

Krisztina M Papp-Wallace

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7169964/krisztina-m-papp-wallace-publications-by-year.pdf>
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81 papers	3,687 citations	35 h-index	60 g-index
85 ext. papers	4,439 ext. citations	5.4 avg, IF	5.75 L-index

#	Paper	IF	Citations
81	Structural Characterization of the D179N and D179Y Variants of KPC-2 β -Lactamase: Loop Destabilization as a Mechanism of Resistance to Ceftazidime-Avibactam.. <i>Antimicrobial Agents and Chemotherapy</i> , 2022 , e0241421	5.9	1
80	Different Conformations Revealed by NMR Underlie Resistance to Ceftazidime/Avibactam and Susceptibility to Meropenem and Imipenem among D179Y Variants of KPC β -Lactamase.. <i>Antimicrobial Agents and Chemotherapy</i> , 2022 , e0212421	5.9	1
79	The Class A β -Lactamase Produced by Burkholderia Species Compromises the Potency of Tobipenem against a Panel of Isolates from the United States. <i>Antibiotics</i> , 2022 , 11, 674	4.9	0
78	Staphylococcus aureus Potentiates the Hemolytic Activity of Burkholderia cepacia Complex (Bcc) Bacteria. <i>Current Microbiology</i> , 2021 , 78, 1864-1870	2.4	1
77	Structural and Biochemical Characterization of the Novel CTX-M-151 Extended-Spectrum β -Lactamase and Its Inhibition by Avibactam. <i>Antimicrobial Agents and Chemotherapy</i> , 2021 , 65,	5.9	1
76	Assessing the Potency of β -Lactamase Inhibitors with Diverse Inactivation Mechanisms against the PenA1 Carbapenemase from. <i>ACS Infectious Diseases</i> , 2021 , 7, 826-837	5.5	4
75	Human Pleural Fluid and Human Serum Albumin Modulate the Behavior of a Hypervirulent and Multidrug-Resistant (MDR) Representative Strain. <i>Pathogens</i> , 2021 , 10,	4.5	4
74	Antibacterial Activity and Efficacy of Sulbactam-Durlobactam against Pathogenic Species. <i>Antimicrobial Agents and Chemotherapy</i> , 2021 , 65,	5.9	2
73	Cerebrospinal fluid (CSF) augments metabolism and virulence expression factors in Acinetobacter baumannii. <i>Scientific Reports</i> , 2021 , 11, 4737	4.9	7
72	Structural Characterization of Diazabicyclooctane β -Lactam "Enhancers" in Complex with Penicillin-Binding Proteins PBP2 and PBP3 of Pseudomonas aeruginosa. <i>MBio</i> , 2021 , 12,	7.8	10
71	Interaction of with Human Serum Albumin: Does the Host Determine the Outcome?. <i>Antibiotics</i> , 2021 , 10,	4.9	1
70	Activity of Imipenem-Relebactam against Multidrug- and Extensively Drug-Resistant Burkholderia cepacia Complex and Burkholderia gladioli. <i>Antimicrobial Agents and Chemotherapy</i> , 2021 , 65, e0133221	5.9	3
69	A β -Lactam siderophore antibiotic effective against multidrug-resistant Pseudomonas aeruginosa, Klebsiella pneumoniae, and Acinetobacter spp. <i>European Journal of Medicinal Chemistry</i> , 2021 , 220, 113436	6.8	8
68	Effect of Serum Albumin, a Component of Human Pleural Fluid, on Transcriptional and Phenotypic Changes on Acinetobacter baumannii A118. <i>Current Microbiology</i> , 2021 , 78, 3829-3834	2.4	1
67	Interplay between Meropenem and Human Serum Albumin on Expression of Carbapenem Resistance Genes and Natural Competence in Acinetobacter baumannii. <i>Antimicrobial Agents and Chemotherapy</i> , 2021 , 65, e0101921	5.9	4
66	Structural Insights into Ceftobiprole Inhibition of Pseudomonas aeruginosa Penicillin-Binding Protein 3. <i>Antimicrobial Agents and Chemotherapy</i> , 2020 , 64,	5.9	7
65	A β -Lactam Siderophore Antibiotic Effective against Multidrug-Resistant Gram-Negative Bacilli. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 5990-6002	8.3	10

