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**A helical arch allowing single-stranded DNA to thread through T5 5'-exonuclease**

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#	Paper	IF	Citations
173	Methods and reagents. Eliminating ghost bands from plasmid preps. <i>Trends in Biochemical Sciences</i> , <b>1996</b> , 21, 441-2	10.3	4
172	Paper Alert. <b>1996</b> , 4, 1117-1120		
171	Deoxy- and dideoxynucleotide discrimination and identification of critical 5Pnuclease domain residues of the DNA polymerase I from <i>Mycobacterium tuberculosis</i> . <i>Nucleic Acids Research</i> , <b>1996</b> , 24, 4845-52	20.1	37
170	Mechanism of tracking and cleavage of adduct-damaged DNA substrates by the mammalian 5P to 3Pexonuclease/endonuclease RAD2 homologue 1 or flap endonuclease 1. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 29624-31	5.4	41
169	Nucleotide excision repair in mammalian cells. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 23465-8	5.4	318
168	Enzymes and reactions at the eukaryotic DNA replication fork. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 4647-50	5.4	278
167	The 5Pexonuclease activity of bacteriophage T4 RNase H is stimulated by the T4 gene 32 single-stranded DNA-binding protein, but its flap endonuclease is inhibited. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 28523-30	5.4	21
166	Identification of residues of T4 RNase H required for catalysis and DNA binding. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 28531-8	5.4	34
165	Functional analysis of point mutations in human flap endonuclease-1 active site. <i>Nucleic Acids Research</i> , <b>1997</b> , 25, 3332-8	20.1	87
164	Structure-specific DNA binding by bacteriophage T5 5P->3Pexonuclease. <i>Nucleic Acids Research</i> , <b>1997</b> , 25, 3801-7	20.1	22
163	Prokaryotic 5P3Pexonucleases share a common core structure with gamma-delta resolvase. <i>Nucleic Acids Research</i> , <b>1997</b> , 25, 4224-9	20.1	19
162	Biochemical and mutational studies of the 5P3Pexonuclease of DNA polymerase I of <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , <b>1997</b> , 268, 284-302	6.5	49
161	Nucleus and gene expression. <b>1997</b> , 9, 433-471		
160	DNA excision repair pathways. <b>1997</b> , 7, 158-69		223
159	Folding and binding. <i>Current Opinion in Structural Biology</i> , <b>1997</b> , 7, 137-165	8.1	
158	Protein-nucleic acid interactions. <i>Current Opinion in Structural Biology</i> , <b>1997</b> , 7, 165-177	8.1	
157	Catalysis and regulation. <i>Current Opinion in Structural Biology</i> , <b>1997</b> , 7, 891-902	8.1	

156	Repeat expansion--all in a flap?. <b>1997</b> , 16, 116-8		185
155	Plasmid rolling circle replication: identification of the RNA polymerase-directed primer RNA and requirement for DNA polymerase I for lagging strand synthesis. <b>1997</b> , 16, 5784-95		75
154	The FEN-1 family of structure-specific nucleases in eukaryotic DNA replication, recombination and repair. <b>1997</b> , 19, 233-40		399
153	DNA recognition by structure-selective nucleases. <b>1997</b> , 44, 405-21		31
152	A novel DNA-binding motif shares structural homology to DNA replication and repair nucleases and polymerases. <b>1998</b> , 5, 959-64		41
151	Flexible loops and helical arches. <i>Nature Structural and Molecular Biology</i> , <b>1998</b> , 5, 668-70	17.6	16
150	The crystal structure of flap endonuclease-1 from <i>Methanococcus jannaschii</i> . <i>Nature Structural and Molecular Biology</i> , <b>1998</b> , 5, 707-13	17.6	132
149	Multiprotein reactions in mammalian DNA replication. <b>1998</b> , 22, 1-5		15
148	Flap endonuclease homologs in archaeobacteria exist as independent proteins. <i>Trends in Biochemical Sciences</i> , <b>1998</b> , 23, 171-3	10.3	61
147	Structure-specific DNA cleavage by 5Pnucleases. <i>Trends in Biochemical Sciences</i> , <b>1998</b> , 23, 331-6	10.3	54
