

# Lajos Haracska

## List of Publications by Year in descending order

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64  
papers

5,968  
citations

61984

43  
h-index

110387

64  
g-index

64  
all docs

64  
docs citations

64  
times ranked

3208  
citing authors

#	ARTICLE	IF	CITATIONS
1	Eukaryotic polymerases $\hat{\iota}^1$ and $\hat{\iota}^{\eta}$ act sequentially to bypass DNA lesions. <i>Nature</i> , 2000, 406, 1015-1019.	27.8	622
2	Efficient and accurate replication in the presence of 7,8-dihydro-8-oxoguanine by DNA polymerase $\hat{\iota}$ . <i>Nature Genetics</i> , 2000, 25, 458-461.	21.4	342
3	Yeast Rad5 Protein Required for Postreplication Repair Has a DNA Helicase Activity Specific for Replication Fork Regression. <i>Molecular Cell</i> , 2007, 28, 167-175.	9.7	252
4	Physical and Functional Interactions of Human DNA Polymerase $\hat{\iota}$ with PCNA. <i>Molecular and Cellular Biology</i> , 2001, 21, 7199-7206.	2.3	231
5	Polyubiquitinated PCNA Recruits the ZRANB3 Translocase to Maintain Genomic Integrity after Replication Stress. <i>Molecular Cell</i> , 2012, 47, 396-409.	9.7	227
6	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, 18107-18112.	7.1	204
7	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, 3768-3773.	7.1	201
8	Interaction with PCNA Is Essential for Yeast DNA Polymerase $\hat{\iota}$ Function. <i>Molecular Cell</i> , 2001, 8, 407-415.	9.7	199
9	Role of DNA Polymerase $\hat{\iota}$ in the Bypass of a (6-4) TT Photoproduct. <i>Molecular and Cellular Biology</i> , 2001, 21, 3558-3563.	2.3	190
10	Opposing Effects of Ubiquitin Conjugation and SUMO Modification of PCNA on Replication Bypass of DNA Lesions in <i>Saccharomyces cerevisiae</i> . <i>Molecular and Cellular Biology</i> , 2004, 24, 4267-4274.	2.3	189
11	Stimulation of DNA Synthesis Activity of Human DNA Polymerase $\hat{\iota}^{\eta}$ by PCNA. <i>Molecular and Cellular Biology</i> , 2002, 22, 784-791.	2.3	171
12	Role of Double-Stranded DNA Translocase Activity of Human HLTF in Replication of Damaged DNA. <i>Molecular and Cellular Biology</i> , 2010, 30, 684-693.	2.3	158
13	Role of yeast Rad5 and its human orthologs, HLTF and SHPRH in DNA damage tolerance. <i>DNA Repair</i> , 2010, 9, 257-267.	2.8	157
14	Role of human DNA polymerase $\hat{A}$ as an extender in translesion synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 16000-16005.	7.1	153
15	Yeast Rev1 Protein Is a C Template-specific DNA Polymerase. <i>Journal of Biological Chemistry</i> , 2002, 277, 15546-15551.	3.4	144
16	Replication past O 6 -Methylguanine by Yeast and Human DNA Polymerase $\hat{\iota}$ . <i>Molecular and Cellular Biology</i> , 2000, 20, 8001-8007.	2.3	137
17	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, 6477-6482.	7.1	124
18	Chemically ubiquitylated PCNA as a probe for eukaryotic translesion DNA synthesis. <i>Nature Chemical Biology</i> , 2010, 6, 270-272.	8.0	119

