Daniela Cimini

List of Publications by Year
in descending order

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63 papers	6,468 citations	81839 39 h-index	114418 63 g-index
65 all docs	65 docs citations	65 times ranked	5278 citing authors

#	Article	IF	Citations
1	Kinetochore Microtubule Dynamics and Attachment Stability Are Regulated by Hec1. Cell, 2006, 127, 969-982.	13.5	663
2	Merotelic Kinetochore Orientation Is a Major Mechanism of Aneuploidy in Mitotic Mammalian Tissue Cells. Journal of Cell Biology, 2001, 153, 517-528.	2.3	498
3	Chromosomes Can Congress to the Metaphase Plate Before Biorientation. Science, 2006, 311, 388-391.	6.0	405
4	The Mad1/Mad2 Complex as a Template for Mad2 Activation in the Spindle Assembly Checkpoint. Current Biology, 2005, 15, 214-225.	1.8	376
5	Multipolar Spindle Pole Coalescence Is a Major Source of Kinetochore Mis-Attachment and Chromosome Mis-Segregation in Cancer Cells. PLoS ONE, 2009, 4, e6564.	1.1	374
6	Aurora Kinase Promotes Turnover of Kinetochore Microtubules to Reduce Chromosome Segregation Errors. Current Biology, 2006, 16, 1711-1718.	1.8	358
7	Merotelic kinetochore orientation occurs frequently during early mitosis in mammalian tissue cells and error correction is achieved by two different mechanisms. Journal of Cell Science, 2003, 116, 4213-4225.	1.2	232
8	Merotelic kinetochore attachment: causes and effects. Trends in Cell Biology, 2011, 21, 374-381.	3.6	215
9	Cyclophilin 20-3 relays a 12-oxo-phytodienoic acid signal during stress responsive regulation of cellular redox homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9559-9564.	3.3	193
10	Anaphase Spindle Mechanics Prevent Mis-Segregation of Merotelically Oriented Chromosomes. Current Biology, 2004, 14, 2149-2155.	1.8	171
11	Histone Hyperacetylation in Mitosis Prevents Sister Chromatid Separation and Produces Chromosome Segregation Defects. Molecular Biology of the Cell, 2003, 14, 3821-3833.	0.9	165
12	Timing of centrosome separation is important for accurate chromosome segregation. Molecular Biology of the Cell, 2012, 23, 401-411.	0.9	139
13	Merotelic kinetochore orientation, aneuploidy, and cancer. Biochimica Et Biophysica Acta: Reviews on Cancer, 2008, 1786, 32-40.	3.3	137
14	Merotelic kinetochore orientation versus chromosome mono-orientation in the origin of lagging chromosomes in human primary cells. Journal of Cell Science, 2002, 115, 507-515.	1.2	134
15	Overlap microtubules link sister k-fibres and balance the forces on bi-oriented kinetochores. Nature Communications, 2016, 7, 10298.	5.8	127
16	Merotelic kinetochore orientation versus chromosome mono-orientation in the origin of lagging chromosomes in human primary cells. Journal of Cell Science, 2002, 115, 507-15.	1.2	113
17	The mitotic origin of chromosomal instability. Current Biology, 2014, 24, R148-R149.	1.8	110
18	Aneuploidy: a matter of bad connections. Trends in Cell Biology, 2005, 15, 442-451.	3.6	109

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19	Aurora A Kinase Contributes to a Pole-Based Error Correction Pathway. Current Biology, 2015, 25, 1842-1851.	1.8	107
20	Merotelic kinetochores in mammalian tissue cells. Philosophical Transactions of the Royal Society B: Biological Sciences, 2005, 360, 553-568.	1.8	104
21	Kinesin 5â€“independent poleward flux of kinetochore microtubules in PtK1 cells. Journal of Cell Biology, 2006, 173, 173-179.	2.3	104
22	Computer simulations predict that chromosome movements and rotations accelerate mitotic spindle assembly without compromising accuracy. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15708-15713.	3.3	97
23	Selective advantage of trisomic human cells cultured in non-standard conditions. Scientific Reports, 2016, 6, 22828.	1.6	90
24	Chromosome mis-segregation and cytokinesis failure in trisomic human cells. ELife, 2015, 4, .	2.8	87
25	Tetraploid cells from cytokinesis failure induce aneuploidy and spontaneous transformation of mouse ovarian surface epithelial cells. Cell Cycle, 2012, 11, 2864-2875.	1.3	85
26	Changes in Gene Expression and Cellular Architecture in an Ovarian Cancer Progression Model. PLoS ONE, 2011, 6, e17676.	1.1	81
27	The detection and evaluation of aneugenic chemicals. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1996, 353, 11-46.	0.4	74
28	Differences in malsegregation rates obtained by scoring ana-telophases or binucleate cells. Mutagenesis, 1999, 14, 563-568.	1.0	63
29	Detection and Correction of Merotelic Kinetochore Orientation by Aurora B and its Partners. Cell Cycle, 2007, 6, 1558-1564.	1.3	62
30	Targeted Integration of Adeno-Associated Virus-Derived Plasmids in Transfected Human Cells. Virology, 1998, 249, 249-259.	1.1	58
31	The coupling between sister kinetochore directional instability and oscillations in centromere stretch in metaphase PtK1 cells. Molecular Biology of the Cell, 2012, 23, 1035-1046.	0.9	58
32	Fluid shear stress impacts ovarian cancer cell viability, subcellular organization, and promotes genomic instability. PLoS ONE, 2018, 13, e0194170.	1.1	57
33	Cancer Karyotypes: Survival of the Fittest. Frontiers in Oncology, 2013, 3, 148.	1.3	55
34	Transient defects of mitotic spindle geometry and chromosome segregation errors. Cell Division, 2012, 7, 19.	1.1	50
35	Nearâ€tetraploid cancer cells show chromosome instability triggered by replication stress and exhibit enhanced invasiveness. FASEB Journal, 2018, 32, 3502-3517.	0.2	50
36	How Mitotic Errors Contribute to Karyotypic Diversity in Cancer. Advances in Cancer Research, 2011, 112, 43-75.	1.9	46