64	Structures of FOX-4 Cephamycinase in Complex with Transition-State Analog Inhibitors. <i>Biomolecules</i> , 2020 , 10,	5.9	2
63	A Standard Numbering Scheme for Class C β -Lactamases. <i>Antimicrobial Agents and Chemotherapy</i> , 2020 , 64,	5.9	25
62	Resistance to Novel β -Lactam- β -Lactamase Inhibitor Combinations: The "Price of Progress". <i>Infectious Disease Clinics of North America</i> , 2020 , 34, 773-819	6.5	30
61	The latest advances in β -Lactam/ β -Lactamase inhibitor combinations for the treatment of Gram-negative bacterial infections. <i>Expert Opinion on Pharmacotherapy</i> , 2019 , 20, 2169-2184	4	57
60	Structural Analysis of The OXA-48 Carbapenemase Bound to A "Poor" Carbapenem Substrate, Doripenem. <i>Antibiotics</i> , 2019 , 8,	4.9	5
59	Resurrecting Old β -Lactams: Potent Inhibitory Activity of Temocillin against Multidrug-Resistant Species Isolates from the United States. <i>Antimicrobial Agents and Chemotherapy</i> , 2019 , 63,	5.9	6
58	"Switching Partners": Piperacillin-Avibactam Is a Highly Potent Combination against Multidrug-Resistant Complex and Cystic Fibrosis Isolates. <i>Journal of Clinical Microbiology</i> , 2019 , 57,	9.7	12
57	Nacubactam Enhances Meropenem Activity against Carbapenem-Resistant <i>Klebsiella pneumoniae</i> Producing KPC. <i>Antimicrobial Agents and Chemotherapy</i> , 2019 , 63,	5.9	19
56	Ceftazidime-Avibactam in Combination With Fosfomycin: A Novel Therapeutic Strategy Against Multidrug-Resistant <i>Pseudomonas aeruginosa</i> . <i>Journal of Infectious Diseases</i> , 2019 , 220, 666-676	7	27
55	Targeting Multidrug-Resistant spp.: Sulbactam and the Diazabicyclooctenone β -Lactamase Inhibitor ETX2514 as a Novel Therapeutic Agent. <i>MBio</i> , 2019 , 10,	7.8	35
54	Beyond Piperacillin-Tazobactam: Cefepime and AAI101 as a Potent β -Lactam- β -Lactamase Inhibitor Combination. <i>Antimicrobial Agents and Chemotherapy</i> , 2019 , 63,	5.9	44
53	Structural Insights into the Inhibition of the Extended-Spectrum β -Lactamase PER-2 by Avibactam. <i>Antimicrobial Agents and Chemotherapy</i> , 2019 , 63,	5.9	7
52	Population Structure, Molecular Epidemiology, and β -Lactamase Diversity among <i>Stenotrophomonas maltophilia</i> Isolates in the United States. <i>MBio</i> , 2019 , 10,	7.8	26
51	Whole Genome Sequence Analysis of <i>Burkholderia contaminans</i> FFH2055 Strain Reveals the Presence of Putative β -Lactamases. <i>Current Microbiology</i> , 2019 , 76, 485-494	2.4	2
50	687. In vitro Activity of a New Generation Oxypyrazole Antibiotic Against <i>Acinetobacter</i> spp.. <i>Open Forum Infectious Diseases</i> , 2019 , 6, S312-S312	1	78
49	Human pleural fluid triggers global changes in the transcriptional landscape of <i>Acinetobacter baumannii</i> as an adaptive response to stress. <i>Scientific Reports</i> , 2019 , 9, 17251	4.9	17
48	Relebactam Is a Potent Inhibitor of the KPC-2 β -Lactamase and Restores Imipenem Susceptibility in KPC-Producing Enterobacteriaceae. <i>Antimicrobial Agents and Chemotherapy</i> , 2018 , 62,	5.9	51
47	Strategic Approaches to Overcome Resistance against Gram-Negative Pathogens Using β -Lactamase Inhibitors and β -Lactam Enhancers: Activity of Three Novel Diazabicyclooctanes WCK 5153, Zidebactam (WCK 5107), and WCK 4234. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 4067-4086	8.3	77

