Jeremy M Stark

List of Publications by Year
in descending order

63 papers	6,408 citations	101543 36 h-index	123424 61 g-index
67 all docs	67 docs citations	67 times ranked	7775 citing authors

#	Article	IF	Citations
1	53BP1 Inhibits Homologous Recombination in Brca1-Deficient Cells by Blocking Resection of DNA Breaks. Cell, 2010, 141, 243-254.	28.9	1,406
2	Alternative-NHEJ Is a Mechanistically Distinct Pathway of Mammalian Chromosome Break Repair. PLoS Genetics, 2008, 4, e1000110.	3.5	708
3	Genetic Steps of Mammalian Homologous Repair with Distinct Mutagenic Consequences. Molecular and Cellular Biology, 2004, 24, 9305-9316.	2.3	439
4	Regulation of Single-Strand Annealing and its Role in Genome Maintenance. Trends in Genetics, 2016, 32, 566-575.	6.7	344
5	RECQL5/Recql5 helicase regulates homologous recombination and suppresses tumor formation via disruption of Rad51 presynaptic filaments. Genes and Development, 2007, 21, 3073-3084.	5.9	283
6	I-SceI-Based Assays to Examine Distinct Repair Outcomes of Mammalian Chromosomal Double Strand Breaks. Methods in Molecular Biology, 2012, 920, 379-391.	0.9	271
7	Rad51 overexpression promotes alternative double-strand break repair pathways and genome instability. Oncogene, 2004, 23, 546-553.	5.9	216
8	RI-1: a chemical inhibitor of RAD51 that disrupts homologous recombination in human cells. Nucleic Acids Research, 2012, 40, 7347-7357.	14.5	154
9	Double-strand breaks and tumorigenesis. Trends in Cell Biology, 2001, 11, S52-S59.	7.9	135
10	ATP Hydrolysis by Mammalian RAD51 Has a Key Role during Homology-directed DNA Repair. Journal of Biological Chemistry, 2002, 277, 20185-20194.	3.4	124
11	DNA Damage Response Factors from Diverse Pathways, Including DNA Crosslink Repair, Mediate Alternative End Joining. PLoS Genetics, 2015, 11, e1004943.	3.5	114
12	Extensive Loss of Heterozygosity Is Suppressed during Homologous Repair of Chromosomal Breaks. Molecular and Cellular Biology, 2003, 23, 733-743.	2.3	110
13	Variant XRCC3 implicated in cancer is functional in homology-directed repair of double-strand breaks. Oncogene, 2002, 21, 4176-4180.	5.9	107
14	Heavy Metal Exposure Influences Double Strand Break DNA Repair Outcomes. PLoS ONE, 2016, 11, e0151367.	2.5	107
15	Correct End Use during End Joining of Multiple Chromosomal Double Strand Breaks Is Influenced by Repair Protein RAD50, DNA-dependent Protein Kinase DNA-PKcs, and Transcription Context. Journal of Biological Chemistry, 2011, 286, 42470-42482.	3.4	95
16	Suppression of the DNA repair defects of BRCA2-deficient cells with heterologous protein fusions. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8768-8773.	7.1	91
17	A Dual Role for UVRAG in Maintaining Chromosomal Stability Independent of Autophagy. Developmental Cell, 2012, 22, 1001-1016.	7.0	90
18	53BP1 Enforces Distinct Pre- and Post-resection Blocks on Homologous Recombination. Molecular Cell, 2020, 77, 26-38.e7.	9.7	85

