Juan Carlos Alonso

List of Publications by Year
in descending order

239	8,195	51	66
papers	citations	h-index	g-index
		41627	116156

249	249	249	5026
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	PcrA Dissociates RecA Filaments and the SsbA and RecO Mediators Counterbalance Such Activity. Frontiers in Molecular Biosciences, 2022, 9, 836211.	1.6	3
2	The RecD2 helicase balances RecA activities. Nucleic Acids Research, 2022, 50, 3432-3444.	6.5	6
3	Recombination proteins differently control the acquisition of homeologousDNAduringBacillus subtilisnatural chromosomal transformation. Environmental Microbiology, 2021, 23, 512-524.	1.8	5
4	Toxinâ€"Antitoxin Systems in Pathogenic Bacteria. Toxins, 2021, 13, 74.	1.5	7
5	Low cost and sustainable hyaluronic acid production in a manufacturing platform based on Bacillus subtilis 3NA strain. Applied Microbiology and Biotechnology, 2021, 105, 3075-3086.	1.7	13
6	Bacillus subtilis PcrA Helicase Removes Trafficking Barriers. Cells, 2021, 10, 935.	1.8	10
7	DisA Limits RecG Activities at Stalled or Reversed Replication Forks. Cells, 2021, 10, 1357.	1.8	10
8	Nucleoidâ€associated Rok differentially affects chromosomal transformation on Bacillus subtilis recombinationâ€deficient cells. Environmental Microbiology, 2021, 23, 3318-3331.	1.8	2
9	Replication of Bacillus Double-Stranded DNA Bacteriophages. , 2021, , 61-68.		1
10	DisA Restrains the Processing and Cleavage of Reversed Replication Forks by the RuvAB-RecU Resolvasome. International Journal of Molecular Sciences, 2021, 22, 11323.	1.8	5
11	Bacillus subtilis RecA, DisA, and RadA/Sms Interplay Prevents Replication Stress by Regulating Fork Remodeling. Frontiers in Microbiology, 2021, 12, 766897.	1.5	7
12	Viral SPP1 DNA is infectious in naturally competentBacillus subtiliscells: interâ€and intramolecular recombination pathways. Environmental Microbiology, 2020, 22, 714-725.	1.8	5
13	Bacillus subtilis PcrA Couples DNA Replication, Transcription, Recombination and Segregation. Frontiers in Molecular Biosciences, 2020, 7, 140.	1.6	13
14	Antitoxin Îµ Reverses Toxin Î¶-Facilitated Ampicillin Dormants. Toxins, 2020, 12, 801.	1.5	5
15	Bacillus subtilis RarA Acts as a Positive RecA Accessory Protein. Frontiers in Microbiology, 2020, 11, 92.	1.5	10
16	Toxin Î¶ Reduces the ATP and Modulates the Uridine Diphosphate-N-acetylglucosamine Pool. Toxins, 2019, 11, 29.	1.5	6
17	Bacillus subtilis RadA/Sms contributes to chromosomal transformation and DNA repair in concert with RecA and circumvents replicative stress in concert with DisA. DNA Repair, 2019, 77, 45-57.	1.3	24
18	Bacillus subtilis DisA regulates RecA-mediated DNA strand exchange. Nucleic Acids Research, 2019, 47, 5141-5154.	6.5	27

