Aurelio Reyes

List of Publications by Year
in descending order

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67	5,604	76326	88630
papers	citations	40 h-index	70 g-index

73	73	73	6952
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mammalian mitochondrial D-loop region structural analysis: identification of new conserved sequences and their functional and evolutionary implications. Gene, 1997, 205, 125-140.	2.2	437
2	Evolutionary genomics in Metazoa: the mitochondrial DNA as a model system. Gene, 1999, 238, 195-209.	2.2	396
3	Minimizing the damage: repair pathways keep mitochondrial DNA intact. Nature Reviews Molecular Cell Biology, 2012, 13, 659-671.	37.0	324
4	PrimPol, an Archaic Primase/Polymerase Operating in Human Cells. Molecular Cell, 2013, 52, 541-553.	9.7	322
5	Biased Incorporation of Ribonucleotides on the Mitochondrial L-Strand Accounts for Apparent Strand-Asymmetric DNA Replication. Cell, 2002, 111, 495-505.	28.9	238
6	Replication of vertebrate mitochondrial DNA entails transient ribonucleotide incorporation throughout the lagging strand. EMBO Journal, 2006, 25, 5358-5371.	7.8	205
7	The AAA+ protein ATAD3 has displacement loop binding properties and is involved in mitochondrial nucleoid organization. Journal of Cell Biology, 2007, 176, 141-146.	5.2	198
8	Mammalian Mitochondrial DNA Replicates Bidirectionally from an Initiation Zone. Journal of Biological Chemistry, 2003, 278, 50961-50969.	3.4	174
9	Evolutionary History of the Most Speciose Mammals: Molecular Phylogeny of Muroid Rodents. Molecular Biology and Evolution, 2001, 18, 2017-2031.	8.9	148
10	Tissue-specific mtDNA abundance from exome data and its correlation with mitochondrial transcription, mass and respiratory activity. Mitochondrion, 2015, 20, 13-21.	3.4	146
11	Mammalian mitochondrial nucleoids: Organizing an independently minded genome. Mitochondrion, 2007, 7, 311-321.	3.4	142
12	Human telomerase acts as a hTR-independent reverse transcriptase in mitochondria. Nucleic Acids Research, 2012, 40, 712-725.	14.5	142
13	Mutations in FBXL4, Encoding a Mitochondrial Protein, Cause Early-Onset Mitochondrial Encephalomyopathy. American Journal of Human Genetics, 2013, 93, 482-495.	6.2	138
14	Evolution of the mitochondrial genetic system: an overview. Gene, 2000, 261, 153-159.	2.2	122
15	Human Mitochondrial DNA Replication. Cold Spring Harbor Perspectives in Biology, 2012, 4, a012971-a012971.	5.5	121
16	Congruent Mammalian Trees from Mitochondrial and Nuclear Genes Using Bayesian Methods. Molecular Biology and Evolution, 2003, 21, 397-403.	8.9	111
17	Where Do Rodents Fit? Evidence from the Complete Mitochondrial Genome of Sciurus vulgaris. Molecular Biology and Evolution, 2000, 17, 979-983.	8.9	110
18	Mammalian Mitochondrial DNA Replication Intermediates Are Essentially Duplex but Contain Extensive Tracts of RNA/DNA Hybrid. Journal of Molecular Biology, 2010, 397, 1144-1155.	4.2	110

