

Zuzana Storchova

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

10,298
citations

126708

33
h-index

88477

70
g-index

90
all docs

90
docs citations

90
times ranked

20721
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	4.3	4,701
2	From polyploidy to aneuploidy, genome instability and cancer. <i>Nature Reviews Molecular Cell Biology</i> , 2004, 5, 45-54.	16.1	721
3	Tetraploidy, aneuploidy and cancer. <i>Current Opinion in Genetics and Development</i> , 2007, 17, 157-162.	1.5	588
4	Global analysis of genome, transcriptome and proteome reveals the response to aneuploidy in human cells. <i>Molecular Systems Biology</i> , 2012, 8, 608.	3.2	379
5	Genome-wide genetic analysis of polyploidy in yeast. <i>Nature</i> , 2006, 443, 541-547.	13.7	328
6	The consequences of tetraploidy and aneuploidy. <i>Journal of Cell Science</i> , 2008, 121, 3859-3866.	1.2	321
7	Kinetic Analysis of Protein Stability Reveals Age-Dependent Degradation. <i>Cell</i> , 2016, 167, 803-815.e21.	13.5	259
8	The presence of extra chromosomes leads to genomic instability. <i>Nature Communications</i> , 2016, 7, 10754.	5.8	235
9	Proteomics reveals dynamic assembly of repair complexes during bypass of DNA cross-links. <i>Science</i> , 2015, 348, 1253671.	6.0	183
10	Single-chromosome Gains Commonly Function as Tumor Suppressors. <i>Cancer Cell</i> , 2017, 31, 240-255.	7.7	164
11	The diverse consequences of aneuploidy. <i>Nature Cell Biology</i> , 2019, 21, 54-62.	4.6	140
12	Chromosomal instability, tolerance of mitotic errors and multidrug resistance are promoted by tetraploidization in human cells. <i>Cell Cycle</i> , 2015, 14, 2810-2820.	1.3	136
13	Aneuploidy renders cancer cells vulnerable to mitotic checkpoint inhibition. <i>Nature</i> , 2021, 590, 486-491.	13.7	135
14	Genomic Instability in Human Pluripotent Stem Cells Arises from Replicative Stress and Chromosome Condensation Defects. <i>Cell Stem Cell</i> , 2016, 18, 253-261.	5.2	106
15	Suv4-20h2 mediates chromatin compaction and is important for cohesin recruitment to heterochromatin. <i>Genes and Development</i> , 2013, 27, 859-872.	2.7	105
16	<sc>HSF</sc> 1 deficiency and impaired <sc>HSP</sc> 90-dependent protein folding are hallmarks of aneuploid human cells. <i>EMBO Journal</i> , 2014, 33, 2374-2387.	3.5	101
17	Chromosomal instability accelerates the evolution of resistance to anti-cancer therapies. <i>Developmental Cell</i> , 2021, 56, 2427-2439.e4.	3.1	101
18	Unique features of the transcriptional response to model aneuploidy in human cells. <i>BMC Genomics</i> , 2014, 15, 139.	1.2	87

