

Jean-Emmanuel Hugonnet

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

53
papers

2,564
citations

28
h-index

50
g-index

57
ext. papers

3,017
ext. citations

6.4
avg, IF

4.56
L-index

#	Paper	IF	Citations
53	Role of endopeptidases in peptidoglycan synthesis mediated by alternative cross-linking enzymes in <i>Escherichia coli</i> . <i>EMBO Journal</i> , 2021 , 40, e108126	13	3
52	Activity-Based Protein Profiling Reveals That Cephalosporins Selectively Active on Non-replicating Bind Multiple Protein Families and Spare Peptidoglycan Transpeptidases. <i>Frontiers in Microbiology</i> , 2020 , 11, 1248	5.7	5
51	Tryptophan Fluorescence Quenching in β -Lactam-Interacting Proteins Is Modulated by the Structure of Intermediates and Final Products of the Acylation Reaction. <i>ACS Infectious Diseases</i> , 2019 , 5, 1169-1176	5.5	5
50	Structural insight into YcbB-mediated beta-lactam resistance in <i>Escherichia coli</i> . <i>Nature Communications</i> , 2019 , 10, 1849	17.4	11
49	Negative Impact of Carbapenem Methylation on the Reactivity of β -Lactams for Cysteine Acylation as Revealed by Quantum Calculations and Kinetic Analyses. <i>Antimicrobial Agents and Chemotherapy</i> , 2019 , 63,	5.9	5
48	Synthesis of Avibactam Derivatives and Activity on β -Lactamases and Peptidoglycan Biosynthesis Enzymes of <i>Mycobacteria</i> . <i>Chemistry - A European Journal</i> , 2018 , 24, 8081-8086	4.8	22
47	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	4.8	20
46	Peptidoglycan Cross-Linking Activity of L,d-Transpeptidases from <i>Clostridium difficile</i> and Inactivation of These Enzymes by β -Lactams. <i>Antimicrobial Agents and Chemotherapy</i> , 2018 , 62,	5.9	11
45	Copper inhibits peptidoglycan LD-transpeptidases suppressing β -lactam resistance due to bypass of penicillin-binding proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 10786-10791	11.5	39
44	Reversible inactivation of a peptidoglycan transpeptidase by a β -lactam antibiotic mediated by β -lactam-ring recyclization in the enzyme active site. <i>Scientific Reports</i> , 2017 , 7, 9136	4.9	16
43	Inhibition of β -lactamases of <i>mycobacteria</i> by avibactam and clavulanate. <i>Journal of Antimicrobial Chemotherapy</i> , 2017 , 72, 1081-1088	5.1	30
42	Routes of Synthesis of Carbapenems for Optimizing Both the Inactivation of L,D-Transpeptidase LdtMt1 of <i>Mycobacterium tuberculosis</i> and the Stability toward Hydrolysis by β -Lactamase BlaC. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 3427-38	8.3	15
41	Factors essential for L,D-transpeptidase-mediated peptidoglycan cross-linking and β -lactam resistance in. <i>ELife</i> , 2016 , 5,	8.9	90
40	Rapid cytolysis of <i>Mycobacterium tuberculosis</i> by faropenem, an orally bioavailable β -lactam antibiotic. <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 1308-19	5.9	75
39	Mutation landscape of acquired cross-resistance to glycopeptide and β -lactam antibiotics in <i>Enterococcus faecium</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 5306-15	5.9	6
38	Hydrolysis of clavulanate by <i>Mycobacterium tuberculosis</i> β -lactamase BlaC harboring a canonical SDN motif. <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 5714-20	5.9	21
37	Combinations of β -lactam Antibiotics Currently in Clinical Trials Are Efficacious in a DHP-I-Deficient Mouse Model of Tuberculosis Infection. <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 4997-9	5.9	31

