

Ian Holt

List of Publications by Year in descending order

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61984

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Enzymatic Removal of Ribonucleotides from DNA Is Essential for Mammalian Genome Integrity and Development. <i>Cell</i> , 2012, 149, 1008-1022.	28.9	397
2	Coupled Leading- and Lagging-Strand Synthesis of Mammalian Mitochondrial DNA. <i>Cell</i> , 2000, 100, 515-524.	28.9	372
3	Blue Native electrophoresis to study mitochondrial and other protein complexes. <i>Methods</i> , 2002, 26, 327-334.	3.8	329
4	Minimizing the damage: repair pathways keep mitochondrial DNA intact. <i>Nature Reviews Molecular Cell Biology</i> , 2012, 13, 659-671.	37.0	324
5	PrimPol, an Archaic Primase/Polymerase Operating in Human Cells. <i>Molecular Cell</i> , 2013, 52, 541-553.	9.7	322
6	Biased Incorporation of Ribonucleotides on the Mitochondrial L-Strand Accounts for Apparent Strand-Asymmetric DNA Replication. <i>Cell</i> , 2002, 111, 495-505.	28.9	238
7	Replication of vertebrate mitochondrial DNA entails transient ribonucleotide incorporation throughout the lagging strand. <i>EMBO Journal</i> , 2006, 25, 5358-5371.	7.8	205
8	Twinkle helicase is essential for mtDNA maintenance and regulates mtDNA copy number. <i>Human Molecular Genetics</i> , 2004, 13, 3219-3227.	2.9	202
9	The AAA+ protein ATAD3 has displacement loop binding properties and is involved in mitochondrial nucleoid organization. <i>Journal of Cell Biology</i> , 2007, 176, 141-146.	5.2	198
10	Mitochondrial RNA Polymerase Is Needed for Activation of the Origin of Light-Strand DNA Replication. <i>Molecular Cell</i> , 2010, 37, 67-78.	9.7	183
11	Mammalian Mitochondrial DNA Replicates Bidirectionally from an Initiation Zone. <i>Journal of Biological Chemistry</i> , 2003, 278, 50961-50969.	3.4	174
12	Alterations to the expression level of mitochondrial transcription factor A, TFAM, modify the mode of mitochondrial DNA replication in cultured human cells. <i>Nucleic Acids Research</i> , 2006, 34, 5815-5828.	14.5	151
13	A Bidirectional Origin of Replication Maps to the Major Noncoding Region of Human Mitochondrial DNA. <i>Molecular Cell</i> , 2005, 18, 651-662.	9.7	148
14	Mammalian mitochondrial nucleoids: Organizing an independently minded genome. <i>Mitochondrion</i> , 2007, 7, 311-321.	3.4	142
15	TEFM (c17orf42) is necessary for transcription of human mtDNA. <i>Nucleic Acids Research</i> , 2011, 39, 4284-4299.	14.5	142
16	Human telomerase acts as a hTR-independent reverse transcriptase in mitochondria. <i>Nucleic Acids Research</i> , 2012, 40, 712-725.	14.5	142
17	Human Mitochondrial DNA Replication. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012, 4, a012971-a012971.	5.5	121
18	Human Heart Mitochondrial DNA Is Organized in Complex Catenated Networks Containing Abundant Four-way Junctions and Replication Forks. <i>Journal of Biological Chemistry</i> , 2009, 284, 21446-21457.	3.4	110

