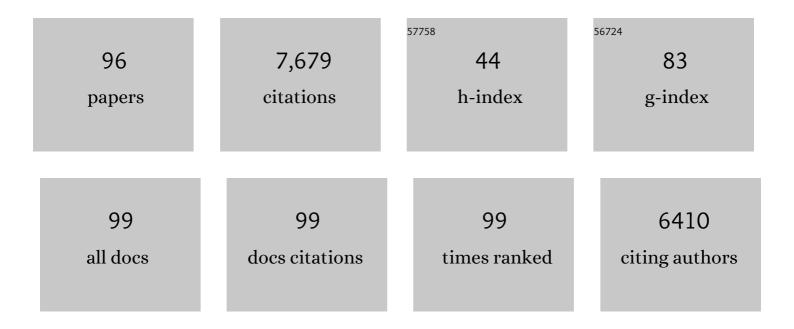
Laurence Van Melderen

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Definitions and guidelines for research on antibiotic persistence. Nature Reviews Microbiology, 2019, 17, 441-448.	28.6	748
2	Bacterial Toxin–Antitoxin Systems: More Than Selfish Entities?. PLoS Genetics, 2009, 5, e1000437.	3.5	440
3	Diversity of bacterial type II toxin–antitoxin systems: a comprehensive search and functional analysis of novel families. Nucleic Acids Research, 2011, 39, 5513-5525.	14.5	381
4	Toxin–antitoxin systems: why so many, what for?. Current Opinion in Microbiology, 2010, 13, 781-785.	5.1	291
5	A Systematic and Functional Classification of Streptococcus pyogenes That Serves as a New Tool for Molecular Typing and Vaccine Development. Journal of Infectious Diseases, 2014, 210, 1325-1338.	4.0	257
6	Toxins-antitoxins: diversity, evolution and function. Critical Reviews in Biochemistry and Molecular Biology, 2011, 46, 386-408.	5.2	254
7	Lon-dependent proteolysis of CcdA is the key control for activation of CcdB in plasmid-free segregant bacteria. Molecular Microbiology, 1994, 11, 1151-1157.	2.5	224
8	Overproduction of the Lon protease triggers inhibition of translation in Escherichia coli: involvement of the yefM-yoeB toxin-antitoxin system. Molecular Microbiology, 2004, 51, 1705-1717.	2.5	211
9	Toxin-Antitoxin Systems as Multilevel Interaction Systems. Toxins, 2014, 6, 304-324.	3.4	205
10	ATP-dependent Degradation of CcdA by Lon Protease. Journal of Biological Chemistry, 1996, 271, 27730-27738.	3.4	191
11	What Is the Benefit to Escherichia coli of Having Multiple Toxin-Antitoxin Systems in Its Genome?. Journal of Bacteriology, 2007, 189, 6101-6108.	2.2	191
12	Biological roles of the Lon ATP-dependent protease. Research in Microbiology, 2006, 157, 701-713.	2.1	189
13	Type II Toxin-Antitoxin Systems: Evolution and Revolutions. Journal of Bacteriology, 2020, 202, .	2.2	189
14	The F Plasmid CcdB Protein Induces Efficient ATP-dependent DNA Cleavage by Gyrase. Journal of Molecular Biology, 1993, 234, 534-541.	4.2	180
15	Reassessing the Role of Type II Toxin-Antitoxin Systems in Formation of Escherichia coli Type II Persister Cells. MBio, 2018, 9, .	4.1	174
16	Biology and evolution of bacterial toxin–antitoxin systems. Nature Reviews Microbiology, 2022, 20, 335-350.	28.6	174
17	The Staphylococci Phages Family: An Overview. Viruses, 2012, 4, 3316-3335.	3.3	163
18	Crystal structure of CcdB, a topoisomerase poison from E. coli 1 1Edited by T. Richmond. Journal of Molecular Biology, 1999, 285, 1667-1677.	4.2	158

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19	Post-transcriptional global regulation by CsrA in bacteria. Cellular and Molecular Life Sciences, 2010, 67, 2897-2908.	5.4	157
20	The ratio between CcdA and CcdB modulates the transcriptional repression of the ccd poison-antidote system. Molecular Microbiology, 2001, 41, 73-82.	2.5	137
21	Updated model of group A Streptococcus M proteins based on a comprehensive worldwide study. Clinical Microbiology and Infection, 2013, 19, E222-E229.	6.0	135
22	Molecular Basis of Gyrase Poisoning by the Addiction Toxin CcdB. Journal of Molecular Biology, 2005, 348, 1091-1102.	4.2	130
23	Chromosomal Toxin-Antitoxin Systems May Act as Antiaddiction Modules. Journal of Bacteriology, 2008, 190, 4603-4609.	2.2	128
24	Bacterial death by DNA gyrase poisoning. Trends in Microbiology, 1998, 6, 269-275.	7.7	127
25	Structural Basis for Nucleic Acid and Toxin Recognition of the Bacterial Antitoxin CcdA. Journal of Molecular Biology, 2006, 364, 170-185.	4.2	119
26	Single-cell imaging and characterization of <i>Escherichia coli</i> persister cells to ofloxacin in exponential cultures. Science Advances, 2019, 5, eaav9462.	10.3	119
