

Rafael Giraldo

List of Publications by Year in descending order

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66
papers

3,299
citations

201674

27
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149698

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69
all docs

69
docs citations

69
times ranked

2708
citing authors

#	ARTICLE	IF	CITATIONS
1	Replication and Control of Circular Bacterial Plasmids. <i>Microbiology and Molecular Biology Reviews</i> , 1998, 62, 434-464.	6.6	836
2	The Crystal Structure of the DNA-Binding Domain of Yeast RAP1 in Complex with Telomeric DNA. <i>Cell</i> , 1996, 85, 125-136.	28.9	300
3	Promotion of parallel DNA quadruplexes by a yeast telomere binding protein: a circular dichroism study.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994, 91, 7658-7662.	7.1	205
4	Distortion of the DNA Double Helix by RAP1 at Silencers and Multiple Telomeric Binding Sites. <i>Journal of Molecular Biology</i> , 1993, 231, 293-310.	4.2	201
5	Telomere structure and function. <i>Current Opinion in Structural Biology</i> , 1995, 5, 311-322.	5.7	194
6	Common domains in the initiators of DNA replication in Bacteria, Archaea and Eukarya: combined structural, functional and phylogenetic perspectives. <i>FEMS Microbiology Reviews</i> , 2003, 26, 533-554.	8.6	79
7	A conformational switch between transcriptional repression and replication initiation in the RepA dimerization domain. <i>Nature Structural and Molecular Biology</i> , 2003, 10, 565-571.	8.2	78
8	Structural and Functional Analysis of the Kid Toxin Protein from E. coli Plasmid R1. <i>Structure</i> , 2002, 10, 1425-1433.	3.3	77
9	Genetic and functional analysis of the basic replicon of pPS10, a plasmid specific for <i>Pseudomonas</i> isolated from <i>Pseudomonas syringae</i> patovar <i>savastanoi</i> . <i>Journal of Molecular Biology</i> , 1992, 223, 415-426.	4.2	72
10	Twenty years of the pPS10 replicon: insights on the molecular mechanism for the activation of DNA replication in iteron-containing bacterial plasmids. <i>Plasmid</i> , 2004, 52, 69-83.	1.4	67
11	Protein domains and conformational changes in the activation of RepA, a DNA replication initiator. <i>EMBO Journal</i> , 1998, 17, 4511-4526.	7.8	63
12	Defined DNA sequences promote the assembly of a bacterial protein into distinct amyloid nanostructures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 17388-17393.	7.1	63
13	Structural Changes in RepA, a Plasmid Replication Initiator, upon Binding to Origin DNA. <i>Journal of Biological Chemistry</i> , 2003, 278, 18606-18616.	3.4	57
14	Bacterial zipper. <i>Nature</i> , 1989, 342, 866-866.	27.8	53
15	Host growth temperature and a conservative amino acid substitution in the replication protein of pPS10 influence plasmid host range. <i>Journal of Bacteriology</i> , 1995, 177, 4377-4384.	2.2	51
16	Imaging the Asymmetrical DNA Bend Induced by Repressor Activator Protein 1 with Scanning Tunneling Microscopy. <i>Journal of Structural Biology</i> , 1994, 113, 1-12.	2.8	48
17	A DNA-promoted amyloid proteinopathy in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2010, 77, 1456-1469.	2.5	45
18	Direct assessment in bacteria of prionoid propagation and phenotype selection by Hsp70 chaperone. <i>Molecular Microbiology</i> , 2014, 91, 1070-1087.	2.5	41

