

# Fred W Perrino

## List of Publications by Year in descending order

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50  
papers

3,501  
citations

186265

28  
h-index

197818

49  
g-index

51  
all docs

51  
docs citations

51  
times ranked

3300  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mutations in the gene encoding the 3'→5' DNA exonuclease TREX1 are associated with systemic lupus erythematosus. <i>Nature Genetics</i> , 2007, 39, 1065-1067.	21.4	590
2	Heterozygous Mutations in TREX1 Cause Familial Chilblain Lupus and Dominant Aicardi-Goutières Syndrome. <i>American Journal of Human Genetics</i> , 2007, 80, 811-815.	6.2	339
3	Aicardi-Goutières Syndrome Gene and HIV-1 Restriction Factor SAMHD1 Is a dGTP-regulated Deoxynucleotide Triphosphohydrolase. <i>Journal of Biological Chemistry</i> , 2011, 286, 43596-43600.	3.4	305
4	Identification and Expression of the TREX1 and TREX2 cDNA Sequences Encoding Mammalian 3'→5' Exonucleases. <i>Journal of Biological Chemistry</i> , 1999, 274, 19655-19660.	3.4	227
5	The Exonuclease TREX1 Is in the SET Complex and Acts in Concert with NM23-H1 to Degrade DNA during Granzyme A-Mediated Cell Death. <i>Molecular Cell</i> , 2006, 23, 133-142.	9.7	225
6	A mutation in TREX1 that impairs susceptibility to granzyme A-mediated cell death underlies familial chilblain lupus. <i>Journal of Molecular Medicine</i> , 2007, 85, 531-537.	3.9	183
7	Excision of 3' Termini by the Trex1 and TREX2 3'→5' Exonucleases. <i>Journal of Biological Chemistry</i> , 2001, 276, 17022-17029.	3.4	129
8	Exonuclease TREX1 degrades double-stranded DNA to prevent spontaneous lupus-like inflammatory disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5117-5122.	7.1	127
9	The TREX1 Double-stranded DNA Degradation Activity Is Defective in Dominant Mutations Associated with Autoimmune Disease. <i>Journal of Biological Chemistry</i> , 2008, 283, 31649-31656.	3.4	113
10	The Crystal Structure of TREX1 Explains the 3' Nucleotide Specificity and Reveals a Polyproline II Helix for Protein Partnering. <i>Journal of Biological Chemistry</i> , 2007, 282, 10537-10543.	3.4	94
11	Lesion Bypass of N2-Ethylguanine by Human DNA Polymerase $\beta$ . <i>Journal of Biological Chemistry</i> , 2009, 284, 1732-1740.	3.4	69
12	Structure and Expression of the TREX1 and TREX2 3'→5' Exonuclease Genes. <i>Journal of Biological Chemistry</i> , 2001, 276, 14718-14727.	3.4	64
13	Dominant Mutations of the TREX1 Exonuclease Gene in Lupus and Aicardi-Goutières Syndrome. <i>Journal of Biological Chemistry</i> , 2011, 286, 32373-32382.	3.4	62
14	Hydrolysis of 3'-terminal mispairs in vitro by the 3'→5' exonuclease of DNA polymerase $\delta$ permits subsequent extension by DNA polymerase $\alpha$ . <i>Biochemistry</i> , 1990, 29, 5226-5231.	2.5	55
15	The N2-Ethylguanine and the O6-Ethyl- and O6-Methylguanine Lesions in DNA: Contrasting Responses from the Bypass DNA Polymerase $\beta$ and the Replicative DNA Polymerase $\delta$ . <i>Chemical Research in Toxicology</i> , 2003, 16, 1616-1623.	3.3	51
16	The Human TREX2 3'→5' Exonuclease Structure Suggests a Mechanism for Efficient Nonprocessive DNA Catalysis. <i>Journal of Biological Chemistry</i> , 2005, 280, 15212-15218.	3.4	50
17	The Structure of the Mammalian RNase H2 Complex Provides Insight into RNA-DNA Hybrid Processing to Prevent Immune Dysfunction. <i>Journal of Biological Chemistry</i> , 2010, 285, 3617-3624.	3.4	50
18	Two Functional Domains of the $\beta$ Subunit of DNA Polymerase III. <i>Biochemistry</i> , 1999, 38, 16001-16009.	2.5	47

