

# Dominique Mengin-Lecreulx

## List of Publications by Year in descending order

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57  
papers

3,695  
citations

159585

30  
h-index

149698

56  
g-index

58  
all docs

58  
docs citations

58  
times ranked

3508  
citing authors

#	ARTICLE	IF	CITATIONS
1	MexAB-OprM Efflux Pump Interaction with the Peptidoglycan of <i>Escherichia coli</i> and <i>Pseudomonas aeruginosa</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 5328.	4.1	10
2	Functional analysis of the three major PGRPLC isoforms in the midgut of the malaria mosquito <i>Anopheles coluzzii</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2020, 118, 103288.	2.7	2
3	CbrA Mediates Colicin M Resistance in <i>Escherichia coli</i> through Modification of Undecaprenyl-Phosphate-Linked Peptidoglycan Precursors. <i>Journal of Bacteriology</i> , 2020, 202, .	2.2	3
4	Insight into the dual function of lipid phosphate phosphatase PgpB involved in two essential cell-envelope metabolic pathways in <i>Escherichia coli</i> . <i>Scientific Reports</i> , 2020, 10, 13209.	3.3	9
5	AsnB is responsible for peptidoglycan precursor amidation in <i>Clostridium difficile</i> in the presence of vancomycin. <i>Microbiology (United Kingdom)</i> , 2020, 166, 567-578.	1.8	8
6	HupA, the main undecaprenyl pyrophosphate and phosphatidylglycerol phosphate phosphatase in <i>Helicobacter pylori</i> is essential for colonization of the stomach. <i>PLoS Pathogens</i> , 2019, 15, e1007972.	4.7	11
7	Inhibition of the <i>Staphylococcus aureus</i> c-di-AMP cyclase DacA by direct interaction with the phosphoglucosamine mutase GlmM. <i>PLoS Pathogens</i> , 2019, 15, e1007537.	4.7	35
8	Impact of FiuA Outer Membrane Receptor Polymorphism on the Resistance of <i>Pseudomonas aeruginosa</i> toward Peptidoglycan Lipid II-Targeting Paem Pyocins. <i>Journal of Bacteriology</i> , 2019, 201, .	2.2	2
9	The MurG glycosyltransferase provides an oligomeric scaffold for the cytoplasmic steps of peptidoglycan biosynthesis in the human pathogen <i>Bordetella pertussis</i> . <i>Scientific Reports</i> , 2019, 9, 4656.	3.3	15
10	Weevil <i>pgrp-lb</i> prevents endosymbiont TCT dissemination and chronic host systemic immune activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 5623-5632.	7.1	56
11	Dual regulation of activity and intracellular localization of the PASTA kinase PrkC during <i>Bacillus subtilis</i> growth. <i>Scientific Reports</i> , 2018, 8, 1660.	3.3	16
12	Critical Impact of Peptidoglycan Precursor Amidation on the Activity of L,D-transpeptidases from <i>Enterococcus faecium</i> and <i>Mycobacterium tuberculosis</i> . <i>Chemistry - A European Journal</i> , 2018, 24, 5743-5747.	3.3	44
13	Synthesis of Lipid-Carbohydrate-Peptidyl-RNA Conjugates to Explore the Limits Imposed by the Substrate Specificity of Cell Wall Enzymes on the Acquisition of Drug Resistance. <i>Chemistry - A European Journal</i> , 2018, 24, 14911-14915.	3.3	5
14	Crystal structure and biochemical characterization of the transmembrane PAP2 type phosphatidylglycerol phosphate phosphatase from <i>Bacillus subtilis</i> . <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 2319-2332.	5.4	20
15	Different Vancomycin-Intermediate <i>Staphylococcus aureus</i> Phenotypes Selected from the Same ST100-hVISA Parental Strain. <i>Microbial Drug Resistance</i> , 2017, 23, 44-50.	2.0	8
16	Structural basis of adaptor-mediated protein degradation by the tail-specific PDZ-protease Prc. <i>Nature Communications</i> , 2017, 8, 1516.	12.8	46
17	Factors essential for L,D-transpeptidase-mediated peptidoglycan cross-linking and $\beta$ -lactam resistance in <i>Escherichia coli</i> . <i>ELife</i> , 2016, 5, .	6.0	137
18	Identification and Partial Characterization of a Novel UDP-N-Acetylenolpyruvylglucosamine Reductase/UDP-N-Acetylmuramate:Alanine Ligase Fusion Enzyme from <i>Verrucomicrobium spinosum</i> DSM 4136T. <i>Frontiers in Microbiology</i> , 2016, 7, 362.	3.5	6

