Anders LÃ¸bner-Olesen

List of Publications by Year
in descending order

115 papers	6,253 citations	81889 39 h-index	74160 75 g-index
137 all docs	137 docs citations	137 times ranked	5054 citing authors

#	Article	IF	Citations
1	Prokaryotic toxinâ€“antitoxin stress response loci. Nature Reviews Microbiology, 2005, 3, 371-382.	28.6	950
2	The DnaA protein determines the initiation mass of Escherichia coli K-12. Cell, 1989, 57, 881-889.	28.9	313
3	Mechanism of postsegregational killing by the hok gene product of the parB system of plasmid R1 and its homology with the relF gene product of the E. coli relB operon.. EMBO Journal, 1986, 5, 2023-2029.	7.8	260
4	Dysfunctional MreB inhibits chromosome segregation in Escherichia coli. EMBO Journal, 2003, 22, 5283-5292.	7.8	249
5	The role of dam methyltransferase in the control of DNA replication in E. coli. Cell, 1990, 62, 981-989.	28.9	215
6	Dam methylation: coordinating cellular processes. Current Opinion in Microbiology, 2005, 8, 154-160.	5.1	214
7	Limiting DNA replication to once and only once. EMBO Reports, 2000, 1, 479-483.	4.5	145
8	Overproduction of DnaA protein stimulates initiation of chromosome and minichromosome replication in Escherichia coli. Molecular Genetics and Genomics, 1987, 206, 51-59.	2.4	134
9	Role of SeqA and Dam in Escherichia coli gene expression: A global/microarray analysis. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 4672-4677.	7.1	127
10	Mechanism of postsegregational killing by the hok gene product of the parB system of plasmid R1 and its homology with the relF gene product of the E. coli relB operon. EMBO Journal, 1986, 5, 2023-9.	7.8	123
11	Bacterial growth control studied by flow cytometry. Research in Microbiology, 1991, 142, 131-135.	2.1	117
12	Actin homolog MreB and RNA polymerase interact and are both required for chromosome segregation in Escherichia coli. Genes and Development, 2006, 20, 113-124.	5.9	115
13	Stability and replication control of Escherichia coli minichromosomes. Journal of Bacteriology, 1987, 169, 2835-2842.	2.2	108
14	Marine invertebrate cytochrome P450: Emerging insights from vertebrate and insect analogies. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2006, 143, 363-381.	2.6	93
15	Quantitation of Dam methyltransferase in Escherichia coli. Journal of Bacteriology, 1992, 174, 1682-1685.	2.2	91
16	DNA Methylation. EcoSal Plus, 2014, 6, .	5.4	84
17	Initiation of DNA replication in Escherichia coli after overproduction of the DnaA protein. Molecular Genetics and Genomics, 1989, 218, 50-56.	2.4	83
18	The eclipse period of Escherichia coli. EMBO Journal, 2000, 19, 6240-6248.	7.8	79

