

Dan Mishmar

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

4,681
citations

159358

30
h-index

133063

59
g-index

72
all docs

72
docs citations

72
times ranked

5662
citing authors

#	ARTICLE	IF	CITATIONS
1	Natural selection shaped regional mtDNA variation in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 171-176.	3.3	889
2	Effects of Purifying and Adaptive Selection on Regional Variation in Human mtDNA. <i>Science</i> , 2004, 303, 223-226.	6.0	719
3	An enhanced MITOMAP with a global mtDNA mutational phylogeny. <i>Nucleic Acids Research</i> , 2007, 35, D823-D828.	6.5	528
4	Mitochondrial bioenergetics as a major motive force of speciation. <i>BioEssays</i> , 2009, 31, 642-650.	1.2	210
5	Molecular characterization of a common fragile site (FRA7H) on human chromosome 7 by the cloning of a simian virus 40 integration site. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 8141-8146.	3.3	201
6	Mitochondrial DNA Transcription and Its Regulation: An Evolutionary Perspective. <i>Trends in Genetics</i> , 2018, 34, 682-692.	2.9	130
7	Ancient mtDNA Genetic Variants Modulate mtDNA Transcription and Replication. <i>PLoS Genetics</i> , 2009, 5, e1000474.	1.5	130
8	Mitochondrial DNA-like sequences in the nucleus (NUMTs): Insights into our African origins and the mechanism of foreign DNA integration. <i>Human Mutation</i> , 2004, 23, 125-133.	1.1	122
9	Mitochondrial-nuclear co-evolution and its effects on OXPHOS activity and regulation. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2012, 1819, 1107-1111.	0.9	100
10	MITOMASTER: a bioinformatics tool for the analysis of mitochondrial DNA sequences. <i>Human Mutation</i> , 2009, 30, 1-6.	1.1	98
11	Mitochondrial 16S rRNA Is Methylated by tRNA Methyltransferase TRMT61B in All Vertebrates. <i>PLoS Biology</i> , 2016, 14, e1002557.	2.6	95
12	A novel NDUFA1 mutation leads to a progressive mitochondrial complex I-specific neurodegenerative disease. <i>Molecular Genetics and Metabolism</i> , 2009, 96, 189-195.	0.5	89
13	Adaptive selection of mitochondrial complex I subunits during primate radiation. <i>Gene</i> , 2006, 378, 11-18.	1.0	85
14	Mitochondrial DNA heteroplasmy in diabetes and normal adults: role of acquired and inherited mutational patterns in twins. <i>Human Molecular Genetics</i> , 2012, 21, 4214-4224.	1.4	79
15	Mito-nuclear co-evolution: the positive and negative sides of functional ancient mutations. <i>Frontiers in Genetics</i> , 2014, 5, 448.	1.1	77
16	Disrupting Mitochondrial-Nuclear Coevolution Affects OXPHOS Complex I Integrity and Impacts Human Health. <i>Genome Biology and Evolution</i> , 2014, 6, 2665-2680.	1.1	68
17	Coevolution Predicts Direct Interactions between mtDNA-Encoded and nDNA-Encoded Subunits of Oxidative Phosphorylation Complex I. <i>Journal of Molecular Biology</i> , 2010, 404, 158-171.	2.0	66
18	Functional Recurrent Mutations in the Human Mitochondrial Phylogeny: Dual Roles in Evolution and Disease. <i>Genome Biology and Evolution</i> , 2013, 5, 876-890.	1.1	60

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19	Assembling an arsenal, the scorpion way. <i>BMC Evolutionary Biology</i> , 2008, 8, 333.	3.2	52
20	RNA-DNA differences in human mitochondria restore ancestral form of 16S ribosomal RNA. <i>Genome Research</i> , 2013, 23, 1789-1796.	2.4	49
21	Mitochondrial Involvement in Vertebrate Speciation? The Case of Mito-nuclear Genetic Divergence in Chameleons. <i>Genome Biology and Evolution</i> , 2015, 7, 3322-3336.	1.1	49
22	Parkin modulates heteroplasmy of truncated mtDNA in <i>Caenorhabditis elegans</i> . <i>Mitochondrion</i> , 2015, 20, 64-70.	1.6	48
23	Transcription Factors Bind Negatively Selected Sites within Human mtDNA Genes. <i>Genome Biology and Evolution</i> , 2014, 6, 2634-2646.	1.1	47
24	MtDNA meta-analysis reveals both phenotype specificity and allele heterogeneity: a model for differential association. <i>Scientific Reports</i> , 2017, 7, 43449.	1.6	45
25	The Mitochondrial Genome on Selective Constraints and Signatures at the Organism, Cell, and Single Mitochondrion Levels. <i>Frontiers in Ecology and Evolution</i> , 2019, 7, .	1.1	43
26	Initiation of mtDNA transcription is followed by pausing, and diverges across human cell types and during evolution. <i>Genome Research</i> , 2017, 27, 362-373.	2.4	41
27	Mitochondrial DNA HV lineage increases the susceptibility to schizophrenia among Israeli Arabs. <i>Schizophrenia Research</i> , 2007, 94, 354-358.	1.1	39
28	Differences in mtDNA haplogroup distribution among 3 Jewish populations alter susceptibility to T2DM complications. <i>BMC Genomics</i> , 2008, 9, 198.	1.2	35
29	Parental diabetes status reveals association of mitochondrial DNA haplogroup J1 with type 2 diabetes. <i>BMC Medical Genetics</i> , 2009, 10, 60.	2.1	33
30	mtDNA mutation pattern in tumors and human evolution are shaped by similar selective constraints. <i>Genome Research</i> , 2009, 19, 576-580.	2.4	31
31	Ancient Out-of-Africa Mitochondrial DNA Variants Associate with Distinct Mitochondrial Gene Expression Patterns. <i>PLoS Genetics</i> , 2016, 12, e1006407.	1.5	31
32	Gene Expression Patterns of Oxidative Phosphorylation Complex I Subunits Are Organized in Clusters. <i>PLoS ONE</i> , 2010, 5, e9985.	1.1	30
33	Human primitive brain displays negative mitochondrial-nuclear expression correlation of respiratory genes. <i>Genome Research</i> , 2018, 28, 952-967.	2.4	29
34	Common Fragile Sites: G-Band Characteristics within an R-Band. <i>American Journal of Human Genetics</i> , 1999, 64, 908-910.	2.6	28
35	Ashkenazi Jewish mtDNA haplogroup distribution varies among distinct subpopulations: lessons of population substructure in a closed group. <i>European Journal of Human Genetics</i> , 2007, 15, 498-500.	1.4	27
36	MitoBamAnnotator: A web-based tool for detecting and annotating heteroplasmy in human mitochondrial DNA sequences. <i>Mitochondrion</i> , 2011, 11, 924-928.	1.6	26