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19	Bacillus subtilis MutS Modulates RecA-Mediated DNA Strand Exchange Between Divergent DNA Sequences. Frontiers in Microbiology, 2019, 10, 237.	1.5	24
20	Bacillus subtilis RarA acts at the interplay between replication and repair-by-recombination. DNA Repair, 2019, 78, 27-36.	1.3	8
21	Single molecule tracking reveals functions for RarA at replication forks but also independently from replication during DNA repair in Bacillus subtilis. Scientific Reports, 2019, 9, 1997.	1.6	12
22	OUP accepted manuscript. Nucleic Acids Research, 2019, 47, 9198-9215.	6.5	25
23	Bacillus subtilis RarA modulates replication restart. Nucleic Acids Research, 2018, 46, 7206-7220.	6.5	14
24	RecA Regulation by RecU and DprA During Bacillus subtilis Natural Plasmid Transformation. Frontiers in Microbiology, 2018, 9, 1514.	1.5	25
25	Activity and in vivo dynamics of Bacillus subtilis DisA are affected by RadA/Sms and by Holliday junction-processing proteins. DNA Repair, 2017, 55, 17-30.	1.3	25
26	Interplay between Bacillus subtilis RecD2 and the RecG or RuvAB helicase in recombinational repair. DNA Repair, 2017, 55, 40-46.	1.3	17
27	Bacillus subtilis DisA helps to circumvent replicative stress during spore revival. DNA Repair, 2017, 59, 57-68.	1.3	24
28	Bacillus subtilis RecA with DprAâ€"SsbA antagonizes RecX function during natural transformation. Nucleic Acids Research, 2017, 45, 8873-8885.	6.5	31
29	Toxin Î¶ Triggers a Survival Response to Cope with Stress and Persistence. Frontiers in Microbiology, 2017, 8, 1130.	1.5	9
30	Dynamics of DNA Double-strand Break Repair in Bacillus subtilis. , 2017, , .		0
31	Modulation of <i>Lactobacillus casei</i> bacteriophage A2 lytic/lysogenic cycles by binding of Gp25 to the early lytic mRNA. Molecular Microbiology, 2016, 99, 328-337.	1.2	4
32	Chromosomal transformation in<i>Bacillus subtilis</i>is a non-polar recombination reaction. Nucleic Acids Research, 2016, 44, 2754-2768.	6.5	25
33	ParAB Partition Dynamics in Firmicutes: Nucleoid Bound ParA Captures and Tethers ParB-Plasmid Complexes. PLoS ONE, 2015, 10, e0131943.	1.1	10
34	Molecular Anatomy of ParA-ParA and ParA-ParB Interactions during Plasmid Partitioning. Journal of Biological Chemistry, 2015, 290, 18782-18795.	1.6	31
35	<i>Bacillus subtilis</i>RecO and SsbA are crucial for RecA-mediated recombinational DNA repair. Nucleic Acids Research, 2015, 43, 5984-5997.	6.5	38
36	The interaction of Ï‰2with the RNA polymerase Î²â€™ subunit functions as an activation to repression switch. Nucleic Acids Research, 2015, 43, 9249-9261.	6.5	8

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37	DisA and c-di-AMP act at the intersection between DNA-damage response and stress homeostasis in exponentially growing Bacillus subtilis cells. DNA Repair, 2015, 27, 1-8.	1.3	61
38	<i>Bacillus subtilis</i>RecA and its accessory factors, RecF, RecO, RecR and RecX, are required for spore resistance to DNA double-strand break. Nucleic Acids Research, 2014, 42, 2295-2307.	6.5	33
39	Toxin Î¶ Reversible Induces Dormancy and Reduces the UDP-N-Acetylglucosamine Pool as One of the Protective Responses to Cope with Stress. Toxins, 2014, 6, 2787-2803.	1.5	13
40	Direct analysis of Holliday junction resolving enzyme in a DNA origami nanostructure. Nucleic Acids Research, 2014, 42, 7421-7428.	6.5	35
41	Staphylococcal pathogenicity island DNA packaging system involving <i>cos</i> -site packaging and phage-encoded HNH endonucleases. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6016-6021.	3.3	73
42	Roles of Bacillus subtilis DprA and SsbA in RecA-mediated Genetic Recombination. Journal of Biological Chemistry, 2014, 289, 27640-27652.	1.6	52
43	DNA double strand break end-processing and RecA induce RecN expression levels in Bacillus subtilis. DNA Repair, 2014, 14, 1-8.	1.3	17
44	Interaction of Branch Migration Translocases with the Holliday Junction-resolving Enzyme and Their Implications in Holliday Junction Resolution. Journal of Biological Chemistry, 2014, 289, 17634-17646.	1.6	18
45	The Interplay between Different Stability Systems Contributes to Faithful Segregation: Streptococcus pyogenes pSM19035 as a Model. Microbiology Spectrum, 2014, 2, PLAS-0007-2013.	1.2	8
46	Role of Toxin Î¶ and Starvation Responses in the Sensitivity to Antimicrobials. PLoS ONE, 2014, 9, e86615.	1.1	15
47	Early steps of double-strand break repair in Bacillus subtilis. DNA Repair, 2013, 12, 162-176.	1.3	40
48	Headful DNA packaging: Bacteriophage SPP1 as a model system. Virus Research, 2013, 173, 247-259.	1.1	70
49	The nuclease domain of the SPP1 packaging motor coordinates DNA cleavage and encapsidation. Nucleic Acids Research, 2013, 41, 340-354.	6.5	57
50	The 1.58â€…Å… resolution structure of the DNA-binding domain of bacteriophage SF6 small terminase provides new hints on DNA binding. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 376-381.	0.7	5
51	Bacillus subtilis DprA Recruits RecA onto Single-stranded DNA and Mediates Annealing of Complementary Strands Coated by SsbB and SsbA. Journal of Biological Chemistry, 2013, 288, 22437-22450.	1.6	61
52	RecX Facilitates Homologous Recombination by Modulating RecA Activities. PLoS Genetics, 2012, 8, e1003126.	1.5	51
53	Genetic recombination in Bacillus subtilis : a division of labor between two single-strand DNA-binding proteins. Nucleic Acids Research, 2012, 40, 5546-5559.	6.5	90
54	Structural basis for DNA recognition and loading into a viral packaging motor. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 811-816.	3.3	57

