

Thomas A Kunkel

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

348
papers

45,435
citations

103
h-index

206
g-index

365
ext. papers

48,075
ext. citations

12.2
avg, IF

7.62
L-index

#	Paper	IF	Citations
348	How asymmetric DNA replication achieves symmetrical fidelity. <i>Nature Structural and Molecular Biology</i> , 2021 , 28, 1020-1028	17.6	2
347	DNA Polymerase and Mismatch Repair Exert Distinct Microsatellite Instability Signatures in Normal and Malignant Human Cells. <i>Cancer Discovery</i> , 2021 , 11, 1176-1191	24.4	19
346	The fidelity of DNA replication, particularly on GC-rich templates, is reduced by defects of the Fe-S cluster in DNA polymerase ϵ <i>Nucleic Acids Research</i> , 2021 , 49, 5623-5636	20.1	0
345	Stability across the Whole Nuclear Genome in the Presence and Absence of DNA Mismatch Repair. <i>Cells</i> , 2021 , 10,	7.9	1
344	High-fidelity DNA ligation enforces accurate Okazaki fragment maturation during DNA replication. <i>Nature Communications</i> , 2021 , 12, 482	17.4	3
343	Ribonucleotide incorporation into DNA during DNA replication and its consequences. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2021 , 56, 109-124	8.7	4
342	Opportunities for new studies of nuclear DNA replication enzymology in budding yeast. <i>Current Genetics</i> , 2020 , 66, 299-302	2.9	3
341	Structural snapshots of human DNA polymerase ϵ engaged on a DNA double-strand break. <i>Nature Communications</i> , 2020 , 11, 4784	17.4	2
340	DNA polymerase mu: An inflexible scaffold for substrate flexibility. <i>DNA Repair</i> , 2020 , 93, 102932	4.3	1
339	Ultrasensitive deletion detection links mitochondrial DNA replication, disease, and aging. <i>Genome Biology</i> , 2020 , 21, 248	18.3	14
338	Unexpected behavior of DNA polymerase Mu opposite template 8-oxo-7,8-dihydro-2Pguanosine. <i>Nucleic Acids Research</i> , 2019 , 47, 9410-9422	20.1	5
337	Roles for DNA polymerase ϵ in initiating and terminating leading strand DNA replication. <i>Nature Communications</i> , 2019 , 10, 3992	17.4	35
336	DNA Polymerase Delta Synthesizes Both Strands during Break-Induced Replication. <i>Molecular Cell</i> , 2019 , 76, 371-381.e4	17.6	32
335	The absence of the catalytic domains of <i>Saccharomyces cerevisiae</i> DNA polymerase δ strongly reduces DNA replication fidelity. <i>Nucleic Acids Research</i> , 2019 , 47, 3986-3995	20.1	11
334	Genome-wide mutagenesis resulting from topoisomerase 1-processing of unrepaired ribonucleotides in DNA. <i>DNA Repair</i> , 2019 , 84, 102641	4.3	6
333	Epithelial RNase H2 Maintains Genome Integrity and Prevents Intestinal Tumorigenesis in Mice. <i>Gastroenterology</i> , 2019 , 156, 145-159.e19	13.3	26
332	Evidence that DNA polymerase ϵ contributes to initiating leading strand DNA replication in <i>Saccharomyces cerevisiae</i> . <i>Nature Communications</i> , 2018 , 9, 858	17.4	59