146	Polymerases and the replisome: machines within machines. <i>Cell</i> , <b>1998</b> , 92, 295-305	56.2	281
145	Structure of the DNA repair and replication endonuclease and exonuclease FEN-1: coupling DNA and PCNA binding to FEN-1 activity. <i>Cell</i> , <b>1998</b> , 95, 135-46	56.2	241
144	Fold and function predictions for <i>Mycoplasma genitalium</i> proteins. <b>1998</b> , 3, 229-38		80
143	Metal Activation of Enzymes in Nucleic Acid Biochemistry. <b>1998</b> , 98, 1067-1088		358
142	Salt-stable complexes of the <i>Escherichia coli</i> RecBCD enzyme bound to double-stranded DNA. <b>1998</b> , 350, 266-72		3
141	Crosslinking the EcoRV restriction endonuclease across the DNA-binding site reveals transient intermediates and conformational changes of the enzyme during DNA binding and catalytic turnover. <b>1998</b> , 17, 6757-66		14
140	Hex1: a new human Rad2 nuclease family member with homology to yeast exonuclease 1. <i>Nucleic Acids Research</i> , <b>1998</b> , 26, 3762-8	20.1	88
139	Newly discovered archaeobacterial flap endonucleases show a structure-specific mechanism for DNA substrate binding and catalysis resembling human flap endonuclease-1. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 27154-61	5.4	60

138	Partial functional deficiency of E160D flap endonuclease-1 mutant in vitro and in vivo is due to defective cleavage of DNA substrates. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 33064-72	5-4	37
137	DNA structure specificity of Rap endonuclease. <i>Nucleic Acids Research</i> , <b>1999</b> , 27, 4121-7	20.1	11
136	A single cleavage assay for T5 5P->3P exonuclease: determination of the catalytic parameters for wild-type and mutant proteins. <i>Nucleic Acids Research</i> , <b>1999</b> , 27, 730-5	20.1	23
135	Did DNA replication evolve twice independently?. <i>Nucleic Acids Research</i> , <b>1999</b> , 27, 3389-401	20.1	280
134	Cleavage of substrates with mismatched nucleotides by Flap endonuclease-1. Implications for mammalian Okazaki fragment processing. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 14602-8	5-4	25
133	Comparison of the 5' nuclease activities of taq DNA polymerase and its isolated nuclease domain. <b>1999</b> , 96, 6143-8		72
132	A comparison of eubacterial and archaeal structure-specific 5' P exonucleases. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 21387-94	5-4	115
131	Conserved residues of human XPG protein important for nuclease activity and function in nucleotide excision repair. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 5637-48	5-4	83
130	Mutagenesis of conserved lysine residues in bacteriophage T5 5' P3 exonuclease suggests separate mechanisms of endo- and exonucleolytic cleavage. <b>1999</b> , 96, 38-43		28
129	Variation in the steady state kinetic parameters of wild type and mutant T5 5' P3 exonuclease with pH. Protonation of Lys-83 is critical for DNA binding. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 17711-7	5-4	7
128	Polymorphism identification and quantitative detection of genomic DNA by invasive cleavage of oligonucleotide probes. <b>1999</b> , 17, 292-6		418
127	DNA repair systems in archaea: mementos from the last universal common ancestor?. <b>1999</b> , 49, 474-84		50
126	Structure of DNA-dependent protein kinase: implications for its regulation by DNA. <b>1999</b> , 18, 1114-23		92
125	Similarity relations of DNA and RNA polymerases investigated by the principal component analysis of amino acid sequences. <b>1999</b> , 1434, 221-47		7
124	Effect of flap modifications on human FEN1 cleavage. <i>Biochemistry</i> , <b>1999</b> , 38, 13347-54	3.2	68
123	<i>Saccharomyces cerevisiae</i> RNase H(35) functions in RNA primer removal during lagging-strand DNA synthesis, most efficiently in cooperation with Rad27 nuclease. <b>1999</b> , 19, 8361-71		138
122	Active-site mutations in the Xrn1p exoribonuclease of <i>Saccharomyces cerevisiae</i> reveal a specific role in meiosis. <b>1999</b> , 19, 5930-42		48