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19	HP1 promotes tumor suppressor BRCA1 functions during the DNA damage response. Nucleic Acids Research, 2013, 41, 5784-5798.	14.5	83
20	The HSV-1 Exonuclease, UL12, Stimulates Recombination by a Single Strand Annealing Mechanism. PLoS Pathogens, 2012, 8, e1002862.	4.7	80
21	Physical Interaction of RECQ5 Helicase with RAD51 Facilitates Its Anti-recombinase Activity. Journal of Biological Chemistry, 2010, 285, 15739-15745.	3.4	78
22	Limiting the Persistence of a Chromosome Break Diminishes Its Mutagenic Potential. PLoS Genetics, 2009, 5, e1000683.	3.5	77
23	C-NHEJ without indels is robust and requires synergistic function of distinct XLF domains. Nature Communications, 2018, 9, 2484.	12.8	75
24	Interhomolog recombination and loss of heterozygosity in wild-type and Bloom syndrome helicase (BLM)-deficient mammalian cells. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11971-11976.	7.1	72
25	The interaction between CtIP and BRCA1 is not essential for resection-mediated DNA repair or tumor suppression. Journal of Cell Biology, 2013, 201, 693-707.	5.2	71
26	Distinct roles of RAD52 and POLQ in chromosomal break repair and replication stress response. PLoS Genetics, 2019, 15, e1008319.	3.5	60
27	TGFÎ² Induces â€œBRCAnessâ€•and Sensitivity to PARP Inhibition in Breast Cancer by Regulating DNA-Repair Genes. Molecular Cancer Research, 2014, 12, 1597-1609.	3.4	56
28	Visualization of local DNA unwinding by Mre11/Rad50/Nbs1 using single-molecule FRET. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18868-18873.	7.1	55
29	PolÎ¸ reverse transcribes RNA and promotes RNA-templated DNA repair. Science Advances, 2021, 7, .	10.3	51
30	Suberoylanilide Hydroxamic Acid as a Radiosensitizer through Modulation of RAD51 Protein and Inhibition of Homology-Directed Repair in Multiple Myeloma. Molecular Cancer Research, 2012, 10, 1052-1064.	3.4	47
31	Protein phosphatase PP6 is required for homology-directed repair of DNA double-strand breaks. Cell Cycle, 2011, 10, 1411-1419.	2.6	45
32	Ring Finger Nuclear Factor RNF168 Is Important for Defects in Homologous Recombination Caused by Loss of the Breast Cancer Susceptibility Factor BRCA1. Journal of Biological Chemistry, 2012, 287, 40618-40628.	3.4	44
33	Multiple Regions of Yeast Ribosomal Protein L1 Are Important for Its Interaction with 5 S rRNA and Assembly into Ribosomes. Journal of Biological Chemistry, 1995, 270, 30148-30156.	3.4	43
34	ATM Limits Incorrect End Utilization during Non-Homologous End Joining of Multiple Chromosome Breaks. PLoS Genetics, 2010, 6, e1001194.	3.5	43
35	Chronic myelogenous leukemia stem and progenitor cells demonstrate chromosomal instability related to repeated breakage-fusion-bridge cycles mediated by increased nonhomologous end joining. Blood, 2012, 119, 6187-6197.	1.4	42
36	The relative efficiency of homology-directed repair has distinct effects on proper anaphase chromosome separation. Nucleic Acids Research, 2011, 39, 5935-5944.	14.5	41