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19	Kinetic Mechanism of the 3'→5' Proofreading Exonuclease of DNA Polymerase III. Analysis by Steady State and Pre-Steady State Methods. <i>Biochemistry</i> , 1996, 35, 12919-12925.	2.5	39
20	The TREX1 Exonuclease R114H Mutation in Aicardi-Goutières Syndrome and Lupus Reveals Dimeric Structure Requirements for DNA Degradation Activity. <i>Journal of Biological Chemistry</i> , 2011, 286, 40246-40254.	3.4	39
21	The SAMHD1 dNTP Triphosphohydrolase Is Controlled by a Redox Switch. <i>Antioxidants and Redox Signaling</i> , 2017, 27, 1317-1331.	5.4	37
22	TREX1 as a Novel Immunotherapeutic Target. <i>Frontiers in Immunology</i> , 2021, 12, 660184.	4.8	36
23	Replication of N2-Ethyldeoxyguanosine DNA Adducts in the Human Embryonic Kidney Cell Line 293. <i>Chemical Research in Toxicology</i> , 2006, 19, 960-967.	3.3	35
24	The Effects of Cytosine Arabinoside on RNA-primed DNA Synthesis by DNA Polymerase $\beta$ -Primase. <i>Journal of Biological Chemistry</i> , 1995, 270, 26664-26669.	3.4	34
25	RNaseH2 mutants that cause Aicardi-Goutières syndrome are active nucleases. <i>Journal of Molecular Medicine</i> , 2009, 87, 25-30.	3.9	34
26	Model for the Catalytic Domain of the Proofreading $\beta$ Subunit of Escherichia coli DNA Polymerase III Based on NMR Structural Data. <i>Biochemistry</i> , 2002, 41, 94-110.	2.5	32
27	The TREX1 C-terminal Region Controls Cellular Localization through Ubiquitination. <i>Journal of Biological Chemistry</i> , 2013, 288, 28881-28892.	3.4	30
28	Exonucleases and the incorporation of a nucleotide into DNA. <i>Cell Biochemistry and Biophysics</i> , 1999, 30, 331-352.	1.8	29
29	WRN exonuclease activity is blocked by DNA termini harboring 3' obstructive groups. <i>Mechanisms of Ageing and Development</i> , 2007, 128, 259-266.	4.6	29
30	Functional Consequences of the RNase H2A Subunit Mutations That Cause Aicardi-Goutières Syndrome. <i>Journal of Biological Chemistry</i> , 2011, 286, 16984-16991.	3.4	29
31	DNase-active TREX1 frame-shift mutants induce serologic autoimmunity in mice. <i>Journal of Autoimmunity</i> , 2017, 81, 13-23.	6.5	27
32	Defects in DNA degradation revealed in crystal structures of TREX1 exonuclease mutations linked to autoimmune disease. <i>DNA Repair</i> , 2012, 11, 65-73.	2.8	25
33	TREX1 – Apex predator of cytosolic DNA metabolism. <i>DNA Repair</i> , 2020, 94, 102894.	2.8	25
34	Proof-reading 3'5' exonucleases isolated from rat liver nuclei. <i>FEBS Journal</i> , 1993, 217, 493-500.	0.2	23
35	The Multidimensional Nature of Antiviral Innate Immunity. <i>Cell Host and Microbe</i> , 2015, 17, 423-425.	11.0	19
36	Cooperative DNA Binding and Communication across the Dimer Interface in the TREX2 3'→5'-Exonuclease. <i>Journal of Biological Chemistry</i> , 2008, 283, 21441-21452.	3.4	17

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37	Synonymous Mutations in <i>RNASEH2A</i> Create Cryptic Splice Sites Impairing RNase H2 Enzyme Function in Aicardi-Goutières Syndrome. <i>Human Mutation</i> , 2013, 34, 1066-1070.	2.5	16
38	Measuring TREX1 and TREX2 exonuclease activities. <i>Methods in Enzymology</i> , 2019, 625, 109-133.	1.0	16
39	Mutagenesis by exocyclic alkylamino purine adducts in <i>Escherichia coli</i> . <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2006, 599, 1-10.	1.0	15
40	DNA binding induces active site conformational change in the human TREX2 3'-exonuclease. <i>Nucleic Acids Research</i> , 2009, 37, 2411-2417.	14.5	15
41	The Exonuclease <i>Trex2</i> Shapes Psoriatic Phenotype. <i>Journal of Investigative Dermatology</i> , 2016, 136, 2345-2355.	0.7	15
42	TREX1 D18N mice fail to process erythroblast DNA resulting in inflammation and dysfunctional erythropoiesis. <i>Autoimmunity</i> , 2018, 51, 333-344.	2.6	14
43	Multifaceted role of TREX2 in the skin defense against UV-induced skin carcinogenesis. <i>Oncotarget</i> , 2015, 6, 22375-22396.	1.8	14
44	The Arg-62 Residues of the TREX1 Exonuclease Act Across the Dimer Interface Contributing to Catalysis in the Opposing Protomers. <i>Journal of Biological Chemistry</i> , 2014, 289, 11556-11565.	3.4	13
45	T Cells Produce IFN- $\gamma$ in the TREX1 D18N Model of Lupus-like Autoimmunity. <i>Journal of Immunology</i> , 2020, 204, 348-359.	0.8	13
46	Identification of Inhibitors of the dNTP Triphosphohydrolase SAMHD1 Using a Novel and Direct High-Throughput Assay. <i>Biochemistry</i> , 2018, 57, 6624-6636.	2.5	12
47	Sequence variants in the 3' to 5' deoxyribonuclease TREX2: identification in a genetic screen and effects on catalysis by the recombinant proteins. <i>Advances in Enzyme Regulation</i> , 2004, 44, 37-49.	2.6	11
48	Polymerization Past the N2-Isopropylguanine and the N6-Isopropyladenine DNA Lesions with the Translesion Synthesis DNA Polymerases $\eta$ and $\theta$ and the Replicative DNA Polymerase $\epsilon$ . <i>Chemical Research in Toxicology</i> , 2005, 18, 1451-1461.	3.3	10
49	Bypass of N2-ethylguanine by human DNA polymerase $\eta$ . <i>DNA Repair</i> , 2011, 10, 56-64.	2.8	10
50	Targeting <i>Bcl6</i> in the TREX1 D18N murine model ameliorates autoimmunity by modulating T follicular helper cells and Germinal center B cells. <i>European Journal of Immunology</i> , 2022, , .	2.9	5