Lorraine S Symington

List of Publications by Year
in descending order

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90 papers	11,284 citations	53751 45 h-index	45285 90 g-index
114 all docs	114 docs citations	114 times ranked	7521 citing authors

#	Article	IF	Citations
1	Mechanism for inverted-repeat recombination induced by a replication fork barrier. Nature Communications, 2022, 13, 32.	5.8	21
2	The Rad51 paralog complex Rad55-Rad57 acts as a molecular chaperone during homologous recombination. Molecular Cell, 2021, 81, 1043-1057.e8.	4.5	45
3	Phosphoproteomics reveals a distinctive Mec1/ATR signaling response upon DNA end hyperâ€resection. EMBO Journal, 2021, 40, e104566.	3.5	17
4	The dark side of homology-directed repair. DNA Repair, 2021, 106, 103181.	1.3	16
5	DNA end resection during homologous recombination. Current Opinion in Genetics and Development, 2021, 71, 99-105.	1.5	19
6	Intrachromosomal Recombination in Yeast. Methods in Molecular Biology, 2021, 2153, 193-200.	0.4	0
7	DNA End Resection: Mechanism and Control. Annual Review of Genetics, 2021, 55, 285-307.	3.2	105
8	Interstitial telomere sequences disrupt break-induced replication and drive formation of ectopic telomeres. Nucleic Acids Research, 2020, 48, 12697-12710.	6.5	12
9	Efficient DNA double-strand break formation at single or multiple defined sites in theSaccharomyces cerevisiaegenome. Nucleic Acids Research, 2020, 48, e115-e115.	6.5	12
10	Recognition for Discoveries in DNA Repair. New England Journal of Medicine, 2019, 381, 677-679.	13.9	1
11	Defining the influence of Rad51 and Dmc1 lineage-specific amino acids on genetic recombination. Genes and Development, 2019, 33, 1191-1207.	2.7	38
12	CDK and Mec1/Tel1-catalyzed phosphorylation of Sae2 regulate different responses to DNA damage. Nucleic Acids Research, 2019, 47, 11238-11249.	6.5	16
13	DNA Polymerase Delta Synthesizes Both Strands during Break-Induced Replication. Molecular Cell, 2019, 76, 371-381.e4.	4.5	65
14	Guidelines for DNA recombination and repair studies: Cellular assays of DNA repair pathways. Microbial Cell, 2019, 6, 1-64.	1.4	47
15	Xrs2 and Tel1 Independently Contribute to MR-Mediated DNA Tethering and Replisome Stability. Cell Reports, 2018, 25, 1681-1692.e4.	2.9	19
16	Role of the Mre11 Complex in Preserving Genome Integrity. Genes, 2018, 9, 589.	1.0	73
17	Sae2 antagonizes Rad9 accumulation at DNA double-strand breaks to attenuate checkpoint signaling and facilitate end resection. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E11961-E11969.	3.3	37
18	Processing of DNA Double-Strand Breaks in Yeast. Methods in Enzymology, 2018, 600, 1-24.	0.4	10

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19	Keeping it real: MRXâ€"Sae2 clipping of natural substrates. Genes and Development, 2017, 31, 2311-2312.	2.7	7
20	RPA Stabilization of Single-Stranded DNA Is Critical for Break-Induced Replication. Cell Reports, 2016, 17, 3359-3368.	2.9	52
21	Stressing Out About RAD52. Molecular Cell, 2016, 64, 1017-1019.	4.5	16
22	A unified molecular mechanism for the regulation of acetyl-CoA carboxylase by phosphorylation. Cell Discovery, 2016, 2, 16044.	3.1	29
23	Mechanism and regulation of DNA end resection in eukaryotes. Critical Reviews in Biochemistry and Molecular Biology, 2016, 51, 195-212.	2.3	335
24	Xrs2 Dependent and Independent Functions of the Mre11-Rad50 Complex. Molecular Cell, 2016, 64, 405-415.	4.5	66
25	Replication protein A prevents promiscuous annealing between short sequence homologies: Implications for genome integrity. BioEssays, 2015, 37, 305-313.	1.2	33
26	Sae2 promotes DNA damage resistance by removing the Mre11â€"Rad50â€"Xrs2 complex from DNA and attenuating Rad53 signaling. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1880-7.	3.3	44
27	Microhomology-Mediated End Joining: A Back-up Survival Mechanism or Dedicated Pathway?. Trends in Biochemical Sciences, 2015, 40, 701-714.	3.7	452
28	Mre11-Sae2 and RPA Collaborate to Prevent Palindromic Gene Amplification. Molecular Cell, 2015, 60, 500-508.	4.5	59
29	Template Switching During Break-Induced Replication Is Promoted by the Mph1 Helicase in <i>Saccharomyces cerevisiae</i>. Genetics, 2014, 196, 1017-1028.	1.2	56
30	The Cdk/Cdc14 Module Controls Activation of the Yen1 Holliday Junction Resolvase to Promote Genome Stability. Molecular Cell, 2014, 54, 80-93.	4.5	91
31	RPA antagonizes microhomology-mediated repair of DNA double-strand breaks. Nature Structural and Molecular Biology, 2014, 21, 405-412.	3.6	162
32	Mechanisms and Regulation of Mitotic Recombination in <i>Saccharomyces cerevisiae</i>. Genetics, 2014, 198, 795-835.	1.2	313
33	Sgs1 and Exo1 suppress targeted chromosome duplication during ends-in and ends-out gene targeting. DNA Repair, 2014, 22, 12-23.	1.3	9
34	End Resection at Double-Strand Breaks: Mechanism and Regulation. Cold Spring Harbor Perspectives in Biology, 2014, 6, a016436-a016436.	2.3	219
35	Making the cut. Nature, 2014, 514, 39-40.	13.7	15
36	DNA Repair Mechanisms and Their Biological Roles in the Malaria Parasite Plasmodium falciparum. Microbiology and Molecular Biology Reviews, 2014, 78, 469-486.	2.9	88