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19	Pectocin M1 (PcaM1) Inhibits Escherichia coli Cell Growth and Peptidoglycan Biosynthesis through Periplasmic Expression. <i>Antibiotics</i> , 2016, 5, 36.	3.7	5
20	Electrophilic RNA for Peptidylâ€RNA Synthesis and Siteâ€Specific Crossâ€Linking with tRNAâ€Binding Enzymes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13553-13557.	13.8	11
21	PGRP-SD, an Extracellular Pattern-Recognition Receptor, Enhances Peptidoglycan-Mediated Activation of the Drosophila Imd Pathway. <i>Immunity</i> , 2016, 45, 1013-1023.	14.3	77
22	Electrophilic RNA for Peptidylâ€RNA Synthesis and Siteâ€Specific Crossâ€Linking with tRNAâ€Binding Enzymes. <i>Angewandte Chemie</i> , 2016, 128, 13751-13755.	2.0	8
23	Catalytic mechanism of MraY and WecA, two paralogues of the polyprenyl-phosphate N-acetylhexosamine 1-phosphate transferase superfamily. <i>Biochimie</i> , 2016, 127, 249-257.	2.6	45
24	Membrane Topology and Biochemical Characterization of the Escherichia coli BacA Undecaprenyl-Pyrophosphate Phosphatase. <i>PLoS ONE</i> , 2015, 10, e0142870.	2.5	32
25	Diaminopimelic Acid Amidation in Corynebacteriales. <i>Journal of Biological Chemistry</i> , 2015, 290, 13079-13094.	3.4	36
26	Deciphering the Metabolism of Undecaprenyl-Phosphate: The Bacterial Cell-Wall Unit Carrier at the Membrane Frontier. <i>Microbial Drug Resistance</i> , 2014, 20, 199-214.	2.0	128
27	Structure and Function of a Novel <i>Id</i> -Carboxypeptidase A Involved in Peptidoglycan Recycling. <i>Journal of Bacteriology</i> , 2013, 195, 5555-5566.	2.2	16
28	The functional <i>vanG</i> cluster of <i>Clostridium difficile</i> does not confer vancomycin resistance. <i>Molecular Microbiology</i> , 2013, 89, 612-625.	2.5	53
29	Colicin M, a peptidoglycan lipid-II-degrading enzyme: potential use for antibacterial means?. <i>Biochemical Society Transactions</i> , 2012, 40, 1522-1527.	3.4	17
30	Functional and Structural Characterization of PaeM, a Colicin M-like Bacteriocin Produced by <i>Pseudomonas aeruginosa</i> . <i>Journal of Biological Chemistry</i> , 2012, 287, 37395-37405.	3.4	33
31	Colicin M hydrolyses branched lipids II from Gram-positive bacteria. <i>Biochimie</i> , 2012, 94, 985-990.	2.6	15
32	X-Ray Structure and Site-Directed Mutagenesis Analysis of the <i>Escherichia coli</i> Colicin M Immunity Protein. <i>Journal of Bacteriology</i> , 2011, 193, 205-214.	2.2	21
33	Deciphering the Catalytic Domain of Colicin M, a Peptidoglycan Lipid II-degrading Enzyme. <i>Journal of Biological Chemistry</i> , 2010, 285, 12378-12389.	3.4	36
34	Toxicity of the Colicin M Catalytic Domain Exported to the Periplasm Is FkpA Independent. <i>Journal of Bacteriology</i> , 2010, 192, 5212-5219.	2.2	16
35	The Extended Conformation of the 2.9-Å... Crystal Structure of the Three-PASTA Domain of a Ser/Thr Kinase from the Human Pathogen <i>Staphylococcus aureus</i> . <i>Journal of Molecular Biology</i> , 2010, 404, 847-858.	4.2	40
36	Purification and biochemical characterization of Mur ligases from <i>Staphylococcus aureus</i> . <i>Biochimie</i> , 2010, 92, 1793-1800.	2.6	28