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19	Protein aggregation mediates stoichiometry of protein complexes in aneuploid cells. <i>Genes and Development</i> , 2019, 33, 1031-1047.	2.7	83
20	Defects Arising From Whole-Genome Duplications in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2004, 167, 1109-1121.	1.2	79
21	Effects of aneuploidy on gene expression: implications for cancer. <i>FEBS Journal</i> , 2016, 283, 791-802.	2.2	75
22	Ploidy changes and genome stability in yeast. <i>Yeast</i> , 2014, 31, 421-430.	0.8	70
23	Micronuclei-based model system reveals functional consequences of chromothripsis in human cells. <i>ELife</i> , 2019, 8, .	2.8	67
24	Single-Chromosomal Gains Can Function as Metastasis Suppressors and Promoters in Colon Cancer. <i>Developmental Cell</i> , 2020, 52, 413-428.e6.	3.1	65
25	Abnormal mitosis triggers p53-dependent cell cycle arrest in human tetraploid cells. <i>Chromosoma</i> , 2013, 122, 305-318.	1.0	64
26	Sgo1 Regulates Both Condensin and Ipl1/Aurora B to Promote Chromosome Biorientation. <i>PLoS Genetics</i> , 2014, 10, e1004411.	1.5	64
27	Genetic instability from a single S phase after whole-genome duplication. <i>Nature</i> , 2022, 604, 146-151.	13.7	54
28	mitoXplorer, a visual data mining platform to systematically analyze and visualize mitochondrial expression dynamics and mutations. <i>Nucleic Acids Research</i> , 2020, 48, 605-632.	6.5	47
29	The chaperone-binding activity of the mitochondrial surface receptor Tom70 protects the cytosol against mitoprotein-induced stress. <i>Cell Reports</i> , 2021, 35, 108936.	2.9	47
30	The genomic characteristics and cellular origin of chromothripsis. <i>Current Opinion in Cell Biology</i> , 2016, 40, 106-113.	2.6	45
31	Dissection of the Functions of the <i>Saccharomyces cerevisiae</i> RAD6 Postreplicative Repair Group in Mutagenesis and UV Sensitivity. <i>Genetics</i> , 2001, 159, 953-963.	1.2	45
32	Bub1, Sgo1, and Mps1 mediate a distinct pathway for chromosome biorientation in budding yeast. <i>Molecular Biology of the Cell</i> , 2011, 22, 1473-1485.	0.9	41
33	Quantitative proteomic and phosphoproteomic comparison of human colon cancer DLD-1 cells differing in ploidy and chromosome stability. <i>Molecular Biology of the Cell</i> , 2018, 29, 1031-1047.	0.9	41
34	Suppressing Aneuploidy-Associated Phenotypes Improves the Fitness of Trisomy 21 Cells. <i>Cell Reports</i> , 2019, 29, 2473-2488.e5.	2.9	40
35	Activation of autophagy in cells with abnormal karyotype. <i>Autophagy</i> , 2013, 9, 246-248.	4.3	35
36	Dynamic karyotype, dynamic proteome: buffering the effects of aneuploidy. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 473-481.	1.9	32

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37	Systems approaches identify the consequences of monosomy in somatic human cells. <i>Nature Communications</i> , 2021, 12, 5576.	5.8	29
38	Causes and consequences of protein folding stress in aneuploid cells. <i>Cell Cycle</i> , 2015, 14, 495-501.	1.3	25
39	Stable aneuploid tumors cells are more sensitive to TTK inhibition than chromosomally unstable cell lines. <i>Oncotarget</i> , 2017, 8, 38309-38325.	0.8	25
40	Whole-Genome Duplication Shapes the Aneuploidy Landscape of Human Cancers. <i>Cancer Research</i> , 2022, 82, 1736-1752.	0.4	25
41	Aneuploidy and proteotoxic stress in cancer. <i>Molecular and Cellular Oncology</i> , 2015, 2, e976491.	0.3	24
42	Peroxiredoxins couple metabolism and cell division in an ultradian cycle. <i>Nature Chemical Biology</i> , 2021, 17, 477-484.	3.9	24
43	The versatile interactome of chloroplast ribosomes revealed by affinity purification mass spectrometry. <i>Nucleic Acids Research</i> , 2021, 49, 400-415.	6.5	23
44	Genotoxic stress in constitutive trisomies induces autophagy and the innate immune response via the cGAS-STING pathway. <i>Communications Biology</i> , 2021, 4, 831.	2.0	22
45	The ER protein Ema19 facilitates the degradation of nonimported mitochondrial precursor proteins. <i>Molecular Biology of the Cell</i> , 2021, 32, 664-674.	0.9	18
46	Altering microtubule dynamics is synergistically toxic with spindle assembly checkpoint inhibition. <i>Life Science Alliance</i> , 2020, 3, e201900499.	1.3	18
47	The involvement of the RAD6 gene in starvation-induced reverse mutation in <i>Saccharomyces cerevisiae</i> . <i>Molecular Genetics and Genomics</i> , 1998, 258, 546-552.	2.4	15
48	<i>Drosophila</i> Psidin Regulates Olfactory Neuron Number and Axon Targeting through Two Distinct Molecular Mechanisms. <i>Journal of Neuroscience</i> , 2012, 32, 16080-16094.	1.7	15
49	The deregulated microRNAome contributes to the cellular response to aneuploidy. <i>BMC Genomics</i> , 2018, 19, 197.	1.2	13
50	Mitotic Spindle Oriented Perpendicular to the Forces Imposed by Dynamic Shear. <i>PLoS ONE</i> , 2011, 6, e28965.	1.1	11
51	Myocardin related transcription factors are required for coordinated cell cycle progression. <i>Cell Cycle</i> , 2013, 12, 1762-1772.	1.3	11
52	Modelling chromosome structural and copy number changes to understand cancer genomes. <i>Current Opinion in Genetics and Development</i> , 2019, 54, 25-32.	1.5	11
53	Post-translational Modifications Regulate Assembly of Early Spindle Orientation Complex in Yeast. <i>Journal of Biological Chemistry</i> , 2012, 287, 16238-16245.	1.6	10
54	Phospho-regulation of the Shugoshin - Condensin interaction at the centromere in budding yeast. <i>PLoS Genetics</i> , 2020, 16, e1008569.	1.5	9