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37	Dynamic bonds and polar ejection force distribution explain kinetochore oscillations in PtK1 cells. Journal of Cell Biology, 2013, 201, 577-593.	2.3	46
38	Development of Animal Models for Adeno-Associated Virus Site-Specific Integration. Journal of Virology, 1999, 73, 2517-2526.	1.5	46
39	Chromosome Bridges Maintain Kinetochore-Microtubule Attachment throughout Mitosis and Rarely Break during Anaphase. PLoS ONE, 2016, 11, e0147420.	1.1	45
40	Analysis of chromosome loss and non-disjunction in cytokinesis-blocked lymphocytes of 24 male subjects. Mutagenesis, 1999, 14, 491-496.	1.0	41
41	Chromosomes missegregated into micronuclei contribute to chromosomal instability by missegregating at the next division. Oncotarget, 2019, 10, 2660-2674.	0.8	36
42	Topoisomerase II inhibition in mitosis produces numerical and structural chromosomal aberrations in human fibroblasts. Cytogenetic and Genome Research, 1997, 76, 61-67.	0.6	34
43	Simultaneous inhibition of contractile ring and central spindle formation in mammalian cells treated with cytochalasin B. Chromosoma, 1998, 107, 479-485.	1.0	33
44	Link between Aneuploidy and Chromosome Instability. International Review of Cell and Molecular Biology, 2015, 315, 299-317.	1.6	29
45	Genomic instability: Crossing pathways at the origin of structural and numerical chromosome changes. Environmental and Molecular Mutagenesis, 2015, 56, 563-580.	0.9	29
46	A guide to classifying mitotic stages and mitotic defects in fixed cells. Chromosoma, 2018, 127, 215-227.	1.0	29
47	Aneuploidy and gene expression: is there dosage compensation?. Epigenomics, 2019, 11, 1827-1837.	1.0	29
48	Asymmetric clustering of centrosomes defines the early evolution of tetraploid cells. ELife, 2020, 9, .	2.8	27
49	Consequences of aneuploidy in sickness and in health. Current Opinion in Cell Biology, 2016, 40, 41-46.	2.6	26
50	Laser microsurgery reveals conserved viscoelastic behavior of the kinetochore. Journal of Cell Biology, 2016, 212, 767-776.	2.3	25
51	Whole-Genome Duplication Shapes the Aneuploidy Landscape of Human Cancers. Cancer Research, 2022, 82, 1736-1752.	0.4	25
52	Modelling chromosome dynamics in mitosis: a historical perspective on models of metaphase and anaphase in eukaryotic cells. Interface Focus, 2014, 4, 20130073.	1.5	23
53	Transient ALT activation protects human primary cells from chromosome instability induced by low chronic oxidative stress. Scientific Reports, 2017, 7, 43309.	1.6	22
54	Environmental stresses induce karyotypic instability in colorectal cancer cells. Molecular Biology of the Cell, 2019, 30, 42-55.	0.9	22

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55	Effects of 5-azacytidine on the centromeric region of human fibroblasts studied by CREST staining and in situ hybridization on cytokinesis-blocked cells. Cytogenetic and Genome Research, 1996, 72, 219-224.	0.6	15
56	Doubling the deck. Cell Cycle, 2012, 11, 3355-3355.	1.3	10
57	Characterization of Conventional One-Step Sodium Thiosulfate Facilitated Gold Nanoparticle Synthesis. Nanoscale Research Letters, 2015, 10, 940.	3.1	8
58	Single-Cell Analysis Reveals that Chronic Silver Nanoparticle Exposure Induces Cell Division Defects in Human Epithelial Cells. International Journal of Environmental Research and Public Health, 2019, 16, 2061.	1.2	6
59	Spindle Architectural Features Must Be Considered Along With Cell Size to Explain the Timing of Mitotic Checkpoint Silencing. Frontiers in Physiology, 2020, 11, 596263.	1.3	6
60	MISP: The missing link between extracellular matrix and astral microtubules. Cell Cycle, 2013, 12, 1821-1821.	1.3	3
61	Using Photoactivatable GFP to Study Microtubule Dynamics and Chromosome Segregation. Methods in Molecular Biology, 2016, 1413, 15-31.	0.4	2
62	The centrosome: a multifaceted cellular weapon against chromosome instability. Chromosome Research, 2016, 24, 1-4.	1.0	1
63	Chromosome Segregation: The Bigger They Come, theÂHarder They Fall. Current Biology, 2018, 28, R665-R667.	1.8	1