

Rafael R Ariza

List of Publications by Year in descending order

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41
papers

3,153
citations

236925

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docs citations

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times ranked

2769
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	Xeroderma Pigmentosum Group F Caused by a Defect in a Structure-Specific DNA Repair Endonuclease. <i>Cell</i> , 1996, 86, 811-822.	28.9	492
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	Repair of an Interstrand DNA Cross-link Initiated by ERCC1-XPF Repair/Recombination Nuclease. <i>Journal of Biological Chemistry</i> , 2000, 275, 26632-26636.	3.4	257
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	A DNA 3' Phosphatase Functions in Active DNA Demethylation in Arabidopsis. <i>Molecular Cell</i> , 2012, 45, 357-370.	9.7	81
8	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
9	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
10	Study of the causes of direct-acting mutagenicity in coffee and tea using the Ara test in <i>Salmonella typhimurium</i> . <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1988, 201, 89-96.	1.0	53
11	An AP Endonuclease Functions in Active DNA Demethylation and Gene Imprinting in Arabidopsis. <i>PLoS Genetics</i> , 2015, 11, e1004905.	3.5	53
12	Arabidopsis <i>ZDP DNA</i> 3' phosphatase and <i>ARP</i> endonuclease function in 8-oxoG repair initiated by <i>FPG</i> and <i>OGG1</i> DNA glycosylases. <i>Plant Journal</i> , 2014, 79, 824-834.	5.7	51
13	Single nucleotide and long patch base excision repair of DNA damage in plants. <i>Plant Journal</i> , 2009, 60, 716-728.	5.7	48
14	Active DNA Demethylation in Plants. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4683.	4.1	44
15	Arabidopsis thaliana <i>AtPOLK</i> 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
16	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
17	Arabidopsis <i>ARP</i> endonuclease functions in a branched base excision DNA repair pathway completed by <i>LIG1</i> . <i>Plant Journal</i> , 2011, 68, 693-702.	5.7	42
18	Arabidopsis Uracil DNA Glycosylase (<i>UNG</i>) 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

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19	DNA Methylation Editing by CRISPR-guided Excision of 5-Methylcytosine. <i>Journal of Molecular Biology</i> , 2020, 432, 2204-2216.	4.2	40
20	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
21	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
22	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
23	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
24	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
25	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
26	Demethylation initiated by ROS1 glycosylase involves random sliding along DNA. <i>Nucleic Acids Research</i> , 2012, 40, 11554-11562.	14.5	23
27	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
28	Molecular characterization of a putative plant homolog of MBD4 DNA glycosylase. <i>DNA Repair</i> , 2013, 12, 890-898.	2.8	16
29	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
30	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
31	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
32	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
33	The involvement of reactive oxygen species in the direct-acting mutagenicity of wine. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1991, 251, 115-121.	1.0	10
34	Dual control of ROS1-mediated active DNA demethylation by DNA damage-binding protein 2 (DDB2). <i>Plant Journal</i> , 2017, 92, 1170-1181.	5.7	10
35	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
36	Monitoring base excision repair in <i>Chlamydomonas reinhardtii</i> cell extracts. <i>DNA Repair</i> , 2018, 65, 34-41.	2.8	6

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37	Using Arabidopsis Cell Extracts to Monitor Repair of DNA Base Damage In Vitro. <i>Methods in Molecular Biology</i> , 2012, 920, 263-277.	0.9	4
38	Characterization of an AP endonuclease from sugarcane " ScARP1. <i>Biochemical and Biophysical Research Communications</i> , 2019, 514, 926-932.	2.1	4
39	A Chemiluminescent Method for the Detection of DNA Glycosylase/Lyase Activity. <i>Analytical Biochemistry</i> , 2001, 298, 127-129.	2.4	3
40	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
41	Chapter 18. Base Excision Repair in Plants: Variations on a Theme. <i>Chemical Biology</i> , 2020, , 48-74.	0.2	1