Dan Mishmar

List of Publications by Year
in descending order

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61	4,681	159525 30	133188 59
papers	citations	h-index	g-index

72	72	72	5662
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mutant C. elegans mitofusin leads to selective removal of mtDNA heteroplasmic deletions across generations to maintain fitness. BMC Biology, 2022, 20, 40.	1.7	9
2	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
3	Coordination of mitochondrial and nuclear gene-expression regulation in health, evolution, and disease. Current Opinion in Physiology, 2022, 27, 100554.	0.9	2
4	Mitochondrial gene expression in single cells shape pancreatic beta cells' sub-populations and explain variation in insulin pathway. Scientific Reports, 2021, 11, 466.	1.6	9
5	Predicting 3D protein structures in light of evolution. Nature Ecology and Evolution, 2021, 5, 1195-1198.	3.4	7
6	Immune system cells from COVID-19 patients display compromised mitochondrial-nuclear expression co-regulation and rewiring toward glycolysis. IScience, 2021, 24, 103471.	1.9	20
7	Mitochondria Are Fundamental for the Emergence of Metazoans: On Metabolism, Genomic Regulation, and the Birth of Complex Organisms. Annual Review of Genetics, 2020, 54, 151-166.	3.2	12
8	Two Homogametic Genotypes â€“ One Crayfish: On the Consequences of Intersexuality. IScience, 2020, 23, 101652.	1.9	7
9	mtDNA in the crossroads of evolution and disease. Nature Reviews Molecular Cell Biology, 2020, 21, 181-181.	16.1	4
10	Disease-causing mutations in subunits of OXPHOS complex I affect certain physical interactions. Scientific Reports, 2019, 9, 9987.	1.6	7
11	The Mitochondrial Genomeâ€“on Selective Constraints and Signatures at the Organism, Cell, and Single Mitochondrion Levels. Frontiers in Ecology and Evolution, 2019, 7, .	1.1	43
12	mtDNA Chromatin-like Organization Is Gradually Established during Mammalian Embryogenesis. IScience, 2019, 12, 141-151.	1.9	12
13	Higher Order Organization of the mtDNA: Beyond Mitochondrial Transcription Factor A. Frontiers in Genetics, 2019, 10, 1285.	1.1	12
14	Mitochondrial DNA Transcription and Its Regulation: An Evolutionary Perspective. Trends in Genetics, 2018, 34, 682-692.	2.9	130
15	Mitochondrial DNA associations with East Asian metabolic syndrome. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 878-892.	0.5	22
16	A common pattern of DNase I footprinting throughout the human mtDNA unveils clues for a chromatin-like organization. Genome Research, 2018, 28, 1158-1168.	2.4	15
17	Human primitive brain displays negative mitochondrial-nuclear expression correlation of respiratory genes. Genome Research, 2018, 28, 952-967.	2.4	29
18	MtDNA meta-analysis reveals both phenotype specificity and allele heterogeneity: a model for differential association. Scientific Reports, 2017, 7, 43449.	1.6	45

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19	The genomic landscape of evolutionary convergence in mammals, birds and reptiles. Nature Ecology and Evolution, 2017, 1, 41.	3.4	15
20	Initiation of mtDNA transcription is followed by pausing, and diverges across human cell types and during evolution. Genome Research, 2017, 27, 362-373.	2.4	41
21	The First Mitochondrial Genomics and Evolution SMBE-Satellite Meeting: A New Scientific Symbiosis. Genome Biology and Evolution, 2017, 9, 3054-3058.	1.1	0
22	Mitochondrial 16S rRNA Is Methylated by tRNA Methyltransferase TRMT61B in All Vertebrates. PLoS Biology, 2016, 14, e1002557.	2.6	95
23	Ancient Out-of-Africa Mitochondrial DNA Variants Associate with Distinct Mitochondrial Gene Expression Patterns. PLoS Genetics, 2016, 12, e1006407.	1.5	31
24	A Genetic View of the Mitochondrial Role in Ageing: Killing Us Softly. Advances in Experimental Medicine and Biology, 2015, 847, 89-106.	0.8	12
25	Mitochondrial Involvement in Vertebrate Speciation? The Case of Mito-nuclear Genetic Divergence in Chameleons. Genome Biology and Evolution, 2015, 7, 3322-3336.	1.1	49
26	Parkin modulates heteroplasmy of truncated mtDNA in Caenorhabditis elegans. Mitochondrion, 2015, 20, 64-70.	1.6	48
27	LEMONS â€“ A Tool for the Identification of Splice Junctions in Transcriptomes of Organisms Lacking Reference Genomes. PLoS ONE, 2015, 10, e0143329.	1.1	5
28	Mito-nuclear co-evolution: the positive and negative sides of functional ancient mutations. Frontiers in Genetics, 2014, 5, 448.	1.1	77
29	Transcription Factors Bind Negatively Selected Sites within Human mtDNA Genes. Genome Biology and Evolution, 2014, 6, 2634-2646.	1.1	47
30	Disrupting Mitochondrialâ€“Nuclear Coevolution Affects OXPHOS Complex I Integrity and Impacts Human Health. Genome Biology and Evolution, 2014, 6, 2665-2680.	1.1	68
31	RNAâ€“DNA differences in human mitochondria restore ancestral form of 16S ribosomal RNA. Genome Research, 2013, 23, 1789-1796.	2.4	49
32	The First Chameleon Transcriptome: Comparative Genomic Analysis of the OXPHOS System Reveals Loss of COX8 in Iguanian Lizards. Genome Biology and Evolution, 2013, 5, 1792-1799.	1.1	12
33	Functional Recurrent Mutations in the Human Mitochondrial Phylogeny: Dual Roles in Evolution and Disease. Genome Biology and Evolution, 2013, 5, 876-890.	1.1	60
34	Mitochondrial-nuclear co-evolution and its effects on OXPHOS activity and regulation. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2012, 1819, 1107-1111.	0.9	100
35	Mitochondrial DNA heteroplasmy in diabetes and normal adults: role of acquired and inherited mutational patterns in twins. Human Molecular Genetics, 2012, 21, 4214-4224.	1.4	79
36	Mitochondrial DNA Variation, but Not Nuclear DNA, Sharply Divides Morphologically Identical Chameleons along an Ancient Geographic Barrier. PLoS ONE, 2012, 7, e31372.	1.1	17

