

Teresa Roldan-Arjona

List of Publications by Year in descending order

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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	ROS1, a Repressor of Transcriptional Gene Silencing in Arabidopsis, Encodes a DNA Glycosylase/Lyase. <i>Cell</i> , 2002, 111, 803-814.	28.9	653
2	Molecular cloning and functional expression of a human cDNA encoding the antimutator enzyme 8-hydroxyguanine-DNA glycosylase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 8016-8020.	7.1	354
3	DEMETER and REPRESSOR OF SILENCING 1 encode 5-methylcytosine DNA glycosylases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 6853-6858.	7.1	306
4	Cloning and characterization of a functional human homolog of <i>Escherichia coli</i> endonuclease III. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 109-114.	7.1	266
5	Arabidopsis DEMETER-LIKE proteins DML2 and DML3 are required for appropriate distribution of DNA methylation marks. <i>Plant Molecular Biology</i> , 2008, 67, 671-681.	3.9	241
6	Repair and tolerance of oxidative DNA damage in plants. <i>Mutation Research - Reviews in Mutation Research</i> , 2009, 681, 169-179.	5.5	195
7	Promoter DNA Hypermethylation and Gene Repression in Undifferentiated Arabidopsis Cells. <i>PLoS ONE</i> , 2008, 3, e3306.	2.5	99
8	Excision of Products of Oxidative DNA Base Damage by Human NTH1 Protein. <i>Biochemistry</i> , 1999, 38, 243-246.	2.5	97
9	Tomatinase from <i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i> Defines a New Class of Saponinases. <i>Molecular Plant-Microbe Interactions</i> , 1999, 12, 852-861.	2.6	83
10	A DNA 3' Phosphatase Functions in Active DNA Demethylation in Arabidopsis. <i>Molecular Cell</i> , 2012, 45, 357-370.	9.7	81
11	Molecular cloning and functional analysis of a <i>Schizosaccharomyces pombe</i> homologue of <i>Escherichia coli</i> endonuclease III. <i>Nucleic Acids Research</i> , 1996, 24, 3307-3312.	14.5	71
12	An OGG1 orthologue encoding a functional 8-oxoguanine DNA glycosylase/lyase in Arabidopsis thaliana. <i>Plant Molecular Biology</i> , 2001, 47, 795-804.	3.9	68
13	Guanine is the target for direct ionisation damage in DNA, as detected using excision enzymes. <i>Nucleic Acids Research</i> , 1998, 26, 4935-4942.	14.5	59
14	DNA Base Excision Repair in Plants: An Unfolding Story With Familiar and Novel Characters. <i>Frontiers in Plant Science</i> , 2019, 10, 1055.	3.6	54
15	An AP Endonuclease Functions in Active DNA Demethylation and Gene Imprinting in Arabidopsis. <i>PLoS Genetics</i> , 2015, 11, e1004905.	3.5	53
16	Arabidopsis ZDP DNA 3' phosphatase and ARP endonuclease function in 8-oxoG repair initiated by FPG and OGG1 DNA glycosylases. <i>Plant Journal</i> , 2014, 79, 824-834.	5.7	51
17	Single nucleotide and long patch base excision repair of DNA damage in plants. <i>Plant Journal</i> , 2009, 60, 716-728.	5.7	48
18	Substrate Specificity of <i>Schizosaccharomyces pombe</i> Nth Protein for Products of Oxidative DNA Damage. <i>Biochemistry</i> , 1998, 37, 590-595.	2.5	46

