Jon M Kaguni

List of Publications by Year
in descending order

50 papers	2,299 citations	236833 25 h-index	276775 41 g-index
52 all docs	52 docs citations	52 times ranked	971 citing authors

#	Article	IF	Citations
1	Elevated levels of the E. coli nrdAB -encoded ribonucleotide reductase counteract the toxicity caused by an increased abundance of the Î² clamp. Journal of Bacteriology, 2021, 203, e0030421.	1.0	2
2	The mutant Î² E202K sliding clamp protein impairs DNA polymerase III replication activity. Journal of Bacteriology, 2021, 203, e0030321.	1.0	4
3	The Macromolecular Machines that Duplicate the Escherichia coli Chromosome as Targets for Drug Discovery. Antibiotics, 2018, 7, 23.	1.5	22
4	Replication Origin of E. coli and the Mechanism of Initiation. , 2018, , 1053-1062.		0
5	Control of Initiation in E. coli. , 2018, , 127-136.		0
6	DNA Replication. , 2018, , 251-259.		0
7	DnaA, DnaB, DnaC. , 2018, , 278-289.		0
8	Dynamic assembly of Hda and the sliding clamp in the regulation of replication licensing. Nucleic Acids Research, 2017, 45, 3888-3905.	6.5	17
9	DnaC, the indispensable companion of DnaB helicase, controls the accessibility of DnaB helicase by primase. Journal of Biological Chemistry, 2017, 292, 20871-20882.	1.6	9
10	Substitutions of Conserved Residues in the C-terminal Region of DnaC Cause Thermolability in Helicase Loading. Journal of Biological Chemistry, 2016, 291, 4803-4812.	1.6	4
11	DnaC traps DnaB as an open ring and remodels the domain that binds primase. Nucleic Acids Research, 2016, 44, 210-220.	6.5	27
12	DnaA, DnaB, and DnaC. , 2014, , 1-14.		1
13	Control of Initiation in E. coli. , 2014, , 1-12.		0
14	Helicase Loading at Chromosomal Origins of Replication. Cold Spring Harbor Perspectives in Biology, 2013, 5, a010124-a010124.	2.3	116
15	Mutant DnaAs of Escherichia coli that are refractory to negative control. Nucleic Acids Research, 2013, 41, 10254-10267.	6.5	10
16	The rcbA Gene Product Reduces Spontaneous and Induced Chromosome Breaks in Escherichia coli. Journal of Bacteriology, 2012, 194, 2152-2164.	1.0	4
17	Replication initiation at the Escherichia coli chromosomal origin. Current Opinion in Chemical Biology, 2011, 15, 606-613.	2.8	95
18	Two forms of ribosomal protein L2 of Escherichia coli that inhibit DnaA in DNA replication. Nucleic Acids Research, 2011, 39, 4180-4191.	6.5	37