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19	Regulation of polymerase exchange between Pol $\delta$ and Pol $\epsilon$ by monoubiquitination of PCNA and the movement of DNA polymerase holoenzyme. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 5361-5366.	7.1	117
20	Roles of PCNA-binding and ubiquitin-binding domains in human DNA polymerase $\delta$ in translesion DNA synthesis. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17724-17729.	7.1	106
21	Inefficient Bypass of an Abasic Site by DNA Polymerase $\delta$ . Journal of Biological Chemistry, 2001, 276, 6861-6866.	3.4	105
22	Yeast DNA Polymerase $\delta$ Is an Efficient Extender of Primer Ends Opposite from 7,8-Dihydro-8-Oxoguanine and O 6 -Methylguanine. Molecular and Cellular Biology, 2003, 23, 1453-1459.	2.3	105
23	Mms2-Ubc13-Dependent and -Independent Roles of Rad5 Ubiquitin Ligase in Postreplication Repair and Translesion DNA Synthesis in <i>Saccharomyces cerevisiae</i> . Molecular and Cellular Biology, 2006, 26, 7783-7790.	2.3	100
24	Efficient and Error-Free Replication past a Minor-Groove N 2 -Guanine Adduct by the Sequential Action of Yeast Rev1 and DNA Polymerase $\delta$ . Molecular and Cellular Biology, 2004, 24, 6900-6906.	2.3	99
25	Separate Domains of Rev1 Mediate Two Modes of DNA Damage Bypass in Mammalian Cells. Molecular and Cellular Biology, 2009, 29, 3113-3123.	2.3	88
26	Characterization of human Spartan/C1orf124, an ubiquitin-PCNA interacting regulator of DNA damage tolerance. Nucleic Acids Research, 2012, 40, 10795-10808.	14.5	85
27	Role of SUMO modification of human PCNA at stalled replication fork. Nucleic Acids Research, 2012, 40, 6049-6059.	14.5	78
28	Complex Formation of Yeast Rev1 and Rev7 Proteins: a Novel Role for the Polymerase-Associated Domain. Molecular and Cellular Biology, 2005, 25, 9734-9740.	2.3	77
29	DNA-dependent protease activity of human Spartan facilitates replication of DNA-protein crosslink-containing DNA. Nucleic Acids Research, 2017, 45, gkw1315.	14.5	70
30	Srs2 mediates PCNA-SUMO-dependent inhibition of DNA repair synthesis. EMBO Journal, 2013, 32, 742-755.	7.8	67
31	3'-Phosphodiesterase and 5' Exonuclease Activities of Yeast Apn2 Protein and Requirement of These Activities for Repair of Oxidative DNA Damage. Molecular and Cellular Biology, 2001, 21, 1656-1661.	2.3	66
32	Coordinated protein and DNA remodeling by human HLTF on stalled replication fork. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14073-14078.	7.1	66
33	Role of PCNA and TLS polymerases in D-loop extension during homologous recombination in humans. DNA Repair, 2013, 12, 691-698.	2.8	65
34	Role of PCNA-dependent stimulation of 3'-phosphodiesterase and 3'-5' exonuclease activities of human Ape2 in repair of oxidative DNA damage. Nucleic Acids Research, 2009, 37, 4247-4255.	14.5	64
35	Mammalian polymerase $\delta$ is essential for post-replication repair of UV-induced DNA lesions. DNA Repair, 2009, 8, 1444-1451.	2.8	59
36	Opposing Roles of FANCD1 and HLTF Protect Forks and Restrain Replication during Stress. Cell Reports, 2018, 24, 3251-3261.	6.4	59