331	Structures of DNA-bound human ligase IV catalytic core reveal insights into substrate binding and catalysis. <i>Nature Communications</i> , 2018 , 9, 2642	17.4	23
330	Muver, a computational framework for accurately calling accumulated mutations. <i>BMC Genomics</i> , 2018 , 19, 345	4.5	9
329	Studying Ribonucleotide Incorporation: Strand-specific Detection of Ribonucleotides in the Yeast Genome and Measuring Ribonucleotide-induced Mutagenesis. <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	3
328	A simple but profound mutation in mouse DNA polymerase β drives tumorigenesis. <i>Journal of Clinical Investigation</i> , 2018 , 128, 3754-3756	15.9	0
327	Mapping Ribonucleotides Incorporated into DNA by Hydrolytic End-Sequencing. <i>Methods in Molecular Biology</i> , 2018 , 1672, 329-345	1.4	5
326	Studying Topoisomerase 1-Mediated Damage at Genomic Ribonucleotides. <i>Methods in Molecular Biology</i> , 2018 , 1703, 241-257	1.4	1
325	Ribonucleotide Excision Repair Is Essential to Prevent Squamous Cell Carcinoma of the Skin. <i>Cancer Research</i> , 2018 , 78, 5917-5926	10.1	26
324	The role of RNase H2 in processing ribonucleotides incorporated during DNA replication. <i>DNA Repair</i> , 2017 , 53, 52-58	4.3	13
323	Eukaryotic DNA Replication Fork. <i>Annual Review of Biochemistry</i> , 2017 , 86, 417-438	29.1	239
322	Topoisomerase I-mediated cleavage at unrepaired ribonucleotides generates DNA double-strand breaks. <i>EMBO Journal</i> , 2017 , 36, 361-373	13	46
321	Time-lapse crystallography snapshots of a double-strand break repair polymerase in action. <i>Nature Communications</i> , 2017 , 8, 253	17.4	41
320	Arranging eukaryotic nuclear DNA polymerases for replication: Specific interactions with accessory proteins arrange Pols α and δ in the replisome for leading-strand and lagging-strand DNA replication. <i>BioEssays</i> , 2017 , 39, 1700070	4.1	17
319	Structural accommodation of ribonucleotide incorporation by the DNA repair enzyme polymerase μ . <i>Nucleic Acids Research</i> , 2017 , 45, 9138-9148	20.1	22
318	DNA Polymerases Divide the Labor of Genome Replication. <i>Trends in Cell Biology</i> , 2016 , 26, 640-654	18.3	88
317	Eukaryotic genome instability in light of asymmetric DNA replication. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2016 , 51, 43-52	8.7	9
316	Who Is Leading the Replication Fork, Pol β or Pol α ? <i>Molecular Cell</i> , 2016 , 61, 492-493	17.6	30
315	Genome-wide analysis of the specificity and mechanisms of replication infidelity driven by imbalanced dNTP pools. <i>Nucleic Acids Research</i> , 2016 , 44, 1669-80	20.1	45
314	Processing ribonucleotides incorporated during eukaryotic DNA replication. <i>Nature Reviews Molecular Cell Biology</i> , 2016 , 17, 350-63	48.7	110

313	Alternative solutions and new scenarios for translesion DNA synthesis by human PrimPol. <i>DNA Repair</i> , 2015 , 29, 127-38	4.3	48
312	Evidence that processing of ribonucleotides in DNA by topoisomerase 1 is leading-strand specific. <i>Nature Structural and Molecular Biology</i> , 2015 , 22, 291-7	17.6	38
311	Stimulation of Chromosomal Rearrangements by Ribonucleotides. <i>Genetics</i> , 2015 , 201, 951-61	4	34
310	Eukaryotic Mismatch Repair in Relation to DNA Replication. <i>Annual Review of Genetics</i> , 2015 , 49, 291-313	14.5	237
309	Polymerase ϵ replicates both strands after homologous recombination-dependent fork restart. <i>Nature Structural and Molecular Biology</i> , 2015 , 22, 932-8	17.6	63
308	Creative template-dependent synthesis by human polymerase mu. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E4530-6	11.5	23
307	Deposition of histone H2A.Z by the SWR-C remodeling enzyme prevents genome instability. <i>DNA Repair</i> , 2015 , 25, 9-14	4.3	15
306	Okazaki fragment maturation involves β segment error editing by the mammalian FEN1/MutS β functional complex. <i>EMBO Journal</i> , 2015 , 34, 1829-43	13	24
305	Quantifying the contributions of base selectivity, proofreading and mismatch repair to nuclear DNA replication in <i>Saccharomyces cerevisiae</i> . <i>DNA Repair</i> , 2015 , 31, 41-51	4.3	35
304	Differences in genome-wide repeat sequence instability conferred by proofreading and mismatch repair defects. <i>Nucleic Acids Research</i> , 2015 , 43, 4067-74	20.1	21
303	Celebrating DNAB Repair Crew. <i>Cell</i> , 2015 , 163, 1301-3	56.2	15
302	Tracking replication enzymology in vivo by genome-wide mapping of ribonucleotide incorporation. <i>Nature Structural and Molecular Biology</i> , 2015 , 22, 185-91	17.6	127
301	Measuring ribonucleotide incorporation into DNA in vitro and in vivo. <i>Methods in Molecular Biology</i> , 2015 , 1300, 123-39	1.4	10
300	Topoisomerase-Induced DNA Cleavage at Ribonucleotide Misincorporation Sites. <i>FASEB Journal</i> , 2015 , 29, 371.3	0.9	
299	Structure-function studies of DNA polymerase β <i>Biochemistry</i> , 2014 , 53, 2781-92	3.2	43
298	Aprataxin resolves adenylated RNA-DNA junctions to maintain genome integrity. <i>Nature</i> , 2014 , 506, 111-5	5.4	74
297	Sustained active site rigidity during synthesis by human DNA polymerase β <i>Nature Structural and Molecular Biology</i> , 2014 , 21, 253-60	17.6	47
296	Heterogeneous polymerase fidelity and mismatch repair bias genome variation and composition. <i>Genome Research</i> , 2014 , 24, 1751-64	9.7	111

