

Melike Caglayan

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

446
citations

840585

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794469

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28
all docs

28
docs citations

28
times ranked

359
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Structures of LIG1 engaging with mutagenic mismatches inserted by pol β in base excision repair. FASEB Journal, 2022, 36, . | 0.2 | 0 |
| 2 | Structures of LIG1 that engage with mutagenic mismatches inserted by pol β in base excision repair. Nature Communications, 2022, 13, . | 5.8 | 9 |
| 3 | DNA ligase I fidelity mediates the mutagenic ligation of pol β oxidized and mismatch nucleotide insertion products in base excision repair. Journal of Biological Chemistry, 2021, 296, 100427. | 1.6 | 15 |
| 4 | The coordination between DNA polymerase β 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 |
| 5 | The scaffold protein XRCC1 stabilizes the formation of pol β /gap DNA and ligase III α /nick DNA complexes in base excision repair. Journal of Biological Chemistry, 2021, 297, 101025. | 1.6 | 11 |
| 6 | Pol β gap filling, DNA ligation and substrate-product channeling during base excision repair opposite oxidized 5-methylcytosine modifications. DNA Repair, 2020, 95, 102945. | 1.3 | 15 |
| 7 | DNA ligase I variants fail in the ligation of mutagenic repair intermediates with mismatches and oxidative DNA damage. Mutagenesis, 2020, 35, 391-404. | 1.0 | 13 |
| 8 | The ligation of pol β mismatch insertion products governs the formation of promutagenic base excision DNA repair intermediates. Nucleic Acids Research, 2020, 48, 3708-3721. | 6.5 | 19 |
| 9 | Pol β ribonucleotide insertion opposite 8-oxodG facilitates the ligation of premutagenic DNA repair intermediate. Scientific Reports, 2020, 10, 940. | 1.6 | 8 |
| 10 | Interplay between DNA Polymerases and DNA Ligases: Influence on Substrate Channeling and the Fidelity of DNA Ligation. Journal of Molecular Biology, 2019, 431, 2068-2081. | 2.0 | 21 |
| 11 | XRCC1 phosphorylation affects aprataxin recruitment and DNA deadenylation activity. DNA Repair, 2018, 64, 26-33. | 1.3 | 13 |
| 12 | Pol β dGTP mismatch insertion opposite T coupled with ligation reveals promutagenic DNA repair intermediate. Nature Communications, 2018, 9, 4213. | 5.8 | 20 |
| 13 | Oxidized nucleotide insertion by pol β confounds ligation during base excision repair. Nature Communications, 2017, 8, 14045. | 5.8 | 53 |
| 14 | DNA polymerase β : A missing link of the base excision repair machinery in mammalian mitochondria. DNA Repair, 2017, 60, 77-88. | 1.3 | 48 |
| 15 | Complementation of aprataxin deficiency by base excision repair enzymes in mitochondrial extracts. Nucleic Acids Research, 2017, 45, 10079-10088. | 6.5 | 24 |
| 16 | Role of DNA polymerase β oxidized nucleotide insertion in DNA ligation failure. Journal of Radiation Research, 2017, 58, 603-607. | 0.8 | 13 |
| 17 | In vitro Assay to Measure DNA Polymerase β Nucleotide Insertion Coupled with the DNA Ligation Reaction during Base Excision Repair. Bio-protocol, 2017, 7, . | 0.2 | 2 |
| 18 | Impact of Ribonucleotide Backbone on Translesion Synthesis and Repair of 7,8-Dihydro-8-oxoguanine. Journal of Biological Chemistry, 2016, 291, 24314-24323. | 1.6 | 21 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | 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 |
| 20 | Complementation of aprataxin deficiency by base excision repair enzymes. Nucleic Acids Research, 2015, 43, 2271-2281. | 6.5 | 30 |
| 21 | Oxidant and environmental toxicant-induced effects compromise DNA ligation during base excision DNA repair. DNA Repair, 2015, 35, 85-89. | 1.3 | 36 |
| 22 | Enzymatic Activity Assays for Base Excision Repair Enzymes in Cell Extracts from Vertebrate Cells. Bio-protocol, 2015, 5, . | 0.2 | 0 |
| 23 | Base Excision Repair of Tandem Modifications in a Methylated CpG Dinucleotide. Journal of Biological Chemistry, 2014, 289, 13996-14008. | 1.6 | 25 |
| 24 | Role of polymerase β in complementing aprataxin deficiency during abasic-site base excision repair. Nature Structural and Molecular Biology, 2014, 21, 497-499. | 3.6 | 43 |
| 25 | Enzymatic Activity Assays in Yeast Cell Extracts. Bio-protocol, 2014, 4, . | 0.2 | 2 |