Louise Prakash

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19,601 78 133 222 h-index g-index citations papers 6.51 20,658 10.9 223 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
222	Eukaryotic translesion synthesis DNA polymerases: specificity of structure and function. <i>Annual Review of Biochemistry</i> , 2005 , 74, 317-53	29.1	821
221	The Y-family of DNA polymerases. <i>Molecular Cell</i> , 2001 , 8, 7-8	17.6	737
220	hRAD30 mutations in the variant form of xeroderma pigmentosum. <i>Science</i> , 1999 , 285, 263-5	33.3	653
219	Eukaryotic polymerases iota and zeta act sequentially to bypass DNA lesions. <i>Nature</i> , 2000 , 406, 1015-9	50.4	573
218	Yeast Saccharomyces cerevisiae selectable markers in pUC18 polylinkers. <i>Yeast</i> , 1990 , 6, 363-6	3.4	380
217	Fidelity of human DNA polymerase eta. <i>Journal of Biological Chemistry</i> , 2000 , 275, 7447-50	5.4	327
216	Structure of the catalytic core of S. cerevisiae DNA polymerase eta: implications for translesion DNA synthesis. <i>Molecular Cell</i> , 2001 , 8, 417-26	17.6	309
215	Efficient and accurate replication in the presence of 7,8-dihydro-8-oxoguanine by DNA polymerase eta. <i>Nature Genetics</i> , 2000 , 25, 458-61	36.3	305
214	Roles of yeast DNA polymerases delta and zeta and of Rev1 in the bypass of abasic sites. <i>Genes and Development</i> , 2001 , 15, 945-54	12.6	279
213	Human xeroderma pigmentosum group D gene encodes a DNA helicase. <i>Nature</i> , 1993 , 365, 852-5	50.4	276
212	Nucleotide excision repair in yeast. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2000 , 451, 13-24	3.3	271
211	Replication by human DNA polymerase-iota occurs by Hoogsteen base-pairing. <i>Nature</i> , 2004 , 430, 377-8	0 50.4	270
210	Translesion DNA synthesis in eukaryotes: a one- or two-polymerase affair. <i>Genes and Development</i> , 2002 , 16, 1872-83	12.6	265
209	Eukaryotic DNA polymerases: proposal for a revised nomenclature. <i>Journal of Biological Chemistry</i> , 2001 , 276, 43487-90	5.4	264
208	Characterization of postreplication repair in Saccharomyces cerevisiae and effects of rad6, rad18, rev3 and rad52 mutations. <i>Molecular Genetics and Genomics</i> , 1981 , 184, 471-8		242
207	Yeast DNA repair proteins Rad6 and Rad18 form a heterodimer that has ubiquitin conjugating, DNA binding, and ATP hydrolytic activities. <i>Journal of Biological Chemistry</i> , 1997 , 272, 23360-5	5.4	229
206	Yeast Rad5 protein required for postreplication repair has a DNA helicase activity specific for replication fork regression. <i>Molecular Cell</i> , 2007 , 28, 167-75	17.6	225

205	Effects of the RAD52 Gene on Recombination in SACCHAROMYCES CEREVISIAE. <i>Genetics</i> , 1980 , 94, 31	-5 @	215	
204	Physical and functional interactions of human DNA polymerase eta with PCNA. <i>Molecular and Cellular Biology</i> , 2001 , 21, 7199-206	4.8	214	
203	Rev1 employs a novel mechanism of DNA synthesis using a protein template. <i>Science</i> , 2005 , 309, 2219-	22/3.3	199	
202	Structural basis of high-fidelity DNA synthesis by yeast DNA polymerase delta. <i>Nature Structural and Molecular Biology</i> , 2009 , 16, 979-86	17.6	197	
201	Human DNA polymerase kappa encircles DNA: implications for mismatch extension and lesion bypass. <i>Molecular Cell</i> , 2007 , 25, 601-14	17.6	195	
200	Isolation and characterization of MMS-sensitive mutants of Saccharomyces cerevisiae. <i>Genetics</i> , 1977 , 86, 33-55	4	193	
199	Reconstitution of yeast nucleotide excision repair with purified Rad proteins, replication protein A, and transcription factor TFIIH. <i>Journal of Biological Chemistry</i> , 1995 , 270, 12973-6	5.4	187	
198	Interaction with PCNA is essential for yeast DNA polymerase eta function. <i>Molecular Cell</i> , 2001 , 8, 407-	15 7.6	180	
