

# Robert L Eoff

## List of Publications by Year in descending order

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56  
papers

1,374  
citations

279798

23  
h-index

361022

35  
g-index

58  
all docs

58  
docs citations

58  
times ranked

1544  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sulfolobus solfataricus DNA Polymerase Dpo4 Is Partially Inhibited by “Wobble” Pairing between O6-Methylguanine and Cytosine, but Accurate Bypass Is Preferred. <i>Journal of Biological Chemistry</i> , 2007, 282, 1456-1467.	3.4	79
2	Structural and Functional Elucidation of the Mechanism Promoting Error-prone Synthesis by Human DNA Polymerase $\eta$ Opposite the 7,8-Dihydro-8-oxo-2'-deoxyguanosine Adduct. <i>Journal of Biological Chemistry</i> , 2009, 284, 22467-22480.	3.4	78
3	Hydrogen Bonding of 7,8-Dihydro-8-oxodeoxyguanosine with a Charged Residue in the Little Finger Domain Determines Miscoding Events in Sulfolobus solfataricus DNA Polymerase Dpo4. <i>Journal of Biological Chemistry</i> , 2007, 282, 19831-19843.	3.4	71
4	Evidence That G-quadruplex DNA Accumulates in the Cytoplasm and Participates in Stress Granule Assembly in Response to Oxidative Stress. <i>Journal of Biological Chemistry</i> , 2016, 291, 18041-18057.	3.4	71
5	Human Rev1 polymerase disrupts G-quadruplex DNA. <i>Nucleic Acids Research</i> , 2014, 42, 3272-3285.	14.5	62
6	Molecular Basis of Selectivity of Nucleoside Triphosphate Incorporation Opposite O6-Benzylguanine by Sulfolobus solfataricus DNA Polymerase Dpo4. <i>Journal of Biological Chemistry</i> , 2007, 282, 13573-13584.	3.4	58
7	Synthesis and biological evaluation of novel 4,5-disubstituted 2H-1,2,3-triazoles as cis-constrained analogues of combretastatin A-4. <i>European Journal of Medicinal Chemistry</i> , 2015, 103, 123-132.	5.5	56
8	Roles of the Four DNA Polymerases of the Crenarchaeon Sulfolobus solfataricus and Accessory Proteins in DNA Replication. <i>Journal of Biological Chemistry</i> , 2011, 286, 31180-31193.	3.4	51
9	Synthesis and anti-cancer screening of novel heterocyclic-(2H)-1,2,3-triazoles as potential anti-cancer agents. <i>MedChemComm</i> , 2015, 6, 1535-1543.	3.4	49
10	Intermediates revealed in the kinetic mechanism for DNA unwinding by a monomeric helicase. <i>Nature Structural and Molecular Biology</i> , 2006, 13, 242-249.	8.2	46
11	Inositol serves as a natural inhibitor of mitochondrial fission by directly targeting AMPK. <i>Molecular Cell</i> , 2021, 81, 3803-3819.e7.	9.7	39
12	Evidence for the Kinetic Partitioning of Polymerase Activity on G-Quadruplex DNA. <i>Biochemistry</i> , 2015, 54, 3218-3230.	2.5	37
13	Translesion DNA Synthesis in Cancer: Molecular Mechanisms and Therapeutic Opportunities. <i>Chemical Research in Toxicology</i> , 2017, 30, 1942-1955.	3.3	37
14	Human Translesion Polymerase $\eta$ Exhibits Enhanced Activity and Reduced Fidelity Two Nucleotides from G-Quadruplex DNA. <i>Biochemistry</i> , 2016, 55, 5218-5229.	2.5	36
15	1-Benzyl-2-methyl-3-indolylmethylene barbituric acid derivatives: Anti-cancer agents that target nucleophosmin 1 (NPM1). <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 7226-7233.	3.0	35
16	LC8/DYNLL1 is a 53BP1 effector and regulates checkpoint activation. <i>Nucleic Acids Research</i> , 2019, 47, 6236-6249.	14.5	34
17	A Comprehensive Strategy to Discover Inhibitors of the Translesion Synthesis DNA Polymerase $\eta$ . <i>PLoS ONE</i> , 2012, 7, e45032.	2.5	32
18	Synthesis and evaluation of a series of resveratrol analogues as potent anti-cancer agents that target tubulin. <i>MedChemComm</i> , 2015, 6, 788-794.	3.4	31