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55	The cell pole: the site of cross talk between the DNA uptake and genetic recombination machinery. Critical Reviews in Biochemistry and Molecular Biology, 2012, 47, 531-555.	2.3	60
56	Detection of the Early Stage of Recombinational DNA Repair by Silicon Nanowire Transistors. Nano Letters, 2012, 12, 1275-1281.	4.5	31
57	The Î¶ Toxin Induces a Set of Protective Responses and Dormancy. PLoS ONE, 2012, 7, e30282.	1.1	35
58	The Stalk Region of the RecU Resolvase Is Essential for Holliday Junction Recognition and Distortion. Journal of Molecular Biology, 2011, 410, 39-49.	2.0	14
59	Fur Activates the Expression of Salmonella enterica Pathogenicity Island 1 by Directly Interacting with the hilD Operator In Vivo and In Vitro. PLoS ONE, 2011, 6, e19711.	1.1	65
60	Double-strand break repair in bacteria: a view from<i>Bacillus subtilis</i>. FEMS Microbiology Reviews, 2011, 35, 1055-1081.	3.9	110
61	Cultural transmission and flexibility of partial migration patterns in a long-lived bird, the great bustard Otis tarda. Journal of Avian Biology, 2011, 42, 301-308.	0.6	51
62	Polynucleotide phosphorylase exonuclease and polymerase activities on single-stranded DNA ends are modulated by RecN, SsbA and RecA proteins. Nucleic Acids Research, 2011, 39, 9250-9261.	6.5	39
63	Molecular anatomy of the Streptococcus pyogenes pSM19035 partition and segrosome complexes. Nucleic Acids Research, 2011, 39, 2624-2637.	6.5	37
64	A toxinâ€“antitoxin module as a target for antimicrobial development. Plasmid, 2010, 63, 31-39.	0.4	70
65	Plasmid pSM19035, a model to study stable maintenance in Firmicutes. Plasmid, 2010, 64, 1-17.	0.4	40
66	RecO-mediated DNA homology search and annealing is facilitated by SsbA. Nucleic Acids Research, 2010, 38, 6920-6929.	6.5	32
67	Overexpression of the<i>recA</i>Gene Decreases Oral but Not Intraperitoneal Fitness of<i>Salmonella enterica</i>. Infection and Immunity, 2010, 78, 3217-3225.	1.0	13
68	Correction for Ayora <i>et al.</i> , <i>Bacillus subtilis</i> RecU protein cleaves Holliday junctions and anneals single-stranded DNA. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 664-664.	3.3	4
69	Evidence for Different Pathways during Horizontal Gene Transfer in Competent Bacillus subtilis Cells. PLoS Genetics, 2009, 5, e1000630.	1.5	73
70	Bacillus subtilis polynucleotide phosphorylase 3â€²-to-5â€² DNase activity is involved in DNA repair. Nucleic Acids Research, 2009, 37, 4157-4169.	6.5	56
71	Single-molecule Analysis of ProteinÂ·DNA Complexes Formed during Partition of Newly Replicated Plasmid Molecules in Streptococcus pyogenes. Journal of Biological Chemistry, 2009, 284, 30298-30306.	1.6	30
72	Structural basis for the nuclease activity of a bacteriophage large terminase. EMBO Reports, 2009, 10, 592-598.	2.0	60