197	Human SHPRH is a ubiquitin ligase for Mms2-Ubc13-dependent polyubiquitylation of proliferating cell nuclear antigen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 18107-12	11.5	177	
196	RAD25 is a DNA helicase required for DNA repair and RNA polymerase II transcription. <i>Nature</i> , 1994 , 369, 578-81	50.4	176	
195	Role of DNA polymerase eta in the bypass of a (6-4) TT photoproduct. <i>Molecular and Cellular Biology</i> , 2001 , 21, 3558-63	4.8	175	
194	Opposing effects of ubiquitin conjugation and SUMO modification of PCNA on replicational bypass of DNA lesions in Saccharomyces cerevisiae. <i>Molecular and Cellular Biology</i> , 2004 , 24, 4267-74	4.8	174	
193	Human HLTF functions as a ubiquitin ligase for proliferating cell nuclear antigen polyubiquitination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 3768-73	11.5	169	
192	Stimulation of DNA synthesis activity of human DNA polymerase kappa by PCNA. <i>Molecular and Cellular Biology</i> , 2002 , 22, 784-91	4.8	159	
191	Mutagenic specificity: reversion of iso-1-cytochrome c mutants of yeast. <i>Journal of Molecular Biology</i> , 1973 , 79, 65-82	6.5	157	
190	Evidence for involvement of yeast proliferating cell nuclear antigen in DNA mismatch repair. Journal of Biological Chemistry, 1996 , 271, 27987-90	5.4	155	
189	Requirement of RAD5 and MMS2 for postreplication repair of UV-damaged DNA in Saccharomyces cerevisiae. <i>Molecular and Cellular Biology</i> , 2002 , 22, 2419-26	4.8	152	
188	Requirement of the yeast MSH3 and MSH6 genes for MSH2-dependent genomic stability. <i>Journal of Biological Chemistry</i> , 1996 , 271, 7285-8	5.4	150	

187	Fidelity and processivity of Saccharomyces cerevisiae DNA polymerase eta. <i>Journal of Biological Chemistry</i> , 1999 , 274, 36835-8	5.4	148
186	Conditional lethality of null mutations in RTH1 that encodes the yeast counterpart of a mammalian 5F to 3Fexonuclease required for lagging strand DNA synthesis in reconstituted systems. <i>Journal of Biological Chemistry</i> , 1995 , 270, 4193-6	5.4	147
185	Repair of pyrimidine dimers in nuclear and mitochondrial DNA of yeast irradiated with low doses of ultraviolet light. <i>Journal of Molecular Biology</i> , 1975 , 98, 781-95	6.5	145
184	Human DINB1-encoded DNA polymerase kappa is a promiscuous extender of mispaired primer termini. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 1910-	·4 ^{11.5}	144
183	Pol31 and Pol32 subunits of yeast DNA polymerase here also essential subunits of DNA polymerase herease hereas	11.5	140
182	The Saccharomyces cerevisiae RAD18 gene encodes a protein that contains potential zinc finger domains for nucleic acid binding and a putative nucleotide binding sequence. <i>Nucleic Acids Research</i> , 1988, 16, 7119-31	20.1	140
181	Role of human DNA polymerase kappa as an extender in translesion synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 16000-5	11.5	139
180	A Major Role of DNA Polymerase In Replication of Both the Leading and Lagging DNA Strands. <i>Molecular Cell</i> , 2015 , 59, 163-175	17.6	137
179	DNA repair gene RAD3 of S. cerevisiae is essential for transcription by RNA polymerase II. <i>Nature</i> , 1994 , 367, 91-4	50.4	133
178	Lack of chemically induced mutation in repair-deficient mutants of yeast. <i>Genetics</i> , 1974 , 78, 1101-18	4	129
178 177	Lack of chemically induced mutation in repair-deficient mutants of yeast. <i>Genetics</i> , 1974 , 78, 1101-18 Yeast Rev1 protein is a G template-specific DNA polymerase. <i>Journal of Biological Chemistry</i> , 2002 , 277, 15546-51	4 5·4	129
•	Yeast Rev1 protein is a G template-specific DNA polymerase. <i>Journal of Biological Chemistry</i> , 2002 ,	5.4	
