

# Daniela Cimini

## List of Publications by Year in descending order

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63  
papers

6,468  
citations

81900

39  
h-index

114465

63  
g-index

65  
all docs

65  
docs citations

65  
times ranked

5278  
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetochores Microtubule Dynamics and Attachment Stability Are Regulated by Hec1. <i>Cell</i> , 2006, 127, 969-982.	28.9	663
2	Merotelic Kinetochore Orientation Is a Major Mechanism of Aneuploidy in Mitotic Mammalian Tissue Cells. <i>Journal of Cell Biology</i> , 2001, 153, 517-528.	5.2	498
3	Chromosomes Can Congress to the Metaphase Plate Before Biorientation. <i>Science</i> , 2006, 311, 388-391.	12.6	405
4	The Mad1/Mad2 Complex as a Template for Mad2 Activation in the Spindle Assembly Checkpoint. <i>Current Biology</i> , 2005, 15, 214-225.	3.9	376
5	Multipolar Spindle Pole Coalescence Is a Major Source of Kinetochore Mis-Attachment and Chromosome Mis-Segregation in Cancer Cells. <i>PLoS ONE</i> , 2009, 4, e6564.	2.5	374
6	Aurora Kinase Promotes Turnover of Kinetochore Microtubules to Reduce Chromosome Segregation Errors. <i>Current Biology</i> , 2006, 16, 1711-1718.	3.9	358
7	Merotelic kinetochore orientation occurs frequently during early mitosis in mammalian tissue cells and error correction is achieved by two different mechanisms. <i>Journal of Cell Science</i> , 2003, 116, 4213-4225.	2.0	232
8	Merotelic kinetochore attachment: causes and effects. <i>Trends in Cell Biology</i> , 2011, 21, 374-381.	7.9	215
9	Cyclophilin 20-3 relays a 12-oxo-phytyldienoic acid signal during stress responsive regulation of cellular redox homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9559-9564.	7.1	193
10	Anaphase Spindle Mechanics Prevent Mis-Segregation of Merotelically Oriented Chromosomes. <i>Current Biology</i> , 2004, 14, 2149-2155.	3.9	171
11	Histone Hyperacetylation in Mitosis Prevents Sister Chromatid Separation and Produces Chromosome Segregation Defects. <i>Molecular Biology of the Cell</i> , 2003, 14, 3821-3833.	2.1	165
12	Timing of centrosome separation is important for accurate chromosome segregation. <i>Molecular Biology of the Cell</i> , 2012, 23, 401-411.	2.1	139
13	Merotelic kinetochore orientation, aneuploidy, and cancer. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2008, 1786, 32-40.	7.4	137
14	Merotelic kinetochore orientation versus chromosome mono-orientation in the origin of lagging chromosomes in human primary cells. <i>Journal of Cell Science</i> , 2002, 115, 507-515.	2.0	134
15	Overlap microtubules link sister k-fibres and balance the forces on bi-oriented kinetochores. <i>Nature Communications</i> , 2016, 7, 10298.	12.8	127
16	Merotelic kinetochore orientation versus chromosome mono-orientation in the origin of lagging chromosomes in human primary cells. <i>Journal of Cell Science</i> , 2002, 115, 507-515.	2.0	113
17	The mitotic origin of chromosomal instability. <i>Current Biology</i> , 2014, 24, R148-R149.	3.9	110
18	Aneuploidy: a matter of bad connections. <i>Trends in Cell Biology</i> , 2005, 15, 442-451.	7.9	109

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19	Aurora A Kinase Contributes to a Pole-Based Error Correction Pathway. <i>Current Biology</i> , 2015, 25, 1842-1851.	3.9	107
20	Merotelic kinetochores in mammalian tissue cells. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2005, 360, 553-568.	4.0	104
21	Kinesin 5-independent poleward flux of kinetochore microtubules in PtK1 cells. <i>Journal of Cell Biology</i> , 2006, 173, 173-179.	5.2	104
22	Computer simulations predict that chromosome movements and rotations accelerate mitotic spindle assembly without compromising accuracy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 15708-15713.	7.1	97
23	Selective advantage of trisomic human cells cultured in non-standard conditions. <i>Scientific Reports</i> , 2016, 6, 22828.	3.3	90
24	Chromosome mis-segregation and cytokinesis failure in trisomic human cells. <i>ELife</i> , 2015, 4, .	6.0	87
25	Tetraploid cells from cytokinesis failure induce aneuploidy and spontaneous transformation of mouse ovarian surface epithelial cells. <i>Cell Cycle</i> , 2012, 11, 2864-2875.	2.6	85
26	Changes in Gene Expression and Cellular Architecture in an Ovarian Cancer Progression Model. <i>PLoS ONE</i> , 2011, 6, e17676.	2.5	81
27	The detection and evaluation of aneugenic chemicals. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1996, 353, 11-46.	1.0	74
28	Differences in malsegregation rates obtained by scoring ana-telophases or binucleate cells. <i>Mutagenesis</i> , 1999, 14, 563-568.	2.6	63
29	Detection and Correction of Merotelic Kinetochore Orientation by Aurora B and its Partners. <i>Cell Cycle</i> , 2007, 6, 1558-1564.	2.6	62
30	Targeted Integration of Adeno-Associated Virus-Derived Plasmids in Transfected Human Cells. <i>Virology</i> , 1998, 249, 249-259.	2.4	58
31	The coupling between sister kinetochore directional instability and oscillations in centromere stretch in metaphase PtK1 cells. <i>Molecular Biology of the Cell</i> , 2012, 23, 1035-1046.	2.1	58
32	Fluid shear stress impacts ovarian cancer cell viability, subcellular organization, and promotes genomic instability. <i>PLoS ONE</i> , 2018, 13, e0194170.	2.5	57
33	Cancer Karyotypes: Survival of the Fittest. <i>Frontiers in Oncology</i> , 2013, 3, 148.	2.8	55
34	Transient defects of mitotic spindle geometry and chromosome segregation errors. <i>Cell Division</i> , 2012, 7, 19.	2.4	50
35	Near-tetraploid cancer cells show chromosome instability triggered by replication stress and exhibit enhanced invasiveness. <i>FASEB Journal</i> , 2018, 32, 3502-3517.	0.5	50
36	How Mitotic Errors Contribute to Karyotypic Diversity in Cancer. <i>Advances in Cancer Research</i> , 2011, 112, 43-75.	5.0	46