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19	Primase Directs the Release of DnaC from DnaB. Molecular Cell, 2010, 37, 90-101.	4.5	76
20	DnaAcos hyperinitiates by circumventing regulatory pathways that control the frequency of initiation in Escherichia coli. Molecular Microbiology, 2009, 72, 1348-1363.	1.2	23
21	Escherichia coli DnaA interacts with HU in initiation at the E.â€ƒcoli replication origin. Molecular Microbiology, 2008, 67, 781-792.	1.2	85
22	Escherichia coli Dps interacts with DnaA protein to impede initiation: a model of adaptive mutation. Molecular Microbiology, 2008, 67, 1331-1346.	1.2	71
23	Genetic Method To Analyze Essential Genes of Escherichia coli. Applied and Environmental Microbiology, 2007, 73, 7075-7082.	1.4	15
24	DnaA: Controlling the Initiation of Bacterial DNA Replication and More. Annual Review of Microbiology, 2006, 60, 351-371.	2.9	175
25	Escherichia coli DnaA protein: specific biochemical defects of mutant DnaAs reduce initiation frequency to suppress a temperature-sensitive dnaX mutation. Biochimie, 2006, 88, 1-10.	1.3	9
26	An Essential Tryptophan of Escherichia coli DnaA Protein Functions in Oligomerization at the E. coli Replication Origin. Journal of Biological Chemistry, 2005, 280, 24627-24633.	1.6	71
27	The Box VII Motif of Escherichia coli DnaA Protein Is Required for DnaA Oligomerization at the E. coli Replication Origin. Journal of Biological Chemistry, 2004, 279, 51156-51162.	1.6	67
28	DnaA Protein of Escherichia coli: oligomerization at the E. coli chromosomal origin is required for initiation and involves specific N-terminal amino acids. Molecular Microbiology, 2004, 49, 849-858.	1.2	71
29	Hyperinitiation of DNA replication in Escherichia coli leads to replication fork collapse and inviability. Molecular Microbiology, 2004, 51, 349-358.	1.2	91
30	DNA Replication: Initiation in Bacteria. , 2004, , 761-766.		1
31	The dnaAcos allele of Escherichia coli: hyperactive initiation is caused by substitution of A184V and Y271H, resulting in defective ATP binding and aberrant DNA replication control. Molecular Microbiology, 2003, 47, 755-765.	1.2	29
32	Escherichia coli DnaA Protein Loads a Single DnaB Helicase at a DnaA Box Hairpin. Journal of Biological Chemistry, 2002, 277, 39815-39822.	1.6	28
33	Essential Amino Acids of Escherichia coli DnaC Protein in an N-terminal Domain Interact with DnaB Helicase. Journal of Biological Chemistry, 2001, 276, 27345-27353.	1.6	46
34	Stoichiometry of DnaA and DnaB Protein in Initiation at the Escherichia coli Chromosomal Origin. Journal of Biological Chemistry, 2001, 276, 44919-44925.	1.6	59
35	Role of adenine nucleotides, molecular chaperones and chaperonins in stabilization of DnaA initiator protein of Escherichia coli. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1998, 1442, 39-48.	2.4	9
36	Escherichia coli DnaA Protein. Journal of Biological Chemistry, 1998, 273, 34255-34262.	1.6	151

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37	Threonine 435 of Escherichia coli DnaA Protein Confers Sequence-specific DNA Binding Activity. Journal of Biological Chemistry, 1997, 272, 23017-23024.	1.6	53
38	Novel alleles of the Escherichia coli dnaA gene. Journal of Molecular Biology, 1997, 271, 693-703.	2.0	28
39	The Escherichia coli dnaA gene: four functional domains. Journal of Molecular Biology, 1997, 274, 546-561.	2.0	66
40	The 4784V missense mutation of the dnaA5 and dnaA46 alleles confers a defect in ATP binding and thermoiability in initiation of Escherichia coli DNA replication. Molecular Microbiology, 1996, 20, 1307-1318.	1.2	64
41	Ordered and Sequential Binding of DnaA Protein to , the Chromosomal Origin of. Journal of Biological Chemistry, 1996, 271, 17035-17040.	1.6	91
42	Domains of DnaA Protein Involved in Interaction with DnaB Protein, and in Unwinding the Escherichia coli Chromosomal Origin. Journal of Biological Chemistry, 1996, 271, 18535-18542.	1.6	60
43	Enzyme-Labeled Probes for Nucleic Acid Hybridization. Methods of Biochemical Analysis, 1992, 36, 115-127.	0.2	3
44	Suppression of the Escherichia coli dnaA46 mutation by a mutation in trxA, the gene for thioredoxin. Molecular Genetics and Genomics, 1988, 213, 471-478.	2.4	7
45	Transcriptional repression of the dnaA gene of Escherichia coli by dnaA protein. Molecular Genetics and Genomics, 1987, 209, 518-525.	2.4	77
46	Initiation of Replication of the Escherichia Coli Chromosomal Origin Reconstituted with Purified Enzymes. , 1985, 30, 141-150.		4
47	Replication initiated at the origin (oriC) of the E. coli chromosome reconstituted with purified enzymes. Cell, 1984, 38, 183-190.	13.5	244
48	Enzymatic replication of E. coli chromosomal origin is bidirectional. Nature, 1982, 296, 623-627.	13.7	76
49	THE PRIMOSOME IN Ï†X174 REPLICATION1. , 1981, , 409-423.		0
50	Cloning of a functional replication origin of phage G4 into the genome of phage M13. Journal of Molecular Biology, 1979, 135, 863-878.	2.0	101