177	Yeast Rev1 protein is a G template-specific DNA polymerase. <i>Journal of Biological Chemistry</i> , 2002 , 277, 15546-51	5.4	127
177 176	Yeast Rev1 protein is a G template-specific DNA polymerase. <i>Journal of Biological Chemistry</i> , 2002 , 277, 15546-51 Requirement of yeast SGS1 and SRS2 genes for replication and transcription. <i>Science</i> , 1999 , 286, 2339-4	5.4	127
177 176 175	Yeast Rev1 protein is a G template-specific DNA polymerase. <i>Journal of Biological Chemistry</i> , 2002 , 277, 15546-51 Requirement of yeast SGS1 and SRS2 genes for replication and transcription. <i>Science</i> , 1999 , 286, 2339-4 Yeast excision repair gene RAD2 encodes a single-stranded DNA endonuclease. <i>Nature</i> , 1993 , 366, 365-8 Binding of insertion/deletion DNA mismatches by the heterodimer of yeast mismatch repair	5.4 1233.3 850.4	127 125 125
177 176 175	Yeast Rev1 protein is a G template-specific DNA polymerase. <i>Journal of Biological Chemistry</i> , 2002 , 277, 15546-51 Requirement of yeast SGS1 and SRS2 genes for replication and transcription. <i>Science</i> , 1999 , 286, 2339-4 Yeast excision repair gene RAD2 encodes a single-stranded DNA endonuclease. <i>Nature</i> , 1993 , 366, 365-8 Binding of insertion/deletion DNA mismatches by the heterodimer of yeast mismatch repair proteins MSH2 and MSH3. <i>Current Biology</i> , 1996 , 6, 1185-7	5.4 1233.3 850.4	127 125 125
177 176 175 174	Yeast Rev1 protein is a G template-specific DNA polymerase. <i>Journal of Biological Chemistry</i> , 2002 , 277, 15546-51 Requirement of yeast SGS1 and SRS2 genes for replication and transcription. <i>Science</i> , 1999 , 286, 2339-4 Yeast excision repair gene RAD2 encodes a single-stranded DNA endonuclease. <i>Nature</i> , 1993 , 366, 365-6 Binding of insertion/deletion DNA mismatches by the heterodimer of yeast mismatch repair proteins MSH2 and MSH3. <i>Current Biology</i> , 1996 , 6, 1185-7 Structural basis for the suppression of skin cancers by DNA polymerase eta. <i>Nature</i> , 2010 , 465, 1039-43 Requirement of DNA polymerase eta for error-free bypass of UV-induced CC and TC	5.4 5.3 850.4 6.3	127 125 125 124

169	Yeast DNA polymerase eta utilizes an induced-fit mechanism of nucleotide incorporation. <i>Cell</i> , 2001 , 107, 917-27	56.2	116
168	Human DNA polymerase iota incorporates dCTP opposite template G via a G.C + Hoogsteen base pair. <i>Structure</i> , 2005 , 13, 1569-77	5.2	113
167	Ubiquitylation of yeast proliferating cell nuclear antigen and its implications for translesion DNA synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 6477-82	11.5	110
166	Efficient and error-free replication past a minor-groove DNA adduct by the sequential action of human DNA polymerases iota and kappa. <i>Molecular and Cellular Biology</i> , 2004 , 24, 5687-93	4.8	107
165	Requirement of mismatch repair genes MSH2 and MSH3 in the RAD1-RAD10 pathway of mitotic recombination in Saccharomyces cerevisiae. <i>Genetics</i> , 1996 , 142, 727-36	4	107
164	Regulation of polymerase exchange between Poleta and Poldelta by monoubiquitination of PCNA and the movement of DNA polymerase holoenzyme. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 5361-6	11.5	104
163	ATP-dependent assembly of a ternary complex consisting of a DNA mismatch and the yeast MSH2-MSH6 and MLH1-PMS1 protein complexes. <i>Journal of Biological Chemistry</i> , 1998 , 273, 9837-41	5.4	104
162	Complex formation with Rev1 enhances the proficiency of Saccharomyces cerevisiae DNA polymerase zeta for mismatch extension and for extension opposite from DNA lesions. <i>Molecular and Cellular Biology</i> , 2006 , 26, 9555-63	4.8	102
161	Requirement of DNA polymerase activity of yeast Rad30 protein for its biological function. <i>Journal of Biological Chemistry</i> , 1999 , 274, 15975-7	5.4	100
