

Matthew J Longley

List of Publications by Year in descending order

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41
papers

4,122
citations

201674

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289244

40
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docs citations

42
times ranked

3216
citing authors

#	ARTICLE	IF	CITATIONS
1	Using Atomic Force Microscopy to Study the Real Time Dynamics of DNA Unwinding by Mitochondrial Twinkle Helicase. <i>Bio-protocol</i> , 2021, 11, e4139.	0.4	2
2	Ultrasensitive deletion detection links mitochondrial DNA replication, disease, and aging. <i>Genome Biology</i> , 2020, 21, 248.	8.8	48
3	Single-molecule level structural dynamics of DNA unwinding by human mitochondrial Twinkle helicase. <i>Journal of Biological Chemistry</i> , 2020, 295, 5564-5576.	3.4	13
4	Polymerase $\hat{\Gamma}^3$ efficiently replicates through many natural template barriers but stalls at the HSP1 quadruplex. <i>Journal of Biological Chemistry</i> , 2020, 295, 17802-17815.	3.4	13
5	Mitochondrial single-stranded DNA binding protein novel de novo SSBP1 mutation in a child with single large-scale mtDNA deletion (SLSMD) clinically manifesting as Pearson, Kearns-Sayre, and Leigh syndromes. <i>PLoS ONE</i> , 2019, 14, e0221829.	2.5	32
6	The C-terminal tail of the NEIL1 DNA glycosylase interacts with the human mitochondrial single-stranded DNA binding protein. <i>DNA Repair</i> , 2018, 65, 11-19.	2.8	21
7	Single-molecule DREEM imaging reveals DNA wrapping around human mitochondrial single-stranded DNA binding protein. <i>Nucleic Acids Research</i> , 2018, 46, 11287-11302.	14.5	23
8	Characterization of the human homozygous R182W POLG2 mutation in mitochondrial DNA depletion syndrome. <i>PLoS ONE</i> , 2018, 13, e0203198.	2.5	11
9	Synergistic Effects of the in cis T251I and P587L Mitochondrial DNA Polymerase $\hat{\Gamma}^3$ Disease Mutations. <i>Journal of Biological Chemistry</i> , 2017, 292, 4198-4209.	3.4	16
10	DNA polymerase $\hat{\Gamma}^2$: A missing link of the base excision repair machinery in mammalian mitochondria. <i>DNA Repair</i> , 2017, 60, 77-88.	2.8	48
11	Complementation of aprataxin deficiency by base excision repair enzymes in mitochondrial extracts. <i>Nucleic Acids Research</i> , 2017, 45, 10079-10088.	14.5	24
12	Analysis of Translesion DNA Synthesis by the Mitochondrial DNA Polymerase $\hat{\Gamma}^3$. <i>Methods in Molecular Biology</i> , 2016, 1351, 19-26.	0.9	4
13	Mitochondrial genome maintenance in health and disease. <i>DNA Repair</i> , 2014, 19, 190-198.	2.8	111
14	A p.R369G POLG2 mutation associated with adPEO and multiple mtDNA deletions causes decreased affinity between polymerase $\hat{\Gamma}^3$ subunits. <i>Mitochondrion</i> , 2012, 12, 313-319.	3.4	21
15	Biochemical analysis of human POLG2 variants associated with mitochondrial disease. <i>Human Molecular Genetics</i> , 2011, 20, 3052-3066.	2.9	57
16	Disease Variants of the Human Mitochondrial DNA Helicase Encoded by C10orf2 Differentially Alter Protein Stability, Nucleotide Hydrolysis, and Helicase Activity. <i>Journal of Biological Chemistry</i> , 2010, 285, 29690-29702.	3.4	45
17	Purification and functional characterization of human mitochondrial DNA polymerase gamma harboring disease mutations. <i>Methods</i> , 2010, 51, 379-384.	3.8	17
18	Disease Mutations in the Human Mitochondrial DNA Polymerase Thumb Subdomain Impart Severe Defects in Mitochondrial DNA Replication. <i>Journal of Biological Chemistry</i> , 2009, 284, 19501-19510.	3.4	43

