Yanbin Zhang

List of Publications by Year
in descending order

56 papers	3,418 citations	159585 30 h-index	161849 54 g-index
56 all docs	56 docs citations	56 times ranked	3194 citing authors

#	Article	IF	Citations
1	Reconstitution of 5â€²-Directed Human Mismatch Repair in a Purified System. Cell, 2005, 122, 693-705.	28.9	316
2	Error-free and error-prone lesion bypass by human DNA polymerase kappa in vitro. Nucleic Acids Research, 2000, 28, 4138-4146.	14.5	258
3	Preferential Incorporation of G Opposite Template T by the Low-Fidelity Human DNA Polymerase Î¹. Molecular and Cellular Biology, 2000, 20, 7099-7108.	2.3	195
4	trans-Lesion Synthesis Past Bulky Benzo[a]pyrene Diol Epoxide N2-dG and N6-dA Lesions Catalyzed by DNA Bypass Polymerases. Journal of Biological Chemistry, 2002, 277, 30488-30494.	3.4	180
5	The human REV1 gene codes for a DNA template-dependent dCMP transferase. Nucleic Acids Research, 1999, 27, 4468-4475.	14.5	170
6	Error-prone lesion bypass by human DNA polymerase eta. Nucleic Acids Research, 2000, 28, 4717-4724.	14.5	166
7	Specificity of DNA Lesion Bypass by the Yeast DNA Polymerase Î·. Journal of Biological Chemistry, 2000, 275, 8233-8239.	3.4	146
8	Response of human DNA polymerase iota to DNA lesions. Nucleic Acids Research, 2001, 29, 928-935.	14.5	125
9	Response of human REV1 to different DNA damage: preferential dCMP insertion opposite the lesion. Nucleic Acids Research, 2002, 30, 1630-1638.	14.5	122
10	MLH1 Deficiency-Triggered DNA Hyperexcision by Exonuclease 1 Activates the cGAS-STING Pathway. Cancer Cell, 2021, 39, 109-121.e5.	16.8	108
11	Identification and characterization of OGG1 mutations in patients with Alzheimer's disease. Nucleic Acids Research, 2007, 35, 2759-2766.	14.5	105
12	Activities of human DNA polymerase Îº in response to the major benzo[a]pyrene DNA adduct: error-free lesion bypass and extension synthesis from opposite the lesion. DNA Repair, 2002, 1, 559-569.	2.8	104
13	Human DNA polymerase kappa synthesizes DNA with extraordinarily low fidelity. Nucleic Acids Research, 2000, 28, 4147-4156.	14.5	98
14	Highly Frequent Frameshift DNA Synthesis by Human DNA Polymerase Î¼. Molecular and Cellular Biology, 2001, 21, 7995-8006.	2.3	83
15	Effects of Base Sequence Context on Translesion Synthesis Past a Bulky (+)-trans-anti-B[a]P-N2-dG Lesion Catalyzed by the Y-family Polymerase pol Îº. Biochemistry, 2003, 42, 2456-2466.	2.5	77
16	Two-step error-prone bypass of the (+)- and (âˆ')-trans-anti-BPDE-N2-dG adducts by human DNA polymerases Î· and Îº. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2002, 510, 23-35.	1.0	69
17	The human RAD18 gene product interacts with HHR6A and HHR6B. Nucleic Acids Research, 2000, 28, 2847-2854.	14.5	68
18	Roles of Rad23 protein in yeast nucleotide excision repair. Nucleic Acids Research, 2004, 32, 5981-5990.	14.5	68

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19	FANCA Promotes DNA Double-Strand Break Repair by Catalyzing Single-Strand Annealing and Strand Exchange. Molecular Cell, 2018, 71, 621-628.e4.	9.7	65
20	Lesion Bypass Activities of Human DNA Polymerase Î¼. Journal of Biological Chemistry, 2002, 277, 44582-44587.	3.4	62
21	ATRâ€"ATRIP Kinase Complex Triggers Activation of the Fanconi Anemia DNA Repair Pathway. Cancer Research, 2012, 72, 1149-1156.	0.9	62
22	Dipeptide repeat proteins inhibit homology-directed DNA double strand break repair in C9ORF72 ALS/FTD. Molecular Neurodegeneration, 2020, 15, 13.	10.8	58
23	SLX4 contributes to telomere preservation and regulated processing of telomeric joint molecule intermediates. Nucleic Acids Research, 2015, 43, 5912-5923.	14.5	55
24	FANCI Protein Binds to DNA and Interacts with FANCD2 to Recognize Branched Structures. Journal of Biological Chemistry, 2009, 284, 24443-24452.	3.4	54
25	Differential Requirement for Proliferating Cell Nuclear Antigen in 5â€² and 3â€² Nick-directed Excision in Human Mismatch Repair. Journal of Biological Chemistry, 2004, 279, 16912-16917.	3.4	47
26	Maintenance of genome stability by Fanconi anemia proteins. Cell and Bioscience, 2017, 7, 8.	4.8	46
27	Histone Deacetylase 10 Regulates DNA Mismatch Repair and May Involve the Deacetylation of MutS Homolog 2. Journal of Biological Chemistry, 2015, 290, 22795-22804.	3.4	43
28	The catalytic function of the Rev1 dCMP transferase is required in a lesion-specific manner for translesion synthesis and base damage-induced mutagenesis. Nucleic Acids Research, 2010, 38, 5036-5046.	14.5	36
29	Fanconi anemia pathway as a prospective target for cancer intervention. Cell and Bioscience, 2020, 10, 39.	4.8	35
30	Regulation of Replication Protein A Functions in DNA Mismatch Repair by Phosphorylation. Journal of Biological Chemistry, 2006, 281, 21607-21616.	3.4	34
31	Combined Genetic and Nutritional Risk Models of Triple Negative Breast Cancer. Nutrition and Cancer, 2014, 66, 955-963.	2.0	32
32	Human DNA Exonuclease TREX1 Is Also an Exoribonuclease That Acts on Single-stranded RNA. Journal of Biological Chemistry, 2015, 290, 13344-13353.	3.4	31
33	The p-benzoquinone DNA adducts derived from benzene are highly mutagenic. DNA Repair, 2005, 4, 1399-1409.	2.8	30
34	Mouse DNA polymerase kappa has a functional role in the repair of DNA strand breaks. DNA Repair, 2013, 12, 377-388.	2.8	27
35	Basal level of FANCD2 monoubiquitination is required for the maintenance of a sufficient number of licensed-replication origins to fire at a normal rate. Oncotarget, 2014, 5, 1326-1337.	1.8	25
36	Identification of <i>KANSARL</i> as the first cancer predisposition fusion gene specific to the population of European ancestry origin. Oncotarget, 2017, 8, 50594-50607.	1.8	24