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19	Lineage-Specific Evolutionary Rate in Mammalian mtDNA. Molecular Biology and Evolution, 2000, 17, 1022-1031.	8.9	107
20	Mitochondrial DNA in metazoa: degree of freedom in a frozen event. Gene, 2002, 286, 3-12.	2.2	97
21	The mitochondrial transcription termination factor mTERF modulates replication pausing in human mitochondrial DNA. Nucleic Acids Research, 2007, 35, 6458-6474.	14.5	95
22	Mitochondrial DNA replication proceeds via a â€˜bootlaceâ€™ mechanism involving the incorporation of processed transcripts. Nucleic Acids Research, 2013, 41, 5837-5850.	14.5	93
23	RNASEH1 Mutations Impair mtDNA Replication and Cause Adult-Onset Mitochondrial Encephalomyopathy. American Journal of Human Genetics, 2015, 97, 186-193.	6.2	91
24	Mice expressing an error-prone DNA polymerase in mitochondria display elevated replication pausing and chromosomal breakage at fragile sites of mitochondrial DNA. Nucleic Acids Research, 2009, 37, 2327-2335.	14.5	87
25	New genes and pathomechanisms in mitochondrial disorders unraveled by NGS technologies. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1326-1335.	1.0	87
26	Human Mitochondrial DNA-Protein Complexes Attach to a Cholesterol-Rich Membrane Structure. Scientific Reports, 2015, 5, 15292.	3.3	73
27	Bidirectional Replication Initiates at Sites Throughout the Mitochondrial Genome of Birds. Journal of Biological Chemistry, 2005, 280, 3242-3250.	3.4	71
28	Linear mtDNA fragments and unusual mtDNA rearrangements associated with pathological deficiency of MGME1 exonuclease. Human Molecular Genetics, 2014, 23, 6147-6162.	2.9	64
29	Defective <scp>PITRM</scp> 1 mitochondrial peptidase is associated with AÎ² amyloidotic neurodegeneration. EMBO Molecular Medicine, 2016, 8, 176-190.	6.9	60
30	Comparison of the sequences of the D3 expansion of the 26S ribosomal genes reveals different degrees of heterogeneity in different populations and species of Pratylenchus from the Mediterranean region. European Journal of Plant Pathology, 2004, 110, 949-957.	1.7	59
31	RNase H1 directs origin-specific initiation of DNA replication in human mitochondria. PLoS Genetics, 2019, 15, e1007781.	3.5	58
32	Alternative translation initiation augments the human mitochondrial proteome. Nucleic Acids Research, 2013, 41, 2354-2369.	14.5	56
33	MPV17L2 is required for ribosome assembly in mitochondria. Nucleic Acids Research, 2014, 42, 8500-8515.	14.5	56
34	A Novel Lipoxygenase in Pea Roots. Its Function in Wounding and Biotic Stress. Plant Physiology, 2006, 141, 1045-1055.	4.8	54
35	Foxg1 localizes to mitochondria and coordinates cell differentiation and bioenergetics. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13910-13915.	7.1	54
36	Molecular variability and phylogenetic relationships among different species and populations of Pratylenchus (Nematoda: Pratylenchidae) as inferred from the analysis of the ITS rDNA. European Journal of Plant Pathology, 2011, 130, 415-426.	1.7	48