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19	Genome-wide detection of chromosomal rearrangements, indels, and mutations in circular chromosomes by short read sequencing. Genome Research, 2011, 21, 1388-1393.	5.5	79
20	The Escherichia coli SeqA protein destabilizes mutant DnaA204 protein. Molecular Microbiology, 2002, 37, 629-638.	2.5	78
21	Hda-mediated inactivation of the DnaA protein and dnaA gene autoregulation act in concert to ensure homeostatic maintenance of the Escherichia coli chromosome. Genes and Development, 2006, 20, 2121-2134.	5.9	76
22	Independent Control of Replication Initiation of the Two Vibrio cholerae Chromosomes by DnaA and RctB. Journal of Bacteriology, 2006, 188, 6419-6424.	2.2	72
23	Translational control and differential RNA decay are key elements regulating postsegregational expression of the killer protein encoded by the parB locus of plasmid R1. Journal of Molecular Biology, 1988, 203, 119-129.	4.2	71
24	Distribution of minichromosomes in individual Escherichia coli cells: implications for replication control. EMBO Journal, 1999, 18, 1712-1721.	7.8	71
25	A phosphoproteomics approach to elucidate neuropeptide signal transduction controlling insect metamorphosis. Insect Biochemistry and Molecular Biology, 2009, 39, 475-483.	2.7	70
26	Characterization of three genes in the dam-containing operon of Escherichia coli. Molecular Genetics and Genomics, 1995, 247, 546-554.	2.4	68
27	Timing of chromosomal replication in Escherichia coli. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1988, 951, 359-364.	2.4	63
28	The initiation cascade for chromosome replication in wild-type and Dam methyltransferase deficient Escherichia coli cells.. EMBO Journal, 1994, 13, 1856-1862.	7.8	59
29	Titration of the Escherichia coli DnaA protein to excess datA sites causes destabilization of replication forks, delayed replication initiation and delayed cell division. Molecular Microbiology, 2003, 50, 349-362.	2.5	59
30	Identification of the gene (aroK) encoding shikimic acid kinase I of Escherichia coli. Journal of Bacteriology, 1992, 174, 525-529.	2.2	58
31	Expression of the Escherichia coli dam gene. Molecular Microbiology, 1992, 6, 1841-1851.	2.5	55
32	â€œPopulation structure of Drug-Susceptible, -Resistant and ESBL-producing Escherichia coli from Community-Acquired Urinary Tract Infectionsâ€• BMC Microbiology, 2016, 16, 63.	3.3	55
33	Synchronous replication initiation of the two Vibrio cholerae chromosomes. Current Biology, 2004, 14, R501-R502.	3.9	53
34	Increased adherence and actin pedestal formation by dam-deficient enterohaemorrhagic Escherichia coli O157:H7. Molecular Microbiology, 2007, 63, 1468-1481.	2.5	53
35	Loss of Hda activity stimulates replication initiation from Iâ€box, but not R4 mutant origins in <i>Escherichia coli</i>. Molecular Microbiology, 2009, 71, 107-122.	2.5	48
36	Oxidative DNA damage is instrumental in hyperreplication stress-induced inviability of Escherichia coli. Nucleic Acids Research, 2014, 42, 13228-13241.	14.5	47

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37	Regulation of chromosomal replication by DnaA protein availability in Escherichia coli: effects of the datA region. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2001, 1521, 73-80.	2.4	46
38	Dam Methyltransferase Is Required for Stable Lysogeny of the Shiga Toxin (Stx2)-Encoding Bacteriophage 933W of Enterohemorrhagic <i>Escherichia coli</i> O157:H7. Journal of Bacteriology, 2008, 190, 438-441.	2.2	45
39	Different effects ofmioCtranscription on initiation of chromosomal and minichromosomal replication inEscherichia coli. Nucleic Acids Research, 1992, 20, 3029-3036.	14.5	44
40	Chromosome partitioning in Escherichia coli. Journal of Bacteriology, 1992, 174, 7883-7889.	2.2	41
41	Chromosomal replication incompatibility in Dam methyltransferase deficient Escherichia coli cells.. EMBO Journal, 1996, 15, 5999-6008.	7.8	41
42	Once in a lifetime: strategies for preventing reâ€replication in prokaryotic and eukaryotic cells. EMBO Reports, 2008, 9, 151-156.	4.5	41
43	Subcellular Protein Localization by Using a Genetically Encoded Fluorescent Amino Acid. ChemBioChem, 2011, 12, 1818-1821.	2.6	41
44	Ciprofloxacin intercalated in fluorohectorite clay: identical pure drug activity and toxicity with higher adsorption and controlled release rate. RSC Advances, 2017, 7, 26537-26545.	3.6	38
45	LLâ€37 fragments have antimicrobial activity against <scp><i>Staphylococcus epidermidis</i></scp> biofilms and wound healing potential in HaCaT cell line. Journal of Peptide Science, 2018, 24, e3080.	1.4	38
46	Hyperactive antifreeze proteins from longhorn beetles: Some structural insights. Journal of Insect Physiology, 2012, 58, 1502-1510.	2.0	37
47	Chromosomal replication incompatibility in Dam methyltransferase deficient Escherichia coli cells. EMBO Journal, 1996, 15, 5999-6008.	7.8	37
48	Host controlled plasmid replication: Escherichia coli minichromosomes. Plasmid, 2004, 52, 151-168.	1.4	36
49	Multiple DNA Binding Proteins Contribute to Timing of Chromosome Replication in E. coli. Frontiers in Molecular Biosciences, 2016, 3, 29.	3.5	36
50	Escherichia coli minichromosomes: Random segregation and absence of copy number control. Journal of Molecular Biology, 1990, 215, 257-265.	4.2	35
51	Coordinated Replication and Sequestration of oriC and dnaA Are Required for Maintaining Controlled Once-per-Cell-Cycle Initiation in Escherichia coli. Journal of Bacteriology, 2005, 187, 5605-5613.	2.2	35
52	An Amphipathic Undecapeptide with All <scp>d</scp> -Amino Acids Shows Promising Activity against Colistin-Resistant Strains of Acinetobacter baumannii and a Dual Mode of Action. Antimicrobial Agents and Chemotherapy, 2016, 60, 592-599.	3.2	34
53	Chromosome replication as a measure of bacterial growth rate during Escherichia coli infection in the mouse peritonitis model. Scientific Reports, 2018, 8, 14961.	3.3	34
54	Suppressors of DnaA^{ATP} imposed overinitiation in <i>Escherichia coli</i>. Molecular Microbiology, 2011, 79, 914-928.	2.5	33