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19	Preparation of Human Mitochondrial Single-Stranded DNA-Binding Protein. <i>Methods in Molecular Biology</i> , 2009, 554, 73-85.	0.9	17
20	DNA2 Resolves Expanding Flap in Mitochondrial Base Excision Repair. <i>Molecular Cell</i> , 2008, 32, 457-458.	9.7	51
21	Progressive External Ophthalmoplegia and Vision and Hearing Loss in a Patient With Mutations in POLG2 and OPA1. <i>Archives of Neurology</i> , 2008, 65, 125-31.	4.5	46
22	Long Patch Base Excision Repair in Mammalian Mitochondrial Genomes. <i>Journal of Biological Chemistry</i> , 2008, 283, 26349-26356.	3.4	139
23	Mutant POLG2 Disrupts DNA Polymerase $\hat{\Gamma}^3$ Subunits and Causes Progressive External Ophthalmoplegia. <i>American Journal of Human Genetics</i> , 2006, 78, 1026-1034.	6.2	215
24	DNA Polymerase $\hat{\Gamma}^3$ in Mitochondrial DNA Replication and Repair. <i>Chemical Reviews</i> , 2006, 106, 383-405.	47.7	248
25	Modulation of the W748S mutation in DNA polymerase $\hat{\Gamma}^3$ by the E1143G polymorphism in mitochondrial disorders. <i>Human Molecular Genetics</i> , 2006, 15, 3473-3483.	2.9	96
26	DNA precursor asymmetries in mammalian tissue mitochondria and possible contribution to mutagenesis through reduced replication fidelity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 4990-4995.	7.1	148
27	The Common A467T Mutation in the Human Mitochondrial DNA Polymerase (POLG) Compromises Catalytic Efficiency and Interaction with the Accessory Subunit. <i>Journal of Biological Chemistry</i> , 2005, 280, 31341-31346.	3.4	118
28	Consequences of mutations in human DNA polymerase $\hat{\Gamma}^3$. <i>Gene</i> , 2005, 354, 125-131.	2.2	129
29	Mono-allelic POLG expression resulting from nonsense-mediated decay and alternative splicing in a patient with Alpers syndrome. <i>DNA Repair</i> , 2005, 4, 1381-1389.	2.8	38
30	Structure-function defects of human mitochondrial DNA polymerase in autosomal dominant progressive external ophthalmoplegia. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 770-776.	8.2	123
31	Structural Determinants in Human DNA Polymerase $\hat{\Gamma}^3$ Account for Mitochondrial Toxicity from Nucleoside Analogs. <i>Journal of Molecular Biology</i> , 2003, 329, 45-57.	4.2	85
32	POS5 Gene of <i>Saccharomyces cerevisiae</i> Encodes a Mitochondrial NADH Kinase Required for Stability of Mitochondrial DNA. <i>Eukaryotic Cell</i> , 2003, 2, 809-820.	3.4	98
33	Active Site Mutation in DNA Polymerase $\hat{\Gamma}^3$ Associated with Progressive External Ophthalmoplegia Causes Error-prone DNA Synthesis. <i>Journal of Biological Chemistry</i> , 2002, 277, 15225-15228.	3.4	136
34	Purification, Separation, and Identification of the Human mtDNA Polymerase With and Without Its Accessory Subunit. , 2002, 197, 245-257.		7
35	The Fidelity of Human DNA Polymerase $\hat{\Gamma}^3$ with and without Exonucleolytic Proofreading and the p55 Accessory Subunit. <i>Journal of Biological Chemistry</i> , 2001, 276, 38555-38562.	3.4	218
36	The Mitochondrial p55 Accessory Subunit of Human DNA Polymerase $\hat{\Gamma}^3$ Enhances DNA Binding, Promotes Processive DNA Synthesis, and Confers N-Ethylmaleimide Resistance. <i>Journal of Biological Chemistry</i> , 1999, 274, 38197-38203.	3.4	192

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37	Characterization of the Native and Recombinant Catalytic Subunit of Human DNA Polymerase β : Identification of Residues Critical for Exonuclease Activity and Dideoxynucleotide Sensitivity. <i>Biochemistry</i> , 1998, 37, 10529-10539.	2.5	164
38	DNA Polymerase β Is Required for Human Mismatch Repair in Vitro. <i>Journal of Biological Chemistry</i> , 1997, 272, 10917-10921.	3.4	186
39	Hypermutability and mismatch repair deficiency in RER+ tumor cells. <i>Cell</i> , 1993, 75, 1227-1236.	28.9	1,031
40	[41] In situ detection of DNA-metabolizing enzymes following polyacrylamide gel electrophoresis. <i>Methods in Enzymology</i> , 1993, 218, 587-609.	1.0	16
41	Characterization of the 5' to 3' exonuclease associated with <i>Thermus aquaticus</i> DNA polymerase. <i>Nucleic Acids Research</i> , 1990, 18, 7317-7322.	14.5	72