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37	Dynamic bonds and polar ejection force distribution explain kinetochore oscillations in PtK1 cells. <i>Journal of Cell Biology</i> , 2013, 201, 577-593.	5.2	46
38	Development of Animal Models for Adeno-Associated Virus Site-Specific Integration. <i>Journal of Virology</i> , 1999, 73, 2517-2526.	3.4	46
39	Chromosome Bridges Maintain Kinetochore-Microtubule Attachment throughout Mitosis and Rarely Break during Anaphase. <i>PLoS ONE</i> , 2016, 11, e0147420.	2.5	45
40	Analysis of chromosome loss and non-disjunction in cytokinesis-blocked lymphocytes of 24 male subjects. <i>Mutagenesis</i> , 1999, 14, 491-496.	2.6	41
41	Chromosomes missegregated into micronuclei contribute to chromosomal instability by missegregating at the next division. <i>Oncotarget</i> , 2019, 10, 2660-2674.	1.8	36
42	Topoisomerase II inhibition in mitosis produces numerical and structural chromosomal aberrations in human fibroblasts. <i>Cytogenetic and Genome Research</i> , 1997, 76, 61-67.	1.1	34
43	Simultaneous inhibition of contractile ring and central spindle formation in mammalian cells treated with cytochalasin B. <i>Chromosoma</i> , 1998, 107, 479-485.	2.2	33
44	Link between Aneuploidy and Chromosome Instability. <i>International Review of Cell and Molecular Biology</i> , 2015, 315, 299-317.	3.2	29
45	Genomic instability: Crossing pathways at the origin of structural and numerical chromosome changes. <i>Environmental and Molecular Mutagenesis</i> , 2015, 56, 563-580.	2.2	29
46	A guide to classifying mitotic stages and mitotic defects in fixed cells. <i>Chromosoma</i> , 2018, 127, 215-227.	2.2	29
47	Aneuploidy and gene expression: is there dosage compensation?. <i>Epigenomics</i> , 2019, 11, 1827-1837.	2.1	29
48	Asymmetric clustering of centrosomes defines the early evolution of tetraploid cells. <i>ELife</i> , 2020, 9, .	6.0	27
49	Consequences of aneuploidy in sickness and in health. <i>Current Opinion in Cell Biology</i> , 2016, 40, 41-46.	5.4	26
50	Laser microsurgery reveals conserved viscoelastic behavior of the kinetochore. <i>Journal of Cell Biology</i> , 2016, 212, 767-776.	5.2	25
51	Whole-Genome Duplication Shapes the Aneuploidy Landscape of Human Cancers. <i>Cancer Research</i> , 2022, 82, 1736-1752.	0.9	25
52	Modelling chromosome dynamics in mitosis: a historical perspective on models of metaphase and anaphase in eukaryotic cells. <i>Interface Focus</i> , 2014, 4, 20130073.	3.0	23
53	Transient ALT activation protects human primary cells from chromosome instability induced by low chronic oxidative stress. <i>Scientific Reports</i> , 2017, 7, 43309.	3.3	22
54	Environmental stresses induce karyotypic instability in colorectal cancer cells. <i>Molecular Biology of the Cell</i> , 2019, 30, 42-55.	2.1	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. <i>Cytogenetic and Genome Research</i> , 1996, 72, 219-224.	1.1	15
56	Doubling the deck. <i>Cell Cycle</i> , 2012, 11, 3355-3355.	2.6	10
57	Characterization of Conventional One-Step Sodium Thiosulfate Facilitated Gold Nanoparticle Synthesis. <i>Nanoscale Research Letters</i> , 2015, 10, 940.	5.7	8
58	Single-Cell Analysis Reveals that Chronic Silver Nanoparticle Exposure Induces Cell Division Defects in Human Epithelial Cells. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 2061.	2.6	6
59	Spindle Architectural Features Must Be Considered Along With Cell Size to Explain the Timing of Mitotic Checkpoint Silencing. <i>Frontiers in Physiology</i> , 2020, 11, 596263.	2.8	6
60	MISP: The missing link between extracellular matrix and astral microtubules. <i>Cell Cycle</i> , 2013, 12, 1821-1821.	2.6	3
61	Using Photoactivatable GFP to Study Microtubule Dynamics and Chromosome Segregation. <i>Methods in Molecular Biology</i> , 2016, 1413, 15-31.	0.9	2
62	The centrosome: a multifaceted cellular weapon against chromosome instability. <i>Chromosome Research</i> , 2016, 24, 1-4.	2.2	1
63	Chromosome Segregation: The Bigger They Come, the Harder They Fall. <i>Current Biology</i> , 2018, 28, R665-R667.	3.9	1