36	Acyl acceptor recognition by <i>Enterococcus faecium</i> L,D-transpeptidase Ldtfm. <i>Molecular Microbiology</i> , 2015 , 98, 90-100	4.1	6
35	Methicillin-Susceptible, Vancomycin-Resistant <i>Staphylococcus aureus</i> , Brazil. <i>Emerging Infectious Diseases</i> , 2015 , 21, 1844-8	10.2	28
34	Impact of β -lactamase inhibition on the activity of ceftaroline against <i>Mycobacterium tuberculosis</i> and <i>Mycobacterium abscessus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 2938-41	5.9	26
33	β -lactamase inhibition by avibactam in <i>Mycobacterium abscessus</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2015 , 70, 1051-8	5.1	88
32	Characterization of broad-spectrum <i>Mycobacterium abscessus</i> class A β -lactamase. <i>Journal of Antimicrobial Chemotherapy</i> , 2014 , 69, 691-6	5.1	63
31	Peptidoglycan cross-linking in glycopeptide-resistant Actinomycetales. <i>Antimicrobial Agents and Chemotherapy</i> , 2014 , 58, 1749-56	5.9	22
30	Chemical shift perturbations induced by the acylation of <i>Enterococcus faecium</i> L,D-transpeptidase catalytic cysteine with ertapenem. <i>Biomolecular NMR Assignments</i> , 2014 , 8, 339-43	0.7	2
29	Discovery of the first inhibitors of bacterial enzyme D-aspartate ligase from <i>Enterococcus faecium</i> (Aslfm). <i>European Journal of Medicinal Chemistry</i> , 2013 , 67, 208-20	6.8	13
28	Structure of <i>Enterococcus faecium</i> L,D-transpeptidase acylated by ertapenem provides insight into the inactivation mechanism. <i>ACS Chemical Biology</i> , 2013 , 8, 1140-6	4.9	30
27	L,D-Transpeptidase (<i>Enterococcus</i>) 2013 , 2465-2472		
26	In vitro cross-linking of <i>Mycobacterium tuberculosis</i> peptidoglycan by L,D-transpeptidases and inactivation of these enzymes by carbapenems. <i>Antimicrobial Agents and Chemotherapy</i> , 2013 , 57, 5940-5	5.9	91
25	Kinetic features of L,D-transpeptidase inactivation critical for β -lactam antibacterial activity. <i>PLoS ONE</i> , 2013 , 8, e67831	3.7	42
24	Dynamics induced by β -lactam antibiotics in the active site of <i>Bacillus subtilis</i> L,D-transpeptidase. <i>Structure</i> , 2012 , 20, 850-61	5.2	25
23	Backbone and side-chain ^1H , ^{15}N and ^{13}C assignment of apo- and imipenem-acylated L,D-transpeptidase from <i>Bacillus subtilis</i> . <i>Biomolecular NMR Assignments</i> , 2012 , 6, 205-8	0.7	3
22	Kinetic analysis of <i>Enterococcus faecium</i> L,D-transpeptidase inactivation by carbapenems. <i>Antimicrobial Agents and Chemotherapy</i> , 2012 , 56, 3409-12	5.9	22
21	Inactivation of <i>Mycobacterium tuberculosis</i> L,D-transpeptidase LdtMtI by carbapenems and cephalosporins. <i>Antimicrobial Agents and Chemotherapy</i> , 2012 , 56, 4189-95	5.9	103
20	Fighting resistant tuberculosis with old compounds: the carbapenem paradigm. <i>Clinical Microbiology and Infection</i> , 2011 , 17, 1755-6	9.5	18
19	Inactivation kinetics of a new target of beta-lactam antibiotics. <i>Journal of Biological Chemistry</i> , 2011 , 286, 22777-84	5.4	42

18	Characterization of CrgA, a new partner of the Mycobacterium tuberculosis peptidoglycan polymerization complexes. <i>Journal of Bacteriology</i> , 2011 , 193, 3246-56	3-5	53
17	Activation of the L,D-transpeptidation peptidoglycan cross-linking pathway by a metallo-D,D-carboxypeptidase in Enterococcus faecium. <i>Molecular Microbiology</i> , 2010 , 75, 874-85	4-1	35
16	Meropenem-clavulanate is effective against extensively drug-resistant Mycobacterium tuberculosis. <i>Science</i> , 2009 , 323, 1215-8	33-3	390
15	Structure of the covalent adduct formed between Mycobacterium tuberculosis beta-lactamase and clavulanate. <i>Biochemistry</i> , 2008 , 47, 5312-6	3-2	49
14	Irreversible inhibition of the Mycobacterium tuberculosis beta-lactamase by clavulanate. <i>Biochemistry</i> , 2007 , 46, 11998-2004	3-2	168
13	Specificity of L,D-transpeptidases from gram-positive bacteria producing different peptidoglycan chemotypes. <i>Journal of Biological Chemistry</i> , 2007 , 282, 13151-9	5-4	66
12	Unexpected inhibition of peptidoglycan LD-transpeptidase from Enterococcus faecium by the beta-lactam imipenem. <i>Journal of Biological Chemistry</i> , 2007 , 282, 30414-22	5-4	97
11	Idiosyncratic features in tRNAs participating in bacterial cell wall synthesis. <i>Nucleic Acids Research</i> , 2007 , 35, 6870-83	20-1	40
10	Aslfm, the D-aspartate ligase responsible for the addition of D-aspartic acid onto the peptidoglycan precursor of Enterococcus faecium. <i>Journal of Biological Chemistry</i> , 2006 , 281, 11586-94	5-4	68
9	Novel mechanism of resistance to glycopeptide antibiotics in Enterococcus faecium. <i>Journal of Biological Chemistry</i> , 2006 , 281, 32254-62	5-4	32
8	Crystal structure of a novel beta-lactam-insensitive peptidoglycan transpeptidase. <i>Journal of Molecular Biology</i> , 2006 , 359, 533-8	6-5	95
7	Cloning, purification, crystallization and preliminary crystallographic analysis of a penicillin-binding protein homologue from Pyrococcus abyssi. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005 , 61, 1006-8		1
6	A novel peptidoglycan cross-linking enzyme for a beta-lactam-resistant transpeptidation pathway. <i>Journal of Biological Chemistry</i> , 2005 , 280, 38146-52	5-4	152
5	Role of class A penicillin-binding proteins in PBP5-mediated beta-lactam resistance in Enterococcus faecalis. <i>Journal of Bacteriology</i> , 2004 , 186, 1221-8	3-5	82
4	Synthesis of mosaic peptidoglycan cross-bridges by hybrid peptidoglycan assembly pathways in gram-positive bacteria. <i>Journal of Biological Chemistry</i> , 2004 , 279, 41546-56	5-4	66
3	The CroRS two-component regulatory system is required for intrinsic beta-lactam resistance in Enterococcus faecalis. <i>Journal of Bacteriology</i> , 2003 , 185, 7184-92	3-5	77
2	Crystallization and preliminary X-ray analysis of Weissella viridescens FemX UDP-MurNAc-pentapeptide:l-alanine ligase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003 , 59, 1055-7		2
1	Synthesis of the L-alanyl-L-alanine cross-bridge of Enterococcus faecalis peptidoglycan. <i>Journal of Biological Chemistry</i> , 2002 , 277, 45935-41	5-4	61