160	Hoogsteen base pair formation promotes synthesis opposite the 1,N6-ethenodeoxyadenosine lesion by human DNA polymerase iota. <i>Nature Structural and Molecular Biology</i> , 2006 , 13, 619-25	17.6	98
159	Yeast RAD14 and human xeroderma pigmentosum group A DNA-repair genes encode homologous proteins. <i>Nature</i> , 1992 , 355, 555-8	50.4	98
158	Roles of PCNA-binding and ubiquitin-binding domains in human DNA polymerase eta in translesion DNA synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 17724-9	11.5	95
157	Effect of Genes Controlling Radiation Sensitivity on Chemically Induced Mutations in SACCHAROMYCES CEREVISIAE. <i>Genetics</i> , 1976 , 83, 285-301	4	95
156	Crystal structure of the catalytic core of human DNA polymerase kappa. <i>Structure</i> , 2004 , 12, 1395-404	5.2	94
155	Yeast DNA polymerase zeta is an efficient extender of primer ends opposite from 7,8-dihydro-8-Oxoguanine and O6-methylguanine. <i>Molecular and Cellular Biology</i> , 2003 , 23, 1453-9	4.8	93
154	Inefficient bypass of an abasic site by DNA polymerase eta. <i>Journal of Biological Chemistry</i> , 2001 , 276, 6861-6	5.4	93
153	The stalling of transcription at abasic sites is highly mutagenic. <i>Molecular and Cellular Biology</i> , 2003 , 23, 382-8	4.8	91
152	The nucleotide sequence of the RAD3 gene of Saccharomyces cerevisiae: a potential adenine nucleotide binding amino acid sequence and a nonessential acidic carboxyl terminal region. <i>Nucleic Acids Research</i> , 1985 , 13, 2357-72	20.1	91

151	Efficient and error-free replication past a minor-groove N2-guanine adduct by the sequential action of yeast Rev1 and DNA polymerase zeta. <i>Molecular and Cellular Biology</i> , 2004 , 24, 6900-6	4.8	88	
150	Affinity of yeast nucleotide excision repair factor 2, consisting of the Rad4 and Rad23 proteins, for ultraviolet damaged DNA. <i>Journal of Biological Chemistry</i> , 1998 , 273, 31541-6	5.4	88	
149	An affinity of human replication protein A for ultraviolet-damaged DNA. <i>Journal of Biological Chemistry</i> , 1996 , 271, 11607-10	5.4	87	
148	Mms2-Ubc13-dependent and -independent roles of Rad5 ubiquitin ligase in postreplication repair and translesion DNA synthesis in Saccharomyces cerevisiae. <i>Molecular and Cellular Biology</i> , 2006 , 26, 7783-90	4.8	85	
147	Requirement of yeast RAD2, a homolog of human XPG gene, for efficient RNA polymerase II transcription. implications for Cockayne syndrome. <i>Cell</i> , 2002 , 109, 823-34	56.2	83	
146	Yeast DNA polymerase zeta (zeta) is essential for error-free replication past thymine glycol. <i>Genes and Development</i> , 2003 , 17, 77-87	12.6	81	
145	Requirement of RAD52 group genes for postreplication repair of UV-damaged DNA in Saccharomyces cerevisiae. <i>Molecular and Cellular Biology</i> , 2007 , 27, 7758-64	4.8	79	
144	Requirement of Watson-Crick hydrogen bonding for DNA synthesis by yeast DNA polymerase eta. <i>Molecular and Cellular Biology</i> , 2003 , 23, 5107-12	4.8	78	
143	Enhancement of MSH2-MSH3-mediated mismatch recognition by the yeast MLH1-PMS1 complex. <i>Current Biology</i> , 1997 , 7, 790-3	6.3	76	
142	Translesion synthesis past acrolein-derived DNA adduct, gamma -hydroxypropanodeoxyguanosine, by yeast and human DNA polymerase eta. <i>Journal of Biological Chemistry</i> , 2003 , 278, 784-90	5.4	76	
141	Nucleotide excision repair in yeast is mediated by sequential assembly of repair factors and not by a pre-assembled repairosome. <i>Journal of Biological Chemistry</i> , 1996 , 271, 8903-10	5.4	74	
140	Yeast open reading frame YCR14C encodes a DNA beta-polymerase-like enzyme. <i>Nucleic Acids Research</i> , 1993 , 21, 5301-7	20.1	72	
