

Catherine H Freudenreich

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47
papers

1,574
citations

26
h-index

39
g-index

54
ext. papers

1,920
ext. citations

8.5
avg, IF

5.27
L-index

#	Paper	IF	Citations
47	An AT-rich sequence in human common fragile site FRA16D causes fork stalling and chromosome breakage in <i>S. cerevisiae</i> . <i>Molecular Cell</i> , 2007 , 27, 367-79	17.6	133
46	Repeat instability during DNA repair: Insights from model systems. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2015 , 50, 142-67	8.7	112
45	Chromatin modifications and DNA repair: beyond double-strand breaks. <i>Frontiers in Genetics</i> , 2014 , 5, 296	4.5	89
44	Mutations in yeast replication proteins that increase CAG/CTG expansions also increase repeat fragility. <i>Molecular and Cellular Biology</i> , 2003 , 23, 7849-60	4.8	87
43	Regulation of recombination at yeast nuclear pores controls repair and triplet repeat stability. <i>Genes and Development</i> , 2015 , 29, 1006-17	12.6	82
42	SRS2 and SGS1 prevent chromosomal breaks and stabilize triplet repeats by restraining recombination. <i>Nature Structural and Molecular Biology</i> , 2009 , 16, 159-67	17.6	79
41	Overcoming natural replication barriers: differential helicase requirements. <i>Nucleic Acids Research</i> , 2012 , 40, 1091-105	20.1	64
40	<i>Saccharomyces cerevisiae</i> flap endonuclease 1 uses flap equilibration to maintain triplet repeat stability. <i>Molecular and Cellular Biology</i> , 2004 , 24, 4049-64	4.8	64
39	Expanded CAG repeats activate the DNA damage checkpoint pathway. <i>Molecular Cell</i> , 2004 , 15, 287-93	17.6	59
38	Double-strand break repair pathways protect against CAG/CTG repeat expansions, contractions and repeat-mediated chromosomal fragility in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2010 , 184, 65-77	4	52
37	Cytosine deamination and base excision repair cause R-loop-induced CAG repeat fragility and instability in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E8392-E8401	11.5	46
36	Chromosome fragility: molecular mechanisms and cellular consequences. <i>Frontiers in Bioscience - Landmark</i> , 2007 , 12, 4911-24	2.8	43
35	Structure-forming CAG/CTG repeat sequences are sensitive to breakage in the absence of Mrc1 checkpoint function and S-phase checkpoint signaling: implications for trinucleotide repeat expansion diseases. <i>Cell Cycle</i> , 2004 , 3, 1370-4	4.7	40
34	Expansions, contractions, and fragility of the spinocerebellar ataxia type 10 pentanucleotide repeat in yeast. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 2843-8	11.5	39
33	NuA4 initiates dynamic histone H4 acetylation to promote high-fidelity sister chromatid recombination at postreplication gaps. <i>Molecular Cell</i> , 2014 , 55, 818-828	17.6	37
32	Checkpoint responses to unusual structures formed by DNA repeats. <i>Molecular Carcinogenesis</i> , 2009 , 48, 309-18	5	36
31	The role of fork stalling and DNA structures in causing chromosome fragility. <i>Genes Chromosomes and Cancer</i> , 2019 , 58, 270-283	5	36