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37	Repeat-mediated deletions can be induced by a chromosomal break far from a repeat, but multiple pathways suppress such rearrangements. Genes and Development, 2018, 32, 524-536.	5.9	35
38	Subtelomeric regions in mammalian cells are deficient in DNA double-strand break repair. DNA Repair, 2011, 10, 536-544.	2.8	34
39	m ⁶ A deposition is regulated by PRMT1â€mediated arginine methylation of METTL14 in its disordered Câ€terminal region. EMBO Journal, 2021, 40, e106309.	7.8	30
40	An RNF168 fragment defective for focal accumulation at DNA damage is proficient for inhibition of homologous recombination in BRCA1 deficient cells. Nucleic Acids Research, 2014, 42, 7720-7733.	14.5	28
41	Contribution of canonical nonhomologous end joining to chromosomal rearrangements is enhanced by ATM kinase deficiency. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 728-733.	7.1	28
42	The Anticancer Activity of a First-in-class Small-molecule Targeting PCNA. Clinical Cancer Research, 2018, 24, 6053-6065.	7.0	27
43	Tetratricopeptide repeat factor XAB2 mediates the end resection step of homologous recombination. Nucleic Acids Research, 2016, 44, 5702-5716.	14.5	26
44	RNF4 regulates DNA double-strand break repair in a cell cycle-dependent manner. Cell Cycle, 2016, 15, 787-798.	2.6	23
45	A PCNA-Derived Cell Permeable Peptide Selectively Inhibits Neuroblastoma Cell Growth. PLoS ONE, 2014, 9, e94773.	2.5	22
46	XLF acts as a flexible connector during non-homologous end joining. ELife, 2020, 9, .	6.0	22
47	Mammalian Fbh1 is important to restore normal mitotic progression following decatenation stress. DNA Repair, 2010, 9, 708-717.	2.8	18
48	BLM has Contrary Effects on Repeat-Mediated Deletions, based on the Distance of DNA DSBs to a Repeat and Repeat Divergence. Cell Reports, 2020, 30, 1342-1357.e4.	6.4	17
49	EXO1 is critical for embryogenesis and the DNA damage response in mice with a hypomorphicNbs1allele. Nucleic Acids Research, 2015, 43, 7371-7387.	14.5	16
50	Electrophilic fatty acids impair RAD51 function and potentiate the effects of DNA-damaging agents on growth of triple-negative breast cells. Journal of Biological Chemistry, 2019, 294, 397-404.	3.4	16
51	Trex2 Enables Spontaneous Sister Chromatid Exchanges Without Facilitating DNA Double-Strand Break Repair. Genetics, 2011, 188, 787-797.	2.9	15
52	RNF8 has both KU-dependent and independent roles in chromosomal break repair. Nucleic Acids Research, 2020, 48, 6032-6052.	14.5	15
53	PRPF8 is important for BRCA1-mediated homologous recombination. Oncotarget, 2017, 8, 93319-93337.	1.8	15
54	The RAD52 S346X variant reduces risk of developing breast cancer in carriers of pathogenic germline BRCA2 mutations. Molecular Oncology, 2020, 14, 1124-1133.	4.6	13

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55	The Relative Strengths of SR Protein-mediated Associations of Alternative and Constitutive Exons Can Influence Alternative Splicing. Journal of Biological Chemistry, 1999, 274, 29838-29842.	3.4	12
56	The canonical non-homologous end joining factor XLF promotes chromosomal deletion rearrangements in human cells. Journal of Biological Chemistry, 2020, 295, 125-137.	3.4	12
57	USP22 Interacts with PALB2 and Promotes Chemotherapy Resistance via Homologous Recombination of DNA Double-Strand Breaks. Molecular Cancer Research, 2020, 18, 424-435.	3.4	12
58	The importance of DNAPKcs for blunt DNA end joining is magnified when XLF is weakened. Nature Communications, 2022, 13, .	12.8	9
59	Functional deficiency of DNA repair gene EXO5 results in androgen-induced genomic instability and prostate tumorigenesis. Oncogene, 2020, 39, 1246-1259.	5.9	8
60	Myelodysplasia-associated mutations in serine/arginine-rich splicing factor SRSF2 lead to alternative splicing of CDC25C. BMC Molecular Biology, 2016, 17, 18.	3.0	7
61	Microarray screening reveals two non-conventional SUMO-binding modules linked to DNA repair by non-homologous end-joining. Nucleic Acids Research, 2022, 50, 4732-4754.	14.5	4
62	Examining the roles of DNA2 during mammalian end resection. Cell Cycle, 2012, 11, 4111-4111.	2.6	0
63	R-Loop Associated Mitotic Stress Confers Vulnerabilities in Splicing Factor Mutant Leukemia. Blood, 2021, 138, 3713-3713.	1.4	0