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37	Amino Acid Starvation Has Opposite Effects on Mitochondrial and Cytosolic Protein Synthesis. PLoS ONE, 2014, 9, e93597.	2.5	48
38	Long-branch attraction phenomenon and the impact of among-site rate variation on rodent phylogeny. Gene, 2000, 259, 177-187.	2.2	45
39	Phylogenetic analyses of complete mitochondrial genome sequences suggest a basal divergence of the enigmatic rodent Anomalurus. BMC Evolutionary Biology, 2007, 7, 16.	3.2	45
40	The isolated carboxyâ€terminal domain of human mitochondrial leucylâ€<scp>tRNA</scp> synthetase rescues the pathological phenotype of mitochondrial <scp>tRNA</scp> mutations in human cells. EMBO Molecular Medicine, 2014, 6, 169-182.	6.9	43
41	Lineage Specificity of the Evolutionary Dynamics of the mtDNA D-Loop Region in Rodents. Journal of Molecular Evolution, 2002, 54, 145-155.	1.8	40
42	COA7(C1orf163/RESA1) mutations associated with mitochondrial leukoencephalopathy and cytochrome c oxidase deficiency. Journal of Medical Genetics, 2016, 53, 846-849.	3.2	40
43	A Cryptic Targeting Signal Creates a Mitochondrial FEN1 Isoform with Tailed R-Loop Binding Properties. PLoS ONE, 2013, 8, e62340.	2.5	36
44	DNA Sequence Variation in the Mitochondrial Control Region of Subterranean Mole Rats, Spalax ehrenbergi Superspecies, in Israel. Molecular Biology and Evolution, 2003, 20, 622-632.	8.9	33
45	Human mitochondrial transcription factor A (mtTFA): gene structure and characterization of related pseudogenes. Gene, 2002, 291, 223-232.	2.2	31
46	Mutation in the MICOS subunit gene APOO (MIC26) associated with an X-linked recessive mitochondrial myopathy, lactic acidosis, cognitive impairment and autistic features. Journal of Medical Genetics, 2021, 58, 155-167.	3.2	28
47	A novel de novo dominant mutation inISCUassociated with mitochondrial myopathy. Journal of Medical Genetics, 2017, 54, 815-824.	3.2	25
48	A two-nuclease pathway involving RNase H1 is required for primer removal at human mitochondrial OriL. Nucleic Acids Research, 2018, 46, 9471-9483.	14.5	25
49	Mutations in TIMM50 compromise cell survival in OxPhosâ€dependent metabolic conditions. EMBO Molecular Medicine, 2018, 10, .	6.9	23
50	Mitochondrial maintenance under oxidative stress depends on mitochondrial but not nuclear Î± isoform of OGG1. Journal of Cell Science, 2018, 131, .	2.0	21
51	Characterization of the heat shock protein 90 gene in the plant parasitic nematode Meloidogyne artiellia and its expression as related to different developmental stages and temperature. Gene, 2009, 440, 16-22.	2.2	20
52	Transcript availability dictates the balance between strand-asynchronous and strand-coupled mitochondrial DNA replication. Nucleic Acids Research, 2018, 46, 10771-10781.	14.5	20
53	Characterization of the (GAAA) microsatellite region in the plant parasitic nematode Meloidogyne artiellia. Gene, 2002, 293, 191-198.	2.2	19
54	Analysis of Mitochondrial DNA by Two-Dimensional Agarose Gel Electrophoresis. Methods in Molecular Biology, 2009, 554, 15-35.	0.9	19

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55	RCC1L (WBSCR16) isoforms coordinate mitochondrial ribosome assembly through their interaction with GTPases. PLoS Genetics, 2020, 16, e1008923.	3.5	18
56	Use of Molecular Markers for Detecting the Geographical Origin of Ceratitis capitata (Diptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702	2.5	17
57	Compound heterozygous missense and deep intronic variants in NDUFAF6 unraveled by exome sequencing and mRNA analysis. Journal of Human Genetics, 2018, 63, 563-568.	2.3	15
58	DNA polymerase gamma mutations that impair holoenzyme stability cause catalytic subunit depletion. Nucleic Acids Research, 2021, 49, 5230-5248.	14.5	15
59	Analysis of Replicating Mitochondrial DNA by Two-Dimensional Agarose Gel Electrophoresis. Methods in Molecular Biology, 2007, 372, 219-232.	0.9	14
60	RNase H1 Regulates Mitochondrial Transcription and Translation via the Degradation of 7S RNA. Frontiers in Genetics, 2019, 10, 1393.	2.3	12
61	Functionally pathogenic EARS2 variants in vitro may not manifest a phenotype in vivo. Neurology: Genetics, 2017, 3, e162.	1.9	11
62	Novel compound heterozygous pathogenic variants in nucleotide-binding protein like protein (NUBPL) cause leukoencephalopathy with multi-systemic involvement. Molecular Genetics and Metabolism, 2020, 129, 26-34.	1.1	9
63	Characterization of the mtTFA gene and identification of a processed pseudogene in rat. Gene, 2002, 286, 105-112.	2.2	7
64	The Role of DNA Repair in Maintaining Mitochondrial DNA Stability. Advances in Experimental Medicine and Biology, 2017, 1038, 85-105.	1.6	6
65	Genetic differentiation in Spanish populations of Ceratitis capitata as revealed by abundant soluble protein analysis. Genetica, 1998, 104, 59-66.	1.1	5
66	Neurodevelopmental regression, severe generalized dystonia, and metabolic acidosis caused by POLR3A mutations. Neurology: Genetics, 2020, 6, e521.	1.9	4
67	Analysis of Replicating Mitochondrial DNA by In Organello Labeling and Two-Dimensional Agarose Gel Electrophoresis. Methods in Molecular Biology, 2016, 1351, 95-113.	0.9	2