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19	Active DNA Demethylation in Plants. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4683.	4.1	44
20	<i>Arabidopsis thaliana</i> AtPOLK encodes a DinB-like DNA polymerase that extends mispaired primer termini and is highly expressed in a variety of tissues. <i>Plant Journal</i> , 2004, 39, 84-97.	5.7	43
21	ROS1 5-methylcytosine DNA glycosylase is a slow-turnover catalyst that initiates DNA demethylation in a distributive fashion. <i>Nucleic Acids Research</i> , 2009, 37, 4264-4274.	14.5	42
22	<i>Arabidopsis</i> ARP endonuclease functions in a branched base excision DNA repair pathway completed by LIG1. <i>Plant Journal</i> , 2011, 68, 693-702.	5.7	42
23	<i>Arabidopsis</i> Uracil DNA Glycosylase (UNG) Is Required for Base Excision Repair of Uracil and Increases Plant Sensitivity to 5-Fluorouracil. <i>Journal of Biological Chemistry</i> , 2010, 285, 7475-7483.	3.4	40
24	DNA Methylation Editing by CRISPR-guided Excision of 5-Methylcytosine. <i>Journal of Molecular Biology</i> , 2020, 432, 2204-2216.	4.2	40
25	<i>Arabidopsis thaliana</i> Ogg1 Protein Excises 8-Hydroxyguanine and 2,6-Diamino-4-hydroxy-5-formamidopyrimidine from Oxidatively Damaged DNA Containing Multiple Lesions. <i>Biochemistry</i> , 2003, 42, 3089-3095.	2.5	38
26	Irradiation of DNA with 193 nm Light Yields Formamidopyrimidine-DNA Glycosylase (Fpg) Protein-Sensitive Lesions. <i>Photochemistry and Photobiology</i> , 1997, 65, 660-665.	2.5	37
27	Methylation-independent DNA Binding Modulates Specificity of Repressor of Silencing 1 (ROS1) and Facilitates Demethylation in Long Substrates. <i>Journal of Biological Chemistry</i> , 2010, 285, 23032-23039.	3.4	37
28	cDNA cloning, expression and functional characterization of an <i>Arabidopsis thaliana</i> homologue of the <i>Escherichia coli</i> DNA repair enzyme endonuclease III. <i>Plant Molecular Biology</i> , 2000, 44, 43-52.	3.9	36
29	Mutagenesis and DNA repair for alkylation damages in <i>Escherichia coli</i> . <i>Environmental and Molecular Mutagenesis</i> , 1992, 19, 288-296.	2.2	32
30	The DNA Repair Protein XRCC1 Functions in the Plant DNA Demethylation Pathway by Stimulating Cytosine Methylation (5-meC) Excision, Gap Tailoring, and DNA Ligation*. <i>Journal of Biological Chemistry</i> , 2013, 288, 5496-5505.	3.4	32
31	A method for selection of forward mutations in supF gene carried by shuttle-vector plasmids. <i>Carcinogenesis</i> , 1993, 14, 303-305.	2.8	28
32	An association between mutagenicity of the Ara test of <i>Salmonella typhimurium</i> and carcinogenicity in rodents for 16 halogenated aliphatic hydrocarbons. <i>Mutagenesis</i> , 1991, 6, 199-205.	2.6	27
33	The photolyase gene from the plant pathogen <i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i> is induced by visible light and l-tryptophan from tomato plant. <i>Fungal Genetics and Biology</i> , 2003, 40, 159-165.	2.1	26
34	A discontinuous DNA glycosylase domain in a family of enzymes that excise 5-methylcytosine. <i>Nucleic Acids Research</i> , 2011, 39, 1473-1484.	14.5	26
35	Homologous Recombination Is Stimulated by a Decrease in dUTPase in <i>Arabidopsis</i> . <i>PLoS ONE</i> , 2011, 6, e18658.	2.5	24
36	Demethylation initiated by ROS1 glycosylase involves random sliding along DNA. <i>Nucleic Acids Research</i> , 2012, 40, 11554-11562.	14.5	23