295	Delivering nonidentical twins. <i>Nature Structural and Molecular Biology</i> , 2014 , 21, 649-51	17.6	15
294	Increased and imbalanced dNTP pools symmetrically promote both leading and lagging strand replication infidelity. <i>PLoS Genetics</i> , 2014 , 10, e1004846	6	44
293	Ribonucleotides in DNA: origins, repair and consequences. <i>DNA Repair</i> , 2014 , 19, 27-37	4.3	109
292	Ribonucleotide incorporation by yeast DNA polymerase β . <i>DNA Repair</i> , 2014 , 18, 63-7	4.3	15
291	Structures of the Leishmania infantum polymerase beta. <i>DNA Repair</i> , 2014 , 18, 1-9	4.3	5
290	DNA polymerase β stalls on telomeric lagging strand templates independently from G-quadruplex formation. <i>Nucleic Acids Research</i> , 2013 , 41, 10323-33	20.1	27
289	Exonuclease 1 preferentially repairs mismatches generated by DNA polymerase β . <i>DNA Repair</i> , 2013 , 12, 92-6	4.3	37
288	Ribonucleotide incorporation, proofreading and bypass by human DNA polymerase β . <i>DNA Repair</i> , 2013 , 12, 121-7	4.3	92
287	Topoisomerase 1-mediated removal of ribonucleotides from nascent leading-strand DNA. <i>Molecular Cell</i> , 2013 , 49, 1010-5	17.6	106
286	Ribonucleotides are signals for mismatch repair of leading-strand replication errors. <i>Molecular Cell</i> , 2013 , 50, 437-43	17.6	141
285	DNA polymerase β inactivation by oxidized abasic sites. <i>Biochemistry</i> , 2013 , 52, 975-83	3.2	15
284	Mammalian Exo1 encodes both structural and catalytic functions that play distinct roles in essential biological processes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E2470-9	11.5	50
283	Structure-function analysis of ribonucleotide bypass by B family DNA replicases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 16802-7	11.5	37
282	Transcriptional responses to loss of RNase H2 in <i>Saccharomyces cerevisiae</i> . <i>DNA Repair</i> , 2012 , 11, 933-41	4.3	17
281	Proofreading of ribonucleotides inserted into DNA by yeast DNA polymerase ϵ . <i>DNA Repair</i> , 2012 , 11, 649-56	4.3	47
280	RNase H2-initiated ribonucleotide excision repair. <i>Molecular Cell</i> , 2012 , 47, 980-6	17.6	237
279	Solution structure of the Dickerson DNA dodecamer containing a single ribonucleotide. <i>Biochemistry</i> , 2012 , 51, 2407-16	3.2	45
278	RNase H and postreplication repair protect cells from ribonucleotides incorporated in DNA. <i>Molecular Cell</i> , 2012 , 45, 99-110	17.6	126