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19	A leucine zipper motif determines different functions in a DNA replication protein.. EMBO Journal, 1996, 15, 925-934.	7.8	40
20	Similarities between the DNA replication initiators of Gram-negative bacteria plasmids (RepA) and eukaryotes (Orc4p)/archaea (Cdc6p). Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 4938-4943.	7.1	39
21	Antithrombin Murcia (K241E) causing antithrombin deficiency: a possible role for altered glycosylation. Haematologica, 2010, 95, 1358-1365.	3.5	34
22	Early Events in the Binding of the pPS10 Replication Protein RepA to Single Iteron and Operator DNA Sequences. Journal of Molecular Biology, 2006, 364, 909-920.	4.2	32
23	Functional amyloids as inhibitors of plasmid DNA replication. Scientific Reports, 2016, 6, 25425.	3.3	32
24	Genetic identification of two functional regions in the antitoxin of the parD/killer system of plasmid R1. FEMS Microbiology Letters, 2002, 206, 115-119.	1.8	31
25	Differential binding of wild-type and a mutant RepA protein to oriR sequence suggests a model for the initiation of plasmid R1 replication. Journal of Molecular Biology, 1992, 228, 787-802.	4.2	29
26	Transcription of repA, the Gene of the Initiation Protein of the Pseudomonas Plasmid pPS10, is Autoregulated by Interactions of the RepA Protein at a Symmetrical Operator. Journal of Molecular Biology, 1995, 247, 211-223.	4.2	29
27	Functional interactions between chpB and parD, two homologous conditional killer systems found in the Escherichia coli chromosome and in plasmid R1. FEMS Microbiology Letters, 1998, 168, 51-58.	1.8	29
28	Binding of sulphonated indigo derivatives to RepA-WH1 inhibits DNA-induced protein amyloidogenesis. Nucleic Acids Research, 2008, 36, 2249-2256.	14.5	29
29	Amyloid Assemblies: Protein Legos at a Crossroads in Bottom-Up Synthetic Biology. ChemBioChem, 2010, 11, 2347-2357.	2.6	29
30	DnaA dependent replication of plasmid R1 occurs in the presence of point mutations that disrupt the dnaA box of oriR. Nucleic Acids Research, 1992, 20, 2547-2551.	14.5	26
31	Amyloidogenesis of Bacterial Prionoid RepA-WH1 Recapitulates Dimer to Monomer Transitions of RepA in DNA Replication Initiation. Structure, 2015, 23, 183-189.	3.3	26
32	Negative regulation of pPS10 plasmid replication: origin pairing by zipping of DNA bound RepA monomers. Molecular Microbiology, 2008, 68, 560-572.	2.5	24
33	Functional interactions between homologous conditional killer systems of plasmid and chromosomal origin. FEMS Microbiology Letters, 2006, 152, 51-56.	1.8	23
34	Structural characterization of microcin E492 amyloid formation: Identification of the precursors. Journal of Structural Biology, 2012, 178, 54-60.	2.8	22
35	Self assembly of human septin 2 into amyloid filaments. Biochimie, 2012, 94, 628-636.	2.6	22
36	RepA-WH1, the agent of an amyloid proteinopathy in bacteria, builds oligomeric pores through lipid vesicles. Scientific Reports, 2016, 6, 23144.	3.3	20