27	Regulation and quality control by Lon-dependent proteolysis. Research in Microbiology, 2009, 160, 645-651.	2.1	110
28	New toxins homologous to ParE belonging to three-component toxin-antitoxin systems in Escherichia coli O157:H7. Molecular Microbiology, 2010, 76, 719-732.	2.5	110
29	Differences in nasopharyngeal bacterial carriage in preschool children from different socio-economic origins. Clinical Microbiology and Infection, 2011, 17, 907-914.	6.0	76
30	Bacterial toxin-antitoxin systems. Mobile Genetic Elements, 2011, 1, 283-306.	1.8	74
31	AtaT blocks translation initiation by N-acetylation of the initiator tRNAfMet. Nature Chemical Biology, 2017, 13, 640-646.	8.0	71
32	The Highly Conserved TldD and TldE Proteins of <i>Escherichia coli</i> Are Involved in Microcin B17 Processing and in CcdA Degradation. Journal of Bacteriology, 2002, 184, 3224-3231.	2.2	64
33	Conditional Essentiality of the <i>csrA</i> Gene in <i>Escherichia coli</i> . Journal of Bacteriology, 2009, 191, 1722-1724.	2.2	64
34	Small-Angle X-Ray Scattering- and Nuclear Magnetic Resonance-Derived Conformational Ensemble of the Highly Flexible Antitoxin PaaA2. Structure, 2014, 22, 854-865.	3.3	61
35	Differences between Belgian and Brazilian Group A Streptococcus Epidemiologic Landscape. PLoS ONE, 2006, 1, e10.	2.5	60
36	The antidote and autoregulatory functions of the F plasmid CcdA protein: a genetic and biochemical survey. Molecular Genetics and Genomics, 1994, 244, 530-538.	2.4	59

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37	F plasmid CcdB killer protein ccdB gene mutants coding for non-cytotoxic proteins which retain their regulatory functions. Molecular Microbiology, 1995, 15, 1031-1037.	2.5	59
38	Molecular interactions of the CcdB poison with its bacterial target, the DNA gyrase. International Journal of Medical Microbiology, 2001, 291, 537-544.	3.6	57
39	Genetic diversity of Group A Streptococcus M protein: Implications for typing and vaccine development. Vaccine, 2008, 26, 5835-5842.	3.8	57
40	Functional Interactions between Coexisting Toxin-Antitoxin Systems of the ccd Family in Escherichia coli O157:H7. Journal of Bacteriology, 2007, 189, 2712-2719.	2.2	55
41	Regulation of acetate metabolism and coordination with the TCA cycle via a processed small RNA. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1043-1052.	7.1	55
42	The Decay of the Chromosomally Encoded <i>ccdO157</i> Toxin–Antitoxin System in the <i>Escherichia coli</i> Species. Genetics, 2009, 181, 1557-1566.	2.9	53
43	Characterization of Novel Phages Isolated in Coagulase-Negative Staphylococci Reveals Evolutionary Relationships with Staphylococcus aureus Phages. Journal of Bacteriology, 2012, 194, 5829-5839.	2.2	50
44	Substrate sequestration by a proteolytically inactive Lon mutant. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 6064-6071.	7.1	49
45	Regulatory crosstalk between type I and type II toxin-antitoxin systems in the human pathogen <i>Enterococcus faecalis</i> . RNA Biology, 2015, 12, 1099-1108.	3.1	49
46	Characterization of the <i>phd-doc</i> and <i>ccd</i> Toxin-Antitoxin Cassettes from Vibrio Superintegrons. Journal of Bacteriology, 2013, 195, 2270-2283.	2.2	46
47	A unique hetero-hexadecameric architecture displayed by the Escherichia coli O157 PaaA2–ParE2 antitoxin–toxin complex. Journal of Molecular Biology, 2016, 428, 1589-1603.	4.2	41
48	Sequential multiplex PCR assay for determining capsular serotypes of colonizing S. pneumoniae. BMC Infectious Diseases, 2011, 11, 100.	2.9	40
49	Reassessing the Role of the Type II MqsRA Toxin-Antitoxin System in Stress Response and Biofilm Formation: <i>mqsA</i> Is Transcriptionally Uncoupled from <i>mqsR</i> . MBio, 2019, 10, .	4.1	40