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55	Epidemiological factors associated with ESBL- and non ESBL-producing<i>E. coli</i>causing urinary tract infection in general practice. Infectious Diseases, 2016, 48, 241-245.	2.8	33
56	(p)ppGpp-mediated stress response induced by defects in outer membrane biogenesis and ATP production promotes survival in Escherichia coli. Scientific Reports, 2019, 9, 2934.	3.3	31
57	The initiation cascade for chromosome replication in wild-type and Dam methyltransferase deficient Escherichia coli cells. EMBO Journal, 1994, 13, 1856-62.	7.8	31
58	Stable co-existence of separate replicons in Escherichia coli is dependent on once-per-cell-cycle initiation. EMBO Journal, 2003, 22, 140-150.	7.8	30
59	Expanding the potential of NAI-107 for treating serious ESKAPE pathogens: synergistic combinations against Gram-negatives and bactericidal activity against non-dividing cells. Journal of Antimicrobial Chemotherapy, 2018, 73, 414-424.	3.0	30
60	Bactericidal Antibiotics Increase Hydroxyphenyl Fluorescein Signal by Altering Cell Morphology. PLoS ONE, 2014, 9, e92231.	2.5	28
61	Cell Cycle Control: Prokaryotic Solutions to Eukaryotic Problems?. Journal of Theoretical Biology, 1994, 168, 227-230.	1.7	27
62	DNA Replication Control Is Linked to Genomic Positioning of Control Regions in Escherichia coli. PLoS Genetics, 2016, 12, e1006286.	3.5	27
63	Novel growth rate control of dam gene expression in Escherichia coli. Molecular Microbiology, 1994, 12, 631-638.	2.5	26
64	New Insights into the Antimicrobial Action of Cinnamaldehyde towards Escherichia coli and Its Effects on Intestinal Colonization of Mice. Biomolecules, 2021, 11, 302.	4.0	26
65	Replication of<i>Vibrio cholerae</i>Chromosome I in<i>Escherichia coli</i>: Dependence on Dam Methylation. Journal of Bacteriology, 2010, 192, 3903-3914.	2.2	25
66	Coping with Reactive Oxygen Species to Ensure Genome Stability in Escherichia coli. Genes, 2018, 9, 565.	2.4	25
67	The Role of Efflux Pumps in the Transition from Low-Level to Clinical Antibiotic Resistance. Antibiotics, 2020, 9, 855.	3.7	25
68	Antimicrobial and Antivirulence Action of Eugenia brejoensis Essential Oil in vitro and in vivo Invertebrate Models. Frontiers in Microbiology, 2020, 11, 424.	3.5	25
69	Antibiotic Selection of Escherichia coli Sequence Type 131 in a Mouse Intestinal Colonization Model. Antimicrobial Agents and Chemotherapy, 2014, 58, 6139-6144.	3.2	24
70	Efflux-Pump Upregulation: From Tolerance to High-level Antibiotic Resistance?. Trends in Microbiology, 2019, 27, 291-293.	7.7	24
71	The Alkaloid Compound Harmane Increases the Lifespan of Caenorhabditis elegans during Bacterial Infection, by Modulating the Nematodeâ€™s Innate Immune Response. PLoS ONE, 2013, 8, e60519.	2.5	23
72	Effects of Antibiotics on the Intestinal Microbiota of Mice. Antibiotics, 2020, 9, 191.	3.7	22

