Teresa Roldan-Arjona

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8541962/publications.pdf

Version: 2024-02-01

61 papers	3,637 citations	159585 30 h-index	144013 57 g-index
61 all docs	61 docs citations	61 times ranked	2882 citing authors

#	Article	IF	Citations
1	Complementary Functions of Plant AP Endonucleases and AP Lyases during DNA Repair of Abasic Sites Arising from C:G Base Pairs. International Journal of Molecular Sciences, 2021, 22, 8763.	4.1	2
2	Editorial: Plant Genome-Epigenome Integrity Under Environmental Stress. Frontiers in Plant Science, 2020, 11, 584126.	3.6	0
3	DNA Methylation Editing by CRISPR-guided Excision of 5-Methylcytosine. Journal of Molecular Biology, 2020, 432, 2204-2216.	4.2	40
4	Chapter 18. Base Excision Repair in Plants: Variations on a Theme. Chemical Biology, 2020, , 48-74.	0.2	1
5	Abstract P4-10-28: Identification of a specific epigenetic signature in patients showing secondary hypertension upon anti-VEGF treatment from the GEICAM/2011-04 (BRECOL) study. , 2020, , .		0
6	DNA Base Excision Repair in Plants: An Unfolding Story With Familiar and Novel Characters. Frontiers in Plant Science, 2019, 10, 1055.	3.6	54
7	Active DNA Demethylation in Plants. International Journal of Molecular Sciences, 2019, 20, 4683.	4.1	44
8	Characterization of an AP endonuclease from sugarcane â€“ ScARP1. Biochemical and Biophysical Research Communications, 2019, 514, 926-932.	2.1	4
9	Nonenzymatic release of N7-methylguanine channels repair of abasic sites into an AP endonuclease-independent pathway in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E916-E924.	7.1	15
10	Monitoring base excision repair in Chlamydomonas reinhardtii cell extracts. DNA Repair, 2018, 65, 34-41.	2.8	6
11	DNA methylation reprogramming of human cancer cells by expression of a plant 5-methylcytosine DNA glycosylase. Epigenetics, 2018, 13, 95-107.	2.7	8
12	Targeted DNA demethylation in human cells by fusion of a plant 5-methylcytosine DNA glycosylase to a sequence-specific DNA binding domain. Epigenetics, 2017, 12, 296-303.	2.7	19
13	Dual control of ROS1â€mediated active DNA demethylation by DNA damageâ€binding protein 2 (DDB2). Plant Journal, 2017, 92, 1170-1181.	5.7	10
14	An AP Endonuclease Functions in Active DNA Demethylation and Gene Imprinting in Arabidopsis. PLoS Genetics, 2015, 11, e1004905.	3.5	53
15	Arabidopsis <scp>ZDP DNA</scp> 3â€²â€phosphatase and <scp>ARP</scp> endonuclease function in 8â€oxoG repair initiated by <scp>FPG</scp> and <scp>OGG</scp>1 <scp>DNA</scp> glycosylases. Plant Journal, 2014, 79, 824-834.	5.7	51
16	Early steps of active DNA demethylation initiated by ROS1 glycosylase require three putative helix-invading residues. Nucleic Acids Research, 2013, 41, 8654-8664.	14.5	15
17	Molecular characterization of a putative plant homolog of MBD4 DNA glycosylase. DNA Repair, 2013, 12, 890-898.	2.8	16
18	The DNA Repair Protein XRCC1 Functions in the Plant DNA Demethylation Pathway by Stimulating Cytosine Methylation (5-meC) Excision, Gap Tailoring, and DNA Ligation*. Journal of Biological Chemistry, 2013, 288, 5496-5505.	3.4	32