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37	Targeted DNA demethylation in human cells by fusion of a plant 5-methylcytosine DNA glycosylase to a sequence-specific DNA binding domain. <i>Epigenetics</i> , 2017, 12, 296-303.	2.7	19
38	Molecular characterization of a putative plant homolog of MBD4 DNA glycosylase. <i>DNA Repair</i> , 2013, 12, 890-898.	2.8	16
39	The noncatalytic C-terminus of AtPOLK Y-family DNA polymerase affects synthesis fidelity, mismatch extension and translesion replication. <i>FEBS Journal</i> , 2007, 274, 3340-3350.	4.7	15
40	Early steps of active DNA demethylation initiated by ROS1 glycosylase require three putative helix-invading residues. <i>Nucleic Acids Research</i> , 2013, 41, 8654-8664.	14.5	15
41	Nonenzymatic release of N7-methylguanine channels repair of abasic sites into an AP endonuclease-independent pathway in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E916-E924.	7.1	15
42	Mutagenic and lethal effects of halogenated methanes in the Ara test of <i>Salmonella typhimurium</i> : quantitative relationship with chemical reactivity. <i>Mutagenesis</i> , 1993, 8, 127-131.	2.6	14
43	Influence of DNA repair byada andogt alkytransferases on the mutational specificity of alkylating agents. <i>Molecular Carcinogenesis</i> , 1994, 9, 200-209.	2.7	14
44	DNA base damage induced by ionizing radiation recognized by <i>Escherichia coli</i> UvrABC nuclease but not Nth or Fpg proteins. , 1996, 16, 188-196.		14
45	Metabolism of the tomato saponin Î±-tomatine by phytopathogenic fungi. <i>Studies in Natural Products Chemistry</i> , 2001, , 293-326.	1.8	11
46	Dual control of ROS1â€mediated active DNA demethylation by DNA damageâ€binding protein 2 (DDB2). <i>Plant Journal</i> , 2017, 92, 1170-1181.	5.7	10
47	Quantitative relationship between mutagenic potency in the Ara test of <i>Salmonella typhimurium</i> and carcinogenic potency in rodents. A study of 11 direct-acting monofunctional alkylating agents. <i>Carcinogenesis</i> , 1990, 11, 975-980.	2.8	9
48	Pantothenate synthetase from <i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i> is induced by Î±-tomatine. <i>Molecular Genetics and Genomics</i> , 2001, 265, 922-929.	2.1	8
49	DNA methylation reprogramming of human cancer cells by expression of a plant 5-methylcytosine DNA glycosylase. <i>Epigenetics</i> , 2018, 13, 95-107.	2.7	8
50	Monitoring base excision repair in <i>Chlamydomonas reinhardtii</i> cell extracts. <i>DNA Repair</i> , 2018, 65, 34-41.	2.8	6
51	Mathematical parameters for quantification of mutational responses in bacteria. <i>Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1995, 346, 77-84.	1.1	4
52	Using <i>Arabidopsis</i> Cell Extracts to Monitor Repair of DNA Base Damage In Vitro. <i>Methods in Molecular Biology</i> , 2012, 920, 263-277.	0.9	4
53	Characterization of an AP endonuclease from sugarcane â€“ ScARP1. <i>Biochemical and Biophysical Research Communications</i> , 2019, 514, 926-932.	2.1	4
54	A Chemiluminescent Method for the Detection of DNA Glycosylase/Lyase Activity. <i>Analytical Biochemistry</i> , 2001, 298, 127-129.	2.4	3

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55	Simple method for precise determination of chemical lethality in the l-arabinose resistance test of <i>Salmonella typhimurium</i> . <i>Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1989, 226, 175-180.	1.1	2
56	Complementary Functions of Plant AP Endonucleases and AP Lyases during DNA Repair of Abasic Sites Arising from C:G Base Pairs. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8763.	4.1	2
57	Influence of S9 mix on the expression of mutants in the l-arabinose resistance test of <i>Salmonella typhimurium</i> . <i>Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1990, 243, 303-308.	1.1	1
58	Chapter 18. Base Excision Repair in Plants: Variations on a Theme. <i>Chemical Biology</i> , 2020, , 48-74.	0.2	1
59	Assignment of the CD47 gene to pig chromosome band 13q42â†’1/2q46 with somatic cell hybrids. <i>Cytogenetic and Genome Research</i> , 2002, 97, 276E-276E.	1.1	0
60	Editorial: Plant Genome-Epigenome Integrity Under Environmental Stress. <i>Frontiers in Plant Science</i> , 2020, 11, 584126.	3.6	0
61	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