277	DNA polymerase zeta generates clustered mutations during bypass of endogenous DNA lesions in <i>Saccharomyces cerevisiae</i> . <i>Environmental and Molecular Mutagenesis</i> , 2012 , 53, 777-86	3.2	38
276	Mismatch repair balances leading and lagging strand DNA replication fidelity. <i>PLoS Genetics</i> , 2012 , 8, e1003016	6	87
275	Altered Ig hypermutation pattern and frequency in complementary mouse models of DNA polymerase β activity. <i>Journal of Immunology</i> , 2012 , 188, 5528-37	5.3	37
274	The catalytic cycle for ribonucleotide incorporation by human DNA Pol δ . <i>Nucleic Acids Research</i> , 2012 , 40, 7518-27	20.1	34
273	A function for cyclin D1 in DNA repair uncovered by protein interactome analyses in human cancers. <i>Nature</i> , 2011 , 474, 230-4	50.4	247
272	FEN nucleases: bind, bend, fray, cut. <i>Cell</i> , 2011 , 145, 171-2	56.2	15
271	Malaria drug resistance is associated with defective DNA mismatch repair. <i>Molecular and Biochemical Parasitology</i> , 2011 , 177, 143-7	1.9	32
270	Modeling of the DNA-binding site of yeast Pms1 by mass spectrometry. <i>DNA Repair</i> , 2011 , 10, 454-65	4.3	11
269	Mismatch repair-independent tandem repeat sequence instability resulting from ribonucleotide incorporation by DNA polymerase β . <i>DNA Repair</i> , 2011 , 10, 476-82	4.3	54
268	The in vitro fidelity of yeast DNA polymerase β and polymerase δ holoenzymes during dinucleotide microsatellite DNA synthesis. <i>DNA Repair</i> , 2011 , 10, 497-505	4.3	24
267	Lesion bypass by <i>S. cerevisiae</i> Pol β alone. <i>DNA Repair</i> , 2011 , 10, 826-34	4.3	29
266	Replication of ribonucleotide-containing DNA templates by yeast replicative polymerases. <i>DNA Repair</i> , 2011 , 10, 897-902	4.3	44
265	Balancing eukaryotic replication asymmetry with replication fidelity. <i>Current Opinion in Chemical Biology</i> , 2011 , 15, 620-6	9.7	39
264	Kinetic analysis of the unique error signature of human DNA polymerase δ . <i>Biochemistry</i> , 2011 , 50, 10126-35	3.5	11
263	Mutagenic processing of ribonucleotides in DNA by yeast topoisomerase I. <i>Science</i> , 2011 , 332, 1561-4	33.3	215
262	Mechanisms of mutagenesis in vivo due to imbalanced dNTP pools. <i>Nucleic Acids Research</i> , 2011 , 39, 1360-71	6.1	135
261	Molecular breeding of polymerases for resistance to environmental inhibitors. <i>Nucleic Acids Research</i> , 2011 , 39, e51	20.1	51
260	Replication infidelity via a mismatch with Watson-Crick geometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 1862-7	11.5	122

259	Unexpected role for Helicobacter pylori DNA polymerase I as a source of genetic variability. <i>PLoS Genetics</i> , 2011 , 7, e1002152	6	22
258	The major roles of DNA polymerases epsilon and delta at the eukaryotic replication fork are evolutionarily conserved. <i>PLoS Genetics</i> , 2011 , 7, e1002407	6	118
257	Genome instability due to ribonucleotide incorporation into DNA. <i>Nature Chemical Biology</i> , 2010 , 6, 774-81.7	81.7	292
256	Evolutionary conservation of residues in vertebrate DNA polymerase N conferring low fidelity and bypass activity. <i>Nucleic Acids Research</i> , 2010 , 38, 3233-44	20.1	22
255	Genome-wide model for the normal eukaryotic DNA replication fork. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 17674-9	11.5	76
254	Loop 1 modulates the fidelity of DNA polymerase lambda. <i>Nucleic Acids Research</i> , 2010 , 38, 5419-31	20.1	29
253	Interaction between DNA Polymerase lambda and anticancer nucleoside analogs. <i>Journal of Biological Chemistry</i> , 2010 , 285, 16874-9	5.4	13
252	Differential correction of lagging-strand replication errors made by DNA polymerases {alpha} and {delta}. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 21070-5	11.5	67
251	Mismatch repair-independent increase in spontaneous mutagenesis in yeast lacking non-essential subunits of DNA polymerase β . <i>PLoS Genetics</i> , 2010 , 6, e1001209	6	55
250	Abundant ribonucleotide incorporation into DNA by yeast replicative polymerases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 4949-54	11.5	303
249	An Msh2 conditional knockout mouse for studying intestinal cancer and testing anticancer agents. <i>Gastroenterology</i> , 2010 , 138, 993-1002.e1	13.3	68
248	Inhibition of short patch and long patch base excision repair by an oxidized abasic site. <i>Biochemistry</i> , 2010 , 49, 9904-10	3.2	27
247	A genetic screen identifies FAN1, a Fanconi anemia-associated nuclease necessary for DNA interstrand crosslink repair. <i>Molecular Cell</i> , 2010 , 39, 36-47	17.6	261
246	SnapShot: DNA mismatch repair. <i>Cell</i> , 2010 , 141, 730.e1	56.2	71
245	Refolding active human DNA polymerase nu from inclusion bodies. <i>Protein Expression and Purification</i> , 2010 , 70, 163-71	2	8
244	Mutator phenotypes due to DNA replication infidelity. <i>Seminars in Cancer Biology</i> , 2010 , 20, 304-11	12.7	68
243	Functional residues on the surface of the N-terminal domain of yeast Pms1. <i>DNA Repair</i> , 2010 , 9, 448-57	4.3	21
242	Eukaryotic DNA Replication Fidelity. <i>FASEB Journal</i> , 2010 , 24, 67.1	0.9	