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37	Resection Activity of the Sgs1 Helicase Alters the Affinity of DNA Ends for Homologous Recombination Proteins in<i>Saccharomyces cerevisiae</i>. Genetics, 2013, 195, 1241-1251.	1.2	13
38	Mph1 and Mus81-Mms4 Prevent Aberrant Processing of Mitotic Recombination Intermediates. Molecular Cell, 2013, 52, 63-74.	4.5	52
39	RPA Coordinates DNA End Resection and Prevents Formation of DNA Hairpins. Molecular Cell, 2013, 50, 589-600.	4.5	225
40	Overcoming the chromatin barrier to end resection. Cell Research, 2013, 23, 317-319.	5.7	21
41	Break-induced replication occurs by conservative DNA synthesis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13475-13480.	3.3	156
42	The Rad1-Rad10 nuclease promotes chromosome translocations between dispersed repeats. Nature Structural and Molecular Biology, 2012, 19, 964-971.	3.6	40
43	Sgs1â€"The Maestro of Recombination. Cell, 2012, 149, 257-259.	13.5	11
44	Mechanism and regulation of DNA end processing. FASEB Journal, 2012, 26, 102.1.	0.2	0
45	DNA end resectionâ€"Unraveling the tail. DNA Repair, 2011, 10, 344-348.	1.3	164
46	RAD51-independent inverted-repeat recombination by a strand-annealing mechanism. DNA Repair, 2011, 10, 408-415.	1.3	33
47	Double-Strand Break End Resection and Repair Pathway Choice. Annual Review of Genetics, 2011, 45, 247-271.	3.2	1,264
48	Ku prevents Exo1 and Sgs1-dependent resection of DNA ends in the absence of a functional MRX complex or Sae2. EMBO Journal, 2010, 29, 3358-3369.	3.5	262
49	Initiation and completion of spontaneous mitotic recombination occur in different cell cycle phases. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8045-8046.	3.3	2
50	Extensive DNA End Processing by Exo1 and Sgs1 Inhibits Break-Induced Replication. PLoS Genetics, 2010, 6, e1001007.	1.5	34
51	Mus81 and Yen1 Promote Reciprocal Exchange during Mitotic Recombination to Maintain Genome Integrity in Budding Yeast. Molecular Cell, 2010, 40, 988-1000.	4.5	150
52	Identification of Nucleases and Phosphatases by Direct Biochemical Screen of the Saccharomyces cerevisiae Proteome. PLoS ONE, 2009, 4, e6993.	1.1	5
53	Suppression of the Double-Strand-Break-Repair Defect of the <i>Saccharomyces cerevisiae rad57</i> Mutant. Genetics, 2009, 181, 1195-1206.	1.2	37
54	Aberrant Double-Strand Break Repair Resulting in Half Crossovers in Mutants Defective for Rad51 or the DNA Polymerase Î´ Complex. Molecular and Cellular Biology, 2009, 29, 1432-1441.	1.1	82

