

Mariana Gomes de Pinho

List of Publications by Year in descending order

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70
papers

5,411
citations

94269

37
h-index

91712

69
g-index

77
all docs

77
docs citations

77
times ranked

4755
citing authors

#	ARTICLE	IF	CITATIONS
1	Bacterial Cell Wall Synthesis: New Insights from Localization Studies. <i>Microbiology and Molecular Biology Reviews</i> , 2005, 69, 585-607.	2.9	499
2	An acquired and a native penicillin-binding protein cooperate in building the cell wall of drug-resistant staphylococci. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 10886-10891.	3.3	312
3	How to get (a)round: mechanisms controlling growth and division of coccoid bacteria. <i>Nature Reviews Microbiology</i> , 2013, 11, 601-614.	13.6	231
4	Teichoic acids are temporal and spatial regulators of peptidoglycan cross-linking in <i>Staphylococcus aureus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18991-18996.	3.3	225
5	Dispersed mode of <i>Staphylococcus aureus</i> cell wall synthesis in the absence of the division machinery. <i>Molecular Microbiology</i> , 2003, 50, 871-881.	1.2	215
6	Cell shape dynamics during the staphylococcal cell cycle. <i>Nature Communications</i> , 2015, 6, 8055.	5.8	208
7	Restoring Methicillin-Resistant <i>Staphylococcus aureus</i> Susceptibility to β -Lactam Antibiotics. <i>Science Translational Medicine</i> , 2012, 4, 126ra35.	5.8	205
8	Complementation of the Essential Peptidoglycan Transpeptidase Function of Penicillin-Binding Protein 2 (PBP2) by the Drug Resistance Protein PBP2A in <i>Staphylococcus aureus</i> . <i>Journal of Bacteriology</i> , 2001, 183, 6525-6531.	1.0	194
9	Inhibition of WTA Synthesis Blocks the Cooperative Action of PBPs and Sensitizes MRSA to β -Lactams. <i>ACS Chemical Biology</i> , 2013, 8, 226-233.	1.6	184
10	The different shapes of cocci. <i>FEMS Microbiology Reviews</i> , 2008, 32, 345-360.	3.9	164
11	Peptidoglycan synthesis drives an FtsZ-treadmilling-independent step of cytokinesis. <i>Nature</i> , 2018, 554, 528-532.	13.7	149
12	Recruitment of penicillin-binding protein PBP2 to the division site of <i>Staphylococcus aureus</i> is dependent on its transpeptidation substrates. <i>Molecular Microbiology</i> , 2004, 55, 799-807.	1.2	148
13	Antibiotic Resistance As a Stress Response: Complete Sequencing of a Large Number of Chromosomal Loci in <i>Staphylococcus aureus</i> Strain COL That Impact on the Expression of Resistance to Methicillin. <i>Microbial Drug Resistance</i> , 1999, 5, 163-175.	0.9	147
14	<i>Staphylococcus aureus</i> PBP4 Is Essential for β -Lactam Resistance in Community-Acquired Methicillin-Resistant Strains. <i>Antimicrobial Agents and Chemotherapy</i> , 2008, 52, 3955-3966.	1.4	146
15	Inactivated pbp4 in Highly Glycopeptide-resistant Laboratory Mutants of <i>Staphylococcus aureus</i> . <i>Journal of Biological Chemistry</i> , 1999, 274, 18942-18946.	1.6	119
16	Role of PBP1 in Cell Division of <i>Staphylococcus aureus</i> . <i>Journal of Bacteriology</i> , 2007, 189, 3525-3531.	1.0	100
17	Reduction of the Peptidoglycan Crosslinking Causes a Decrease in Stiffness of the <i>Staphylococcus aureus</i> Cell Envelope. <i>Biophysical Journal</i> , 2014, 107, 1082-1089.	0.2	83
18	<i>Staphylococcus aureus</i> Survives with a Minimal Peptidoglycan Synthesis Machine but Sacrifices Virulence and Antibiotic Resistance. <i>PLoS Pathogens</i> , 2015, 11, e1004891.	2.1	82

