JosÃ© M Gualberto

List of Publications by Year
in descending order

64	6,063	109321	118850
papers	citations	35 h-index	62 g-index

67	67	67	4939
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Assessment of Mitochondrial DNA Copy Number, Stability, and Repair in. Methods in Molecular Biology, 2022, 2363, 301-319.	0.9	1
2	RADA-dependent branch migration has a predominant role in plant mitochondria and its defect leads to mtDNA instability and cell cycle arrest. PLoS Genetics, 2022, 18, e1010202.	3.5	2
3	Sequence of the Mitochondrial Genome of Lactuca virosa Suggests an Unexpected Role in Lactuca sativaâ€™s Evolution. Frontiers in Plant Science, 2021, 12, 697136.	3.6	4
4	Reciprocal cybrids reveal how organellar genomes affect plant phenotypes. Nature Plants, 2020, 6, 13-21.	9.3	40
5	DNA Repair and the Stability of the Plant Mitochondrial Genome. International Journal of Molecular Sciences, 2020, 21, 328.	4.1	86
6	Complete Sequence, Multichromosomal Architecture and Transcriptome Analysis of the Solanum tuberosum Mitochondrial Genome. International Journal of Molecular Sciences, 2019, 20, 4788.	4.1	44
7	Mitochondrial Transcriptome Control and Intercompartment Cross-Talk During Plant Development. Cells, 2019, 8, 583.	4.1	7
8	Role of pyrimidine salvage pathway in the maintenance of organellar and nuclear genome integrity. Plant Journal, 2019, 97, 430-446.	5.7	16
9	Efficient Replication of the Plastid Genome Requires an Organellar Thymidine Kinase. Plant Physiology, 2018, 178, 1643-1656.	4.8	13
10	Arabidopsis Seed Mitochondria Are Bioenergetically Active Immediately upon Imbibition and Specialize via Biogenesis in Preparation for Autotrophic Growth. Plant Cell, 2017, 29, 109-128.	6.6	135
11	Plant Mitochondrial Genomes: Dynamics and Mechanisms of Mutation. Annual Review of Plant Biology, 2017, 68, 225-252.	18.7	308
12	Plastidic P2 glucose-6P dehydrogenase from poplar is modulated by thioredoxin m-type: Distinct roles of cysteine residues in redox regulation and NADPH inhibition. Plant Science, 2016, 252, 257-266.	3.6	28
13	Insights into ascorbate regeneration in plants: investigating the redox and structural properties of dehydroascorbate reductases from Populus trichocarpa. Biochemical Journal, 2016, 473, 717-731.	3.7	17
14	The RECG1 DNA Translocase Is a Key Factor in Recombination Surveillance, Repair, and Segregation of the Mitochondrial DNA in Arabidopsis. Plant Cell, 2015, 27, tpc.15.00680.	6.6	55
15	Organellar non-coding RNAs: Emerging regulation mechanisms. Biochimie, 2015, 117, 48-62.	2.6	52
16	The RAD52-like protein ODB1 is required for the efficient excision of two mitochondrial introns spliced via first-step hydrolysis. Nucleic Acids Research, 2015, 43, 6500-6510.	14.5	29
17	Glutathionyl-hydroquinone reductases from poplar are plastidial proteins that deglutathionylate both reduced and oxidized glutathionylated quinones. FEBS Letters, 2015, 589, 37-44.	2.8	16
18	Structural and enzymatic insights into Lambda glutathione transferases from Populus trichocarpa, monomeric enzymes constituting an early divergent class specific to terrestrial plants. Biochemical Journal, 2014, 462, 39-52.	3.7	46