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37	CHILD: a new tool for detecting low-abundance insertions and deletions in standard sequence traces. Nucleic Acids Research, 2011, 39, e47-e47.	6.5	12
38	MitoBamAnnotator: A web-based tool for detecting and annotating heteroplasmy in human mitochondrial DNA sequences. Mitochondrion, 2011, 11, 924-928.	1.6	26
39	Evolution and disease converge in the mitochondrion. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 1099-1104.	0.5	17
40	Copy number variation of the SELENBP1 gene in schizophrenia. Behavioral and Brain Functions, 2010, 6, 40.	1.4	12
41	Coevolution Predicts Direct Interactions between mtDNA-Encoded and nDNA-Encoded Subunits of Oxidative Phosphorylation Complex I. Journal of Molecular Biology, 2010, 404, 158-171.	2.0	66
42	Gene Expression Patterns of Oxidative Phosphorylation Complex I Subunits Are Organized in Clusters. PLoS ONE, 2010, 5, e9985.	1.1	30
43	The Impact of Darwinian Evolution on Medicine: The Maternal Side of the Story. Rambam Maimonides Medical Journal, 2010, 1, e0010.	0.4	0
44	mtDNA mutation pattern in tumors and human evolution are shaped by similar selective constraints. Genome Research, 2009, 19, 576-580.	2.4	31
45	MITOMASTER: a bioinformatics tool for the analysis of mitochondrial DNA sequences. Human Mutation, 2009, 30, 1-6.	1.1	98
46	Mitochondrial bioenergetics as a major motive force of speciation. BioEssays, 2009, 31, 642-650.	1.2	210
47	Parental diabetes status reveals association of mitochondrial DNA haplogroup J1 with type 2 diabetes. BMC Medical Genetics, 2009, 10, 60.	2.1	33
48	A novel NDUFA1 mutation leads to a progressive mitochondrial complex I-specific neurodegenerative disease. Molecular Genetics and Metabolism, 2009, 96, 189-195.	0.5	89
49	Ancient mtDNA Genetic Variants Modulate mtDNA Transcription and Replication. PLoS Genetics, 2009, 5, e1000474.	1.5	130
50	Assembling an arsenal, the scorpion way. BMC Evolutionary Biology, 2008, 8, 333.	3.2	52
51	Differences in mtDNA haplogroup distribution among 3 Jewish populations alter susceptibility to T2DM complications. BMC Genomics, 2008, 9, 198.	1.2	35
52	An enhanced MITOMAP with a global mtDNA mutational phylogeny. Nucleic Acids Research, 2007, 35, D823-D828.	6.5	528
53	Mitochondrial DNA HV lineage increases the susceptibility to schizophrenia among Israeli Arabs. Schizophrenia Research, 2007, 94, 354-358.	1.1	39
54	Treating speciation processes as complex traits. Nature Reviews Genetics, 2007, 8, 320-320.	7.7	4

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55	Ashkenazi Jewish mtDNA haplogroup distribution varies among distinct subpopulations: lessons of population substructure in a closed group. European Journal of Human Genetics, 2007, 15, 498-500.	1.4	27
56	Adaptive selection of mitochondrial complex I subunits during primate radiation. Gene, 2006, 378, 11-18.	1.0	85
57	Effects of Purifying and Adaptive Selection on Regional Variation in Human mtDNA. Science, 2004, 303, 223-226.	6.0	719
58	Mitochondrial DNA-like sequences in the nucleus (NUMTs): Insights into our African origins and the mechanism of foreign DNA integration. Human Mutation, 2004, 23, 125-133.	1.1	122
59	Natural selection shaped regional mtDNA variation in humans. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 171-176.	3.3	889
60	Common Fragile Sites: G-Band Characteristics within an R-Band. American Journal of Human Genetics, 1999, 64, 908-910.	2.6	28
61	Molecular characterization of a common fragile site (FRA7H) on human chromosome 7 by the cloning of a simian virus 40 integration site. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 8141-8146.	3.3	201