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74	Bacillus subtilis SsbA and dATP regulate RecA nucleation onto single-stranded DNA. DNA Repair, 2008, 7, 990-996.	1.3	41
75	Insights into the oligomerization stateâ€“helicase activity relationship of West Nile virus NS3 NTPase/helicase. Virus Research, 2008, 135, 166-174.	1.1	9
76	Bacillus subtilis RecO Nucleates RecA onto SsbA-coated Single-stranded DNA. Journal of Biological Chemistry, 2008, 283, 24837-24847.	1.6	47
77	Dynamic structures of Bacillus subtilis RecNâ€“DNA complexes. Nucleic Acids Research, 2008, 36, 110-120.	6.5	46
78	The RecU Holliday junction resolvase acts at early stages of homologous recombination. Nucleic Acids Research, 2008, 36, 5242-5249.	6.5	31
79	Streptococcus pyogenes pSM19035 requires dynamic assembly of ATP-bound ParA and ParB on parS DNA during plasmid segregation. Nucleic Acids Research, 2008, 36, 3676-3689.	6.5	81
80	In vivo site-specific recombination using the Î²-rec/sixsystem. BioTechniques, 2008, 45, 69-78.	0.8	7
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82	A novel role for RecA under non-stress: promotion of swarming motility in Escherichia coli K-12. BMC Biology, 2007, 5, 14.	1.7	69
83	<i>Bacillus subtilis</i> RecG branch migration translocase is required for DNA repair and chromosomal segregation. Molecular Microbiology, 2007, 65, 920-935.	1.2	38
84	Homologous recombination in low dC + dG Gram-positive bacteria. Topics in Current Genetics, 2007, , 27-52.	0.7	7
85	Structural insight into gene transcriptional regulation and effector binding by the Lrp/AsnC family. Nucleic Acids Research, 2006, 34, 1944-1944.	6.5	1
86	Bacillus subtilis Bacteriophage SPP1 G40P Helicase Lacking the N-terminal Domain Unwinds DNA Bidirectionally. Journal of Molecular Biology, 2006, 357, 1077-1088.	2.0	14
87	Quaternary Polymorphism of Replicative Helicase G40P: Structural Mapping and Domain Rearrangement. Journal of Molecular Biology, 2006, 357, 1063-1076.	2.0	16
88	Bacillus subtilis SbcC protein plays an important role in DNA inter-strand cross-link repair. BMC Molecular Biology, 2006, 7, 20.	3.0	58
89	Characterization of the lyticâ€“lysogenic switch of the lactococcal bacteriophage Tuc2009. Virology, 2006, 347, 434-446.	1.1	18
90	Structural insight into gene transcriptional regulation and effector binding by the Lrp/AsnC family. Nucleic Acids Research, 2006, 34, 1439-1449.	6.5	106