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37	Human- and Plant-Pathogenic <i>Pseudomonas</i> Species Produce Bacteriocins Exhibiting Colicin M-Like Hydrolase Activity towards Peptidoglycan Precursors. <i>Journal of Bacteriology</i> , 2009, 191, 3657-3664.	2.2	68
38	Substrate-Induced Inactivation of the <i>Escherichia coli</i> AmiD N-Acetylmuramoyl- <i>l</i> -Alanine Amidase Highlights a New Strategy To Inhibit This Class of Enzyme. <i>Antimicrobial Agents and Chemotherapy</i> , 2009, 53, 2991-2997.	3.2	28
39	Quantitative high-performance liquid chromatography analysis of the pool levels of undecaprenyl phosphate and its derivatives in bacterial membranes. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 213-220.	2.3	75
40	Periplasmic phosphorylation of lipid A is linked to the synthesis of undecaprenyl phosphate. <i>Molecular Microbiology</i> , 2008, 67, 264-277.	2.5	116
41	The biosynthesis of peptidoglycan lipid-linked intermediates. <i>FEMS Microbiology Reviews</i> , 2008, 32, 208-233.	8.6	364
42	Purification and Characterization of the Bacterial UDP-GlcNAc:Undecaprenyl-Phosphate GlcNAc-1-Phosphate Transferase WecA. <i>Journal of Bacteriology</i> , 2008, 190, 7141-7146.	2.2	59
43	Substrate Specificity and Membrane Topology of <i>Escherichia coli</i> PgpB, an Undecaprenyl Pyrophosphate Phosphatase. <i>Journal of Biological Chemistry</i> , 2008, 283, 16573-16583.	3.4	71
44	Biochemical Characterization and Physiological Properties of <i>Escherichia coli</i> UDP- N-Acetylmuramate: l-Alanyl- $\beta$ -d-Glutamyl- meso - Diaminopimelate Ligase. <i>Journal of Bacteriology</i> , 2007, 189, 3987-3995.	2.2	47
45	The essential peptidoglycan glycosyltransferase MurG forms a complex with proteins involved in lateral envelope growth as well as with proteins involved in cell division in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2007, 65, 1106-1121.	2.5	147
46	Colicin M Exerts Its Bacteriolytic Effect via Enzymatic Degradation of Undecaprenyl Phosphate-linked Peptidoglycan Precursors. <i>Journal of Biological Chemistry</i> , 2006, 281, 22761-22772.	3.4	106
47	BcrC from <i>Bacillus subtilis</i> Acts as an Undecaprenyl Pyrophosphate Phosphatase in Bacitracin Resistance. <i>Journal of Biological Chemistry</i> , 2005, 280, 28852-28857.	3.4	91
48	Structure and metabolism of peptidoglycan and molecular requirements allowing its detection by the <i>Drosophila</i> innate immune system. <i>Journal of Endotoxin Research</i> , 2005, 11, 105-111.	2.5	47
49	Identification of Multiple Genes Encoding Membrane Proteins with Undecaprenyl Pyrophosphate Phosphatase (UppP) Activity in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 18689-18695.	3.4	147
50	The bacA Gene of <i>Escherichia coli</i> Encodes an Undecaprenyl Pyrophosphate Phosphatase Activity. <i>Journal of Biological Chemistry</i> , 2004, 279, 30106-30113.	3.4	170
51	Peptidoglycan Molecular Requirements Allowing Detection by the <i>Drosophila</i> Immune Deficiency Pathway. <i>Journal of Immunology</i> , 2004, 173, 7339-7348.	0.8	141
52	Purification and Characterization of the Bacterial MraY Translocase Catalyzing the First Membrane Step of Peptidoglycan Biosynthesis. <i>Journal of Biological Chemistry</i> , 2004, 279, 29974-29980.	3.4	145
53	The <i>Drosophila</i> immune system detects bacteria through specific peptidoglycan recognition. <i>Nature Immunology</i> , 2003, 4, 478-484.	14.5	533
54	Functional and Biochemical Analysis of <i>Chlamydia trachomatis</i> MurC, an Enzyme Displaying UDP- N-Acetylmuramate:Amino Acid Ligase Activity. <i>Journal of Bacteriology</i> , 2003, 185, 6507-6512.	2.2	46

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55	Probing the Role of Cysteine Residues in Glucosamine-1-Phosphate Acetyltransferase Activity of the Bifunctional GlmU Protein from <i>Escherichia coli</i> : Site-Directed Mutagenesis and Characterization of the Mutant Enzymes. <i>Journal of Bacteriology</i> , 1998, 180, 4799-4803.	2.2	72
56	Characterization of the Essential Gene glmM Encoding Phosphoglucosamine Mutase in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 1996, 271, 32-39.	3.4	166
57	Synthesis of Analogues of Precursors of Bacterial Peptidoglycan. , 1983, , 311-314.		6