

Andrei Kuzminov

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

2,620
citations

279798

23
h-index

197818

49
g-index

50
all docs

50
docs citations

50
times ranked

1972
citing authors

#	ARTICLE	IF	CITATIONS
1	Thymine starvation-induced chromosomal fragmentation is not required for thymineless death in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2022, , .	2.5	0
2	Nitric oxide precipitates catastrophic chromosome fragmentation by bolstering both hydrogen peroxide and Fe(II) Fenton reactants in <i>E. coli</i> . <i>Journal of Biological Chemistry</i> , 2022, 298, 101825.	3.4	2
3	Ultraviolet-induced RNA:DNA hybrids interfere with chromosomal DNA synthesis. <i>Nucleic Acids Research</i> , 2021, 49, 3888-3906.	14.5	10
4	Catalase inhibition by nitric oxide potentiates hydrogen peroxide to trigger catastrophic chromosome fragmentation in <i>Escherichia coli</i> . <i>Genetics</i> , 2021, 218, .	2.9	5
5	Electron Microscopy Reveals Unexpected Cytoplasm and Envelope Changes during Thymineless Death in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2021, 203, e0015021.	2.2	2
6	Oxidative damage blocks thymineless death and trimethoprim poisoning in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2021, , JB0037021.	2.2	5
7	Exopolysaccharide defects cause hyper-thymineless death in <i>Escherichia coli</i> via massive loss of chromosomal DNA and cell lysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 33549-33560.	7.1	11
8	Half-Intercalation Stabilizes Slipped Mismatching and Explains Genome Vulnerability to Frameshift Mutagenesis by Endogenous Molecular Bookmarks. <i>BioEssays</i> , 2019, 41, 1900062.	2.5	1
9	Near-continuously synthesized leading strands in <i>Escherichia coli</i> are broken by ribonucleotide excision. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1251-1260.	7.1	21
10	Guidelines for DNA recombination and repair studies: Cellular assays of DNA repair pathways. <i>Microbial Cell</i> , 2019, 6, 1-64.	3.2	47
11	Thymineless Death in <i>Escherichia coli</i> Is Unaffected by Chromosomal Replication Complexity. <i>Journal of Bacteriology</i> , 2019, 201, .	2.2	9
12	Sources of thymidine and analogs fueling futile damage-repair cycles and ss-gap accumulation during thymine starvation in <i>Escherichia coli</i> . <i>DNA Repair</i> , 2019, 75, 1-17.	2.8	7
13	When DNA Topology Turns Deadly – RNA Polymerases Dig in Their R-Loops to Stand Their Ground: New Positive and Negative (Super)Twists in the Replication-Transcription Conflict. <i>Trends in Genetics</i> , 2018, 34, 111-120.	6.7	35
14	Pulsed-field gel electrophoresis does not break <i>E. coli</i> chromosome undergoing excision repair after UV irradiation. <i>Analytical Biochemistry</i> , 2017, 526, 66-68.	2.4	4
15	RNase HII Saves <i>rnhA</i> Mutant <i>Escherichia coli</i> from R-Loop-Associated Chromosomal Fragmentation. <i>Journal of Molecular Biology</i> , 2017, 429, 2873-2894.	4.2	29
16	Potential of hydrogen peroxide toxicity: From catalase inhibition to stable DNA-iron complexes. <i>Mutation Research - Reviews in Mutation Research</i> , 2017, 773, 274-281.	5.5	97
17	Degradation of RNA during lysis of <i>Escherichia coli</i> cells in agarose plugs breaks the chromosome. <i>PLoS ONE</i> , 2017, 12, e0190177.	2.5	11
18	Chromosomal Replication Complexity: A Novel DNA Metrics and Genome Instability Factor. <i>PLoS Genetics</i> , 2016, 12, e1006229.	3.5	19