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19	Mammalian Mitochondrial DNA Replication Intermediates Are Essentially Duplex but Contain Extensive Tracts of RNA/DNA Hybrid. <i>Journal of Molecular Biology</i> , 2010, 397, 1144-1155.	4.2	110
20	Impaired ATP Synthase Assembly Associated with a Mutation in the Human ATP Synthase Subunit 6 Gene. <i>Journal of Biological Chemistry</i> , 2001, 276, 6755-6762.	3.4	106
21	ATAD3 gene cluster deletions cause cerebellar dysfunction associated with altered mitochondrial DNA and cholesterol metabolism. <i>Brain</i> , 2017, 140, 1595-1610.	7.6	105
22	A tRNA suppressor mutation in human mitochondria. <i>Nature Genetics</i> , 1998, 18, 350-353.	21.4	103
23	The mitochondrial transcription termination factor mTERF modulates replication pausing in human mitochondrial DNA. <i>Nucleic Acids Research</i> , 2007, 35, 6458-6474.	14.5	95
24	Mitochondrial DNA replication proceeds via a "bootlace" mechanism involving the incorporation of processed transcripts. <i>Nucleic Acids Research</i> , 2013, 41, 5837-5850.	14.5	93
25	Prominent mitochondrial DNA recombination intermediates in human heart muscle. <i>EMBO Reports</i> , 2001, 2, 1007-1012.	4.5	92
26	Mice expressing an error-prone DNA polymerase in mitochondria display elevated replication pausing and chromosomal breakage at fragile sites of mitochondrial DNA. <i>Nucleic Acids Research</i> , 2009, 37, 2327-2335.	14.5	87
27	Inhibition of mitochondrial fission favours mutant over wild-type mitochondrial DNA. <i>Human Molecular Genetics</i> , 2009, 18, 3407-3416.	2.9	84
28	An Upstream Open Reading Frame and the Context of the Two AUG Codons Affect the Abundance of Mitochondrial and Nuclear RNase H1. <i>Molecular and Cellular Biology</i> , 2010, 30, 5123-5134.	2.3	83
29	Primer retention owing to the absence of RNase H1 is catastrophic for mitochondrial DNA replication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 9334-9339.	7.1	75
30	Transmission of Mitochondrial DNA Diseases and Ways to Prevent Them. <i>PLoS Genetics</i> , 2010, 6, e1001066.	3.5	74
31	Human Mitochondrial DNA-Protein Complexes Attach to a Cholesterol-Rich Membrane Structure. <i>Scientific Reports</i> , 2015, 5, 15292.	3.3	73
32	Bidirectional Replication Initiates at Sites Throughout the Mitochondrial Genome of Birds. <i>Journal of Biological Chemistry</i> , 2005, 280, 3242-3250.	3.4	71
33	Mitochondrial DNA replication and repair: all a flap. <i>Trends in Biochemical Sciences</i> , 2009, 34, 358-365.	7.5	69
34	Wobble modification deficiency in mutant tRNAs in patients with mitochondrial diseases. <i>FEBS Letters</i> , 2005, 579, 2948-2952.	2.8	68
35	MPV17 Loss Causes Deoxynucleotide Insufficiency and Slow DNA Replication in Mitochondria. <i>PLoS Genetics</i> , 2016, 12, e1005779.	3.5	67
36	Response: The mitochondrial DNA replication bubble has not burst. <i>Trends in Biochemical Sciences</i> , 2003, 28, 355-356.	7.5	62