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37	Pre-amyloid oligomers of the proteotoxic RepA-WH1 prionoid assemble at the bacterial nucleoid. <i>Scientific Reports</i> , 2015, 5, 14669.	3.3	19
38	RepA-WH1 prionoid. <i>Prion</i> , 2011, 5, 60-64.	1.8	17
39	Nucleation of Amyloid Oligomers by RepA-WH1 Prionoid-Functionalized Gold Nanorods. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11237-11241.	13.8	17
40	Non-cytotoxic variants of the Kid protein that retain their auto-regulatory activity. <i>Plasmid</i> , 2003, 50, 120-130.	1.4	16
41	Aggregation Interplay between Variants of the RepA-WH1 Prionoid in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2014, 196, 2536-2542.	2.2	16
42	Outlining Core Pathways of Amyloid Toxicity in Bacteria with the RepA-WH1 Prionoid. <i>Frontiers in Microbiology</i> , 2017, 8, 539.	3.5	16
43	The heat-shock DnaK protein is required for plasmid R1 replication and it is dispensable for plasmid ColE1 replication. <i>Nucleic Acids Research</i> , 1993, 21, 5495-5499.	14.5	14
44	An intrinsic 5'-deoxyribose-5-phosphate lyase activity in DNA polymerase beta from <i>Leishmania infantum</i> supports a role in DNA repair. <i>DNA Repair</i> , 2006, 5, 89-101.	2.8	13
45	RepA-WH1 prionoid: Clues from bacteria on factors governing phase transitions in amyloidogenesis. <i>Prion</i> , 2016, 10, 41-49.	1.8	12
46	Structural Analysis of the Interactions Between Hsp70 Chaperones and the Yeast DNA Replication Protein Orc4p. <i>Journal of Molecular Biology</i> , 2010, 403, 24-39.	4.2	11
47	Crystallization and preliminary X-ray crystallographic studies on the parD-encoded protein Kid from <i>Escherichia coli</i> plasmid R1. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 355-358.	2.5	10
48	Addressing Intracellular Amyloidosis in Bacteria with RepA-WH1, a Prion-Like Protein. <i>Methods in Molecular Biology</i> , 2018, 1779, 289-312.	0.9	10
49	Engineered bacterial hydrophobic oligopeptide repeats in a synthetic yeast prion, [REP-PSI ⁺]. <i>Frontiers in Microbiology</i> , 2015, 06, 311.	3.5	9
50	Mutations Within the Minimal Replicon of Plasmid pPS10 Increase Its Host Range. , 1992, , 225-237.		9
51	Optogenetic Navigation of Routes Leading to Protein Amyloidogenesis in Bacteria. <i>Journal of Molecular Biology</i> , 2019, 431, 1186-1202.	4.2	8
52	Intercellular Transmission of a Synthetic Bacterial Cytotoxic Prion-Like Protein in Mammalian Cells. <i>MBio</i> , 2020, 11, .	4.1	8
53	Defining a novel domain that provides an essential contribution to site-specific interaction of Rep protein with DNA. <i>Nucleic Acids Research</i> , 2021, 49, 3394-3408.	14.5	8
54	Modulation of the Aggregation of the Prion-like Protein RepA-WH1 by Chaperones in a Cell-Free Expression System and in Cytomimetic Lipid Vesicles. <i>ACS Synthetic Biology</i> , 2018, 7, 2087-2093.	3.8	6

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55	Conformational Priming of RepA-WH1 for Functional Amyloid Conversion Detected by NMR Spectroscopy. <i>Structure</i> , 2020, 28, 336-347.e4.	3.3	6
56	Fluorescence studies of the replication initiator protein RepA in complex with operator and iteron sequences and free in solution. <i>FEBS Journal</i> , 2008, 275, 5393-5407.	4.7	5
57	Enabling stop codon read-through translation in bacteria as a probe for amyloid aggregation. <i>Scientific Reports</i> , 2017, 7, 11908.	3.3	5
58	SynBio and the Boundaries between Functional and Pathogenic RepA-WH1 Bacterial Amyloids. <i>MSystems</i> , 2020, 5, .	3.8	3
59	Conversion of the OmpF Porin into a Device to Gather Amyloids on the E. coli Outer Membrane. <i>ACS Synthetic Biology</i> , 2021, , .	3.8	3
60	Genetic identification of two functional regions in the antitoxin of the parD killer system of plasmid R1. <i>FEMS Microbiology Letters</i> , 2002, 206, 115-119.	1.8	2
61	Functional interactions between chpB and parD, two homologous conditional killer systems found in the Escherichia coli chromosome and in plasmid R1. <i>FEMS Microbiology Letters</i> , 1998, 168, 51-58.	1.8	2
62	Voyage of RepA protein from plasmid DNA replication through amyloid aggregation towards synthetic biology. <i>Journal of Applied Biomedicine</i> , 2010, 8, 151-158.	1.7	1
63	Nucleation of Amyloid Oligomers by RepA-WH1-Prionoid-Functionalized Gold Nanorods. <i>Angewandte Chemie</i> , 2016, 128, 11403-11407.	2.0	1
64	Zipperless bZips and Zipped Homeodomains.. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 1995, 71, 39-44.	3.8	0
65	Reconstruction of Cytotoxic Bacterial Protein Assemblies in Lipid Vesicles. <i>Advances in Biomembranes and Lipid Self-Assembly</i> , 2017, 26, 173-193.	0.6	0
66	SEM at 75: foreword. <i>International Microbiology</i> , 2021, 24, 471-472.	2.4	0