50	Novel toxins from type II toxin-antitoxin systems with acetyltransferase activity. Plasmid, 2017, 93, 30-35.	1.4	38
51	Pharyngitis in Low-Resources Settings: A Pragmatic Clinical Approach to Reduce Unnecessary Antibiotic Use. Pediatrics, 2006, 118, e1607-e1611.	2.1	37
52	Relaxed Cleavage Specificity within the RelE Toxin Family. Journal of Bacteriology, 2013, 195, 2541-2549.	2.2	34
53	Mechanism of regulation and neutralization of the AtaR–AtaT toxin–antitoxin system. Nature Chemical Biology, 2019, 15, 285-294.	8.0	33
54	Commentary: What Is the Link between Stringent Response, Endoribonuclease Encoding Type II Toxin-Antitoxin Systems and Persistence?. Frontiers in Microbiology, 2017, 8, 191.	3.5	31

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55	The Variety in the Common Theme of Translation Inhibition by Type II Toxin–Antitoxin Systems. Frontiers in Genetics, 2020, 11, 262.	2.3	30
56	PinA Inhibits ATP Hydrolysis and Energy-dependent Protein Degradation by Lon Protease. Journal of Biological Chemistry, 1998, 273, 524-527.	3.4	29
57	Characterization of a novel temperate phage originating from a cereulide-producing Bacillus cereus strain. Research in Microbiology, 2011, 162, 446-459.	2.1	25
58	Toxin-Antitoxin Gene Pairs Found in Tn <i>3</i> Family Transposons Appear To Be an Integral Part of the Transposition Module. MBio, 2020, 11, .	4.1	25
59	Emerging fluoroquinolone-non-susceptible group A streptococci in two different paediatric populations. International Journal of Antimicrobial Agents, 2009, 34, 44-49.	2.5	24
60	The emm-type diversity does not always reflect the M protein genetic diversity—Is there a case for designer vaccine against GAS. Vaccine, 2010, 28, 883-885.	3.8	24
61	Evidence for an evolutionary antagonism between Mrr and Type III modification systems. Nucleic Acids Research, 2011, 39, 5991-6001.	14.5	21
62	Crystallization of CcdB in complex with a GyrA fragment. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 1132-1134.	2.5	20
63	Nosocomial transmission of necrotising fasciitis. Lancet, The, 2010, 375, 1052.	13.7	19
64	The Ribonucleoprotein Csr Network. International Journal of Molecular Sciences, 2013, 14, 22117-22131.	4.1	19
65	Bacterial behavior in human blood reveals complement evaders with some persister-like features. PLoS Pathogens, 2020, 16, e1008893.	4.7	18
66	Purification, Circular Dichroism Analysis, Crystallization and Preliminary X-ray Diffraction Analysis of the F Plasmid CcdB Killer Protein. Journal of Molecular Biology, 1993, 231, 513-515.	4.2	16
67	Group A Streptococcus virulence and host factors in two toddlers with rheumatic fever following toxic shock syndrome. International Journal of Infectious Diseases, 2010, 14, e403-e409.	3.3	15
68	Expression of the F plasmid ccd toxin–antitoxin system in Escherichia coli cells under nutritional stress. Canadian Journal of Microbiology, 2006, 52, 24-30.	1.7	13
69	Growth-dependent recombinant product formation kinetics can be reproduced through engineering of glucose transport and is prone to phenotypic heterogeneity. Microbial Cell Factories, 2019, 18, 26.	4.0	13
70	Bistable Expression of a Toxin-Antitoxin System Located in a Cryptic Prophage of Escherichia coli O157:H7. MBio, 2021, 12, e0294721.	4.1	13
71	Messing up translation from the start: How AtaT inhibits translation initiation in E. coli. RNA Biology, 2018, 15, 303-307.	3.1	11
72	ldentification of a metagenomic gene cluster containing a new class A betaâ€lactamase and toxinâ€antitoxin systems. MicrobiologyOpen, 2013, 2, 674-683.	3.0	10

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#	Article	IF	CITATIONS