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91	Structures of Â repressors bound to direct and inverted DNA repeats explain modulation of transcription. Nucleic Acids Research, 2006, 34, 1450-1458.	6.5	63
92	pSM19035-encoded Î¶ toxin induces stasis followed by death in a subpopulation of cells. Microbiology (United Kingdom), 2006, 152, 2365-2379.	0.7	54
93	Conformation and stability of the Streptococcus pyogenes pSM19035-encoded site-specific Î² recombinase, and identification of a folding intermediate. Biological Chemistry, 2006, 387, 525-533.	1.2	3
94	Recruitment of Bacillus subtilis RecN to DNA Double-Strand Breaks in the Absence of DNA End Processing. Journal of Bacteriology, 2006, 188, 353-360.	1.0	78
95	Homologous Recombination in Low dC + dG Gram-Positive Bacteria. , 2006, , 27-52.		4
96	The Structure of Bacillus subtilis RecU Holliday Junction Resolvase and Its Role in Substrate Selection and Sequence-Specific Cleavage. Structure, 2005, 13, 1341-1351.	1.6	61
97	Bacillus subtilis RecU Holliday-junction resolvase modulates RecA activities. Nucleic Acids Research, 2005, 33, 3942-3952.	6.5	61
98	The RuvAB Branch Migration Translocase and RecU Holliday Junction Resolvase Are Required for Double-Stranded DNA Break Repair in Bacillus subtilis. Genetics, 2005, 171, 873-883.	1.2	67
99	Role of the N-terminal region and of Î²-sheet residue Thr29 on the activity of the Ï‰2 global regulator from the broad-host range Streptococcus pyogenes plasmid pSM19035. Biological Chemistry, 2005, 386, 881-94.	1.2	18
100	Bacillus subtilis RecN binds and protects 3'-single-stranded DNA extensions in the presence of ATP. Nucleic Acids Research, 2005, 33, 2343-2350.	6.5	46
101	Bacillus subtilis Bacteriophage SPP1-encoded Gene 34.1 Product is a Recombination-dependent DNA Replication Protein. Journal of Molecular Biology, 2005, 351, 1007-1019.	2.0	22
102	A Defined in Vitro System for DNA Packaging by the Bacteriophage SPP1: Insights into the Headful Packaging Mechanism. Journal of Molecular Biology, 2005, 353, 529-539.	2.0	41
103	Recognition of DNA by Â protein from the broad-host range Streptococcus pyogenes plasmid pSM19035: analysis of binding to operator DNA with one to four heptad repeats. Nucleic Acids Research, 2004, 32, 3136-3147.	6.5	45
104	Bacillus subtilis RecU protein cleaves Holliday junctions and anneals single-stranded DNA. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 452-457.	3.3	74
105	Genetic Recombination in Bacillus subtilis 168: Contribution of Holliday Junction Processing Functions in Chromosome Segregation. Journal of Bacteriology, 2004, 186, 5557-5566.	1.0	54
106	Visualization of DNA double-strand break repair in live bacteria reveals dynamic recruitment of Bacillus subtilis RecF, RecO and RecN proteins to distinct sites on the nucleoids. Molecular Microbiology, 2004, 52, 1627-1639.	1.2	120
107	Crystallization of theBacillus subtilisSPP1 bacteriophage helicase loader protein G39P. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 1090-1092.	2.5	0
108	Genome Engineering Reveals Large Dispensable Regions in Bacillus subtilis. Molecular Biology and Evolution, 2003, 20, 2076-2090.	3.5	188