241	The efficiency and fidelity of 8-oxo-guanine bypass by DNA polymerases delta and eta. <i>Nucleic Acids Research</i> , 2009 , 37, 2830-40	20.1	77
240	Low-fidelity DNA synthesis by the L979F mutator derivative of <i>Saccharomyces cerevisiae</i> DNA polymerase zeta. <i>Nucleic Acids Research</i> , 2009 , 37, 3774-87	20.1	23
239	Template strand scrunching during DNA gap repair synthesis by human polymerase lambda. <i>Nature Structural and Molecular Biology</i> , 2009 , 16, 967-72	17.6	45
238	Evolving views of DNA replication (in)fidelity. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2009 , 74, 91-101	3.9	115
237	Characterization of a natural mutator variant of human DNA polymerase lambda which promotes chromosomal instability by compromising NHEJ. <i>PLoS ONE</i> , 2009 , 4, e7290	3.7	15
236	The fidelity of DNA synthesis by eukaryotic replicative and translesion synthesis polymerases. <i>Cell Research</i> , 2008 , 18, 148-61	24.7	382
235	Substrate-induced DNA strand misalignment during catalytic cycling by DNA polymerase lambda. <i>EMBO Reports</i> , 2008 , 9, 459-64	6.5	34
234	Catalytic mechanism of human DNA polymerase lambda with Mg ²⁺ and Mn ²⁺ from ab initio quantum mechanical/molecular mechanical studies. <i>DNA Repair</i> , 2008 , 7, 1824-34	4.3	50
233	Dividing the workload at a eukaryotic replication fork. <i>Trends in Cell Biology</i> , 2008 , 18, 521-7	18.3	212
232	Direct visualization of asymmetric adenine-nucleotide-induced conformational changes in MutL alpha. <i>Molecular Cell</i> , 2008 , 29, 112-21	17.6	103
231	Division of labor at the eukaryotic replication fork. <i>Molecular Cell</i> , 2008 , 30, 137-44	17.6	353
230	Trace amounts of 8-oxo-dGTP in mitochondrial dNTP pools reduce DNA polymerase gamma replication fidelity. <i>Nucleic Acids Research</i> , 2008 , 36, 2174-81	20.1	65
229	Characterization of a replicative DNA polymerase mutant with reduced fidelity and increased translesion synthesis capacity. <i>Nucleic Acids Research</i> , 2008 , 36, 3892-904	20.1	23
228	Tolerance for 8-oxoguanine but not thymine glycol in alignment-based gap filling of partially complementary double-strand break ends by DNA polymerase lambda in human nuclear extracts. <i>Nucleic Acids Research</i> , 2008 , 36, 2895-905	20.1	15
227	DNA polymerase epsilon: a polymerase of unusual size (and complexity). <i>Progress in Molecular Biology and Translational Science</i> , 2008 , 82, 101-45		61
226	Low-fidelity DNA synthesis by human DNA polymerase theta. <i>Nucleic Acids Research</i> , 2008 , 36, 3847-56	20.1	106
225	Recurrence of secondary angiosarcoma in a patient with post-radiated breast for breast cancer. <i>Archives of Gynecology and Obstetrics</i> , 2008 , 278, 497-501	2.5	12
224	<i>Saccharomyces cerevisiae</i> MutLalpha is a mismatch repair endonuclease. <i>Journal of Biological Chemistry</i> , 2007 , 282, 37181-90	5.4	183