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37	Base excision repair of oxidative DNA damage coupled with removal of a CAG repeat hairpin attenuates trinucleotide repeat expansion. Nucleic Acids Research, 2014, 42, 3675-3691.	14.5	23
38	Fanconi Anemia Complementation Group A (FANCA) Protein Has Intrinsic Affinity for Nucleic Acids with Preference for Single-stranded Forms. Journal of Biological Chemistry, 2012, 287, 4800-4807.	3.4	22
39	Crystal structure of a Fanconi anemia-associated nuclease homolog bound to 5â€² flap DNA: basis of interstrand cross-link repair by FAN1. Genes and Development, 2014, 28, 2276-2290.	5.9	19
40	Coordinated Processing of 3â€² Slipped (CAG)n/(CTG)n Hairpins by DNA Polymerases Î² and Î´ Preferentially Induces Repeat Expansions. Journal of Biological Chemistry, 2013, 288, 15015-15022.	3.4	18
41	8-(Hydroxymethyl)-3,N4-etheno-C, a Potential Carcinogenic Glycidaldehyde Product, Miscodes In Vitro Using Mammalian DNA Polymerasesâ€. Biochemistry, 2002, 41, 1778-1785.	2.5	14
42	Does a helicase activity help mismatch repair in eukaryotes?. IUBMB Life, 2010, 62, 548-553.	3.4	13
43	Damage-dependent regulation of MUS81-EME1 by Fanconi anemia complementation group A protein. Nucleic Acids Research, 2014, 42, 1671-1683.	14.5	12
44	In vitro FANCD2 monoubiquitination by HHR6 and hRad18. Cell Cycle, 2013, 12, 3448-3449.	2.6	11
45	Human Fanconi Anemia Complementation Group A Protein Stimulates the 5â€™ Flap Endonuclease Activity of FEN1. PLoS ONE, 2013, 8, e82666.	2.5	11
46	Assembling an orchestra: Fanconi anemia pathway of repair. Frontiers in Bioscience - Landmark, 2010, 15, 1131.	3.0	10
47	Identification of Regulatory Factor X as a Novel Mismatch Repair Stimulatory Factor. Journal of Biological Chemistry, 2008, 283, 12730-12735.	3.4	9
48	Measuring strand discontinuity-directed mismatch repair in yeast Saccharomyces cerevisiae by cell-free nuclear extracts. Methods, 2009, 48, 14-18.	3.8	8
49	Impeding the single-strand annealing pathway of DNA double-strand break repair by withaferin A-mediated FANCA degradation. DNA Repair, 2019, 77, 10-17.	2.8	7
50	Characterization of ATPase Activity of P2RX2 Cation Channel. Frontiers in Physiology, 2016, 7, 186.	2.8	6
51	DNA repair. Methods, 2009, 48, 1-2.	3.8	4
52	Eukaryotic DNA Mismatch Repair In Vitro. Methods in Molecular Biology, 2012, 920, 149-162.	0.9	4
53	Stitching up broken DNA ends by FANCA. Molecular and Cellular Oncology, 2018, 5, e1518101.	0.7	2
54	Insulin growth factor 2 mRNA binding protein 1 (IGF2BP1) regulates translation of the multidrug resistance protein 2 (MRP2) by binding to its 5â€²â€untranslated region (5â€²UTR). FASEB Journal, 2011, 25, 1015.8.	0.5	1

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55	FANCA has intrinsic affinity to nucleic acids with preference for singleâ€stranded forms. FASEB Journal, 2012, 26, 539.15.	0.5	0
56	Termination of exonuclease 1â€catalyzed mismatch excision requires physical interaction between exonuclease 1 and MutLÎ±. FASEB Journal, 2012, 26, 539.11.	0.5	0