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19	The plant mitochondrial genome: Dynamics and maintenance. Biochimie, 2014, 100, 107-120.	2.6	231
20	DNA-binding proteins in plant mitochondria: Implications for transcription. Mitochondrion, 2014, 19, 323-328.	3.4	35
21	Monothiol Glutaredoxinâ€“BolA Interactions: Redox Control of Arabidopsis thaliana BolA2 and SufE1. Molecular Plant, 2014, 7, 187-205.	8.3	70
22	RecA-Dependent DNA Repair Results in Increased Heteroplasmy of the Arabidopsis Mitochondrial Genome Â Â. Plant Physiology, 2012, 159, 211-226.	4.8	78
23	Effects of Reduced Chloroplast Gene Copy Number on Chloroplast Gene Expression in Maize Â Â. Plant Physiology, 2012, 160, 1420-1431.	4.8	60
24	A RAD52â€like singleâ€stranded DNA binding protein affects mitochondrial DNA repair by recombination. Plant Journal, 2012, 72, 423-435.	5.7	39
25	Atypical Thioredoxins in Poplar: The Glutathione-Dependent Thioredoxin-Like 2.1 Supports the Activity of Target Enzymes Possessing a Single Redox Active Cysteine Â. Plant Physiology, 2012, 159, 592-605.	4.8	39
26	Recombination in the Stability, Repair and Evolution of the Mitochondrial Genome. Advances in Botanical Research, 2012, 63, 215-252.	1.1	24
27	Arabidopsis tRNA Adenosine Deaminase Arginine Edits the Wobble Nucleotide of Chloroplast tRNAArg(ACG) and Is Essential for Efficient Chloroplast Translation. Plant Cell, 2009, 21, 2058-2071.	6.6	69
28	Structure-Function Relationship of the Chloroplastic Glutaredoxin S12 with an Atypical WCSYS Active Site. Journal of Biological Chemistry, 2009, 284, 9299-9310.	3.4	80
29	Chloroplast ribonucleoprotein CP31A is required for editing and stability of specific chloroplast mRNAs. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6002-6007.	7.1	109
30	Chloroplast monothiol glutaredoxins as scaffold proteins for the assembly and delivery of [2Feâ€“2S] clusters. EMBO Journal, 2008, 27, 1122-1133.	7.8	231
31	Functional, structural, and spectroscopic characterization of a glutathione-ligated [2Feâ€“2S] cluster in poplar glutaredoxin C1. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 7379-7384.	7.1	166
32	The Plant-Specific ssDNA Binding Protein OSB1 Is Involved in the Stoichiometric Transmission of Mitochondrial DNA in Arabidopsis Â. Plant Cell, 2007, 18, 3548-3563.	6.6	126
33	Plant mitochondrial genes can be expressed from mRNAs lacking stop codons. FEBS Letters, 2006, 580, 5641-5646.	2.8	47
34	Plant Glutathione Peroxidases Are Functional Peroxiredoxins Distributed in Several Subcellular Compartments and Regulated during Biotic and Abiotic Stresses. Plant Physiology, 2006, 142, 1364-1379.	4.8	329
35	Genome-Wide Analysis of Arabidopsis Pentatricopeptide Repeat Proteins Reveals Their Essential Role in Organelle Biogenesis[W]. Plant Cell, 2004, 16, 2089-2103.	6.6	1,132
36	Two Exoribonucleases Act Sequentially to Process Mature 3â€²-Ends of atp9 mRNAs in Arabidopsis Mitochondria. Journal of Biological Chemistry, 2004, 279, 25440-25446.	3.4	79