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73	Regulation of DNA Replication in Escherichia coli. , 1993, , 15-26.		20
74	Growth-rate-dependent transcription initiation from the dam P2 promoter. Gene, 1995, 157, 213-215.	2.2	19
75	Control regions for chromosome replication are conserved with respect to sequence and location among Escherichia coli strains. Frontiers in Microbiology, 2015, 6, 1011.	3.5	19
76	The gene for 2-phosphoglycolate phosphatase (gph) in Escherichia coli is located in the same operon as dam and at least five other diverse genes. Biochimica Et Biophysica Acta - General Subjects, 1999, 1472, 376-384.	2.4	18
77	The Lantibiotic NAI-107 Efficiently Rescues Drosophila melanogaster from Infection with Methicillin-Resistant Staphylococcus aureus USA300. Antimicrobial Agents and Chemotherapy, 2016, 60, 5427-5436.	3.2	18
78	Re-wiring of energy metabolism promotes viability during hyperreplication stress in E. coli. PLoS Genetics, 2017, 13, e1006590.	3.5	18
79	Cyclic Peptide Inhibitors of the Î²-Sliding Clamp in Staphylococcus aureus. PLoS ONE, 2013, 8, e72273.	2.5	18
80	DNA Damage Repair and Drug Efflux as Potential Targets for Reversing Low or Intermediate Ciprofloxacin Resistance in E. coli K-12. Frontiers in Microbiology, 2018, 9, 1438.	3.5	17
81	rctB mutations that increase copy number of Vibrio cholerae oriCII in Escherichia coli. Plasmid, 2012, 68, 159-169.	1.4	16
82	Schinus terebinthifolia leaf lectin (SteLL) has anti-infective action and modulates the response of Staphylococcus aureus-infected macrophages. Scientific Reports, 2019, 9, 18159.	3.3	16
83	Comparative Activity of Ceftriaxone, Ciprofloxacin, and Gentamicin as a Function of Bacterial Growth Rate Probed by Escherichia coli Chromosome Replication in the Mouse Peritonitis Model. Antimicrobial Agents and Chemotherapy, 2019, 63, .	3.2	16
84	Crosslinking of Dam methyltransferase withS-adenosyl-methionine. FEBS Letters, 1991, 280, 147-151.	2.8	15
85	Antibacterial mechanisms of GNâ€² derived peptides and peptoids against <i>Escherichia coli</i>. Biopolymers, 2019, 110, e23275.	2.4	15
86	Novel Cyclic Lipopeptide Antibiotics: Effects of Acyl Chain Length and Position. International Journal of Molecular Sciences, 2020, 21, 5829.	4.1	15
87	Inhibition of <i>Escherichia coli</i> chromosome replication by rifampicin treatment or during the stringent response is overcome by de novo DnaA protein synthesis. Molecular Microbiology, 2020, 114, 906-919.	2.5	15
88	Activating the Cpx response induces tolerance to antisense PNA delivered by an arginine-rich peptide in Escherichia coli. Molecular Therapy - Nucleic Acids, 2021, 25, 444-454.	5.1	15
89	The LipB protein is a negative regulator of dam gene expression in Escherichia coli. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2000, 1494, 43-53.	2.4	14
90	Translocation of non-lytic antimicrobial peptides and bacteria penetrating peptides across the inner membrane of the bacterial envelope. Current Genetics, 2022, 68, 83-90.	1.7	14

