

Melike Caglayan

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

446
citations

840585

11
h-index

794469

19
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28
all docs

28
docs citations

28
times ranked

359
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxidized nucleotide insertion by pol β confounds ligation during base excision repair. <i>Nature Communications</i> , 2017, 8, 14045.	5.8	53
2	DNA polymerase β : A missing link of the base excision repair machinery in mammalian mitochondria. <i>DNA Repair</i> , 2017, 60, 77-88.	1.3	48
3	Role of polymerase β in complementing aprataxin deficiency during abasic-site base excision repair. <i>Nature Structural and Molecular Biology</i> , 2014, 21, 497-499.	3.6	43
4	Oxidant and environmental toxicant-induced effects compromise DNA ligation during base excision DNA repair. <i>DNA Repair</i> , 2015, 35, 85-89.	1.3	36
5	Complementation of aprataxin deficiency by base excision repair enzymes. <i>Nucleic Acids Research</i> , 2015, 43, 2271-2281.	6.5	30
6	Base Excision Repair of Tandem Modifications in a Methylated CpG Dinucleotide. <i>Journal of Biological Chemistry</i> , 2014, 289, 13996-14008.	1.6	25
7	Complementation of aprataxin deficiency by base excision repair enzymes in mitochondrial extracts. <i>Nucleic Acids Research</i> , 2017, 45, 10079-10088.	6.5	24
8	Impact of Ribonucleotide Backbone on Translesion Synthesis and Repair of 7,8-Dihydro-8-oxoguanine. <i>Journal of Biological Chemistry</i> , 2016, 291, 24314-24323.	1.6	21
9	Interplay between DNA Polymerases and DNA Ligases: Influence on Substrate Channeling and the Fidelity of DNA Ligation. <i>Journal of Molecular Biology</i> , 2019, 431, 2068-2081.	2.0	21
10	Pol β dGTP mismatch insertion opposite T coupled with ligation reveals promutagenic DNA repair intermediate. <i>Nature Communications</i> , 2018, 9, 4213.	5.8	20
11	The ligation of pol β mismatch insertion products governs the formation of promutagenic base excision DNA repair intermediates. <i>Nucleic Acids Research</i> , 2020, 48, 3708-3721.	6.5	19
12	Pol β gap filling, DNA ligation and substrate-product channeling during base excision repair opposite oxidized 5-methylcytosine modifications. <i>DNA Repair</i> , 2020, 95, 102945.	1.3	15
13	DNA ligase I fidelity mediates the mutagenic ligation of pol β oxidized and mismatch nucleotide insertion products in base excision repair. <i>Journal of Biological Chemistry</i> , 2021, 296, 100427.	1.6	15
14	Role of DNA polymerase β oxidized nucleotide insertion in DNA ligation failure. <i>Journal of Radiation Research</i> , 2017, 58, 603-607.	0.8	13
15	XRCC1 phosphorylation affects aprataxin recruitment and DNA deadenylation activity. <i>DNA Repair</i> , 2018, 64, 26-33.	1.3	13
16	DNA ligase I variants fail in the ligation of mutagenic repair intermediates with mismatches and oxidative DNA damage. <i>Mutagenesis</i> , 2020, 35, 391-404.	1.0	13
17	The scaffold protein XRCC1 stabilizes the formation of pol β /gap DNA and ligase I/nick DNA complexes in base excision repair. <i>Journal of Biological Chemistry</i> , 2021, 297, 101025.	1.6	11
18	Structures of LIG1 that engage with mutagenic mismatches inserted by pol β in base excision repair. <i>Nature Communications</i> , 2022, 13, .	5.8	9

#	ARTICLE	IF	CITATIONS
19	Pol η ribonucleotide insertion opposite 8-oxodG facilitates the ligation of premutagenic DNA repair intermediate. Scientific Reports, 2020, 10, 940.	1.6	8
20	Reprint of "Oxidant and environmental toxicant-induced effects compromise DNA ligation during base excision DNA repair". DNA Repair, 2015, 36, 86-90.	1.3	4
21	In vitro Assay to Measure DNA Polymerase η Nucleotide Insertion Coupled with the DNA Ligation Reaction during Base Excision Repair. Bio-protocol, 2017, 7, .	0.2	2
22	Enzymatic Activity Assays in Yeast Cell Extracts. Bio-protocol, 2014, 4, .	0.2	2
23	The coordination between DNA polymerase η and ligase governs the formation of mutagenic repair intermediates as an important determinant of faithful base excision repair. FASEB Journal, 2021, 35, .	0.2	1
24	Enzymatic Activity Assays for Base Excision Repair Enzymes in Cell Extracts from Vertebrate Cells. Bio-protocol, 2015, 5, .	0.2	0
25	Structures of LIG1 engaging with mutagenic mismatches inserted by pol η in base excision repair. FASEB Journal, 2022, 36, .	0.2	0