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37	Poplar Peroxiredoxin Q. A Thioredoxin-Linked Chloroplast Antioxidant Functional in Pathogen Defense. Plant Physiology, 2004, 134, 1027-1038.	4.8	155
38	A specific form of thioredoxin h occurs in plant mitochondria and regulates the alternative oxidase. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 14545-14550.	7.1	241
39	Gene Expression in Higher Plant Mitochondria. Advances in Photosynthesis and Respiration, 2004, , 55-81.	1.0	7
40	A family of RRM-type RNA-binding proteins specific to plant mitochondria. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 5866-5871.	7.1	102
41	Plant mitochondrial rps2 genes code for proteins with a C-terminal extension that is processed. Plant Molecular Biology, 2002, 50, 523-533.	3.9	25
42	Purification, characterization and cloning of isovaleryl-CoA dehydrogenase from higher plant mitochondria. FEBS Journal, 2001, 268, 1332-1339.	0.2	32
43	Wheat mitochondria ccmB encodes the membrane domain of a putative ABC transporter involved in cytochrome c biogenesis. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2001, 1519, 199-208.	2.4	25
44	A prokaryotic-type cytidine deaminase from Arabidopsis thaliana . Gene expression and functional characterization. FEBS Journal, 1999, 263, 896-903.	0.2	45
45	Characterization of a plant mitochondrial active chromosome. FEBS Letters, 1999, 458, 124-128.	2.8	19
46	Cis- and trans-splicing and RNA editing are required for the expression of nad2 in wheat mitochondria. Molecular Genetics and Genomics, 1998, 258, 503-511.	2.4	17
47	A gene coding for an RPS2 protein is present in the mitochondrial genome of several cereals, but not in dicotyledons. Molecular Genetics and Genomics, 1998, 258, 530-537.	2.4	9
48	The cox1 gene from Euglena gracilis: a protist mitochondrial gene without introns and genetic code modifications Received: 10 October / 22 November 1996. Current Genetics, 1997, 31, 208-213.	1.7	31
49	RNA editing in plant mitochondria and chloroplasts. Plant Molecular Biology, 1996, 32, 343-365.	3.9	188
50	RNA editing in plant mitochondria and chloroplasts. , 1996, , 343-365.		6
51	An upstream U-snRNA gene-like promoter is required for transcription of theArabidopsis thaliana7SL RNA gene. Nucleic Acids Research, 1995, 23, 1970-1976.	14.5	22
52	Characterization of the mitochondrial orfB gene and its derivative, orf224, a chimeric open reading frame specific to one mitochondrial genome of the ?Polima? male-sterile cytoplasm in rapeseed (Brassica napus L.). Current Genetics, 1995, 28, 546-552.	1.7	45
53	Chapter 12 Isolation and Fractionation of Plant Mitochondria and Chloroplasts: Specific Examples. Methods in Cell Biology, 1995, 50, 161-175.	1.1	13
54	Higher plant mitochondria encode an homologue of the nuclear-encoded 30-kDa subunit of bovine mitochondrial complex I. FEBS Journal, 1993, 217, 831-838.	0.2	154

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55	Sequence of theArabidopsis thaliana7SL RNA gene. Nucleic Acids Research, 1993, 21, 3581-3581.	14.5	10
56	RNA editing in plant mitochondria. Critical Reviews in Plant Sciences, 1992, 10, 503-524.	5.7	64
57	Expression of the wheat mitochondrial nad3-rps12 transcription unit: correlation between editing and mRNA maturation.. Plant Cell, 1991, 3, 1109-1120.	6.6	141
58	RNA Editing in Wheat Mitochondria: A New Mechanism for the Modulation of Gene Expression. , 1991, , 365-373.		0
59	Structure and transcription of the gene coding for subunit 3 of cytochrome oxidase in wheat mitochondria. Current Genetics, 1990, 17, 41-47.	1.7	43
60	Editing of the wheatcoxIII transcript: evidence for twelve C to U and one U to C conversions and for sequence similarities around editing sites. Nucleic Acids Research, 1990, 18, 3771-3776.	14.5	142
61	Nucleotide sequence of the wheat mitochondrial tRNAGlu(UUC) gene. Nucleic Acids Research, 1989, 17, 3586-3586.	14.5	10
62	RNA editing in wheat mitochondria results in the conservation of protein sequences. Nature, 1989, 341, 660-662.	27.8	503
63	The genes coding for subunit 3 of NADH dehydrogenase and for ribosomal protein S12 are present in the wheat and maize mitochondrial genomes and are co-transcribed. Molecular Genetics and Genomics, 1988, 215, 118-127.	2.4	162
64	Regulation of mitochondrial proteolysis. FEBS Letters, 1987, 210, 142-146.	2.8	8