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37	The conserved translocase Tim17 prevents mitochondrial DNA loss. <i>Human Molecular Genetics</i> , 2009, 18, 65-74.	2.9	58
38	Genotypic Stability, Segregation and Selection in Heteroplasmic Human Cell Lines Containing np 3243 Mutant mtDNA. <i>Genetics</i> , 2000, 154, 363-380.	2.9	57
39	Alternative translation initiation augments the human mitochondrial proteome. <i>Nucleic Acids Research</i> , 2013, 41, 2354-2369.	14.5	56
40	MPV17L2 is required for ribosome assembly in mitochondria. <i>Nucleic Acids Research</i> , 2014, 42, 8500-8515.	14.5	56
41	Mitochondrial DNA: does more lead to less?. <i>Nature Genetics</i> , 1994, 8, 313-315.	21.4	53
42	Amino Acid Starvation Has Opposite Effects on Mitochondrial and Cytosolic Protein Synthesis. <i>PLoS ONE</i> , 2014, 9, e93597.	2.5	48
43	Pathological ribonuclease H1 causes R-loop depletion and aberrant DNA segregation in mitochondria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E4276-85.	7.1	48
44	Parkinsonism and spastic paraplegia type 7: Expanding the spectrum of mitochondrial Parkinsonism. <i>Movement Disorders</i> , 2019, 34, 1547-1561.	3.9	44
45	Aberrant ribonucleotide incorporation and multiple deletions in mitochondrial DNA of the murine MPV17 disease model. <i>Nucleic Acids Research</i> , 2017, 45, 12808-12815.	14.5	43
46	The mitochondrial R-loop. <i>Nucleic Acids Research</i> , 2019, 47, 5480-5489.	14.5	43
47	<scp>LETM</scp> 1 couples mitochondrial <scp>DNA</scp> metabolism and nutrient preference. <i>EMBO Molecular Medicine</i> , 2018, 10, .	6.9	41
48	Expression of Algal Nuclear ATP Synthase Subunit 6 in Human Cells Results in Protein Targeting to Mitochondria but No Assembly into ATP Synthase. <i>Rejuvenation Research</i> , 2006, 9, 455-469.	1.8	37
49	Acquisition of the wobble modification in mitochondrial tRNA ^{Leu} (CUN) bearing the G12300A mutation suppresses the MELAS molecular defect. <i>Human Molecular Genetics</i> , 2006, 15, 897-904.	2.9	36
50	Overexpression of MTERFD1 or MTERFD3 impairs the completion of mitochondrial DNA replication. <i>Molecular Biology Reports</i> , 2011, 38, 1321-1328.	2.3	36
51	A Cryptic Targeting Signal Creates a Mitochondrial FEN1 Isoform with Tailed R-Loop Binding Properties. <i>PLoS ONE</i> , 2013, 8, e62340.	2.5	36
52	Separation of intact pyruvate dehydrogenase complex using blue native agarose gel electrophoresis. <i>Electrophoresis</i> , 2000, 21, 2925-2931.	2.4	35
53	MRPS25 mutations impair mitochondrial translation and cause encephalomyopathy. <i>Human Molecular Genetics</i> , 2019, 28, 2711-2719.	2.9	33
54	Recurrent De Novo NAHR Reciprocal Duplications in the ATAD3 Gene Cluster Cause a Neurogenetic Trait with Perturbed Cholesterol and Mitochondrial Metabolism. <i>American Journal of Human Genetics</i> , 2020, 106, 272-279.	6.2	33

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55	Unique features of DNA replication in mitochondria: A functional and evolutionary perspective. <i>BioEssays</i> , 2014, 36, 1024-1031.	2.5	31
56	Zen and the art of mitochondrial DNA maintenance. <i>Trends in Genetics</i> , 2010, 26, 103-109.	6.7	30
57	Systematic Segregation to Mutant Mitochondrial DNA and Accompanying Loss of Mitochondrial DNA in Human NT2 Teratocarcinoma Cybrids. <i>Genetics</i> , 2005, 170, 1879-1885.	2.9	29
58	The molecular pathology of respiratory-chain dysfunction in human mitochondrial myopathies. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1990, 1018, 217-222.	1.0	27
59	Mitochondrial quality control: Cell-type-dependent responses to pathological mutant mitochondrial DNA. <i>Autophagy</i> , 2016, 12, 2098-2112.	9.1	21
60	Transcript availability dictates the balance between strand-asynchronous and strand-coupled mitochondrial DNA replication. <i>Nucleic Acids Research</i> , 2018, 46, 10771-10781.	14.5	20
61	Clinicopathologic and molecular spectrum of <i>RNASEH1</i> -related mitochondrial disease. <i>Neurology: Genetics</i> , 2017, 3, e149.	1.9	19
62	Analysis of Mitochondrial DNA by Two-Dimensional Agarose Gel Electrophoresis. <i>Methods in Molecular Biology</i> , 2009, 554, 15-35.	0.9	19
63	Mitochondrial Transcription Terminator Family Members mTTF and mTerf5 Have Opposing Roles in Coordination of mtDNA Synthesis. <i>PLoS Genetics</i> , 2013, 9, e1003800.	3.5	17
64	Biochemical and molecular aspects of human mitochondrial respiratory chain disorders. <i>Biochemical Society Transactions</i> , 1990, 18, 517-519.	3.4	14
65	The road to rack and ruin: selecting deleterious mitochondrial DNA variants. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130451.	4.0	14
66	Mitochondrial myopathies: clinical defects. <i>Biochemical Society Transactions</i> , 1990, 18, 523-526.	3.4	13
67	Cultured muscle cells display defects of mitochondrial myopathy ameliorated by anti-oxidants. <i>Brain</i> , 2007, 130, 2715-2724.	7.6	13
68	A robust assay to measure DNA topology-dependent protein binding affinity. <i>Nucleic Acids Research</i> , 2015, 43, e43-e43.	14.5	13
69	Characterizing the mitochondrial DNA polymerase gamma interactome by BioID identifies Ruvbl2 localizes to the mitochondria. <i>Mitochondrion</i> , 2017, 32, 31-35.	3.4	13
70	2-Deoxy-D-glucose couples mitochondrial DNA replication with mitochondrial fitness and promotes the selection of wild-type over mutant mitochondrial DNA. <i>Nature Communications</i> , 2021, 12, 6997.	12.8	12
71	The yeast Holliday junction resolvase, CCE1, can restore wild-type mitochondrial DNA to human cells carrying rearranged mitochondrial DNA. <i>Human Molecular Genetics</i> , 2007, 16, 2306-2314.	2.9	11
72	The Jekyll and Hyde character of RNase H1 and its multiple roles in mitochondrial DNA metabolism. <i>DNA Repair</i> , 2019, 84, 102630.	2.8	11