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55	Too much to handle – how gaining chromosomes destabilizes the genome. <i>Cell Cycle</i> , 2016, 15, 2867-2874.	1.3	8
56	Loss of USP28 and SPINT2 expression promotes cancer cell survival after whole genome doubling. <i>Cellular Oncology (Dordrecht)</i> , 2022, 45, 103-119.	2.1	8
57	Starvation-associated mutagenesis in yeast <i>Saccharomyces cerevisiae</i> is affected by Ras2/cAMP signaling pathway. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1999, 431, 59-67.	0.4	7
58	The Causes and Consequences of Aneuploidy in Eukaryotic Cells. , 2012, , .		7
59	Cellular Prion Protein PrPC and Ecto-5'-Nucleotidase Are Markers of the Cellular Stress Response to Aneuploidy. <i>Cancer Research</i> , 2017, 77, 2914-2926.	0.4	7
60	Profiling the physiological pitfalls of anti-hepatitis C direct-acting agents in budding yeast. <i>Microbial Biotechnology</i> , 2021, 14, 2199-2213.	2.0	7
61	Differential killing of mismatch repair-deficient and -proficient cells: towards the therapy of tumors with microsatellite instability. <i>Cancer Research</i> , 2003, 63, 8113-7.	0.4	7
62	Why some tits store food and others do not: evaluation of ecological factors. <i>Journal of Ethology</i> , 2010, 28, 207-219.	0.4	6
63	Consequences of mitotic failure – The penalties and the rewards. <i>Seminars in Cell and Developmental Biology</i> , 2021, 117, 149-158.	2.3	6
64	Evolution of aneuploidy: overcoming the original CIN. <i>Genes and Development</i> , 2018, 32, 1459-1460.	2.7	5
65	SUMOylation stabilizes sister kinetochore biorientation to allow timely anaphase. <i>Journal of Cell Biology</i> , 2021, 220, .	2.3	5
66	Consequences of Aneuploidy in Cancer: Transcriptome and Beyond. <i>Recent Results in Cancer Research</i> , 2015, 200, 195-224.	1.8	4
67	Too much to differentiate: aneuploidy promotes proliferation and teratoma formation in embryonic stem cells. <i>EMBO Journal</i> , 2016, 35, 2265-2267.	3.5	4
68	Consequences of Chromosome Loss: Why Do Cells Need Each Chromosome Twice?. <i>Cells</i> , 2022, 11, 1530.	1.8	4
69	Processes shaping cancer genomes – From mitotic defects to chromosomal rearrangements. <i>DNA Repair</i> , 2021, 107, 103207.	1.3	3
70	Uracilless death and papillae formation in rad6-1 polyauxotrophic strains of <i>Saccharomyces cerevisiae</i> . <i>Folia Microbiologica</i> , 1997, 42, 557-561.	1.1	2
71	Sphingolipid Turnover Turns Over the Fate of Aneuploid Cells. <i>Trends in Genetics</i> , 2018, 34, 255-256.	2.9	0
72	BCL9L and caspase-2 – new guardians against aneuploidy. <i>Translational Cancer Research</i> , 2017, 6, S1139-S1142.	0.4	0