73	Reply to Holden and Errington, "Type II Toxin-Antitoxin Systems and Persister Cells― MBio, 2018, 9, .	4.1	10
74	The ParE2–PaaA2 toxin–antitoxin complex from <i>Escherichia coli</i> O157 forms a heterodocecamer in solution and in the crystal. Acta Crystallographica Section F: Structural Biology Communications, 2012, 68, 724-729.	0.7	9
75	Optimized Method for Measuring Persistence in Escherichia coli with Improved Reproducibility. Methods in Molecular Biology, 2016, 1333, 43-52.	0.9	9
76	Polyclonal dissemination of tetracycline resistance among Streptococcus pyogenes paediatric isolates from Brazil. Journal of Infection in Developing Countries, 2010, 4, 704-711.	1.2	9
77	The role of small proteins in Burkholderia cenocepacia J2315 biofilm formation, persistence and intracellular growth. Biofilm, 2019, 1, 100001.	3.8	7
78	Purification and crystallization ofVibrio fischeriCcdB and its complexes with fragments of gyrase and CcdA. Acta Crystallographica Section F: Structural Biology Communications, 2007, 63, 356-360.	0.7	5
79	Characterization of culturable Paenibacillus spp. from the snow surface on the high Antarctic Plateau (DOME C) and their dissemination in the Concordia research station. Extremophiles, 2013, 17, 565-573.	2.3	5
80	Carriage-Associated Streptocccus pneumoniae Serotype 1 in Brussels, Belgium. Pediatric Infectious Disease Journal, 2013, 32, 86-87.	2.0	5
81	Crystallization and X-ray analysis of all of the players in the autoregulation of the <i>ataRT</i> toxin–antitoxin system. Acta Crystallographica Section F, Structural Biology Communications, 2018, 74, 391-401.	0.8	5
82	Escherichia colimazEF Toxin-Antitoxin System as a Tool to Target Cell Ablation in Plants. Journal of Molecular Microbiology and Biotechnology, 2016, 26, 277-283.	1.0	4
83	Thermodynamic Stability of the Transcription Regulator PaaR2 from Escherichia coli O157:H7. Biophysical Journal, 2019, 116, 1420-1431.	0.5	4
84	Toxin-Antitoxin Systems and Persistence. , 2019, , 181-202.		4
85	Type II Toxin-Antitoxin Loci: The ccdAB and parDE Families. , 2013, , 45-67.		3
86	Group A Streptococcus Colonies From a Single Throat Swab Can Have Heterogeneous Antimicrobial Susceptibility Patterns. Pediatric Infectious Disease Journal, 2013, 32, 296-298.	2.0	3
87	Crystallization and preliminary X-ray analysis of two variants of the <i>Escherichia coli</i> O157 ParE2–PaaA2 toxin–antitoxin complex. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 1284-1291.	0.8	2
88	Sequence-specific 1H, 15N and 13C resonance assignments of the 23.7-kDa homodimeric toxin CcdB from Vibrio fischeri. Biomolecular NMR Assignments, 2009, 3, 145-147.	0.8	1
89	GhoSTly bacterial persisters. Nature Chemical Biology, 2012, 8, 812-813.	8.0	1
90	1H, 13C, and 15N backbone and side chain chemical shift assignment of YdaS, a monomeric member of the HigA family. Biomolecular NMR Assignments, 2020, 14, 25-30.	0.8	1

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91	iTDtest: an Easy-to-Handle and Visual Assay To Detect Tolerant and Persister Cells in an Antibiotic Combination Regimen. MBio, 2022, 13, .	4.1	1
92	Phenotypic Characterization of Antibiotic Persisters at the Single-Cell Level: From Data Acquisition to Data Analysis. Methods in Molecular Biology, 2021, 2357, 95-106.	0.9	0
93	Bacterial behavior in human blood reveals complement evaders with some persister-like features. , 2020, 16, e1008893.		0
94	Bacterial behavior in human blood reveals complement evaders with some persister-like features. , 2020, 16, e1008893.		0
95	Bacterial behavior in human blood reveals complement evaders with some persister-like features. , 2020, 16, e1008893.		0
96	Bacterial behavior in human blood reveals complement evaders with some persister-like features. , 2020, 16, e1008893.		0