46	Inactivation of the Pseudomonas-Derived Cephalosporinase-3 (PDC-3) by Relebactam. <i>Antimicrobial Agents and Chemotherapy</i> , 2018 , 62,	5.9	21
45	Characterization of the AmpC β -Lactamase from Burkholderia multivorans. <i>Antimicrobial Agents and Chemotherapy</i> , 2018 , 62,	5.9	10
44	698. Nacubactam Inhibits Class A β -Lactamases. <i>Open Forum Infectious Diseases</i> , 2018 , 5, S251-S252	1	78
43	2385. Ceftazidime-Avibactam in Combination With Fosfomycin: A Novel Therapeutic Strategy Against Multidrug-Resistant Pseudomonas aeruginosa. <i>Open Forum Infectious Diseases</i> , 2018 , 5, S711-S711	1	1
42	Deciphering the Evolution of Cephalosporin Resistance to Ceftolozane-Tazobactam in Pseudomonas aeruginosa. <i>MBio</i> , 2018 , 9,	7.8	42
41	Sequence heterogeneity of the PenA carbapenemase in clinical isolates of Burkholderia multivorans. <i>Diagnostic Microbiology and Infectious Disease</i> , 2018 , 92, 253-258	2.9	8
40	Overcoming an Extremely Drug Resistant (XDR) Pathogen: Avibactam Restores Susceptibility to Ceftazidime for Burkholderia cepacia Complex Isolates from Cystic Fibrosis Patients. <i>ACS Infectious Diseases</i> , 2017 , 3, 502-511	5.5	50
39	Exploring the Landscape of Diazabicyclooctane (DBO) Inhibition: Avibactam Inactivation of PER-2 β -Lactamase. <i>Antimicrobial Agents and Chemotherapy</i> , 2017 , 61,	5.9	11
38	WCK 5107 (Zidebactam) and WCK 5153 Are Novel Inhibitors of PBP2 Showing Potent " β -Lactam Enhancer" Activity against Pseudomonas aeruginosa, Including Multidrug-Resistant Metallo- β -Lactamase-Producing High-Risk Clones. <i>Antimicrobial Agents and Chemotherapy</i> , 2017 ,	5.9	68
37	Carbapenemase-2 (KPC-2), Substitutions at Ambler Position Asp179, and Resistance to Ceftazidime-Avibactam: Unique Antibiotic-Resistant Phenotypes Emerge from β -Lactamase Protein Engineering. <i>MBio</i> , 2017 , 8,	7.8	68
36	Potent β -Lactam Enhancer Activity of Zidebactam and WCK 5153 against Acinetobacter baumannii, Including Carbapenemase-Producing Clinical Isolates. <i>Antimicrobial Agents and Chemotherapy</i> , 2017 , 61,	5.9	50
35	Avibactam Restores the Susceptibility of Clinical Isolates of Stenotrophomonas maltophilia to Aztreonam. <i>Antimicrobial Agents and Chemotherapy</i> , 2017 , 61,	5.9	36
34	Exploring the Role of the β -Loop in the Evolution of Ceftazidime Resistance in the PenA β -Lactamase from Burkholderia multivorans, an Important Cystic Fibrosis Pathogen. <i>Antimicrobial Agents and Chemotherapy</i> , 2017 , 61,	5.9	8
33	Treatment options for infections caused by carbapenem-resistant Enterobacteriaceae: can we apply "precision medicine" to antimicrobial chemotherapy?. <i>Expert Opinion on Pharmacotherapy</i> , 2016 , 17, 761-81	4	108
32	Boronic Acid Transition State Inhibitors Active against KPC and Other Class A β -Lactamases: Structure-Activity Relationships as a Guide to Inhibitor Design. <i>Antimicrobial Agents and Chemotherapy</i> , 2016 , 60, 1751-9	5.9	38
31	Exposing a β -Lactamase "Twist": the Mechanistic Basis for the High Level of Ceftazidime Resistance in the C69F Variant of the Burkholderia pseudomallei PenI β -Lactamase. <i>Antimicrobial Agents and Chemotherapy</i> , 2016 , 60, 777-88	5.9	18
30	New β -Lactamase Inhibitors in the Clinic. <i>Infectious Disease Clinics of North America</i> , 2016 , 30, 441-464	6.5	109
29	Activities of ceftazidime, ceftaroline, and aztreonam alone and combined with avibactam against isogenic Escherichia coli strains expressing selected single β -Lactamases. <i>Diagnostic Microbiology and Infectious Disease</i> , 2015 , 82, 65-9	2.9	37