121	Structure of <i>Escherichia coli</i> exonuclease I suggests how processivity is achieved. <b>2000</b> , 7, 1125-8		73

120	Mechanism whereby proliferating cell nuclear antigen stimulates flap endonuclease 1. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 10498-505	5.4	135
119	Inhibition of flap endonuclease 1 by flap secondary structure and relevance to repeat sequence expansion. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 16420-7	5.4	89
118	Coordination between the polymerase and 5Pnuclease components of DNA polymerase I of <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 20949-55	5.4	31
117	Common fold in helix-hairpin-helix proteins. <i>Nucleic Acids Research</i> , <b>2000</b> , 28, 2643-50	20.1	103
116	Induced mutagenic effects in the nucleotide excision repair deficient <i>Drosophila</i> mutant mus201(D1), expressing a truncated XPG protein. <b>2001</b> , 461, 279-88		15
115	Human flap endonuclease-1: conformational change upon binding to the flap DNA substrate and location of the Mg <sup>2+</sup> binding site. <i>Biochemistry</i> , <b>2001</b> , 40, 3208-14	3.2	23
114	Unusually wide co-factor tolerance in a metalloenzyme; divalent metal ions modulate endo-exonuclease activity in T5 exonuclease. <i>Nucleic Acids Research</i> , <b>2001</b> , 29, 2772-9	20.1	9
113	Identification of rad27 mutations that confer differential defects in mutation avoidance, repeat tract instability, and flap cleavage. <b>2001</b> , 21, 4889-99		56
112	Bacteriophage T4 RNase H removes both RNA primers and adjacent DNA from the 5Pend of lagging strand fragments. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 28516-24	5.4	25
111	Contacts between the 5Pnuclease of DNA polymerase I and its DNA substrate. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 30167-77	5.4	31
110	Biochemical analysis of point mutations in the 5P3Pexonuclease of DNA polymerase I of <i>Streptococcus pneumoniae</i> . Functional and structural implications. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 19172-81	5.4	11
109	Stimulation of eukaryotic flap endonuclease-1 activities by proliferating cell nuclear antigen (PCNA) is independent of its in vitro interaction via a consensus PCNA binding region. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 36295-302	5.4	48
108	DNA damage recognition and repair pathway coordination revealed by the structural biochemistry of DNA repair enzymes. <b>2001</b> , 68, 315-47		26
107	Interactions of mutant and wild-type flap endonucleases with oligonucleotide substrates suggest an alternative model of DNA binding. <b>2002</b> , 99, 8542-7		24
106	The crystal structure of exonuclease RecJ bound to Mn <sup>2+</sup> ion suggests how its characteristic motifs are involved in exonuclease activity. <b>2002</b> , 99, 5908-12		69
105	mRNA degradation by the virion host shutoff (Vhs) protein of herpes simplex virus: genetic and biochemical evidence that Vhs is a nuclease. <i>Journal of Virology</i> , <b>2002</b> , 76, 8560-71	6.6	132
104	Arginine residues 47 and 70 of human flap endonuclease-1 are involved in DNA substrate interactions and cleavage site determination. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 24659-66	5.4	16
103	Molecular interactions of human Exo1 with DNA. <i>Nucleic Acids Research</i> , <b>2002</b> , 30, 942-9	20.1	55

102	Cleavage specificity of <i>Saccharomyces cerevisiae</i> flap endonuclease 1 suggests a double-flap structure as the cellular substrate. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 14379-89	5.4	122
101	Molecular structure and novel DNA binding sites located in loops of flap endonuclease-1 from <i>Pyrococcus horikoshii</i> . <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 37840-7	5.4	27
100	Distinct roles of two Mg <sup>2+</sup> binding sites in regulation of murine flap endonuclease-1 activities. <i>Biochemistry</i> , <b>2002</b> , 41, 10323-31	3.2	29