139	Yeast Rad7-Rad16 complex, specific for the nucleotide excision repair of the nontranscribed DNA strand, is an ATP-dependent DNA damage sensor. <i>Journal of Biological Chemistry</i> , 1997 , 272, 21665-8	5.4	71	
138	Evidence for the involvement of nucleotide excision repair in the removal of abasic sites in yeast. <i>Molecular and Cellular Biology</i> , 2000 , 20, 3522-8	4.8	70	
137	Mechanism of nucleotide incorporation opposite a thymine-thymine dimer by yeast DNA polymerase eta. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 12093-8	11.5	69	
136	Complex formation of yeast Rev1 and Rev7 proteins: a novel role for the polymerase-associated domain. <i>Molecular and Cellular Biology</i> , 2005 , 25, 9734-40	4.8	69	
135	Yeast DNA repair protein RAD23 promotes complex formation between transcription factor TFIIH and DNA damage recognition factor RAD14. <i>Journal of Biological Chemistry</i> , 1995 , 270, 8385-8	5.4	69	
134	Defective excision of pyrimidine dimers and interstrand DNA crosslinks in rad7 and rad23 mutants of Saccharomyces cerevisiae. <i>Molecular Genetics and Genomics</i> , 1982 , 188, 235-9		69	

133	Structural basis for cisplatin DNA damage tolerance by human polymerase during cancer chemotherapy. <i>Nature Structural and Molecular Biology</i> , 2012 , 19, 628-32	17.6	68
132	Biochemical evidence for the requirement of Hoogsteen base pairing for replication by human DNA polymerase iota. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 10466-71	11.5	68
131	Repair of pyrimidine dimers in radiation-sensitive mutants rad3, rad4, rad6 and rad9 of Saccharomyces cerevisiae. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1977 , 45, 13-20	3.3	68
130	Expression of the Saccharomyces cerevisiae DNA repair gene RAD6 that encodes a ubiquitin conjugating enzyme, increases in response to DNA damage and in meiosis but remains constant during the mitotic cell cycle. <i>Nucleic Acids Research</i> , 1990 , 18, 771-8	20.1	67
129	Dpo4 is hindered in extending a G.T mismatch by a reverse wobble. <i>Nature Structural and Molecular Biology</i> , 2004 , 11, 457-62	17.6	66
128	Recombination and mutagenesis in rad6 mutants of Saccharomyces cerevisiae: evidence for multiple functions of the RAD6 gene. <i>Molecular Genetics and Genomics</i> , 1981 , 184, 410-5		66
127	Mutational specificity and genetic control of replicative bypass of an abasic site in yeast. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 1170-5	11.5	65
126	Error-free replicative bypass of (6-4) photoproducts by DNA polymerase zeta in mouse and human cells. <i>Genes and Development</i> , 2010 , 24, 123-8	12.6	63
125	ELA1 and CUL3 are required along with ELC1 for RNA polymerase II polyubiquitylation and degradation in DNA-damaged yeast cells. <i>Molecular and Cellular Biology</i> , 2007 , 27, 3211-6	4.8	60
124	Repair of alkylation damage: stability of methyl groups in Bacillus subtilis treated with methyl methanesulfonate. <i>Journal of Bacteriology</i> , 1970 , 102, 760-6	3.5	60
123	3Tphosphodiesterase and 3T->5Texonuclease activities of yeast Apn2 protein and requirement of these activities for repair of oxidative DNA damage. <i>Molecular and Cellular Biology</i> , 2001 , 21, 1656-61	4.8	59
122	An incoming nucleotide imposes an anti to syn conformational change on the templating purine in the human DNA polymerase-iota active site. <i>Structure</i> , 2006 , 14, 749-55	5.2	58
121	Three additional genes involved in pyrimidine dimer removal in Saccharomyces cerevisiae: RAD7, RAD14 and MMS19. <i>Molecular Genetics and Genomics</i> , 1979 , 176, 351-9		58
120	Requirement for yeast RAD26, a homolog of the human CSB gene, in elongation by RNA polymerase II. <i>Molecular and Cellular Biology</i> , 2001 , 21, 8651-6	4.8	57