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19	Structural and Functional Analysis of <i>Sulfolobus solfataricus</i> $\gamma$ -Family DNA Polymerase Dpo4-Catalyzed Bypass of the Malondialdehyde-Deoxyguanosine Adduct. <i>Biochemistry</i> , 2009, 48, 7079-7088.	2.5	30
20	Chemically Modified DNA Substrates Implicate the Importance of Electrostatic Interactions for DNA Unwinding by Dda Helicase. <i>Biochemistry</i> , 2005, 44, 666-674.	2.5	27
21	Kynurenine Signaling Increases DNA Polymerase Kappa Expression and Promotes Genomic Instability in Glioblastoma Cells. <i>Chemical Research in Toxicology</i> , 2016, 29, 101-108.	3.3	27
22	A Small-Molecule Inhibitor of Human DNA Polymerase $\delta$ Potentiates the Effects of Cisplatin in Tumor Cells. <i>Biochemistry</i> , 2018, 57, 1262-1273.	2.5	27
23	<i>N</i> -Aroyl Indole Thiobarbituric Acids as Inhibitors of DNA Repair and Replication Stress Response Polymerases. <i>ACS Chemical Biology</i> , 2013, 8, 1722-1729.	3.4	25
24	In Vitro Bypass of the Major Malondialdehyde- and Base Propenal-Derived DNA Adduct by Human $\gamma$ -family DNA Polymerases $\delta$ , $\epsilon$ , and Rev1. <i>Biochemistry</i> , 2010, 49, 8415-8424.	2.5	24
25	Conformational Changes during Nucleotide Selection by <i>Sulfolobus solfataricus</i> DNA Polymerase Dpo4. <i>Journal of Biological Chemistry</i> , 2009, 284, 21090-21099.	3.4	23
26	Kinetic Mechanism for DNA Unwinding by Multiple Molecules of Dda Helicase Aligned on DNA. <i>Biochemistry</i> , 2010, 49, 4543-4553.	2.5	21
27	Antinociceptive effects of the 6-O-sulfate ester of morphine in normal and diabetic rats: Comparative role of $\mu$ - and $\delta$ -opioid receptors. <i>Pharmacological Research</i> , 2016, 113, 335-347.	7.1	21
28	Residues in the RecQ C-terminal Domain of the Human Werner Syndrome Helicase Are Involved in Unwinding G-quadruplex DNA. <i>Journal of Biological Chemistry</i> , 2017, 292, 3154-3163.	3.4	19
29	Synthesis, anticancer activity and molecular docking studies on a series of heterocyclic trans-cyanocombretastatin analogues as antitubulin agents. <i>European Journal of Medicinal Chemistry</i> , 2015, 92, 212-220.	5.5	18
30	Inhibition of Human DNA Polymerases $\epsilon$ and $\kappa$ by Indole-Derived Molecules Occurs through Distinct Mechanisms. <i>ACS Chemical Biology</i> , 2019, 14, 1337-1351.	3.4	18
31	Leukotriene Biosynthesis Inhibitor MK886 Impedes DNA Polymerase Activity. <i>Chemical Research in Toxicology</i> , 2013, 26, 221-232.	3.3	17
32	Translesion DNA Synthesis by Human DNA Polymerase $\delta$ on Templates Containing a Pyrimidopurine Deoxyguanosine Adduct, 3-(2-Deoxy- $\beta$ -D-erythro-pentofuranosyl)pyrimido-[1,2-a]purin-10(3H)-one. <i>Biochemistry</i> , 2009, 48, 471-480.	2.5	15
33	Selective Modulation of DNA Polymerase Activity by Fixed Conformation Nucleoside Analogues. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7481-7485.	13.8	15
34	A Functional Precision Medicine Pipeline Combines Comparative Transcriptomics and Tumor Organoid Modeling to Identify Bespoke Treatment Strategies for Glioblastoma. <i>Cells</i> , 2021, 10, 3400.	4.1	15
35	Enhancement of Human DNA Polymerase $\delta$ Activity and Fidelity Is Dependent Upon a Bipartite Interaction with the Werner Syndrome Protein. <i>Journal of Biological Chemistry</i> , 2012, 287, 42312-42323.	3.4	14
36	Human Rev1 relies on insert-2 to promote selective binding and accurate replication of stabilized G-quadruplex motifs. <i>Nucleic Acids Research</i> , 2021, 49, 2065-2084.	14.5	13