99	A conserved tyrosine residue aids ternary complex formation, but not catalysis, in phage T5 flap endonuclease. <i>Journal of Molecular Biology</i> , <b>2002</b> , 320, 1025-35	6.5	12
98	Molecular evolution before the origin of species. <b>2002</b> , 79, 77-133		41
97	Suppression of <i>Saccharomyces cerevisiae</i> rad27 null mutant phenotypes by the 5Pnuclease domain of <i>Escherichia coli</i> DNA polymerase I. <b>2002</b> , 41, 379-88		5
96	Archaeal DNA replication: spotlight on a rapidly moving field. <b>2002</b> , 6, 1-14		32
95	Structural and catalytic chemistry of magnesium-dependent enzymes. <b>2002</b> , 15, 225-35		265
94	The flexible loop of human FEN1 endonuclease is required for flap cleavage during DNA replication and repair. <b>2002</b> , 21, 5930-42		37
93	Dynamic evidence for metal ion catalysis in the reaction mediated by a flap endonuclease. <b>2003</b> , 22, 995-1004		29
92	Single-strand-specific nucleases. <b>2003</b> , 26, 457-91		127
91	The acetyltable lysines of human Fen1 are important for endo- and exonuclease activities. <i>Journal of Molecular Biology</i> , <b>2003</b> , 328, 73-84	6.5	44
90	Modeling of flap endonuclease interactions with DNA substrate. <i>Journal of Molecular Biology</i> , <b>2003</b> , 328, 537-54	6.5	34
89	The protein components and mechanism of eukaryotic Okazaki fragment maturation. <b>2003</b> , 38, 433-52		73
88	Structure-specific DNA-induced conformational changes in Taq polymerase revealed by small angle neutron scattering. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 39146-54	5.4	25
87	The Fen1 extrahelical 3Pflap pocket is conserved from archaea to human and regulates DNA substrate specificity. <i>Nucleic Acids Research</i> , <b>2004</b> , 32, 2520-8	20.1	25
86	Aromatic residues located close to the active center are essential for the catalytic reaction of flap endonuclease-1 from hyperthermophilic archaeon <i>Pyrococcus horikoshii</i> . <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 16687-96	5.4	5
85	Dna2p helicase/nuclease is a tracking protein, like FEN1, for flap cleavage during Okazaki fragment maturation. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 50840-9	5.4	65

84	Distant structural homology leads to the functional characterization of an archaeal PIN domain as an exonuclease. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 16471-8	5.4	96
83	<i>Saccharomyces cerevisiae</i> flap endonuclease 1 uses flap equilibration to maintain triplet repeat stability. <b>2004</b> , 24, 4049-64		64
82	Interaction interface of human flap endonuclease-1 with its DNA substrates. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 24394-402	5.4	19
81	Roles of divalent metal ions in flap endonuclease-substrate interactions. <i>Nature Structural and Molecular Biology</i> , <b>2004</b> , 11, 450-6	17.6	46
80	Crystal structure of a PIN (PilT N-terminus) domain (AF0591) from <i>Archaeoglobus fulgidus</i> at 1.90 Å resolution. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2004</b> , 56, 404-8	4.2	26
79	Wheat ( <i>Triticum vulgare</i> ) chloroplast nuclease ChSI exhibits 5Pflap structure-specific endonuclease activity. <i>Biochemistry</i> , <b>2004</b> , 43, 11283-94	3.2	7
78	Meiotic recombination intermediates and mismatch repair proteins. <b>2004</b> , 107, 232-48		84
77	Flap endonuclease 1: a central component of DNA metabolism. <i>Annual Review of Biochemistry</i> , <b>2004</b> , 73, 589-615	29.1	297
76	Structural basis for FEN-1 substrate specificity and PCNA-mediated activation in DNA replication and repair. <i>Cell</i> , <b>2004</b> , 116, 39-50	56.2	232
75	Structural basis for recruitment of human flap endonuclease 1 to PCNA. <b>2005</b> , 24, 683-93		201
74	Multiple but dissectible functions of FEN-1 nucleases in nucleic acid processing, genome stability and diseases. <b>2005</b> , 27, 717-29		110