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19	Cloning, Characterization, and Inactivation of the Gene <i>pbpC</i> , Encoding Penicillin-Binding Protein 3 of <i>Staphylococcus aureus</i> . <i>Journal of Bacteriology</i> , 2000, 182, 1074-1079.	1.0	78
20	SEDSâ€“bBPB pairs direct lateral and septal peptidoglycan synthesis in <i>Staphylococcus aureus</i> . <i>Nature Microbiology</i> , 2019, 4, 1368-1377.	5.9	77
21	Murgocil is a Highly Bioactive Staphylococcal-Specific Inhibitor of the Peptidoglycan Glycosyltransferase Enzyme MurG. <i>ACS Chemical Biology</i> , 2013, 8, 2442-2451.	1.6	75
22	Fluorescence Ratio Imaging Microscopy Shows Decreased Access of Vancomycin to Cell Wall Synthetic Sites in Vancomycin-Resistant <i>Staphylococcus aureus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2007, 51, 3627-3633.	1.4	74
23	Auxiliary factors: a chink in the armor of MRSA resistance to β -lactam antibiotics. <i>Current Opinion in Microbiology</i> , 2013, 16, 538-548.	2.3	70
24	Effect of Oxygen on Glucose Metabolism: Utilization of Lactate in <i>Staphylococcus Aureus</i> as Revealed by In Vivo NMR Studies. <i>PLoS ONE</i> , 2013, 8, e58277.	1.1	64
25	Absence of nucleoid occlusion effector Noc impairs formation of orthogonal FtsZ rings during <i>Staphylococcus aureus</i> cell division. <i>Molecular Microbiology</i> , 2011, 80, 1366-1380.	1.2	61
26	The <i>Staphylococcus aureus</i> Chaperone PrsA Is a New Auxiliary Factor of Oxacillin Resistance Affecting Penicillin-Binding Protein 2A. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 1656-1666.	1.4	60
27	Insertion of Epicatechin Gallate into the Cytoplasmic Membrane of Methicillin-resistant <i>Staphylococcus aureus</i> Disrupts Penicillin-binding Protein (PBP) 2a-mediated β -Lactam Resistance by Delocalizing PBP2. <i>Journal of Biological Chemistry</i> , 2010, 285, 24055-24065.	1.6	59
28	Evidence for a dual role of PBP1 in the cell division and cell separation of <i>Staphylococcus aureus</i> . <i>Molecular Microbiology</i> , 2009, 72, 895-904.	1.2	58
29	EzrA Contributes to the Regulation of Cell Size in <i>Staphylococcus aureus</i> . <i>PLoS ONE</i> , 2011, 6, e27542.	1.1	58
30	Reassessment of the distinctive geometry of <i>Staphylococcus aureus</i> cell division. <i>Nature Communications</i> , 2020, 11, 4097.	5.8	58
31	Characterization of the <i>murMN</i> Operon Involved in the Synthesis of Branched Peptidoglycan Peptides in <i>Streptococcus pneumoniae</i> . <i>Journal of Biological Chemistry</i> , 2000, 275, 27768-27774.	1.6	57
32	Cocrystal Structures of Diaminopimelate Decarboxylase. <i>Structure</i> , 2002, 10, 1499-1508.	1.6	57
33	AdivIVAnull mutant of <i>Staphylococcus aureus</i> undergoes normal cell division. <i>FEMS Microbiology Letters</i> , 2004, 240, 145-149.	0.7	56
34	Differential localization of <i>LTA</i> synthesis proteins and their interaction with the cell division machinery in <i>Staphylococcus aureus</i> . <i>Molecular Microbiology</i> , 2014, 92, 273-286.	1.2	55
35	The ClpXP protease is dispensable for degradation of unfolded proteins in <i>Staphylococcus aureus</i> . <i>Scientific Reports</i> , 2017, 7, 11739.	1.6	53
36	Monofunctional Transglycosylases Are Not Essential for <i>Staphylococcus aureus</i> Cell Wall Synthesis. <i>Journal of Bacteriology</i> , 2011, 193, 2549-2556.	1.0	51

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37	Inactivation of the <i>SauI</i> Type I Restriction-Modification System Is Not Sufficient To Generate <i>Staphylococcus aureus</i> Strains Capable of Efficiently Accepting Foreign DNA. <i>Applied and Environmental Microbiology</i> , 2009, 75, 3034-3038.	1.4	46
38	The SpoIIQ-SpoIIAH complex of <i>Clostridium difficile</i> controls forespore engulfment and late stages of gene expression and spore morphogenesis. <i>Molecular Microbiology</i> , 2016, 100, 204-228.	1.2	46
39	<i>Staphylococcus aureus</i> cell growth and division are regulated by an amidase that trims peptides from uncrosslinked peptidoglycan. <i>Nature Microbiology</i> , 2020, 5, 291-303.	5.9	44
40	Fluorescent Reporters for Studies of Cellular Localization of Proteins in <i>Staphylococcus aureus</i> . <i>Applied and Environmental Microbiology</i> , 2010, 76, 4346-4353.	1.4	40
41	Transcriptional Analysis of the <i>Staphylococcus aureus</i> Penicillin Binding Protein 2 Gene. <i>Journal of Bacteriology</i> , 1998, 180, 6077-6081.	1.0	40
42	Massive Reduction in Methicillin Resistance by Transposon Inactivation of the Normal PBP2 in a Methicillin-Resistant Strain of <i>Staphylococcus aureus</i> . <i>Microbial Drug Resistance</i> , 1997, 3, 409-413.	0.9	39
43	The pentaglycine bridges of <i>Staphylococcus aureus</i> peptidoglycan are essential for cell integrity. <i>Scientific Reports</i> , 2019, 9, 5010.	1.6	38
44	New Role of the Disulfide Stress Effector YjbH in β -Lactam Susceptibility of <i>Staphylococcus aureus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 5452-5458.	1.4	35
45	Chemical Genetic Analysis and Functional Characterization of Staphylococcal Wall Teichoic Acid 2-Epimerases Reveals Unconventional Antibiotic Drug Targets. <i>PLoS Pathogens</i> , 2016, 12, e1005585.	2.1	35
46	Synergy between Ursolic and Oleanolic Acids from <i>Vitellaria paradoxa</i> Leaf Extract and β -Lactams against Methicillin-Resistant <i>Staphylococcus aureus</i> : In Vitro and In Vivo Activity and Underlying Mechanisms. <i>Molecules</i> , 2017, 22, 2245.	1.7	34
47	An Activity-Based Probe for Studying Crosslinking in Live Bacteria. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10492-10496.	7.2	33
48	Oxazoline-Based Antimicrobial Oligomers: Synthesis by CROP Using Supercritical CO ₂ . <i>Macromolecular Bioscience</i> , 2011, 11, 1128-1137.	2.1	32
49	Bacterial autolysins trim cell surface peptidoglycan to prevent detection by the <i>Drosophila</i> innate immune system. <i>ELife</i> , 2014, 3, e02277.	2.8	32
50	The ClpX chaperone controls autolytic splitting of <i>Staphylococcus aureus</i> daughter cells, but is bypassed by β -lactam antibiotics or inhibitors of WTA biosynthesis. <i>PLoS Pathogens</i> , 2019, 15, e1008044.	2.1	32
51	DeepBacs for multi-task bacterial image analysis using open-source deep learning approaches. <i>Communications Biology</i> , 2022, 5, .	2.0	30
52	A comparative genomics approach for identifying host-range determinants in <i>Streptococcus thermophilus</i> bacteriophages. <i>Scientific Reports</i> , 2019, 9, 7991.	1.6	26
53	Blue emission of carbamic acid oligooxazoline biotags. <i>Materials Letters</i> , 2012, 81, 205-208.	1.3	24
54	Antimicrobial Contact-Active Oligo(2-oxazoline)s-Grafted Surfaces for Fast Water Disinfection at the Point-of-Use. <i>Biomacromolecules</i> , 2015, 16, 3904-3915.	2.6	24

