

Brandt F Eichman

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2857217/publications.pdf>

Version: 2024-02-01

65
papers

2,974
citations

159585

30
h-index

175258

52
g-index

88
all docs

88
docs citations

88
times ranked

3155
citing authors

#	ARTICLE	IF	CITATIONS
1	OUP accepted manuscript. Nucleic Acids Research, 2022, , .	14.5	5
2	Resistance-Guided Mining of Bacterial Genotoxins Defines a Family of DNA Glycosylases. MBio, 2022, 13, e0329721.	4.1	2
3	Structural evolution of a DNA repair self-resistance mechanism targeting genotoxic secondary metabolites. Nature Communications, 2021, 12, 6942.	12.8	5
4	Unhooking of an interstrand cross-link at DNA fork structures by the DNA glycosylase NEIL3. DNA Repair, 2020, 86, 102752.	2.8	23
5	An autoinhibitory role for the GRF zinc finger domain of DNA glycosylase NEIL3. Journal of Biological Chemistry, 2020, 295, 15566-15575.	3.4	14
6	Structural biology of DNA abasic site protection by SRAP proteins. DNA Repair, 2020, 94, 102903.	2.8	15
7	HLTF Promotes Fork Reversal, Limiting Replication Stress Resistance and Preventing Multiple Mechanisms of Unrestrained DNA Synthesis. Molecular Cell, 2020, 78, 1237-1251.e7.	9.7	125
8	OUP accepted manuscript. Nucleic Acids Research, 2020, 48, 7005-7017.	14.5	10
9	The anti-parasitic agent suramin and several of its analogues are inhibitors of the DNA binding protein Mcm10. Open Biology, 2019, 9, 190117.	3.6	15
10	Protection of abasic sites during DNA replication by a stable thiazolidine protein-DNA cross-link. Nature Structural and Molecular Biology, 2019, 26, 613-618.	8.2	69
11	Extensive loss of cell-cycle and DNA repair genes in an ancient lineage of bipolar budding yeasts. PLoS Biology, 2019, 17, e3000255.	5.6	116
12	Emerging Roles of DNA Glycosylases and the Base Excision Repair Pathway. Trends in Biochemical Sciences, 2019, 44, 765-781.	7.5	67
13	HMCES Maintains Genome Integrity by Shielding Abasic Sites in Single-Strand DNA. Cell, 2019, 176, 144-153.e13.	28.9	127
14	The HIRAN domain of helicase-like transcription factor positions the DNA translocase motor to drive efficient DNA fork regression. Journal of Biological Chemistry, 2018, 293, 8484-8494.	3.4	35
15	Selective base excision repair of DNA damage by the nonâ€baseâ€flipping DNA glycosylase AlkC. EMBO Journal, 2018, 37, 63-74.	7.8	17
16	Structural Biology of the HEATâ€Like Repeat Family of DNA Glycosylases. BioEssays, 2018, 40, e1800133.	2.5	9
17	Movement of the RecG Motor Domain upon DNA Binding Is Required for Efficient Fork Reversal. International Journal of Molecular Sciences, 2018, 19, 3049.	4.1	13
18	Structure of a DNA glycosylase that unhooks interstrand cross-links. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4400-4405.	7.1	25