73	The spacer region of XPG mediates recruitment to nucleotide excision repair complexes and determines substrate specificity. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 7030-7	5.4	52
72	The preparation of heavy-atom derivatives of protein crystals for use in multiple isomorphous replacement and anomalous scattering. <b>2006</b> , 247-255		3
71	Structure-specific DNA nucleases: structural basis for 3D-scissors. <i>Current Opinion in Structural Biology</i> , <b>2006</b> , 16, 60-7	8.1	22
70	Crystal structure of bacteriophage T4 5Pnuclease in complex with a branched DNA reveals how flap endonuclease-1 family nucleases bind their substrates. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 31713-24	5.4	46
69	Molecular interactions of <i>Escherichia coli</i> ExoIX and identification of its associated 3P5P exonuclease activity. <i>Nucleic Acids Research</i> , <b>2007</b> , 35, 4094-102	20.1	11
68	Domain swapping between FEN-1 and XPG defines regions in XPG that mediate nucleotide excision repair activity and substrate specificity. <i>Nucleic Acids Research</i> , <b>2007</b> , 35, 3053-63	20.1	38
67	Comparison of the catalytic parameters and reaction specificities of a phage and an archaeal flap endonuclease. <i>Journal of Molecular Biology</i> , <b>2007</b> , 371, 34-48	6.5	19

66	Crystal structure of the PIN domain of human telomerase-associated protein EST1A. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2007</b> , 68, 980-9	4.2	22
65	Crystallization and preliminary crystallographic analysis of the catalytic domain of human flap endonuclease 1 in complex with a nicked DNA product: use of a DPCS kit for efficient protein-DNA complex crystallization. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , <b>2008</b> , 64, 39-43		3
64	Crystal structure of PAE0151 from <i>Pyrobaculum aerophilum</i> , a PIN-domain (VapC) protein from a toxin-antitoxin operon. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2008</b> , 72, 510-8	4.2	41
63	Catalytic mechanism of cyclic di-GMP-specific phosphodiesterase: a study of the EAL domain-containing RocR from <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , <b>2008</b> , 190, 3622-31	3.5	172
62	Three metal ions participate in the reaction catalyzed by T5 flap endonuclease. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 28741-6	5.4	41
61	An Integrated Look at Metallonuclease Mechanism. <i>Current Chemical Biology</i> , <b>2008</b> , 2, 159-173	0.4	7
60	The 3Pflap pocket of human flap endonuclease 1 is critical for substrate binding and catalysis. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 22184-22194	5.4	44
59	Effects of magnesium and related divalent metal ions in topoisomerase structure and function. <i>Nucleic Acids Research</i> , <b>2009</b> , 37, 702-11	20.1	115
58	Crystallization and preliminary X-ray analysis of flap endonuclease 1 (FEN1) from <i>Desulfurococcus amylolyticus</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , <b>2009</b> , 65, 923-5		2
57	Active site substitutions delineate distinct classes of eubacterial flap endonuclease. <i>Biochemical Journal</i> , <b>2009</b> , 418, 285-92	3.8	15
56	Substrate recognition and catalysis by flap endonucleases and related enzymes. <i>Biochemical Society Transactions</i> , <b>2010</b> , 38, 433-7	5.1	38
55	Dna2 is a structure-specific nuclease, with affinity for 5Pflap intermediates. <i>Nucleic Acids Research</i> , <b>2010</b> , 38, 920-30	20.1	35
54	Flap endonuclease 1 mechanism analysis indicates flap base binding prior to threading. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 34922-31	5.4	30
53	Brüsted analysis and rate-limiting steps for the T5 flap endonuclease catalyzed hydrolysis of exonucleolytic substrates. <i>Biochemistry</i> , <b>2010</b> , 49, 8085-93	3.2	19
52	One is enough: insights into the two-metal ion nuclease mechanism from global analysis and computational studies. <i>Metallomics</i> , <b>2010</b> , 2, 609-20	4.5	46
