

Weixing Zhao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/357186/publications.pdf>

Version: 2024-02-01

38
papers

2,232
citations

304743

22
h-index

315739

38
g-index

39
all docs

39
docs citations

39
times ranked

3060
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism of the ATP-dependent DNA end-resection machinery from <i>Saccharomyces cerevisiae</i> . <i>Nature</i> , 2010, 467, 108-111.	27.8	349
2	BRCA1 and BARD1 promotes RAD51-mediated homologous DNA pairing. <i>Nature</i> , 2017, 550, 360-365.	27.8	262
3	Base triplet stepping by the Rad51/RecA family of recombinases. <i>Science</i> , 2015, 349, 977-981.	12.6	145
4	Promotion of BRCA2-Dependent Homologous Recombination by DSS1 via RPA Targeting and DNA Mimicry. <i>Molecular Cell</i> , 2015, 59, 176-187.	9.7	141
5	MreB is important for cell shape but not for chromosome segregation of the filamentous cyanobacterium <i>Anabaena</i> sp. PCC 7120. <i>Molecular Microbiology</i> , 2007, 63, 1640-1652.	2.5	122
6	Cryo-EM structures of human RAD51 recombinase filaments during catalysis of DNA-strand exchange. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 40-46.	8.2	109
7	The BRCA Tumor Suppressor Network in Chromosome Damage Repair by Homologous Recombination. <i>Annual Review of Biochemistry</i> , 2019, 88, 221-245.	11.1	104
8	Breast Cancer Proteins PALB2 and BRCA2 Stimulate Polymerase γ in Recombination-Associated DNA Synthesis at Blocked Replication Forks. <i>Cell Reports</i> , 2014, 6, 553-564.	6.4	72
9	CcbP, a calcium-binding protein from <i>Anabaena</i> sp. PCC 7120, provides evidence that calcium ions regulate heterocyst differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 5744-5748.	7.1	69
10	RAD52 is required for RNA-templated recombination repair in post-mitotic neurons. <i>Journal of Biological Chemistry</i> , 2018, 293, 1353-1362.	3.4	69
11	Functional Role of BLAP75 in BLM-Topoisomerase III α -dependent Holliday Junction Processing. <i>Journal of Biological Chemistry</i> , 2008, 283, 15701-15708.	3.4	67
12	BRCA1/BARD1 site-specific ubiquitylation of nucleosomal H2A is directed by BARD1. <i>Nature Structural and Molecular Biology</i> , 2021, 28, 268-277.	8.2	58
13	RbrA, a cyanobacterial rubrerythrin, functions as a FNR-dependent peroxidase in heterocysts in protection of nitrogenase from damage by hydrogen peroxide in <i>Anabaena</i> sp. PCC 7120. <i>Molecular Microbiology</i> , 2007, 66, 1219-1230.	2.5	53
14	Mechanistic insights into the role of Hop2-Mnd1 in meiotic homologous DNA pairing. <i>Nucleic Acids Research</i> , 2014, 42, 906-917.	14.5	52
15	Regulation of intracellular free calcium concentration during heterocyst differentiation by HetR and NtcA in <i>Anabaena</i> sp. PCC 7120. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 11334-11339.	7.1	51
16	NUCKS1 is a novel RAD51AP1 paralog important for homologous recombination and genome stability. <i>Nucleic Acids Research</i> , 2015, 43, gkv859.	14.5	51
17	Significance of ligand interactions involving Hop2-Mnd1 and the RAD51 and DMC1 recombinases in homologous DNA repair and XX ovarian dysgenesis. <i>Nucleic Acids Research</i> , 2015, 43, 4055-4066.	14.5	50
18	Non-catalytic Roles for XPG with BRCA1 and BRCA2 in Homologous Recombination and Genome Stability. <i>Molecular Cell</i> , 2016, 61, 535-546.	9.7	42