#	Article	IF	Citations
19	Demethylation initiated by ROS1 glycosylase involves random sliding along DNA. Nucleic Acids Research, 2012, 40, 11554-11562.	14.5	23
20	A DNA 3â€² Phosphatase Functions in Active DNA Demethylation in Arabidopsis. Molecular Cell, 2012, 45, 357-370.	9.7	81
21	Using Arabidopsis Cell Extracts to Monitor Repair of DNA Base Damage In Vitro. Methods in Molecular Biology, 2012, 920, 263-277.	0.9	4
22	Homologous Recombination Is Stimulated by a Decrease in dUTPase in Arabidopsis. PLoS ONE, 2011, 6, e18658.	2.5	24
23	Arabidopsis ARP endonuclease functions in a branched base excision DNA repair pathway completed by LIG1. Plant Journal, 2011, 68, 693-702.	5.7	42
24	A discontinuous DNA glycosylase domain in a family of enzymes that excise 5-methylcytosine. Nucleic Acids Research, 2011, 39, 1473-1484.	14.5	26
25	Methylation-independent DNA Binding Modulates Specificity of Repressor of Silencing 1 (ROS1) and Facilitates Demethylation in Long Substrates. Journal of Biological Chemistry, 2010, 285, 23032-23039.	3.4	37
26	Arabidopsis Uracil DNA Glycosylase (UNG) Is Required for Base Excision Repair of Uracil and Increases Plant Sensitivity to 5-Fluorouracil. Journal of Biological Chemistry, 2010, 285, 7475-7483.	3.4	40
27	ROS1 5-methylcytosine DNA glycosylase is a slow-turnover catalyst that initiates DNA demethylation in a distributive fashion. Nucleic Acids Research, 2009, 37, 4264-4274.	14.5	42
28	Singleâ€nucleotide and longâ€patch base excision repair of DNA damage in plants. Plant Journal, 2009, 60, 716-728.	5.7	48
29	Repair and tolerance of oxidative DNA damage in plants. Mutation Research - Reviews in Mutation Research, 2009, 681, 169-179.	5.5	195
30	Arabidopsis DEMETER-LIKE proteins DML2 and DML3 are required for appropriate distribution of DNA methylation marks. Plant Molecular Biology, 2008, 67, 671-681.	3.9	241
31	Promoter DNA Hypermethylation and Gene Repression in Undifferentiated Arabidopsis Cells. PLoS ONE, 2008, 3, e3306.	2.5	99
32	The noncatalytic C-terminus of AtPOLK Y-family DNA polymerase affects synthesis fidelity, mismatch extension and translesion replication. FEBS Journal, 2007, 274, 3340-3350.	4.7	15
33	DEMETER and REPRESSOR OF SILENCING 1 encode 5-methylcytosine DNA glycosylases. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6853-6858.	7.1	306
34	Arabidopsis thaliana AtPOLKencodes a DinB-like DNA polymerase that extends mispaired primer termini and is highly expressed in a variety of tissues. Plant Journal, 2004, 39, 84-97.	5.7	43
35	Arabidopsis thalianaOgg1 Protein Excises 8-Hydroxyguanine and 2,6-Diamino-4-hydroxy-5-formamidopyrimidine from Oxidatively Damaged DNA Containing Multiple Lesions. Biochemistry, 2003, 42, 3089-3095.	2.5	38
36	The photolyase gene from the plant pathogen Fusarium oxysporum f. sp. lycopersici is induced by visible light and l±-tomatine from tomato plant. Fungal Genetics and Biology, 2003, 40, 159-165.	2.1	26

