Zuzana Storchova

List of Publications by Year
in descending order

72	10,298	126907	88630
papers	citations	33 h-index	70 g-index

90	90	90	20721
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
2	From polyploidy to aneuploidy, genome instability and cancer. Nature Reviews Molecular Cell Biology, 2004, 5, 45-54.	37.0	721
3	Tetraploidy, aneuploidy and cancer. Current Opinion in Genetics and Development, 2007, 17, 157-162.	3.3	588
4	Global analysis of genome, transcriptome and proteome reveals the response to aneuploidy in human cells. Molecular Systems Biology, 2012, 8, 608.	7.2	379
5	Genome-wide genetic analysis of polyploidy in yeast. Nature, 2006, 443, 541-547.	27.8	328
6	The consequences of tetraploidy and aneuploidy. Journal of Cell Science, 2008, 121, 3859-3866.	2.0	321
7	Kinetic Analysis of Protein Stability Reveals Age-Dependent Degradation. Cell, 2016, 167, 803-815.e21.	28.9	259
8	The presence of extra chromosomes leads to genomic instability. Nature Communications, 2016, 7, 10754.	12.8	235
9	Proteomics reveals dynamic assembly of repair complexes during bypass of DNA cross-links. Science, 2015, 348, 1253671.	12.6	183
10	Single-chromosome Gains Commonly Function as Tumor Suppressors. Cancer Cell, 2017, 31, 240-255.	16.8	164
11	The diverse consequences of aneuploidy. Nature Cell Biology, 2019, 21, 54-62.	10.3	140
12	Chromosomal instability, tolerance of mitotic errors and multidrug resistance are promoted by tetraploidization in human cells. Cell Cycle, 2015, 14, 2810-2820.	2.6	136
13	Aneuploidy renders cancer cells vulnerable to mitotic checkpoint inhibition. Nature, 2021, 590, 486-491.	27.8	135
14	Genomic Instability in Human Pluripotent Stem Cells Arises from Replicative Stress and Chromosome Condensation Defects. Cell Stem Cell, 2016, 18, 253-261.	11.1	106
15	Suv4-20h2 mediates chromatin compaction and is important for cohesin recruitment to heterochromatin. Genes and Development, 2013, 27, 859-872.	5.9	105
16	<scp>HSF</scp> 1 deficiency and impaired <scp>HSP</scp> 90â€dependent protein folding are hallmarks of aneuploid human cells. EMBO Journal, 2014, 33, 2374-2387.	7.8	101
17	Chromosomal instability accelerates the evolution of resistance to anti-cancer therapies. Developmental Cell, 2021, 56, 2427-2439.e4.	7.0	101
18	Unique features of the transcriptional response to model aneuploidy in human cells. BMC Genomics, 2014, 15, 139.	2.8	87

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19	Protein aggregation mediates stoichiometry of protein complexes in aneuploid cells. Genes and Development, 2019, 33, 1031-1047.	5.9	83
20	Defects Arising From Whole-Genome Duplications in Saccharomyces cerevisiae. Genetics, 2004, 167, 1109-1121.	2.9	79
21	Effects of aneuploidy on gene expression: implications for cancer. FEBS Journal, 2016, 283, 791-802.	4.7	75
22	Ploidy changes and genome stability in yeast. Yeast, 2014, 31, 421-430.	1.7	70
23	Micronuclei-based model system reveals functional consequences of chromothripsis in human cells. ELife, 2019, 8, .	6.0	67
24	Single-Chromosomal Gains Can Function as Metastasis Suppressors and Promoters in Colon Cancer. Developmental Cell, 2020, 52, 413-428.e6.	7.0	65
25	Abnormal mitosis triggers p53-dependent cell cycle arrest in human tetraploid cells. Chromosoma, 2013, 122, 305-318.	2.2	64
26	Sgo1 Regulates Both Condensin and Ipl1/Aurora B to Promote Chromosome Biorientation. PLoS Genetics, 2014, 10, e1004411.	3.5	64
27	Genetic instability from a single S phase after whole-genome duplication. Nature, 2022, 604, 146-151.	27.8	54
28	mitoXplorer, a visual data mining platform to systematically analyze and visualize mitochondrial expression dynamics and mutations. Nucleic Acids Research, 2020, 48, 605-632.	14.5	47
29	The chaperone-binding activity of the mitochondrial surface receptor Tom70 protects the cytosol against mitoprotein-induced stress. Cell Reports, 2021, 35, 108936.	6.4	47
30	The genomic characteristics and cellular origin of chromothripsis. Current Opinion in Cell Biology, 2016, 40, 106-113.	5.4	45
31	Dissection of the Functions of the Saccharomyces cerevisiae RAD6 Postreplicative Repair Group in Mutagenesis and UV Sensitivity. Genetics, 2001, 159, 953-963.	2.9	45
32	Bub1, Sgo1, and Mps1 mediate a distinct pathway for chromosome biorientation in budding yeast. Molecular Biology of the Cell, 2011, 22, 1473-1485.	2.1	41
33	Quantitative proteomic and phosphoproteomic comparison of human colon cancer DLD-1 cells differing in ploidy and chromosome stability. Molecular Biology of the Cell, 2018, 29, 1031-1047.	2.1	41
34	Suppressing Aneuploidy-Associated Phenotypes Improves the Fitness of Trisomy 21 Cells. Cell Reports, 2019, 29, 2473-2488.e5.	6.4	40
35	Activation of autophagy in cells with abnormal karyotype. Autophagy, 2013, 9, 246-248.	9.1	35
36	Dynamic karyotype, dynamic proteome: buffering the effects of aneuploidy. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 473-481.	4.1	32