#	ARTICLE	IF	CITATIONS
19	A Membrane-Associated Mn-Superoxide Dismutase Protects the Photosynthetic Apparatus and Nitrogenase from Oxidative Damage in the Cyanobacterium <i>Anabaena</i> sp. PCC 7120. <i>Plant and Cell Physiology</i> , 2007, 48, 563-572.	3.1	40
20	Mechanistic Insights into RAD51-associated Protein 1 (RAD51AP1) Action in Homologous DNA Repair. <i>Journal of Biological Chemistry</i> , 2012, 287, 12343-12347.	3.4	40
21	Defining the influence of Rad51 and Dmc1 lineage-specific amino acids on genetic recombination. <i>Genes and Development</i> , 2019, 33, 1191-1207.	5.9	38
22	Pil Is Important in Regulation of Nitrogen Metabolism but Not Required for Heterocyst Formation in the Cyanobacterium <i>Anabaena</i> sp. PCC 7120. <i>Journal of Biological Chemistry</i> , 2007, 282, 33641-33648.	3.4	30
23	NUCKS1 promotes RAD54 activity in homologous recombination DNA repair. <i>Journal of Cell Biology</i> , 2020, 219, .	5.2	27
24	Visualizing the Disassembly of <i>S. cerevisiae</i> Rad51 Nucleoprotein Filaments. <i>Journal of Molecular Biology</i> , 2009, 388, 703-720.	4.2	24
25	Tumor Intrinsic PD-L1 Promotes DNA Repair in Distinct Cancers and Suppresses PARP Inhibitor-Induced Synthetic Lethality. <i>Cancer Research</i> , 2022, 82, 2156-2170.	0.9	23
26	MiR223-3p promotes synthetic lethality in BRCA1-deficient cancers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 17438-17443.	7.1	22
27	RAD51-associated Protein 1 (RAD51AP1) Interacts with the Meiotic Recombinase DMC1 through a Conserved Motif. <i>Journal of Biological Chemistry</i> , 2011, 286, 37328-37334.	3.4	19
28	Tolerance of DNA Mismatches in Dmc1 Recombinase-mediated DNA Strand Exchange. <i>Journal of Biological Chemistry</i> , 2016, 291, 4928-4938.	3.4	15
29	Single-molecule visualization of human RECQ5 interactions with single-stranded DNA recombination intermediates. <i>Nucleic Acids Research</i> , 2021, 49, 285-305.	14.5	15
30	ATR/ATM-Mediated Phosphorylation of BRCA1 T1394 Promotes Homologous Recombinational Repair and G2/M Checkpoint Maintenance. <i>Cancer Research</i> , 2021, 81, 4676-4684.	0.9	14
31	BRCA1/BARD1 is a nucleosome reader and writer. <i>Trends in Biochemical Sciences</i> , 2022, 47, 582-595.	7.5	14
32	Solution Structure and DNA-binding Properties of the Winged Helix Domain of the Meiotic Recombination HOP2 Protein. <i>Journal of Biological Chemistry</i> , 2014, 289, 14682-14691.	3.4	13
33	The DNA-binding activity of USP1-associated factor 1 is required for efficient RAD51-mediated homologous DNA pairing and homology-directed DNA repair. <i>Journal of Biological Chemistry</i> , 2020, 295, 8186-8194.	3.4	10
34	Importance of homo-dimerization of Fanconi-associated nuclease 1 in DNA flap cleavage. <i>DNA Repair</i> , 2018, 64, 53-58.	2.8	6
35	RAD51AP1 mediates RAD51 activity through nucleosome interaction. <i>Journal of Biological Chemistry</i> , 2021, 297, 100844.	3.4	6
36	Biochemical Studies on Human Rad51-Mediated Homologous Recombination. <i>Methods in Molecular Biology</i> , 2011, 745, 421-435.	0.9	6

#	ARTICLE	IF	CITATIONS
37	In Vitro Reconstitution of BRCA1-BARD1/RAD51-Mediated Homologous DNA Pairing. <i>Methods in Molecular Biology</i> , 2022, 2444, 207-225.	0.9	2
38	Sample pretreatment microfluidic chip for DNA extraction from rat peripheral blood. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2007, 2, 74-78.	0.4	1