223	5-ASA affects cell cycle progression in colorectal cells by reversibly activating a replication checkpoint. <i>Gastroenterology</i> , 2007 , 132, 221-35	13.3	62
222	Structural insight into the substrate specificity of DNA Polymerase mu. <i>Nature Structural and Molecular Biology</i> , 2007 , 14, 45-53	17.6	82
221	RNA-templated DNA repair. <i>Nature</i> , 2007 , 447, 338-41	50.4	161
220	A unique error signature for human DNA polymerase nu. <i>DNA Repair</i> , 2007 , 6, 213-23	4.3	40
219	Specialized mismatch repair function of Glu339 in the Phe-X-Glu motif of yeast Msh6. <i>DNA Repair</i> , 2007 , 6, 293-303	4.3	9
218	Replication of 2-hydroxyadenine-containing DNA and recognition by human MutSalpha. <i>DNA Repair</i> , 2007 , 6, 355-66	4.3	20
217	Role of the catalytic metal during polymerization by DNA polymerase lambda. <i>DNA Repair</i> , 2007 , 6, 1333-40	4.3	51
216	The X family portrait: structural insights into biological functions of X family polymerases. <i>DNA Repair</i> , 2007 , 6, 1709-25	4.3	145
215	Mutator alleles of yeast DNA polymerase zeta. <i>DNA Repair</i> , 2007 , 6, 1829-38	4.3	37
214	Inefficient proofreading and biased error rates during inaccurate DNA synthesis by a mutant derivative of <i>Saccharomyces cerevisiae</i> DNA polymerase delta. <i>Journal of Biological Chemistry</i> , 2007 , 282, 2324-32	5.4	68
213	Multiple functions for the N-terminal region of Msh6. <i>Nucleic Acids Research</i> , 2007 , 35, 4114-23	20.1	19
212	Regulation of B family DNA polymerase fidelity by a conserved active site residue: characterization of M644W, M644L and M644F mutants of yeast DNA polymerase epsilon. <i>Nucleic Acids Research</i> , 2007 , 35, 3076-86	20.1	33
211	Yeast DNA polymerase epsilon participates in leading-strand DNA replication. <i>Science</i> , 2007 , 317, 127-30	33.3	410
210	Effects of accessory proteins on the bypass of a cis-syn thymine-thymine dimer by <i>Saccharomyces cerevisiae</i> DNA polymerase eta. <i>Biochemistry</i> , 2007 , 46, 8888-96	3.2	21
209	Exonuclease-1 deletion impairs DNA damage signaling and prolongs lifespan of telomere-dysfunctional mice. <i>Cell</i> , 2007 , 130, 863-77	56.2	127
208	Evidence that errors made by DNA polymerase alpha are corrected by DNA polymerase delta. <i>Current Biology</i> , 2006 , 16, 202-7	6.3	136
207	Mechanism of a genetic glissando: structural biology of indel mutations. <i>Trends in Biochemical Sciences</i> , 2006 , 31, 206-14	10.3	130
206	Evidence for extrinsic exonucleolytic proofreading. <i>Cell Cycle</i> , 2006 , 5, 958-62	4.7	39