119	Structure of the human Rev1-DNA-dNTP ternary complex. <i>Journal of Molecular Biology</i> , 2009 , 390, 699-7	'6 3	56
118	Crystal structure of the Saccharomyces cerevisiae ubiquitin-conjugating enzyme Rad6 at 2.6 A resolution. <i>Journal of Biological Chemistry</i> , 1998 , 273, 6271-6	5.4	56
117	Human DNA polymerase iota utilizes different nucleotide incorporation mechanisms dependent upon the template base. <i>Molecular and Cellular Biology</i> , 2004 , 24, 936-43	4.8	55
116	Apurinic endonuclease activity of yeast Apn2 protein. <i>Journal of Biological Chemistry</i> , 2000 , 275, 22427-3	3 4 4	55

115	Reconstitution of TFIIH and requirement of its DNA helicase subunits, Rad3 and Rad25, in the incision step of nucleotide excision repair. <i>Journal of Biological Chemistry</i> , 1996 , 271, 10821-6	5.4	55
114	Error-free replicative bypass of thymine glycol by the combined action of DNA polymerases kappa and zeta in human cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 14116-21	11.5	54
113	RAD26, the yeast homolog of human Cockayne's syndrome group B gene, encodes a DNA-dependent ATPase. <i>Journal of Biological Chemistry</i> , 1996 , 271, 18314-7	5.4	54
112	Transcript levels of the Saccharomyces cerevisiae DNA repair gene RAD18 increase in UV irradiated cells and during meiosis but not during the mitotic cell cycle. <i>Nucleic Acids Research</i> , 1991 , 19, 893-8	20.1	53
111	Specific induction of transitions and transversions of G-C base pairs by 4-nitroquinoline-1-oxide in iso-1-cytochrome c mutants of yeast. <i>Journal of Molecular Biology</i> , 1974 , 85, 51-65	6.5	53
110	PCNA binding domains in all three subunits of yeast DNA polymerase Imodulate its function in DNA replication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 17927-32	11.5	52
109	Protein-template-directed synthesis across an acrolein-derived DNA adduct by yeast Rev1 DNA polymerase. <i>Structure</i> , 2008 , 16, 239-45	5.2	52
108	Stimulation of 3T->5Texonuclease and 3Tphosphodiesterase activities of yeast apn2 by proliferating cell nuclear antigen. <i>Molecular and Cellular Biology</i> , 2002 , 22, 6480-6	4.8	51
107	Role of yeast Rth1 nuclease and its homologs in mutation avoidance, DNA repair, and DNA replication. <i>Current Genetics</i> , 1998 , 34, 21-9	2.9	50
106	Requirement of Rad5 for DNA polymerase zeta-dependent translesion synthesis in Saccharomyces cerevisiae. <i>Genetics</i> , 2008 , 180, 73-82	4	50
105	Replication past a trans-4-hydroxynonenal minor-groove adduct by the sequential action of human DNA polymerases iota and kappa. <i>Molecular and Cellular Biology</i> , 2006 , 26, 381-6	4.8	50
104	A role for yeast and human translesion synthesis DNA polymerases in promoting replication through 3-methyl adenine. <i>Molecular and Cellular Biology</i> , 2007 , 27, 7198-205	4.8	50
103	Trf4 and Trf5 proteins of Saccharomyces cerevisiae exhibit poly(A) RNA polymerase activity but no DNA polymerase activity. <i>Molecular and Cellular Biology</i> , 2005 , 25, 10183-9	4.8	49
102	Evidence for a Watson-Crick hydrogen bonding requirement in DNA synthesis by human DNA polymerase kappa. <i>Molecular and Cellular Biology</i> , 2005 , 25, 7137-43	4.8	48
101	Stable ester conjugate between the Saccharomyces cerevisiae RAD6 protein and ubiquitin has no biological activity. <i>Journal of Molecular Biology</i> , 1991 , 221, 745-9	6.5	48
100	Effects of the rad52 gene on sister chromatid recombination in Saccharomyces cerevisiae. <i>Current Genetics</i> , 1981 , 3, 247-50	2.9	48
99	Defective thymine dimer excision in radiation-sensitive mutants rad10 and rad16 of Saccharomyces cerevisiae. <i>Molecular Genetics and Genomics</i> , 1977 , 152, 125-8		48