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37	Effects of Twelve Germline Missense Variations on DNA Lesion and G-Quadruplex Bypass Activities of Human DNA Polymerase REV1. <i>Chemical Research in Toxicology</i> , 2016, 29, 367-379.	3.3	12
38	The Werner syndrome protein limits the error-prone 8-oxo-dG lesion bypass activity of human DNA polymerase kappa. <i>Nucleic Acids Research</i> , 2014, 42, 12027-12040.	14.5	11
39	Aberrant Kynurenine Signaling Modulates DNA Replication Stress Factors and Promotes Genomic Instability in Gliomas. <i>Chemical Research in Toxicology</i> , 2016, 29, 1369-1380.	3.3	11
40	Biobanked Glioblastoma Patient-Derived Organoids as a Precision Medicine Model to Study Inhibition of Invasion. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10720.	4.1	11
41	Inhibition of tryptophan 2,3-dioxygenase impairs DNA damage tolerance and repair in glioma cells. <i>NAR Cancer</i> , 2021, 3, zcab014.	3.1	10
42	Mechanistic Studies with DNA Polymerases Reveal Complex Outcomes following Bypass of DNA Damage. <i>Journal of Nucleic Acids</i> , 2010, 2010, 1-12.	1.2	9
43	Dioxol and dihydrodioxin analogs of 2- and 3-phenylacetone nitriles as potent anti-cancer agents with nanomolar activity against a variety of human cancer cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 2164-2169.	2.2	9
44	Single and double modified salinomycin analogs target stem-like cells in 2D and 3D breast cancer models. <i>Biomedicine and Pharmacotherapy</i> , 2021, 141, 111815.	5.6	7
45	Synthesis and Evaluation of 2-Naphthaleno trans-Stilbenes and Cyanostilbenes as Anticancer Agents. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2018, 18, 556-564.	1.7	7
46	A catch and release program for single-stranded DNA. <i>Journal of Biological Chemistry</i> , 2017, 292, 13085-13086.	3.4	3
47	A Facile Semisynthesis and Evaluation of Garcinoic Acid and Its Analogs for the Inhibition of Human DNA Polymerase $\beta$ . <i>Molecules</i> , 2020, 25, 5847.	3.8	2
48	Site-Specific Synthesis of Oligonucleotides Containing 6-Oxo-M <sub>1</sub> dG, the Genomic Metabolite of M <sub>1</sub> dG, and Liquid Chromatography-Tandem Mass Spectrometry Analysis of Its In Vitro Bypass by Human Polymerase $\beta$ . <i>Chemical Research in Toxicology</i> , 2021, 34, 2567-2578.	3.3	2
49	Selective Modulation of DNA Polymerase Activity by Fixed-Conformation Nucleoside Analogues. <i>Angewandte Chemie</i> , 2010, 122, 7643-7647.	2.0	1
50	DNA Polymerase Kappa Acts as a Barrier to Unrestrained Replication in Glioblastoma. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
51	Deletion of putative xenobiotic response elements (XREs) in hpol $\beta$ alters the replication stress response and overall genomic instability in glioblastoma cells. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
52	Selective Binding Of Human Rev1 With G-Quadruplex DNA Is Determined By A Region Unique to Higher Eukaryotes. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
53	Identification and characterization of novel small molecule inhibitors of the human $\beta$ -family DNA polymerases. <i>FASEB Journal</i> , 2013, 27, 543.1.	0.5	0
54	Novel Salinomycin Analogs Show Improved Selectivity Towards Breast Cancer Stem Cells. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0

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55	323 Generation of a functional precision medicine pipeline which combines comparative transcriptomics and tumor organoid modeling to identify bespoke treatment strategies for glioblastoma. <i>Journal of Clinical and Translational Science</i> , 2022, 6, 58-58.	0.6	0
56	Monensin and its analogues show anti-glioblastoma activity in an organoid model of cancer. <i>FASEB Journal</i> , 2022, 36, .	0.5	0