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37	Systems approaches identify the consequences of monosomy in somatic human cells. Nature Communications, 2021, 12, 5576.	12.8	29
38	Causes and consequences of protein folding stress in aneuploid cells. Cell Cycle, 2015, 14, 495-501.	2.6	25
39	Stable aneuploid tumors cells are more sensitive to TTK inhibition than chromosomally unstable cell lines. Oncotarget, 2017, 8, 38309-38325.	1.8	25
40	Whole-Genome Duplication Shapes the Aneuploidy Landscape of Human Cancers. Cancer Research, 2022, 82, 1736-1752.	0.9	25
41	Aneuploidy and proteotoxic stress in cancer. Molecular and Cellular Oncology, 2015, 2, e976491.	0.7	24
42	Peroxiredoxins couple metabolism and cell division in an ultradian cycle. Nature Chemical Biology, 2021, 17, 477-484.	8.0	24
43	The versatile interactome of chloroplast ribosomes revealed by affinity purification mass spectrometry. Nucleic Acids Research, 2021, 49, 400-415.	14.5	23
44	Genotoxic stress in constitutive trisomies induces autophagy and the innate immune response via the cGAS-STING pathway. Communications Biology, 2021, 4, 831.	4.4	22
45	The ER protein Ema19 facilitates the degradation of nonimported mitochondrial precursor proteins. Molecular Biology of the Cell, 2021, 32, 664-674.	2.1	18
46	Altering microtubule dynamics is synergistically toxic with spindle assembly checkpoint inhibition. Life Science Alliance, 2020, 3, e201900499.	2.8	18
47	The involvement of the RAD6 gene in starvation-induced reverse mutation in Saccharomyces cerevisiae. Molecular Genetics and Genomics, 1998, 258, 546-552.	2.4	15
48	DrosophilaPsidin Regulates Olfactory Neuron Number and Axon Targeting through Two Distinct Molecular Mechanisms. Journal of Neuroscience, 2012, 32, 16080-16094.	3.6	15
49	The deregulated microRNAome contributes to the cellular response to aneuploidy. BMC Genomics, 2018, 19, 197.	2.8	13
50	Mitotic Spindle Orients Perpendicular to the Forces Imposed by Dynamic Shear. PLoS ONE, 2011, 6, e28965.	2.5	11
51	Myocardin related transcription factors are required for coordinated cell cycle progression. Cell Cycle, 2013, 12, 1762-1772.	2.6	11
52	Modelling chromosome structural and copy number changes to understand cancer genomes. Current Opinion in Genetics and Development, 2019, 54, 25-32.	3.3	11
53	Post-translational Modifications Regulate Assembly of Early Spindle Orientation Complex in Yeast. Journal of Biological Chemistry, 2012, 287, 16238-16245.	3.4	10
54	Phospho-regulation of the Shugoshin - Condensin interaction at the centromere in budding yeast. PLoS Genetics, 2020, 16, e1008569.	3.5	9

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55	Too much to handle â€" how gaining chromosomes destabilizes the genome. Cell Cycle, 2016, 15, 2867-2874.	2.6	8
56	Loss of USP28 and SPINT2 expression promotes cancer cell survival after whole genome doubling. Cellular Oncology (Dordrecht), 2022, 45, 103-119.	4.4	8
57	Starvation-associated mutagenesis in yeast Saccharomyces cerevisiae is affected by Ras2/cAMP signaling pathway. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1999, 431, 59-67.	1.0	7
58	The Causes and Consequences of Aneuploidy in Eukaryotic Cells. , 2012, , .		7
59	Cellular Prion Protein PrPC and Ecto-5â€²-Nucleotidase Are Markers of the Cellular Stress Response to Aneuploidy. Cancer Research, 2017, 77, 2914-2926.	0.9	7
60	Profiling the physiological pitfalls of antiâ€hepatitis C directâ€acting agents in budding yeast. Microbial Biotechnology, 2021, 14, 2199-2213.	4.2	7
61	Differential killing of mismatch repair-deficient and -proficient cells: towards the therapy of tumors with microsatellite instability. Cancer Research, 2003, 63, 8113-7.	0.9	7
62	Why some tits store food and others do not: evaluation of ecological factors. Journal of Ethology, 2010, 28, 207-219.	0.8	6
63	Consequences of mitotic failure â€" The penalties and the rewards. Seminars in Cell and Developmental Biology, 2021, 117, 149-158.	5.0	6
64	Evolution of aneuploidy: overcoming the original CIN. Genes and Development, 2018, 32, 1459-1460.	5.9	5
65	SUMOylation stabilizes sister kinetochore biorientation to allow timely anaphase. Journal of Cell Biology, 2021, 220, .	5.2	5
66	Consequences of Aneuploidy in Cancer: Transcriptome and Beyond. Recent Results in Cancer Research, 2015, 200, 195-224.	1.8	4
67	Too much to differentiate: aneuploidy promotes proliferation and teratoma formation in embryonic stem cells. EMBO Journal, 2016, 35, 2265-2267.	7.8	4
68	Consequences of Chromosome Loss: Why Do Cells Need Each Chromosome Twice?. Cells, 2022, 11, 1530.	4.1	4
69	Processes shaping cancer genomes â€" From mitotic defects to chromosomal rearrangements. DNA Repair, 2021, 107, 103207.	2.8	3
70	Uracilless death and papillae formation inrad6-1 polyauxotrophic strains ofSaccharomyces cerevisiae. Folia Microbiologica, 1997, 42, 557-561.	2.3	2
71	Sphingolipid Turnover Turns Over the Fate of Aneuploid Cells. Trends in Genetics, 2018, 34, 255-256.	6.7	0
72	BCL9L and caspase-2â€"new guardians against aneuploidy. Translational Cancer Research, 2017, 6, S1139-S1142.	1.0	0