#	Article	IF	Citations
37	Assignment of the CD47 gene to pig chromosome band 13q42â†'1/2q46 with somatic cell hybrids. Cytogenetic and Genome Research, 2002, 97, 276E-276E.	1.1	0
38	ROS1, a Repressor of Transcriptional Gene Silencing in Arabidopsis, Encodes a DNA Glycosylase/Lyase. Cell, 2002, 111, 803-814.	28.9	653
39	Pantothenate synthetase from Fusarium oxysporum f. sp. lycopersici is induced by Î±-tomatine. Molecular Genetics and Genomics, 2001, 265, 922-929.	2.1	8
40	A Chemiluminescent Method for the Detection of DNA Glycosylase/Lyase Activity. Analytical Biochemistry, 2001, 298, 127-129.	2.4	3
41	An OGG1 orthologue encoding a functional 8-oxoguanine DNA glycosylase/lyase in Arabidopsis thaliana. Plant Molecular Biology, 2001, 47, 795-804.	3.9	68
42	Metabolism of the tomato saponin Î±-tomatine by phytopathogenic fungi. Studies in Natural Products Chemistry, 2001, , 293-326.	1.8	11
43	cDNA cloning, expression and functional characterization of an Arabidopsis thaliana homologue of the Escherichia coli DNA repair enzyme endonuclease III. Plant Molecular Biology, 2000, 44, 43-52.	3.9	36
44	Excision of Products of Oxidative DNA Base Damage by Human NTH1 Protein. Biochemistry, 1999, 38, 243-246.	2.5	97
45	Tomatinase from Fusarium oxysporum f. sp. lycopersici Defines a New Class of Saponinases. Molecular Plant-Microbe Interactions, 1999, 12, 852-861.	2.6	83
46	Substrate Specificity ofSchizosaccharomyces pombeNth Protein for Products of Oxidative DNA Damage. Biochemistry, 1998, 37, 590-595.	2.5	46
47	Guanine is the target for direct ionisation damage in DNA, as detected using excision enzymes. Nucleic Acids Research, 1998, 26, 4935-4942.	14.5	59
48	Cloning and characterization of a functional human homolog of Escherichia coli endonuclease III. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 109-114.	7.1	266
49	Molecular cloning and functional expression of a human cDNA encoding the antimutator enzyme 8-hydroxyguanine-DNAâ€‰glycosylase. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 8016-8020.	7.1	354
50	Irradiation of DNA with 193 nm Light Yields FormamidopyrimidineâDNA Glycosylase (Fpg) Proteinâ€Sensitive Lesions. Photochemistry and Photobiology, 1997, 65, 660-665.	2.5	37
51	DNA base damage induced by ionizing radiation recognized byEscherichia coli UvrABC nuclease but not Nth or Fpg proteins. , 1996, 16, 188-196.		14
52	Molecular cloning and functional analysis of a Schizosaccharomyces pombe homologue of Escherichia coli endonuclease III. Nucleic Acids Research, 1996, 24, 3307-3312.	14.5	71
53	Mathematical parameters for quantification of mutational responses in bacteria. Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis, 1995, 346, 77-84.	1.1	4
54	Influence of DNA repair byada andogt alkytransferases on the mutational specificity of alkylating agents. Molecular Carcinogenesis, 1994, 9, 200-209.	2.7	14

#	Article	IF	Citations
55	Mutagenic and lethal effects of halogenated methanes in the Ara test of Salmonella typhimurium: quantitative relationship with chemical reactivity. Mutagenesis, 1993, 8, 127-131.	2.6	14
56	A method for selection of forward mutations in supF gene carried by shuttle-vector plasmids. Carcinogenesis, 1993, 14, 303-305.	2.8	28
57	Mutagenesis and DNA repair for alkylation damages in Escherichia coli kâ€12. Environmental and Molecular Mutagenesis, 1992, 19, 288-296.	2.2	32
58	An association between mutagenicity of the Ara test of Salmonella typhimurium and carcinogenicity in rodents for 16 halogenated aliphatic hydrocarbons. Mutagenesis, 1991, 6, 199-205.	2.6	27
59	Influence of S9 mix on the expression of mutants in the l-arabinose resistance test of Salmonella typhimurium. Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis, 1990, 243, 303-308.	1.1	1
60	Quantitative relationship between mutagenic potency in the Ara test of Salmonella typhimurium and carcinogenic potency in rodents. A study of 11 direct-acting monofunctional alkylating agents. Carcinogenesis, 1990, 11, 975-980.	2.8	9
61	Simple method for precise determination of chemical lethality in the l-arabinose resistance test of Salmonella typhimurium. Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis, 1989, 226, 175-180.	1.1	2