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19	Static and Dynamic Factors Limit Chromosomal Replication Complexity in <i>Escherichia coli</i> , Avoiding Dangers of Runaway Overreplication. <i>Genetics</i> , 2016, 202, 945-960.	2.9	24
20	Prompt repair of hydrogen peroxide-induced DNA lesions prevents catastrophic chromosomal fragmentation. <i>DNA Repair</i> , 2016, 41, 42-53.	2.8	22
21	Cyanide enhances hydrogen peroxide toxicity by recruiting endogenous iron to trigger catastrophic chromosomal fragmentation. <i>Molecular Microbiology</i> , 2015, 96, 349-367.	2.5	18
22	Replication fork inhibition in <i>seqA</i> mutants of <i>Escherichia coli</i> triggers replication fork breakage. <i>Molecular Microbiology</i> , 2014, 93, 50-64.	2.5	18
23	The Precarious Prokaryotic Chromosome. <i>Journal of Bacteriology</i> , 2014, 196, 1793-1806.	2.2	33
24	Low-Molecular-Weight DNA Replication Intermediates in <i>Escherichia coli</i> : Mechanism of Formation and Strand Specificity. <i>Journal of Molecular Biology</i> , 2013, 425, 4177-4191.	4.2	12
25	Trapping and breaking of in vivo nicked DNA during pulsed field gel electrophoresis. <i>Analytical Biochemistry</i> , 2013, 443, 269-281.	2.4	20
26	The chromosome cycle of prokaryotes. <i>Molecular Microbiology</i> , 2013, 90, 214-227.	2.5	19
27	Inhibition of DNA synthesis facilitates expansion of low-complexity repeats. <i>BioEssays</i> , 2013, 35, 306-313.	2.5	15
28	Disintegration of Nascent Replication Bubbles during Thymine Starvation Triggers RecA- and RecBCD-dependent Replication Origin Destruction. <i>Journal of Biological Chemistry</i> , 2012, 287, 23958-23970.	3.4	36
29	Replication Forks Stalled at Ultraviolet Lesions Are Rescued via RecA and RuvABC Protein-catalyzed Disintegration in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2012, 287, 6250-6265.	3.4	54
30	Chromosome demise in the wake of ligase-deficient replication. <i>Molecular Microbiology</i> , 2012, 84, 1079-1096.	2.5	27
31	Homologous Recombination—Experimental Systems, Analysis, and Significance. <i>EcoSal Plus</i> , 2011, 4, .	5.4	35
32	Production of clastogenic DNA precursors by the nucleotide metabolism in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2010, 75, 230-245.	2.5	24
33	Stalled replication fork repair and misrepair during thymineless death in <i>Escherichia coli</i> . <i>Genes To Cells</i> , 2010, 15, 619-634.	1.2	39
34	Reduced lipopolysaccharide phosphorylation in <i>Escherichia coli</i> lowers the elevated ori/ter ratio in <i>seqA</i> mutants. <i>Molecular Microbiology</i> , 2009, 72, 1273-1292.	2.5	17
35	Cyanide, Peroxide and Nitric Oxide Formation in Solutions of Hydroxyurea Causes Cellular Toxicity and May Contribute to Its Therapeutic Potency. <i>Journal of Molecular Biology</i> , 2009, 390, 845-862.	4.2	30
36	Patterns of chromosomal fragmentation due to uracil-DNA incorporation reveal a novel mechanism of replication-dependent double-stranded breaks. <i>Molecular Microbiology</i> , 2008, 68, 202-215.	2.5	38

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37	Synthetic Lethality with the <i>dut</i> Defect in <i>Escherichia coli</i> Reveals Layers of DNA Damage of Increasing Complexity Due to Uracil Incorporation. <i>Journal of Bacteriology</i> , 2008, 190, 5841-5854.	2.2	25
38	The <i>mutT</i> Defect Does Not Elevate Chromosomal Fragmentation in <i>Escherichia coli</i> Because of the Surprisingly Low Levels of MutM/MutY-Recognized DNA Modifications. <i>Journal of Bacteriology</i> , 2007, 189, 6976-6988.	2.2	15
39	Fragmentation of Replicating Chromosomes Triggered by Uracil in DNA. <i>Journal of Molecular Biology</i> , 2006, 355, 20-33.	4.2	58
40	The Replication Intermediates in <i>Escherichia coli</i> Are Not the Product of DNA Processing or Uracil Excision. <i>Journal of Biological Chemistry</i> , 2006, 281, 22635-22646.	3.4	32
41	RecA-dependent mutants in <i>Escherichia coli</i> reveal strategies to avoid chromosomal fragmentation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 16262-16267.	7.1	58
42	Chromosomal fragmentation in dUTPase-deficient mutants of <i>Escherichia coli</i> and its recombinational repair. <i>Molecular Microbiology</i> , 2004, 51, 1279-1295.	2.5	68
43	RdgB acts to avoid chromosome fragmentation in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2003, 48, 1711-1725.	2.5	66
44	Chromosomal Lesion Suppression and Removal in <i>Escherichia coli</i> via Linear DNA Degradation. <i>Genetics</i> , 2003, 163, 1255-1271.	2.9	47
45	Recombinational Repair of DNA Damage in <i>Escherichia coli</i> and Bacteriophage λ . <i>Microbiology and Molecular Biology Reviews</i> , 1999, 63, 751-813.	6.6	836
46	Annealing <i>vs.</i> Invasion in Phage λ Recombination. <i>Genetics</i> , 1997, 147, 961-977.	2.9	96
47	Unraveling the late stages of recombinational repair: Metabolism of DNA junctions in <i>Escherichia coli</i> . <i>BioEssays</i> , 1996, 18, 757-765.	2.5	20
48	Instability of inhibited replication forks in <i>E. coli</i> . <i>BioEssays</i> , 1995, 17, 733-741.	2.5	90
49	Collapse and repair of replication forks in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 1995, 16, 373-384.	2.5	385
50	Hypothesis. RuvA, RuvB and RuvC proteins: Cleaning-up after recombinational repairs in <i>E. coli</i> . <i>BioEssays</i> , 1993, 15, 355-358.	2.5	28