30	R-loops: targets for nuclease cleavage and repeat instability. <i>Current Genetics</i> , 2018 , 64, 789-794	2.9	34
29	Role of recombination and replication fork restart in repeat instability. <i>DNA Repair</i> , 2017 , 56, 156-165	4.3	33
28	Haploinsufficiency of yeast FEN1 causes instability of expanded CAG/CTG tracts in a length-dependent manner. <i>Gene</i> , 2007 , 393, 110-5	3.8	33
27	New functions of Ctf18-RFC in preserving genome stability outside its role in sister chromatid cohesion. <i>PLoS Genetics</i> , 2011 , 7, e1001298	6	32
26	Repeat expansions confer WRN dependence in microsatellite-unstable cancers. <i>Nature</i> , 2020 , 586, 292-298	2.4	30
25	Relocalization of DNA lesions to the nuclear pore complex. <i>FEMS Yeast Research</i> , 2016 , 16,	3.1	29
24	RTEL1 inhibits trinucleotide repeat expansions and fragility. <i>Cell Reports</i> , 2014 , 6, 827-35	10.6	29
23	Guidelines for DNA recombination and repair studies: Cellular assays of DNA repair pathways. <i>Microbial Cell</i> , 2019 , 6, 1-64	3.9	27
22	Distinct Mechanisms of Nuclease-Directed DNA-Structure-Induced Genetic Instability in Cancer Genomes. <i>Cell Reports</i> , 2018 , 22, 1200-1210	10.6	26
21	Expanded CAG/CTG repeat DNA induces a checkpoint response that impacts cell proliferation in <i>Saccharomyces cerevisiae</i> . <i>PLoS Genetics</i> , 2011 , 7, e1001339	6	25
20	Relocation of Collapsed Forks to the Nuclear Pore Complex Depends on Sumoylation of DNA Repair Proteins and Permits Rad51 Association. <i>Cell Reports</i> , 2020 , 31, 107635	10.6	24
19	The Rtt109 histone acetyltransferase facilitates error-free replication to prevent CAG/CTG repeat contractions. <i>DNA Repair</i> , 2010 , 9, 414-20	4.3	21
18	Sequence and Nuclease Requirements for Breakage and Healing of a Structure-Forming (AT) _n Sequence within Fragile Site FRA16D. <i>Cell Reports</i> , 2019 , 27, 1151-1164.e5	10.6	18
17	Differential requirement of Srs2 helicase and Rad51 displacement activities in replication of hairpin-forming CAG/CTG repeats. <i>Nucleic Acids Research</i> , 2017 , 45, 4519-4531	20.1	17
16	The nuclear pore primes recombination-dependent DNA synthesis at arrested forks by promoting SUMO removal. <i>Nature Communications</i> , 2020 , 11, 5643	17.4	15
15	The nuclear pore complex prevents sister chromatid recombination during replicative senescence. <i>Nature Communications</i> , 2020 , 11, 160	17.4	15
14	Mrc1 and Tof1 prevent fragility and instability at long CAG repeats by their fork stabilizing function. <i>Nucleic Acids Research</i> , 2019 , 47, 794-805	20.1	14
13	The Chromatin Remodeler Isw1 Prevents CAG Repeat Expansions During Transcription in. <i>Genetics</i> , 2018 , 208, 963-976	4	10

12	Structure-forming repeats and their impact on genome stability. <i>Current Opinion in Genetics and Development</i> , 2021 , 67, 41-51	4.9	10
11	Location, Location, Location: The Role of Nuclear Positioning in the Repair of Collapsed Forks and Protection of Genome Stability. <i>Genes</i> , 2020 , 11,	4.2	7
10	Methods to Study Repeat Fragility and Instability in <i>Saccharomyces cerevisiae</i> . <i>Methods in Molecular Biology</i> , 2018 , 1672, 403-419	1.4	7
9	Distinct roles for H2A copies in recombination and repeat stability, with a role for H2A.1 threonine 126. <i>ELife</i> , 2019 , 8,	8.9	7
8	Genetic Assays to Study Repeat Fragility in <i>Saccharomyces cerevisiae</i> . <i>Methods in Molecular Biology</i> , 2020 , 2056, 83-101	1.4	4
7	Homologous recombination within repetitive DNA. <i>Current Opinion in Genetics and Development</i> , 2021 , 71, 143-153	4.9	4
6	R-loops promote trinucleotide repeat deletion through DNA base excision repair enzymatic activities. <i>Journal of Biological Chemistry</i> , 2020 , 295, 13902-13913	5.4	3
5	Restarted replication forks are error-prone and cause CAG repeat expansions and contractions. <i>PLoS Genetics</i> , 2021 , 17, e1009863	6	1
4	Rad9-mediated checkpoint activation is responsible for elevated expansions of GAA repeats in CST-deficient yeast. <i>Genetics</i> , 2021 , 219,	4	1
3	Localization to the nuclear pore complex is required for stabilizing CAG repeats. <i>FASEB Journal</i> , 2015 , 29, 878.9	0.9	
2	Srs2 functions needed to replicate CAG/CTG hairpins and prevent repeat instability. <i>FASEB Journal</i> , 2012 , 26, 741.2	0.9	
1	Characterization of the role of Srs2 human orthologs in triplet repeat maintenance. <i>FASEB Journal</i> , 2013 , 27, 542.13	0.9	