#	ARTICLE	IF	CITATIONS
19	Toxicity and repair of DNA adducts produced by the natural product yatakemycin. <i>Nature Chemical Biology</i> , 2017, 13, 1002-1008.	8.0	21
20	A Catalytic Role for C-H Interactions in Base Excision Repair by <i>Bacillus cereus</i> DNA Glycosylase AlkD. <i>Journal of the American Chemical Society</i> , 2016, 138, 11485-11488.	13.7	26
21	Data publication with the structural biology data grid supports live analysis. <i>Nature Communications</i> , 2016, 7, 10882.	12.8	113
22	Identification of a Substrate Recognition Domain in the Replication Stress Response Protein Zinc Finger Ran-binding Domain-containing Protein 3 (ZNRANB3). <i>Journal of Biological Chemistry</i> , 2016, 291, 8251-8257.	3.4	18
23	Base Excision Repair of Bulky DNA Adducts Generated by the Antitumor Drug Yatakemycin. <i>FASEB Journal</i> , 2016, 30, 791.2.	0.5	0
24	A New Family of HEAT-Like Repeat Proteins Lacking a Critical Substrate Recognition Motif Present in Related DNA Glycosylases. <i>PLoS ONE</i> , 2015, 10, e0127733.	2.5	8
25	Differential Stabilities and Sequence-Dependent Base Pair Opening Dynamics of Watson-Crick Base Pairs with 5-Hydroxymethylcytosine, 5-Formylcytosine, or 5-Carboxylcytosine. <i>Biochemistry</i> , 2015, 54, 1294-1305.	2.5	64
26	HLTF's Ancient HIRAN Domain Binds DNA Ends to Drive Replication Fork Reversal. <i>Molecular Cell</i> , 2015, 58, 1090-1100.	9.7	163
27	The DNA glycosylase AlkD uses a non-base-flipping mechanism to excise bulky lesions. <i>Nature</i> , 2015, 527, 254-258.	27.8	52
28	A structure-specific nucleic acid-binding domain conserved among DNA repair proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 7618-7623.	7.1	34
29	Insights into Eukaryotic Primer Synthesis from Structures of the p48 Subunit of Human DNA Primase. <i>Journal of Molecular Biology</i> , 2014, 426, 558-569.	4.2	30
30	5-Methylcytosine Recognition by <i>Arabidopsis thaliana</i> DNA Glycosylases DEMETER and DML3. <i>Biochemistry</i> , 2014, 53, 2525-2532.	2.5	18
31	Structural Analysis of Replication Protein A Recruitment of the DNA Damage Response Protein SMARCAL1. <i>Biochemistry</i> , 2014, 53, 3052-3061.	2.5	33
32	Interplay between base excision repair activity and toxicity of 3-methyladenine DNA glycosylases in an <i>E. coli</i> complementation system. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2014, 763-764, 64-73.	1.0	3
33	The substrate binding interface of alkylpurine DNA glycosylase AlkD. <i>DNA Repair</i> , 2014, 13, 50-54.	2.8	11
34	Excision of 5-hydroxymethylcytosine by DEMETER family DNA glycosylases. <i>Biochemical and Biophysical Research Communications</i> , 2014, 446, 1067-1072.	2.1	37
35	Substrate-Selective Repair and Restart of Replication Forks by DNA Translocases. <i>Cell Reports</i> , 2013, 3, 1958-1969.	6.4	136
36	Depurination of N7-Methylguanine by DNA Glycosylase AlkD Is Dependent on the DNA Backbone. <i>Biochemistry</i> , 2013, 52, 7363-7365.	2.5	9