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91	Countermeasures to survive excessive chromosome replication in Escherichia coli. Current Genetics, 2018, 64, 71-79.	1.7	13
92	Reduced initiation frequency from oriC restores viability of a temperature-sensitive Escherichia coli replisome mutant. Microbiology (United Kingdom), 2005, 151, 963-973.	1.8	12
93	Lack of the RNA chaperone Hfq attenuates pathogenicity of several Escherichia coli pathotypes towards Caenorhabditis elegans. Microbes and Infection, 2012, 14, 1034-1039.	1.9	11
94	Analogues of a Cyclic Antimicrobial Peptide with a Flexible Linker Show Promising Activity against Pseudomonas aeruginosa and Staphylococcus aureus. Antibiotics, 2020, 9, 366.	3.7	11
95	DnaC Inactivation in Escherichia coli K-12 Induces the SOS Response and Expression of Nucleotide Biosynthesis Genes. PLoS ONE, 2008, 3, e2984.	2.5	9
96	Modulation of Backbone Flexibility for Effective Dissociation of Antibacterial and Hemolytic Activity in Cyclic Peptides. ACS Medicinal Chemistry Letters, 2016, 7, 741-745.	2.8	8
97	A role for the weak DnaA binding sites in bacterial replication origins. Molecular Microbiology, 2011, 82, 272-274.	2.5	7
98	Control of bacterial chromosome replication by non-coding regions outside the origin. Current Genetics, 2017, 63, 607-611.	1.7	7
99	Effects of LPS Composition in Escherichia coli on Antibacterial Activity and Bacterial Uptake of Antisense Peptide-PNA Conjugates. Frontiers in Microbiology, 0, 13, .	3.5	7
100	Bacterial Chromosome Replication and DNA Repair During the Stringent Response. Frontiers in Microbiology, 2020, 11, 582113.	3.5	6
101	Energy Starvation Induces a Cell Cycle Arrest in Escherichia coli by Triggering Degradation of the DnaA Initiator Protein. Frontiers in Molecular Biosciences, 2021, 8, 629953.	3.5	6
102	DNA Methylation. EcoSal Plus, 2009, 3, .	5.4	6
103	Growth Rate of Escherichia coli During Human Urinary Tract Infection: Implications for Antibiotic Effect. Antibiotics, 2019, 8, 92.	3.7	5
104	Escherichia coli belonging to ST131 rarely transfers bla_{ctx-m-15} to fecal Escherichia coli . Infection and Drug Resistance, 2019, Volume 12, 2429-2435.	2.7	5
105	Analysis of Escherichia coli Mutants with Altered DNA Content. Cold Spring Harbor Symposia on Quantitative Biology, 1991, 56, 353-358.	1.1	5
106	Antisense inhibition of the Escherichia coli NrdAB aerobic ribonucleotide reductase is bactericidal due to induction of DNA strand breaks. Journal of Antimicrobial Chemotherapy, 2021, 76, 2802-2814.	3.0	4
107	A Novel Fluorescence-Based Screen for Inhibitors of the Initiation of DNA Replication in Bacteria. Current Drug Discovery Technologies, 2019, 16, 272-277.	1.2	4
108	Iron chelation increases the tolerance of Escherichia coli to hyper-replication stress. Scientific Reports, 2018, 8, 10550.	3.3	3

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109	Structure-Activity Study of an All-d Antimicrobial Octapeptide D2D. Molecules, 2019, 24, 4571.	3.8	3
110	HipA-Mediated Phosphorylation of SeqA Does not Affect Replication Initiation in Escherichia coli. Frontiers in Microbiology, 2018, 9, 2637.	3.5	2
111	Arresting chromosome replication upon energy starvation in Escherichia coli. Current Genetics, 2021, 67, 877-882.	1.7	2
112	Determination of the Optimal Chromosomal Location(s) for a DNA Element in Escherichia coli Using a Novel Transposon-mediated Approach. Journal of Visualized Experiments, 2017, , .	0.3	0
113	Counting Replication Origins to Measure Growth of Pathogens. Antibiotics, 2020, 9, 239.	3.7	0
114	Sinapic acid as inhibitor of the SOS response in Eschericha coli induced by ciprofloxacin. Planta Medica, 2016, 81, S1-S381.	1.3	0
115	New insights into anti-S. aureus action of Buchenavia tetraphylla and Libidibia ferrea: inhibition of DNA replication. Planta Medica, 2016, 81, S1-S381.	1.3	0