51	Nucleases: diversity of structure, function and mechanism. <i>Quarterly Reviews of Biophysics</i> , <b>2011</b> , 44, 1-93	7	343
50	Structures of human exonuclease 1 DNA complexes suggest a unified mechanism for nuclease family. <i>Cell</i> , <b>2011</b> , 145, 212-23	56.2	117
49	5?-3? Exoribonucleases. <i>Nucleic Acids and Molecular Biology</i> , <b>2011</b> , 167-192		5



48	The DNA Exonucleases of Escherichia coli. <i>EcoSal Plus</i> , <b>2011</b> , 4,	7.7	46
47	Regulation of endonuclease activity in human nucleotide excision repair. <i>DNA Repair</i> , <b>2011</b> , 10, 722-9	4.3	113
46	Structure of flap endonuclease 1 from the hyperthermophilic archaeon <i>Desulfurococcus amylolyticus</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , <b>2011</b> , 67, 209-13		6
45	Neutralizing mutations of carboxylates that bind metal 2 in T5 flap endonuclease result in an enzyme that still requires two metal ions. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 30878-30887	5.4	12
44	Flap endonucleases pass 5Pflaps through a flexible arch using a disorder-thread-order mechanism to confer specificity for free 5Pends. <i>Nucleic Acids Research</i> , <b>2012</b> , 40, 4507-19	20.1	39
43	Structural study of MCP1P1 N-terminal conserved domain reveals a PIN-like RNase. <i>Nucleic Acids Research</i> , <b>2012</b> , 40, 6957-65	20.1	64
42	The wonders of flap endonucleases: structure, function, mechanism and regulation. <i>Sub-Cellular Biochemistry</i> , <b>2012</b> , 62, 301-26	5.5	41
41	Biochemical analyses indicate that binding and cleavage specificities define the ordered processing of human Okazaki fragments by Dna2 and FEN1. <i>Nucleic Acids Research</i> , <b>2012</b> , 40, 6774-86	20.1	27
40	The Eukaryotic Replisome: a Guide to Protein Structure and Function. <i>Sub-Cellular Biochemistry</i> , <b>2012</b> ,	5.5	6
39	Structures of 5P3PExoribonucleases. <i>The Enzymes</i> , <b>2012</b> , 31, 115-29	2.3	4
38	Double strand binding-single strand incision mechanism for human flap endonuclease: implications for the superfamily. <i>Mechanisms of Ageing and Development</i> , <b>2012</b> , 133, 195-202	5.6	16
37	Unpairing and gating: sequence-independent substrate recognition by FEN superfamily nucleases. <i>Trends in Biochemical Sciences</i> , <b>2012</b> , 37, 74-84	10.3	52
36	Flap endonuclease 1. <i>Annual Review of Biochemistry</i> , <b>2013</b> , 82, 119-38	29.1	151
35	The nuclear-cytoplasmic shuttling of virion host shutoff RNase is enabled by pUL47 and an embedded nuclear export signal and defines the sites of degradation of AU-rich and stable cellular mRNAs. <i>Journal of Virology</i> , <b>2013</b> , 87, 13569-78	6.6	13
34	The structure of Escherichia coli ExoIX--implications for DNA binding and catalysis in flap endonucleases. <i>Nucleic Acids Research</i> , <b>2013</b> , 41, 8357-67	20.1	6
33	Proline scanning mutagenesis reveals a role for the flap endonuclease-1 helical cap in substrate unpairing. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 34239-34248	5.4	12
32	Nucleotide Excision Repair in Eukaryotes. <b>2014</b> , 267-315		
31	Flap endonuclease of bacteriophage T7: Possible roles in RNA primer removal, recombination and host DNA breakdown. <i>Bacteriophage</i> , <b>2014</b> , 4, e28507		3

30	Crystal structure of the catalytic core of Rad2: insights into the mechanism of substrate binding. <i>Nucleic Acids Research</i> , <b>2014</b> , 42, 10762-75	20.1	19
29	SRP RNA remodeling by SRP68 explains its role in protein translocation. <i>Science</i> , <b>2014</b> , 344, 101-4	33.3	29
28	Flap endonuclease activity of gene 6 exonuclease of bacteriophage T7. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 5860-75	5.4	7
27	Structural studies of DNA end detection and resection in homologous recombination. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2014</b> , 6, a017962	10.2	20