#	ARTICLE	IF	CITATIONS
37	An HPLC-tandem mass spectrometry method for simultaneous detection of alkylated base excision repair products. <i>Methods</i> , 2013, 64, 59-66.	3.8	25
38	Non-productive DNA damage binding by DNA glycosylase-like protein Mag2 from <i>Schizosaccharomyces pombe</i> . <i>DNA Repair</i> , 2013, 12, 196-204.	2.8	5
39	Recent advances in the structural mechanisms of DNA glycosylases. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013, 1834, 247-271.	2.3	149
40	Mcm10 Self-Association Is Mediated by an N-Terminal Coiled-Coil Domain. <i>PLoS ONE</i> , 2013, 8, e70518.	2.5	16
41	Enhancing Integrin $\alpha 1$ Inserted (I) Domain Affinity to Ligand Potentiates Integrin $\alpha 1 \beta 1$ -mediated Down-regulation of Collagen Synthesis. <i>Journal of Biological Chemistry</i> , 2012, 287, 35139-35152.	3.4	22
42	SMARCAL1 catalyzes fork regression and Holliday junction migration to maintain genome stability during DNA replication. <i>Genes and Development</i> , 2012, 26, 151-162.	5.9	235
43	Nucleic acid recognition by tandem helical repeats. <i>Current Opinion in Structural Biology</i> , 2012, 22, 101-109.	5.7	46
44	Structural Biology of Replication Initiation Factor Mcm10. <i>Sub-Cellular Biochemistry</i> , 2012, 62, 197-216.	2.4	16
45	Unraveling a Connection between DNA Demethylation Repair and Cancer. <i>Molecular Cell</i> , 2011, 44, 343-344.	9.7	7
46	Analysis of substrate specificity of <i>Schizosaccharomyces pombe</i> Mag1 alkylpurine DNA glycosylase. <i>EMBO Reports</i> , 2011, 12, 1286-1292.	4.5	13
47	Structural Studies of Alkylpurine DNA Glycosylases. <i>ACS Symposium Series</i> , 2010, , 29-45.	0.5	2
48	An unprecedented nucleic acid capture mechanism for excision of DNA damage. <i>Nature</i> , 2010, 468, 406-411.	27.8	69
49	Solution NMR Structure of the C-terminal DNA Binding Domain of Mcm10 Reveals a Conserved MCM Motif. <i>Journal of Biological Chemistry</i> , 2010, 285, 22942-22949.	3.4	19
50	Insights into eukaryotic DNA priming from the structure and functional interactions of the 4Fe-4S cluster domain of human DNA primase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 13684-13689.	7.1	81
51	Domain structure of the DEMETER 5-methylcytosine DNA glycosylase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 19225-19230.	7.1	66
52	Physical Interactions between Mcm10, DNA, and DNA Polymerase δ . <i>Journal of Biological Chemistry</i> , 2009, 284, 24662-24672.	3.4	55
53	Structural Basis for DNA Binding by Replication Initiator Mcm10. <i>Structure</i> , 2008, 16, 1892-1901.	3.3	53
54	A New Protein Architecture for Processing Alkylation Damaged DNA: The Crystal Structure of DNA Glycosylase AlkD. <i>Journal of Molecular Biology</i> , 2008, 381, 13-23.	4.2	40

#	ARTICLE	IF	CITATIONS
55	Structure and DNA binding of alkylation response protein AidB. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15299-15304.	7.1	22
56	Domain Architecture and Biochemical Characterization of Vertebrate Mcm10. Journal of Biological Chemistry, 2008, 283, 3338-3348.	3.4	47
57	DNA damage recognition and repair by 3-methyladenine DNA glycosylase I (TAG). EMBO Journal, 2007, 26, 2411-2420.	7.8	43
58	Structural basis for the dual coding potential of 8-oxoguanosine by a high-fidelity DNA polymerase. EMBO Journal, 2004, 23, 3452-3461.	7.8	200
59	The Power of Pumping Together. Cell, 2004, 119, 3-4.	28.9	10
60	Crystal structures of 3-methyladenine DNA glycosylase MagIII and the recognition of alkylated bases. EMBO Journal, 2003, 22, 4898-4909.	7.8	51
61	The Inherent Properties of DNA Four-way Junctions: Comparing the Crystal Structures of Holliday Junctions. Journal of Molecular Biology, 2002, 320, 1037-1051.	4.2	44
62	The crystal structures of psoralen cross-linked DNAs: drug-dependent formation of Holliday junctions ¹¹ Edited by I. Tinoco. Journal of Molecular Biology, 2001, 308, 15-26.	4.2	48
63	The crystal structures of DNA Holliday junctions. Current Opinion in Structural Biology, 2001, 11, 302-308.	5.7	49
64	The extended and eccentric E-DNA structure induced by cytosine methylation or bromination. Nature Structural Biology, 2000, 7, 758-761.	9.7	53
65	The structures and relative stabilities of d(G ⁺ ·G) reverse Hoogsteen, d(G ⁺ ·T) reverse wobble, and d(G ⁺ ·C) reverse Watson-Crick base-pairs in DNA crystals ¹¹ Edited by I. Tinoco. Journal of Molecular Biology, 1997, 269, 796-810.	4.2	17