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	DNA polymerase gamma mutations that impair holoenzyme stability cause catalytic subunit depletion. Nucleic Acids Research, 2021, 49, 5230-5248.	14.5	15
2	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
3	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
4	Neurodevelopmental regression, severe generalized dystonia, and metabolic acidosis caused by POLR3A mutations. Neurology: Genetics, 2020, 6, e521.	1.9	4
5	RCC1L (WBSCR16) isoforms coordinate mitochondrial ribosome assembly through their interaction with GTPases. PLoS Genetics, 2020, 16, e1008923.	3.5	18
6	RNase H1 directs origin-specific initiation of DNA replication in human mitochondria. PLoS Genetics, 2019, 15, e1007781.	3.5	58
7	RNase H1 Regulates Mitochondrial Transcription and Translation via the Degradation of 7S RNA. Frontiers in Genetics, 2019, 10, 1393.	2.3	12
8	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
9	Transcript availability dictates the balance between strand-asynchronous and strand-coupled mitochondrial DNA replication. Nucleic Acids Research, 2018, 46, 10771-10781.	14.5	20
10	Mutations in TIMM50 compromise cell survival in OxPhosâ€dependent metabolic conditions. EMBO Molecular Medicine, 2018, 10, .	6.9	23
11	Mitochondrial maintenance under oxidative stress depends on mitochondrial but not nuclear Î± isoform of OGG1. Journal of Cell Science, 2018, 131, .	2.0	21
12	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
13	A novel de novo dominant mutation inISCUassociated with mitochondrial myopathy. Journal of Medical Genetics, 2017, 54, 815-824.	3.2	25
14	Functionally pathogenic EARS2 variants in vitro may not manifest a phenotype in vivo. Neurology: Genetics, 2017, 3, e162.	1.9	11
15	The Role of DNA Repair in Maintaining Mitochondrial DNA Stability. Advances in Experimental Medicine and Biology, 2017, 1038, 85-105.	1.6	6
16	COA7(C1orf163/RESA1) mutations associated with mitochondrial leukoencephalopathy and cytochrome c oxidase deficiency. Journal of Medical Genetics, 2016, 53, 846-849.	3.2	40
17	Defective <scp>PITRM</scp> 1 mitochondrial peptidase is associated with AÎ² amyloidotic neurodegeneration. EMBO Molecular Medicine, 2016, 8, 176-190.	6.9	60
18	New genes and pathomechanisms in mitochondrial disorders unraveled by NGS technologies. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1326-1335.	1.0	87

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19	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
20	Human Mitochondrial DNA-Protein Complexes Attach to a Cholesterol-Rich Membrane Structure. Scientific Reports, 2015, 5, 15292.	3.3	73
21	RNASEH1 Mutations Impair mtDNA Replication and Cause Adult-Onset Mitochondrial Encephalomyopathy. American Journal of Human Genetics, 2015, 97, 186-193.	6.2	91
22	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
23	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
24	Amino Acid Starvation Has Opposite Effects on Mitochondrial and Cytosolic Protein Synthesis. PLoS ONE, 2014, 9, e93597.	2.5	48
25	MPV17L2 is required for ribosome assembly in mitochondria. Nucleic Acids Research, 2014, 42, 8500-8515.	14.5	56
26	Linear mtDNA fragments and unusual mtDNA rearrangements associated with pathological deficiency of MGME1 exonuclease. Human Molecular Genetics, 2014, 23, 6147-6162.	2.9	64
27	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
28	Mutations in FBXL4, Encoding a Mitochondrial Protein, Cause Early-Onset Mitochondrial Encephalomyopathy. American Journal of Human Genetics, 2013, 93, 482-495.	6.2	138
29	PrimPol, an Archaic Primase/Polymerase Operating in Human Cells. Molecular Cell, 2013, 52, 541-553.	9.7	322
30	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
31	Alternative translation initiation augments the human mitochondrial proteome. Nucleic Acids Research, 2013, 41, 2354-2369.	14.5	56
32	A Cryptic Targeting Signal Creates a Mitochondrial FEN1 Isoform with Tailed R-Loop Binding Properties. PLoS ONE, 2013, 8, e62340.	2.5	36