26	Crystal Structure of a Eukaryotic GEN1 Resolving Enzyme Bound to DNA. <i>Cell Reports</i> , <b>2015</b> , 13, 2565-2575	15.6	32
25	Rate-determining Step of Flap Endonuclease 1 (FEN1) Reflects a Kinetic Bias against Long Flaps and Trinucleotide Repeat Sequences. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 21154-21162	5.4	9
24	The UVS9 gene of <i>Chlamydomonas</i> encodes an XPG homolog with a new conserved domain. <i>DNA Repair</i> , <b>2016</b> , 37, 33-42	4.3	0
23	Direct observation of DNA threading in flap endonuclease complexes. <i>Nature Structural and Molecular Biology</i> , <b>2016</b> , 23, 640-6	17.6	22
22	Structural conservation of the PIN domain active site across all domains of life. <i>Protein Science</i> , <b>2017</b> , 26, 1474-1492	6.3	25
21	Crystal structure and mutational analysis of <i>Mycobacterium smegmatis</i> FenA highlight active site amino acids and three metal ions essential for flap endonuclease and 5'Pexonuclease activities. <i>Nucleic Acids Research</i> , <b>2018</b> , 46, 4164-4175	20.1	4
20	A monovalent ion in the DNA binding interface of the eukaryotic junction-resolving enzyme GEN1. <i>Nucleic Acids Research</i> , <b>2018</b> , 46, 11089-11098	20.1	3
19	Substrate specificity of human MCP1P1 endoribonuclease. <i>Scientific Reports</i> , <b>2018</b> , 8, 7381	4.9	24
18	T5 exonuclease-dependent assembly offers a low-cost method for efficient cloning and site-directed mutagenesis. <i>Nucleic Acids Research</i> , <b>2019</b> , 47, e15	20.1	73
17	Visual detection of based on dual-cycle signal amplification and T5 exonuclease.. <i>RSC Advances</i> , <b>2020</b> , 10, 35131-35135	3.7	0
16	A single digestion, single-stranded oligonucleotide mediated PCR-independent site-directed mutagenesis method. <i>Applied Microbiology and Biotechnology</i> , <b>2020</b> , 104, 3993-4003	5.7	1
15	PIN and CCCH Zn-finger domains coordinate RNA targeting in ZC3H12 family endoribonucleases. <i>Nucleic Acids Research</i> , <b>2021</b> , 49, 5369-5381	20.1	4
14	Biochemical characterization of a unique DNA polymerase A from the extreme radioresistant organism <i>Deinococcus radiodurans</i> . <i>Biochimie</i> , <b>2021</b> , 185, 22-32	4.6	1
13	Exo1-protected DNA nicks direct crossover formation in meiosis.		0

12	XPG: its products and biological roles. <i>Advances in Experimental Medicine and Biology</i> , <b>2008</b> , 637, 83-92	3.6	45
11	Role of Metal Ions in Promoting DNA Binding and Cleavage by Restriction Endonucleases. <i>Nucleic Acids and Molecular Biology</i> , <b>2004</b> , 339-360		9
10	Methanococcus jannaschii flap endonuclease: expression, purification, and substrate requirements. <i>Journal of Bacteriology</i> , <b>1998</b> , 180, 5406-12	3.5	12
9	A model for transition of 5Pnuclease domain of DNA polymerase I from inert to active modes. <i>PLoS ONE</i> , <b>2011</b> , 6, e16213	3.7	7
8	Human Holliday junction resolvase GEN1 uses a chromodomain for efficient DNA recognition and cleavage. <i>ELife</i> , <b>2015</b> , 4,	8.9	21
7	Multiwavelength Anomalous Diffraction in Macromolecular Crystallography. <b>1998</b> , 211-225		
6	Biochemical characterization and mutational analysis of a novel flap endonuclease 1 from Thermococcus barophilus Ch5.. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2022</b> , 143, 106154	5.6	0
5	Mechanistic decoupling of exonuclease III multifunctionality into AP endonuclease and exonuclease activities at the single-residue level.. <i>Nucleic Acids Research</i> , <b>2022</b> ,	20.1	0
4	First Characterization of a Phage Reveals Extraordinarily Large Burst Size and Unusual Plaque Polymorphism.. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 754331	5.7	1
3	The 5?-phosphate enhances the DNA-binding and exonuclease activities of human mitochondrial genome maintenance exonuclease 1 (MGME1). <b>2022</b> , 298, 102306		0
2	The role of size in biostability of DNA tetrahedra.		0
1	The role of size in biostability of DNA tetrahedra.		0