205	Promiscuous mismatch extension by human DNA polymerase lambda. <i>Nucleic Acids Research</i> , 2006 , 34, 3259-66	20.1	32
204	Participation of mouse DNA polymerase iota in strand-biased mutagenic bypass of UV photoproducts and suppression of skin cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 18083-8	11.5	90
203	Increased susceptibility to UV-induced skin carcinogenesis in polymerase eta-deficient mice. <i>Cancer Research</i> , 2006 , 66, 87-94	10.1	87
202	The fidelity of DNA synthesis by yeast DNA polymerase zeta alone and with accessory proteins. <i>Nucleic Acids Research</i> , 2006 , 34, 4731-42	20.1	102
201	RPA and PCNA suppress formation of large deletion errors by yeast DNA polymerase delta. <i>Nucleic Acids Research</i> , 2006 , 34, 4335-41	20.1	59
200	Measuring the fidelity of translesion DNA synthesis. <i>Methods in Enzymology</i> , 2006 , 408, 341-55	1.7	10
199	Mapping the dimer interface in the C-terminal domains of the yeast MLH1-PMS1 heterodimer. <i>Biochemistry</i> , 2006 , 45, 15458-67	3.2	11
198	Structural analysis of strand misalignment during DNA synthesis by a human DNA polymerase. <i>Cell</i> , 2006 , 124, 331-42	56.2	86
197	Multiple solutions to inefficient lesion bypass by T7 DNA polymerase. <i>DNA Repair</i> , 2006 , 5, 1373-83	4.3	16
196	A gradient of template dependence defines distinct biological roles for family X polymerases in nonhomologous end joining. <i>Molecular Cell</i> , 2005 , 19, 357-66	17.6	259
195	Structure-function studies of DNA polymerase lambda. <i>DNA Repair</i> , 2005 , 4, 1358-67	4.3	60
194	DNA mismatch repair. <i>Annual Review of Biochemistry</i> , 2005 , 74, 681-710	29.1	1014
193	A closed conformation for the Pol lambda catalytic cycle. <i>Nature Structural and Molecular Biology</i> , 2005 , 12, 97-8	17.6	127
192	A lysine residue in the fingers subdomain of T7 DNA polymerase modulates the miscoding potential of 8-oxo-7,8-dihydroguanosine. <i>Structure</i> , 2005 , 13, 1653-9	5.2	35
191	Expression of human AID in yeast induces mutations in context similar to the context of somatic hypermutation at G-C pairs in immunoglobulin genes. <i>BMC Immunology</i> , 2005 , 6, 10	3.7	27
190	DNA replication and repair reactions relevant to the AHS. <i>Journal of Biochemical and Molecular Toxicology</i> , 2005 , 19, 190-1	3.4	1
189	<i>Saccharomyces cerevisiae</i> DNA polymerase delta: high fidelity for base substitutions but lower fidelity for single- and multi-base deletions. <i>Journal of Biological Chemistry</i> , 2005 , 280, 29980-7	5.4	103
188	Biochemical properties of <i>Saccharomyces cerevisiae</i> DNA polymerase IV. <i>Journal of Biological Chemistry</i> , 2005 , 280, 20051-8	5.4	52

187	DNA precursor asymmetries in mammalian tissue mitochondria and possible contribution to mutagenesis through reduced replication fidelity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 4990-5	11.5	130
186	The multiple biological roles of the 3P->5P exonuclease of <i>Saccharomyces cerevisiae</i> DNA polymerase delta require switching between the polymerase and exonuclease domains. <i>Molecular and Cellular Biology</i> , 2005 , 25, 461-71	4.8	59
185	Pol iota is a candidate for the mouse pulmonary adenoma resistance 2 locus, a major modifier of chemically induced lung neoplasia. <i>Cancer Research</i> , 2004 , 64, 1924-31	10.1	53
184	Cadmium inhibits the functions of eukaryotic MutS complexes. <i>Journal of Biological Chemistry</i> , 2004 , 279, 53903-6	5.4	38
183	Implication of DNA polymerase lambda in alignment-based gap filling for nonhomologous DNA end joining in human nuclear extracts. <i>Journal of Biological Chemistry</i> , 2004 , 279, 805-11	5.4	173
182	Efficiency, Fidelity and Enzymatic Switching During Translesion DNA Synthesis. <i>Cell Cycle</i> , 2004 , 3, 578-581	17	19
181	Recombinogenic phenotype of human activation-induced cytosine deaminase. <i>Journal of Immunology</i> , 2004 , 172, 4308-13	5.3	45
180	An Msh2 point mutation uncouples DNA mismatch repair and apoptosis. <i>Cancer Research</i> , 2004 , 64, 517-20	20.1	150
179	Enzymatic switching for efficient and accurate translesion DNA replication. <i>Nucleic Acids Research</i> , 2004 , 32, 4665-75	20.1	74
178	Investigating the role of the little finger domain of Y-family DNA polymerases in low fidelity synthesis and translesion replication. <i>Journal of Biological Chemistry</i> , 2004 , 279, 32932-40	5.4	104
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10	Mutagenesis in vitro by depurination of phiX174 dna. <i>Nature</i> , 1981 , 291, 349-51	50.4	58
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6	Distinctive properties of mammalian DNA polymerases. <i>Nucleic Acids and Protein Synthesis</i> , 1979 , 561, 369-82		48
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