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109	Synapsis and strand exchange in the resolution and DNA inversion reactions catalysed by the beta recombinase. Nucleic Acids Research, 2003, 31, 1038-1044.	6.5	23
110	Structural Analysis of Bacillus subtilis SPP1 Phage Helicase Loader Protein G39P. Journal of Biological Chemistry, 2003, 278, 15304-15312.	1.6	9
111	Crystal structure of the plasmid maintenance system Â/Â: Functional mechanism of toxin Â and inactivation by Â2Â2 complex formation. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1661-1666.	3.3	119
112	Bacillus subtilis Bacteriophage SPP1 DNA Packaging Motor Requires Terminase and Portal Proteins. Journal of Biological Chemistry, 2003, 278, 23251-23259.	1.6	58
113	Raman Spectroscopy of Regulatory Protein Omega fromStreptococcus pyogenesPlasmid pSM19035 and Complexes with Operator DNA. Spectroscopy, 2003, 17, 435-445.	0.8	14
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115	Bacillus subtilistau subunit of DNA polymerase III interacts with bacteriophage SPP1 replicative DNA helicase G40P. Nucleic Acids Research, 2002, 30, 5056-5064.	6.5	25
116	Bacillus subtilis bacteriophage SPP1 hexameric DNA helicase, G40P, interacts with forked DNA. Nucleic Acids Research, 2002, 30, 2280-2289.	6.5	35
117	Rhodobacter sphaeroides LexA has dual activity: optimising and repressing recA gene transcription. Nucleic Acids Research, 2002, 30, 1539-1546.	6.5	28
118	In vitro and in vivo Stability of the 2Î¶2 Protein Complex of the Broad Host-Range Streptococcus pyogenes pSM19035 Addiction System. Biological Chemistry, 2002, 383, 1701-13.	1.2	62
119	Homologous-pairing Activity of the Bacillus subtilisBacteriophage SPP1 Replication Protein G35P. Journal of Biological Chemistry, 2002, 277, 35969-35979.	1.6	56
120	Plant Chromosomal HMGB Proteins Efficiently Promote the Bacterial Site-Specific Î²-Mediated Recombination in Vitro and in Vivoâ€. Biochemistry, 2002, 41, 7763-7770.	1.2	31
121	Characterization of two highly similar rad51 homologs of Physcomitrella patens. Journal of Molecular Biology, 2002, 316, 35-49.	2.0	35
122	Effect of the recU suppressors sms and subA on DNA repair and homologous recombination in Bacillus subtilis. Molecular Genetics and Genomics, 2002, 266, 899-906.	1.0	30
123	Interaction of the Cro repressor with the lysis/lysogeny switch of the Lactobacillus casei temperate bacteriophage A2. Journal of General Virology, 2002, 83, 2891-2895.	1.3	15
124	Crystal structure of Ï‰ transcriptional repressor encoded by Streptococcus pyogenes plasmid pSM19035 at 1.5 Ã… resolution 1 1Edited by R. Huber. Journal of Molecular Biology, 2001, 314, 789-796.	2.0	71
125	Stability and DNA-binding properties of the Ï‰ regulator protein from the broad-host rangeStreptococcus pyogenesplasmid pSM19035. FEBS Letters, 2001, 505, 436-440.	1.3	13
126	Crystallization and preliminary X-ray diffraction studies of the âˆŠÎ¶ addiction system encoded byStreptococcus pyogenesplasmid pSM19035. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 745-747.	2.5	19

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129	Genetic Recombination in Bacillus subtilis 168: Effect of Î” helD on DNA Repair and Homologous Recombination. Journal of Bacteriology, 2001, 183, 5772-5777.	1.0	22
130	Plasmid copy-number control and better-than-random segregation genes of pSM19035 share a common regulator. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 728-733.	3.3	138
131	Functional Analysis of the Terminase Large Subunit, G2P, of Bacillus subtilis Bacteriophage SPP1. Journal of Biological Chemistry, 2000, 275, 35311-35319.	1.6	71
132	Shape and DNA packaging activity of bacteriophage SPP1 procapsid: protein components and interactions during assembly 1 1Edited by J. Karn. Journal of Molecular Biology, 2000, 296, 117-132.	2.0	58
133	Bacillus subtilis homologous recombination: genes and products. Research in Microbiology, 2000, 151, 481-486.	1.0	50
134	Generation of Food-Grade Recombinant Lactic Acid Bacterium Strains by Site-Specific Recombination. Applied and Environmental Microbiology, 2000, 66, 2599-2604.	1.4	69
135	Cooperative Interaction of CI Protein Regulates Lysogeny of <i>Lactobacillus casei</i> by Bacteriophage A2. Journal of Virology, 1999, 73, 3920-3929.	1.5	46
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137	The Prokaryotic Î²-Recombinase Catalyzes Site-specific Recombination in Mammalian Cells. Journal of Biological Chemistry, 1999, 274, 6634-6640.	1.6	33
138	Crystallization and preliminary X-ray diffraction studies of Streptococcus pyogenes plasmid pSM19035-encoded Ï‰ transcriptional repressor. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 2041-2042.	2.5	8
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140	Analysis of the Bacillus subtilis recO gene: RecO forms part of the RecFLOR function. Molecular Genetics and Genomics, 1999, 261, 567-573.	2.4	40
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144	Four differently chromatin-associated maize HMG domain proteins modulate DNA structure and act as architectural elements in nucleoprotein complexes. Plant Journal, 1998, 14, 623-631.	2.8	49

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146	Basic and Acidic Regions Flanking the HMG Domain of Maize HMGa Modulate the Interactions with DNA and the Self-Association of the Proteinâ€. Biochemistry, 1998, 37, 2673-2681.	1.2	55
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