communications</i> , 2021, 12, 4551.	12.8	20
51	The distinct functions of CENP-C and CENP-T/W in centromere propagation and function in <i>Xenopus</i> egg extracts. <i>Nucleus</i> , 2015, 6, 133-143.	2.2	16
52	Bub1 targeting to centromeres is sufficient for Sgo1 recruitment in the absence of kinetochores. <i>Chromosoma</i> , 2017, 126, 279-286.	2.2	15
53	Could a patient with <i>SMC1A</i> duplication be classified as a human cohesinopathy?. <i>Clinical Genetics</i> , 2014, 85, 446-451.	2.0	12
54	New light on sticky sisters. <i>Current Biology</i> , 2000, 10, R615.	3.9	8

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55	Regulatory CDH4 Genetic Variants Associate With Risk to Develop Capecitabine-Induced Hand-Foot Syndrome. <i>Clinical Pharmacology and Therapeutics</i> , 2021, 109, 462-470.	4.7	6
56	Long-range analysis of the centromeric region of <i>Drosophila melanogaster</i> chromosome 3. <i>Chromosome Research</i> , 2000, 8, 651-653.	2.2	5
57	Recycling Cohesin Rings by Deacetylation. <i>Molecular Cell</i> , 2010, 39, 657-659.	9.7	5
58	New clues to understand how CENP-A maintains centromere identity. <i>Cell Division</i> , 2011, 6, 11.	2.4	3
59	Smc5 flies solo. <i>Cell Cycle</i> , 2011, 10, 879-878.	2.6	1
60	Specific Contributions of Cohesin-SA1 and Cohesin-SA2 to TADs and Polycomb Domains in Embryonic Stem Cells. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0