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55	Nucleases and helicases take center stage in homologous recombination. Trends in Biochemical Sciences, 2009, 34, 264-272.	3.7	189
56	DNA end resection: Many nucleases make light work. DNA Repair, 2009, 8, 983-995.	1.3	356
57	Breaking Up Just Got Easier to Do. Cell, 2009, 138, 20-22.	13.5	21
58	Sae2, Exo1 and Sgs1 collaborate in DNA double-strand break processing. Nature, 2008, 455, 770-774.	13.7	876
59	Unique and overlapping functions of the Exo1, Mre11 and Pso2 nucleases in DNA repair. DNA Repair, 2008, 7, 655-662.	1.3	18
60	Resolving Resolvases: The Final Act?. Molecular Cell, 2008, 32, 603-604.	4.5	9
61	Rad51 gain-of-function mutants that exhibit high affinity DNA binding cause DNA damage sensitivity in the absence of Srs2. Nucleic Acids Research, 2008, 36, 6504-6510.	6.5	13
62	Role of the <i>Saccharomyces cerevisiae</i> Rad51 Paralogs in Sister Chromatid Recombination. Genetics, 2008, 178, 113-126.	1.2	63
63	Break-induced replication: What is it and what is it for?. Cell Cycle, 2008, 7, 859-864.	1.3	258
64	Template switching during break-induced replication. Nature, 2007, 447, 102-105.	13.7	300
65	The rad51-K191R ATPase-Defective Mutant Is Impaired forPresynaptic Filament Formation. Molecular and Cellular Biology, 2006, 26, 9544-9554.	1.1	40
66	Some disassembly required: role of DNA translocases in the disruption of recombination intermediates and dead-end complexes. Genes and Development, 2006, 20, 2479-2486.	2.7	54
67	Opposing roles for DNA structure-specific proteins Rad1, Msh2, Msh3, and Sgs1 in yeast gene targeting. EMBO Journal, 2005, 24, 2214-2223.	3.5	35
68	Mutations in Mre11 Phosphoesterase Motif I That Impair Saccharomyces cerevisiae Mre11-Rad50-Xrs2 Complex Stability in Addition to Nuclease Activity. Genetics, 2005, 171, 1561-1570.	1.2	76
69	RAD51 -Dependent Break-Induced Replication in Yeast. Molecular and Cellular Biology, 2004, 24, 2344-2351.	1.1	172
70	Gene targeting in yeast is initiated by two independent strand invasions. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 15392-15397.	3.3	42
71	The Mre11 Nuclease Is Not Required for 5â€² to 3â€² Resection at Multiple HO-Induced Double-Strand Breaks. Molecular and Cellular Biology, 2004, 24, 9682-9694.	1.1	143
72	MOLECULAR BIOLOGY: New Year's Resolution--Resolving Resolvases. Science, 2004, 303, 184-185.	6.0	12

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73	Crystal structure of a Rad51 filament. Nature Structural and Molecular Biology, 2004, 11, 791-796.	3.6	265
74	EXO1-A multi-tasking eukaryotic nuclease. DNA Repair, 2004, 3, 1549-1559.	1.3	176
75	Recombination Proteins in Yeast. Annual Review of Genetics, 2004, 38, 233-271.	3.2	704
76	The Rad52â€“Rad59 complex interacts with Rad51 and replication protein A. DNA Repair, 2003, 2, 1127-1134.	1.3	45
77	Role of RAD52 Epistasis Group Genes in Homologous Recombination and Double-Strand Break Repair. Microbiology and Molecular Biology Reviews, 2002, 66, 630-670.	2.9	888
78	The Requirement for ATP Hydrolysis by Saccharomyces cerevisiae Rad51 Is Bypassed by Mating-Type Heterozygosity or RAD54 in High Copy. Molecular and Cellular Biology, 2002, 22, 6336-6343.	1.1	60
79	Mutations in yeast Rad51 that partially bypass the requirement for Rad55 and Rad57 in DNA repair by increasing the stability of Rad51-DNA complexes. EMBO Journal, 2002, 21, 3160-3170.	3.5	104
80	The Yeast Recombinational Repair Protein Rad59 Interacts With Rad52 and Stimulates Single-Strand Annealing. Genetics, 2001, 159, 515-525.	1.2	126
81	Overlapping Functions of the <i>Saccharomyces cerevisiae</i> Mre11, Exo1 and Rad27 Nucleases in DNA Metabolism. Genetics, 2001, 159, 1423-1433.	1.2	151
82	Aberrant Double-Strand Break Repair in rad51 Mutants of Saccharomyces cerevisiae. Molecular and Cellular Biology, 2000, 20, 9162-9172.	1.1	57
83	RAD51 Is Required for the Repair of Plasmid Double-Stranded DNA Gaps from Either Plasmid or Chromosomal Templates. Molecular and Cellular Biology, 2000, 20, 1194-1205.	1.1	96
84	Decreased Meiotic Intergenic Recombination and Increased Meiosis I Nondisjunction in exo1 Mutants of Saccharomyces cerevisiae. Genetics, 2000, 156, 1549-1557.	1.2	71
85	The Nuclease Activity of Mre11 Is Required for Meiosis but Not for Mating Type Switching, End Joining, or Telomere Maintenance. Molecular and Cellular Biology, 1999, 19, 556-566.	1.1	410
86	A Novel Allele of RAD52 That Causes Severe DNA Repair and Recombination Deficiencies Only in the Absence of RAD51 or RAD59. Genetics, 1999, 153, 1117-1130.	1.2	60
87	Crossed-Stranded DNA Structures for investigating the Molecular Dynamics of the Holliday Junction. Journal of Molecular Biology, 1993, 229, 812-820.	2.0	30
88	Meiotic recombination within the centromere of a yeast chromosome. Cell, 1988, 52, 237-240.	13.5	29
89	Intramolecular recombination of linear DNA catalyzed by the Escherichia coli RecE recombination system. Journal of Molecular Biology, 1985, 186, 515-525.	2.0	89
90	Genetic recombination of homologous plasmids catalyzed by cell-free extracts of saccharomyces cerevisiae. Cell, 1983, 35, 805-813.	13.5	73