98	Structure and mechanism of human PrimPol, a DNA polymerase with primase activity. <i>Science Advances</i> , 2016 , 2, e1601317	14.3	47

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97	A single domain in human DNA polymerase iota mediates interaction with PCNA: implications for translesion DNA synthesis. <i>Molecular and Cellular Biology</i> , 2005 , 25, 1183-90	4.8	47	
96	Error-Prone Replication through UV Lesions by DNA Polymerase Protects against Skin Cancers. <i>Cell</i> , 2019 , 176, 1295-1309.e15	56.2	47	
95	Yeast Rev1 protein promotes complex formation of DNA polymerase zeta with Pol32 subunit of DNA polymerase delta. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 9631-6	11.5	46	
94	Molecular cloning and characterization of the RAD1 gene of Saccharomyces cerevisiae. <i>Gene</i> , 1983 , 26, 119-26	3.8	46	
93	Structure of human DNA polymerase kappa inserting dATP opposite an 8-OxoG DNA lesion. <i>PLoS ONE</i> , 2009 , 4, e5766	3.7	46	
92	Requirement of ELC1 for RNA polymerase II polyubiquitylation and degradation in response to DNA damage in Saccharomyces cerevisiae. <i>Molecular and Cellular Biology</i> , 2006 , 26, 3999-4005	4.8	45	
91	A role for DNA polymerase In promoting replication through oxidative DNA lesion, thymine glycol, in human cells. <i>Journal of Biological Chemistry</i> , 2014 , 289, 13177-85	5.4	44	
90	Mutations in the ubiquitin binding UBZ motif of DNA polymerase eta do not impair its function in translesion synthesis during replication. <i>Molecular and Cellular Biology</i> , 2007 , 27, 7266-72	4.8	44	
89	Yeast and human translesion DNA synthesis polymerases: expression, purification, and biochemical characterization. <i>Methods in Enzymology</i> , 2006 , 408, 390-407	1.7	44	
88	Increased spontaneous mitotic segregation in MMS-sensitive mutants of Saccharomyces cerevisiae. <i>Genetics</i> , 1977 , 87, 229-36	4	44	
87	Structure-specific nuclease activity in yeast nucleotide excision repair protein Rad2. <i>Journal of Biological Chemistry</i> , 1995 , 270, 30194-8	5.4	43	
86	Complex formation of yeast Rev1 with DNA polymerase eta. <i>Molecular and Cellular Biology</i> , 2007 , 27, 8401-8	4.8	42	
85	Mismatch extension ability of yeast and human DNA polymerase eta. <i>Journal of Biological Chemistry</i> , 2001 , 276, 2263-6	5.4	42	
84	Yeast RAD26, a homolog of the human CSB gene, functions independently of nucleotide excision repair and base excision repair in promoting transcription through damaged bases. <i>Molecular and Cellular Biology</i> , 2002 , 22, 4383-9	4.8	42	
83	The DNA-dependent ATPase activity of yeast nucleotide excision repair factor 4 and its role in DNA damage recognition. <i>Journal of Biological Chemistry</i> , 1998 , 273, 6292-6	5.4	42	
82	Role of DNA damage-induced replication checkpoint in promoting lesion bypass by translesion synthesis in yeast. <i>Genes and Development</i> , 2009 , 23, 1438-49	12.6	41	
81	Requirement of yeast Rad1-Rad10 nuclease for the removal of 3Tblocked termini from DNA strand breaks induced by reactive oxygen species. <i>Genes and Development</i> , 2004 , 18, 2283-91	12.6	41	
80	Acidic residues critical for the activity and biological function of yeast DNA polymerase eta. <i>Molecular and Cellular Biology</i> , 2001 , 21, 2018-25	4.8	41	

79	Regulated expression of the Saccharomyces cerevisiae DNA repair gene RAD7 in response to DNA damage and during sporulation. <i>Nucleic Acids Research</i> , 1990 , 18, 3281-5	20.1	41
78	Complex formation with damage recognition protein Rad14 is essential for Saccharomyces cerevisiae Rad1-Rad10 nuclease to perform its function in nucleotide excision repair in vivo. <i>Molecular and Cellular Biology</i> , 2006 , 26, 1135-41	4.8	40
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