28	Activity of ceftazidime/avibactam against isogenic strains of Escherichia coli containing KPC and SHV β -lactamases with single amino acid substitutions in the β -loop. <i>Journal of Antimicrobial Chemotherapy</i> , 2015 , 70, 2279-86	5.1	73
27	Unexpected challenges in treating multidrug-resistant Gram-negative bacteria: resistance to ceftazidime-avibactam in archived isolates of Pseudomonas aeruginosa. <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 1020-9	5.9	104
26	Inhibition of Klebsiella β -lactamases (SHV-1 and KPC-2) by Avibactam: A Structural Study. <i>PLoS ONE</i> , 2015 , 10, e0136813	3.7	47
25	Avibactam and inhibitor-resistant SHV β -lactamases. <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 3700-9	5.9	56
24	Variants of β -lactamase KPC-2 that are resistant to inhibition by avibactam. <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 3710-7	5.9	72
23	New β -lactamase inhibitors: a therapeutic renaissance in an MDR world. <i>Antimicrobial Agents and Chemotherapy</i> , 2014 , 58, 1835-46	5.9	227
22	A kinetic analysis of the inhibition of FOX-4 β -lactamase, a plasmid-mediated AmpC cephalosporinase, by monocyclic β -lactams and carbapenems. <i>Journal of Antimicrobial Chemotherapy</i> , 2014 , 69, 682-90	5.1	16
21	Reclaiming the efficacy of β -lactam- β -lactamase inhibitor combinations: avibactam restores the susceptibility of CMY-2-producing Escherichia coli to ceftazidime. <i>Antimicrobial Agents and Chemotherapy</i> , 2014 , 58, 4290-7	5.9	32
20	Non-phenotypic tests to detect and characterize antibiotic resistance mechanisms in Enterobacteriaceae. <i>Diagnostic Microbiology and Infectious Disease</i> , 2013 , 77, 179-94	2.9	61
19	Design and exploration of novel boronic acid inhibitors reveals important interactions with a clavulanic acid-resistant sulfhydryl-variable (SHV) β -lactamase. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 1084-97	8.3	35
18	Insights into β -lactamases from Burkholderia species, two phylogenetically related yet distinct resistance determinants. <i>Journal of Biological Chemistry</i> , 2013 , 288, 19090-102	5.4	40
17	Reply to Fr��: Covalent trapping and bacterial resistance to ceftazidime. <i>Journal of Biological Chemistry</i> , 2013 , 288, 26968	5.4	1
16	Novel β -lactamase inhibitors: a therapeutic hope against the scourge of multidrug resistance. <i>Frontiers in Microbiology</i> , 2013 , 4, 392	5.7	46
15	Inactivation of a class A and a class C β -lactamase by 6-(hydroxymethyl)penicillanic acid sulfone. <i>Biochemical Pharmacology</i> , 2012 , 83, 462-71	6	15
14	Understanding the molecular determinants of substrate and inhibitor specificities in the Carbapenemase KPC-2: exploring the roles of Arg220 and Glu276. <i>Antimicrobial Agents and Chemotherapy</i> , 2012 , 56, 4428-38	5.9	37
13	Exploring the role of a conserved class A residue in the β -loop of KPC-2 β -lactamase: a mechanism for ceftazidime hydrolysis. <i>Journal of Biological Chemistry</i> , 2012 , 287, 31783-93	5.4	57
12	Crystal structures of KPC-2 β -lactamase in complex with 3-nitrophenyl boronic acid and the penam sulfone PSR-3-226. <i>Antimicrobial Agents and Chemotherapy</i> , 2012 , 56, 2713-8	5.9	33
11	Early insights into the interactions of different β -lactam antibiotics and β -lactamase inhibitors against soluble forms of Acinetobacter baumannii PBP1a and Acinetobacter sp. PBP3. <i>Antimicrobial Agents and Chemotherapy</i> , 2012 , 56, 5687-92	5.9	23

10	Carbapenems: past, present, and future. <i>Antimicrobial Agents and Chemotherapy</i> , 2011 , 55, 4943-60	5.9	752
9	Molecular Investigations of PenA-mediated β -lactam Resistance in <i>Burkholderia pseudomallei</i> . <i>Frontiers in Microbiology</i> , 2011 , 2, 139	5.7	58
8	Exploring the inhibition of CTX-M-9 by beta-lactamase inhibitors and carbapenems. <i>Antimicrobial Agents and Chemotherapy</i> , 2011 , 55, 3465-75	5.9	27
7	Inhibitor resistance in the KPC-2 beta-lactamase, a preeminent property of this class A beta-lactamase. <i>Antimicrobial Agents and Chemotherapy</i> , 2010 , 54, 890-7	5.9	132
6	Substrate selectivity and a novel role in inhibitor discrimination by residue 237 in the KPC-2 beta-lactamase. <i>Antimicrobial Agents and Chemotherapy</i> , 2010 , 54, 2867-77	5.9	44
5	Elucidating the role of Trp105 in the KPC-2 β -lactamase. <i>Protein Science</i> , 2010 , 19, 1714-27	6.3	44
4	Regulation of CorA Mg ²⁺ channel function affects the virulence of <i>Salmonella enterica</i> serovar typhimurium. <i>Journal of Bacteriology</i> , 2008 , 190, 6509-16	3.5	31
3	The CorA Mg ²⁺ channel is required for the virulence of <i>Salmonella enterica</i> serovar typhimurium. <i>Journal of Bacteriology</i> , 2008 , 190, 6517-23	3.5	34
2	Bacterial homologs of eukaryotic membrane proteins: the 2-TM-GxN family of Mg(2+) transporters. <i>Molecular Membrane Biology</i> , 2007 , 24, 351-6	3.4	20
1	Manganese transport and the role of manganese in virulence. <i>Annual Review of Microbiology</i> , 2006 , 60, 187-209	17.5	222