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37	Stimulation of 3'→5' Exonuclease and 3'-Phosphodiesterase Activities of Yeast Apn2 by Proliferating Cell Nuclear Antigen. <i>Molecular and Cellular Biology</i> , 2002, 22, 6480-6486.	2.3	57
38	A Single Domain in Human DNA Polymerase $\delta$ Mediates Interaction with PCNA: Implications for Translesion DNA Synthesis. <i>Molecular and Cellular Biology</i> , 2005, 25, 1183-1190.	2.3	55
39	Strand invasion by HLTf as a mechanism for template switch in fork rescue. <i>Nucleic Acids Research</i> , 2014, 42, 1711-1720.	14.5	53
40	Trf4 and Trf5 Proteins of <i>Saccharomyces cerevisiae</i> Exhibit Poly(A) RNA Polymerase Activity but No DNA Polymerase Activity. <i>Molecular and Cellular Biology</i> , 2005, 25, 10183-10189.	2.3	51
41	Human HLTf mediates postreplication repair by its HIRAN domain-dependent replication fork remodelling. <i>Nucleic Acids Research</i> , 2015, 43, gkv896.	14.5	51
42	Mutations in the Ubiquitin Binding UBZ Motif of DNA Polymerase $\delta$ Do Not Impair Its Function in Translesion Synthesis during Replication. <i>Molecular and Cellular Biology</i> , 2007, 27, 7266-7272.	2.3	49
43	Complex Formation of Yeast Rev1 with DNA Polymerase $\delta$ . <i>Molecular and Cellular Biology</i> , 2007, 27, 8401-8408.	2.3	47
44	A mechanism for the exclusion of low-fidelity human Y-family DNA polymerases from base excision repair. <i>Genes and Development</i> , 2003, 17, 2777-2785.	5.9	40
45	Role of Hoogsteen Edge Hydrogen Bonding at Template Purines in Nucleotide Incorporation by Human DNA Polymerase $\delta$ . <i>Molecular and Cellular Biology</i> , 2006, 26, 6435-6441.	2.3	33
46	Def1 Promotes the Degradation of Pol3 for Polymerase Exchange to Occur During DNA-Damage-Induced Mutagenesis in <i>Saccharomyces cerevisiae</i> . <i>PLoS Biology</i> , 2014, 12, e1001771.	5.6	33
47	The PCNA-associated protein PARI negatively regulates homologous recombination via the inhibition of DNA repair synthesis. <i>Nucleic Acids Research</i> , 2016, 44, 3176-3189.	14.5	32
48	FF483-484 motif of human Pol $\delta$ mediates its interaction with the POLD2 subunit of Pol $\delta$ and contributes to DNA damage tolerance. <i>Nucleic Acids Research</i> , 2015, 43, 2116-2125.	14.5	27
49	Simultaneous detection of BRCA mutations and large genomic rearrangements in germline DNA and FFPE tumor samples. <i>Oncotarget</i> , 2016, 7, 61845-61859.	1.8	24
50	Characterization and therapeutic application of canine adipose mesenchymal stem cells to treat elbow osteoarthritis. <i>Canadian Journal of Veterinary Research</i> , 2017, 81, 73-78.	0.2	24
51	Single Cell Analysis of Human RAD18-Dependent DNA Post-Replication Repair by Alkaline Bromodeoxyuridine Comet Assay. <i>PLoS ONE</i> , 2013, 8, e70391.	2.5	18
52	The DNA-binding box of human SPARTAN contributes to the targeting of Pol $\delta$ to DNA damage sites. <i>DNA Repair</i> , 2017, 49, 33-42.	2.8	13
53	A novel ubiquitin binding mode in the <i>S. cerevisiae</i> translesion synthesis DNA polymerase $\delta$ . <i>Molecular BioSystems</i> , 2011, 7, 1874.	2.9	10
54	A Regenerative Approach to Canine Osteoarthritis Using Allogeneic, Adipose-Derived Mesenchymal Stem Cells. Safety Results of a Long-Term Follow-Up. <i>Frontiers in Veterinary Science</i> , 2020, 7, 510.	2.2	9

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55	Multilevel structureâ€“activity profiling reveals multiple green tea compound families that each modulate ubiquitin-activating enzyme and ubiquitination by a distinct mechanism. <i>Scientific Reports</i> , 2019, 9, 12801.	3.3	8
56	Replication past O <sup>6</sup> -Methylguanine by Yeast and Human DNA Polymerase $\delta$ . <i>Molecular and Cellular Biology</i> , 2000, 20, 8001-8007.	2.3	8
57	Robust high-throughput assays to assess discrete steps in ubiquitination and related cascades. <i>BMC Molecular and Cell Biology</i> , 2020, 21, 21.	2.0	6
58	Reply to Sabbioneda et al.: Role of ubiquitin-binding motif of human DNA polymerase $\delta$ in translesion synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, .	7.1	4
59	The Combination of Single-Cell and Next-Generation Sequencing Can Reveal Mosaicism for BRCA2 Mutations and the Fine Molecular Details of Tumorigenesis. <i>Cancers</i> , 2021, 13, 2354.	3.7	4
60	The Rad5 Helicase and RING Domains Contribute to Genome Stability through their Independent Catalytic Activities. <i>Journal of Molecular Biology</i> , 2022, 434, 167437.	4.2	4
61	A series of xanthenes inhibiting Rad6 function and Rad6-Rad18 interaction in the PCNA ubiquitination cascade. <i>IScience</i> , 2022, 25, 104053.	4.1	4
62	Coordinated Cut and Bypass: Replication of Interstrand Crosslink-Containing DNA. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 699966.	3.7	3
63	BC-Monitor: Towards a Routinely Accessible Circulating Tumor DNA-Based Tool for Real-Time Monitoring Breast Cancer Progression and Treatment Effectiveness. <i>Cancers</i> , 2021, 13, 3489.	3.7	3
64	SerpinB10, a Serine Protease Inhibitor, Is Implicated in UV-Induced Cellular Response. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8500.	4.1	2