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73	Reply: Genotype-phenotype correlation in ATAD3A deletions: not just of scientific relevance. <i>Brain</i> , 2017, 140, e67-e67.	7.6	9
74	Rhabdomyosarcoma iO cells: isolation and characterization of a mitochondrial DNA depleted cell line with "muscle-like"™ properties. <i>Neuromuscular Disorders</i> , 2000, 10, 454-459.	0.6	8
75	In vitro Study of Muscle Aerobic Metabolism in Chronic Fatigue Syndrome. <i>The Journal of Chronic Fatigue Syndrome: Multidisciplinary Innovations in Research and Clinical Practice</i> , 1999, 5, 3-16.	0.4	7
76	2 deoxy-D-glucose augments the mitochondrial respiratory chain in heart. <i>Scientific Reports</i> , 2022, 12, 6890.	3.3	5
77	R-Loops and Mitochondrial DNA Metabolism. <i>Methods in Molecular Biology</i> , 2022, , 173-202.	0.9	5
78	Analysis of Replicating Mitochondrial DNA by In Organello Labeling and Two-Dimensional Agarose Gel Electrophoresis. <i>Methods in Molecular Biology</i> , 2016, 1351, 95-113.	0.9	2
79	Uniparental isodisomy of chromosome 2 causing MRPL44-related multisystem mitochondrial disease. <i>Molecular Biology Reports</i> , 2021, 48, 2093-2104.	2.3	1
80	Corrigendum to "Rhabdomyosarcoma iO cells: isolation and characterization of mitochondrial DNA depleted cell line with "muscle-like"™ properties" [Neuromuscular Disorders 10 (2000) 454-459]. <i>Neuromuscular Disorders</i> , 2001, 11, 99.	0.6	0
81	Reply to: "Mitochondrial Parkinsonism due to <i>SPG7/Paraplegin</i> variants with secondary mtDNA depletion" <i>Movement Disorders</i> , 2019, 34, 1932-1933.	3.9	0
82	Mechanisms of onset and accumulation of mtDNA mutations. , 2020, , 195-219.		0
83	Erretikulu endoplasmatikoaren eta Mitokondriaren arteko konexioek mtDNA-ren erreplikazioan duten inplikazioa. , 0, , .		0
84	ATAD3 gene-familian de novo duplikazioek Harel-Yoon sindromea sortzen dute, eta kolesterolaren eta mitokondrien metabolismoan kalteak eragiten dituzte. , 0, , .		0