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55	The Holliday junction resolvase RecU is required for chromosome segregation and DNA damage repair in <i>Staphylococcus aureus</i> . <i>BMC Microbiology</i> , 2013, 13, 18.	1.3	23
56	Characterization of a Novel Small Molecule That Potentiates $\hat{1}^2$ -Lactam Activity against Gram-Positive and Gram-Negative Pathogens. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 1876-1885.	1.4	23
57	FtsZ-Dependent Elongation of a Coccoid Bacterium. <i>MBio</i> , 2016, 7, .	1.8	21
58	Role of SCCmec type in resistance to the synergistic activity of oxacillin and ceftioxin in MRSA. <i>Scientific Reports</i> , 2017, 7, 6154.	1.6	21
59	MreC and MreD Proteins Are Not Required for Growth of <i>Staphylococcus aureus</i> . <i>PLoS ONE</i> , 2015, 10, e0140523.	1.1	21
60	<i>Staphylococcus aureus</i> requires at least one <i>SpoIII</i> protein for correct chromosome segregation. <i>Molecular Microbiology</i> , 2017, 103, 504-517.	1.2	19
61	PBP4 activity and its overexpression are necessary for PBP4-mediated high-level $\hat{1}^2$ -lactam resistance. <i>Journal of Antimicrobial Chemotherapy</i> , 2018, 73, 1177-1180.	1.3	19
62	Analysis of Cell Wall Teichoic Acids in <i>Staphylococcus aureus</i> . <i>Methods in Molecular Biology</i> , 2016, 1440, 201-213.	0.4	17
63	BPEI-Induced Delocalization of PBP4 Potentiates $\hat{1}^2$ -Lactams against MRSA. <i>Biochemistry</i> , 2019, 58, 3813-3822.	1.2	17
64	Anti-biofouling 3D porous systems: the blend effect of oxazoline-based oligomers on chitosan scaffolds. <i>Biofouling</i> , 2013, 29, 273-282.	0.8	14
65	eHook: A tool for automated image analysis of spherical bacteria based on cell cycle progression. <i>Biological Imaging</i> , 2021, 1, e3.	1.0	11
66	Transcriptional Analysis of the <i>Staphylococcus aureus</i> Penicillin Binding Protein 2 Gene. <i>Journal of Bacteriology</i> , 1998, 180, 6077-6081.	1.0	10
67	Revisiting the Role of VraTSR in <i>Staphylococcus aureus</i> Response to Cell Wall-Targeting Antibiotics. <i>Journal of Bacteriology</i> , 2022, 204, .	1.0	9
68	A quinolinol-based small molecule with anti-MRSA activity that targets bacterial membrane and promotes fermentative metabolism. <i>Journal of Antibiotics</i> , 2017, 70, 1009-1019.	1.0	7
69	Synthetic antimicrobial peptides as enhancers of the bacteriolytic action of staphylococcal phage endolysins. <i>Scientific Reports</i> , 2022, 12, 1245.	1.6	6
70	The <i>Staphylococcus aureus</i> Membrane Protein SA2056 Interacts with Peptidoglycan Synthesis Enzymes. <i>Antibiotics</i> , 2013, 2, 11-27.	1.5	1