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37	Mitochondrial DNA associations with East Asian metabolic syndrome. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 878-892.	0.5	22
38	Immune system cells from COVID-19 patients display compromised mitochondrial-nuclear expression co-regulation and rewiring toward glycolysis. <i>IScience</i> , 2021, 24, 103471.	1.9	20
39	Evolution and disease converge in the mitochondrion. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 1099-1104.	0.5	17
40	Mitochondrial DNA Variation, but Not Nuclear DNA, Sharply Divides Morphologically Identical Chameleons along an Ancient Geographic Barrier. <i>PLoS ONE</i> , 2012, 7, e31372.	1.1	17
41	The genomic landscape of evolutionary convergence in mammals, birds and reptiles. <i>Nature Ecology and Evolution</i> , 2017, 1, 41.	3.4	15
42	A common pattern of DNase I footprinting throughout the human mtDNA unveils clues for a chromatin-like organization. <i>Genome Research</i> , 2018, 28, 1158-1168.	2.4	15
43	Copy number variation of the SELENBP1 gene in schizophrenia. <i>Behavioral and Brain Functions</i> , 2010, 6, 40.	1.4	12
44	CHILD: a new tool for detecting low-abundance insertions and deletions in standard sequence traces. <i>Nucleic Acids Research</i> , 2011, 39, e47-e47.	6.5	12
45	The First Chameleon Transcriptome: Comparative Genomic Analysis of the OXPHOS System Reveals Loss of COX8 in Iguanian Lizards. <i>Genome Biology and Evolution</i> , 2013, 5, 1792-1799.	1.1	12
46	A Genetic View of the Mitochondrial Role in Ageing: Killing Us Softly. <i>Advances in Experimental Medicine and Biology</i> , 2015, 847, 89-106.	0.8	12
47	mtDNA Chromatin-like Organization Is Gradually Established during Mammalian Embryogenesis. <i>IScience</i> , 2019, 12, 141-151.	1.9	12
48	Mitochondria Are Fundamental for the Emergence of Metazoans: On Metabolism, Genomic Regulation, and the Birth of Complex Organisms. <i>Annual Review of Genetics</i> , 2020, 54, 151-166.	3.2	12
49	Higher Order Organization of the mtDNA: Beyond Mitochondrial Transcription Factor A. <i>Frontiers in Genetics</i> , 2019, 10, 1285.	1.1	12
50	Mitochondrial gene expression in single cells shape pancreatic beta cells' sub-populations and explain variation in insulin pathway. <i>Scientific Reports</i> , 2021, 11, 466.	1.6	9
51	Mutant <i>C. elegans</i> mitofusin leads to selective removal of mtDNA heteroplasmic deletions across generations to maintain fitness. <i>BMC Biology</i> , 2022, 20, 40.	1.7	9
52	Disease-causing mutations in subunits of OXPHOS complex I affect certain physical interactions. <i>Scientific Reports</i> , 2019, 9, 9987.	1.6	7
53	Two Homogametic Genotypes "One Crayfish: On the Consequences of Intersexuality. <i>IScience</i> , 2020, 23, 101652.	1.9	7
54	Predicting 3D protein structures in light of evolution. <i>Nature Ecology and Evolution</i> , 2021, 5, 1195-1198.	3.4	7

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55	LEMONS – A Tool for the Identification of Splice Junctions in Transcriptomes of Organisms Lacking Reference Genomes. PLoS ONE, 2015, 10, e0143329.	1.1	5
56	Treating speciation processes as complex traits. Nature Reviews Genetics, 2007, 8, 320-320.	7.7	4
57	mtDNA in the crossroads of evolution and disease. Nature Reviews Molecular Cell Biology, 2020, 21, 181-181.	16.1	4
58	Coordination of mitochondrial and nuclear gene-expression regulation in health, evolution, and disease. Current Opinion in Physiology, 2022, 27, 100554.	0.9	2
59	The First Mitochondrial Genomics and Evolution SBE-Satellite Meeting: A New Scientific Symbiosis. Genome Biology and Evolution, 2017, 9, 3054-3058.	1.1	0
60	The Impact of Darwinian Evolution on Medicine: The Maternal Side of the Story. Rambam Maimonides Medical Journal, 2010, 1, e0010.	0.4	0
61	Human mitochondrial RNA modifications associate with tissue-specific changes in gene expression, and are affected by sunlight and UV exposure. European Journal of Human Genetics, 2022, , .	1.4	0