33	Human Mitochondrial DNA Replication. Cold Spring Harbor Perspectives in Biology, 2012, 4, a012971-a012971.	5.5	121
34	Minimizing the damage: repair pathways keep mitochondrial DNA intact. Nature Reviews Molecular Cell Biology, 2012, 13, 659-671.	37.0	324
35	Human telomerase acts as a hTR-independent reverse transcriptase in mitochondria. Nucleic Acids Research, 2012, 40, 712-725.	14.5	142
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	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
38	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
39	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
40	Analysis of Mitochondrial DNA by Two-Dimensional Agarose Gel Electrophoresis. Methods in Molecular Biology, 2009, 554, 15-35.	0.9	19
41	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
42	The mitochondrial transcription termination factor mTERF modulates replication pausing in human mitochondrial DNA. Nucleic Acids Research, 2007, 35, 6458-6474.	14.5	95
43	Mammalian mitochondrial nucleoids: Organizing an independently minded genome. Mitochondrion, 2007, 7, 311-321.	3.4	142
44	Analysis of Replicating Mitochondrial DNA by Two-Dimensional Agarose Gel Electrophoresis. Methods in Molecular Biology, 2007, 372, 219-232.	0.9	14
45	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
46	Replication of vertebrate mitochondrial DNA entails transient ribonucleotide incorporation throughout the lagging strand. EMBO Journal, 2006, 25, 5358-5371.	7.8	205
47	A Novel Lipoxygenase in Pea Roots. Its Function in Wounding and Biotic Stress. Plant Physiology, 2006, 141, 1045-1055.	4.8	54
48	Bidirectional Replication Initiates at Sites Throughout the Mitochondrial Genome of Birds. Journal of Biological Chemistry, 2005, 280, 3242-3250.	3.4	71
49	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
50	Congruent Mammalian Trees from Mitochondrial and Nuclear Genes Using Bayesian Methods. Molecular Biology and Evolution, 2003, 21, 397-403.	8.9	111
51	Mammalian Mitochondrial DNA Replicates Bidirectionally from an Initiation Zone. Journal of Biological Chemistry, 2003, 278, 50961-50969.	3.4	174
52	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
53	Biased Incorporation of Ribonucleotides on the Mitochondrial L-Strand Accounts for Apparent Strand-Asymmetric DNA Replication. Cell, 2002, 111, 495-505.	28.9	238
54	Mitochondrial DNA in metazoa: degree of freedom in a frozen event. Gene, 2002, 286, 3-12.	2.2	97

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55	Characterization of the mtTFA gene and identification of a processed pseudogene in rat. Gene, 2002, 286, 105-112.	2.2	7
56	Human mitochondrial transcription factor A (mtTFA): gene structure and characterization of related pseudogenes. Gene, 2002, 291, 223-232.	2.2	31
57	Characterization of the (GAAA) microsatellite region in the plant parasitic nematode Meloidogyne artiellia. Gene, 2002, 293, 191-198.	2.2	19
58	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
59	Evolutionary History of the Most Speciose Mammals: Molecular Phylogeny of Muroid Rodents. Molecular Biology and Evolution, 2001, 18, 2017-2031.	8.9	148
60	Where Do Rodents Fit? Evidence from the Complete Mitochondrial Genome of Sciurus vulgaris. Molecular Biology and Evolution, 2000, 17, 979-983.	8.9	110
61	Lineage-Specific Evolutionary Rate in Mammalian mtDNA. Molecular Biology and Evolution, 2000, 17, 1022-1031.	8.9	107
62	Long-branch attraction phenomenon and the impact of among-site rate variation on rodent phylogeny. Gene, 2000, 259, 177-187.	2.2	45
63	Evolution of the mitochondrial genetic system: an overview. Gene, 2000, 261, 153-159.	2.2	122
64	Evolutionary genomics in Metazoa: the mitochondrial DNA as a model system. Gene, 1999, 238, 195-209.	2.2	396
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	Use of Molecular Markers for Detecting the Geographical Origin of Ceratitis capitata (Diptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302	2.5	17
67	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