

Juan A Ayala

List of Publications by Year in descending order

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107
papers

5,573
citations

109321

35
h-index

85541

71
g-index

108
all docs

108
docs citations

108
times ranked

5379
citing authors

#	ARTICLE	IF	CITATIONS
1	The penicillin-binding proteins: structure and role in peptidoglycan biosynthesis. <i>FEMS Microbiology Reviews</i> , 2008, 32, 234-258.	8.6	1,063
2	CTX-M: changing the face of ESBLs in Europe. <i>Journal of Antimicrobial Chemotherapy</i> , 2006, 59, 165-174.	3.0	756
3	Morphogenesis of rod-shaped sacculi. <i>FEMS Microbiology Reviews</i> , 2008, 32, 321-344.	8.6	270
4	Relationship between beta-lactamase production, outer membrane protein and penicillin-binding protein profiles on the activity of carbapenems against clinical isolates of <i>Acinetobacter baumannii</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2003, 51, 565-574.	3.0	199
5	The catalytic, glycosyl transferase and acyl transferase modules of the cell wall peptidoglycan-polymerizing penicillin-binding protein 1b of <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 1999, 34, 350-364.	2.5	169
6	Membrane intermediates in the peptidoglycan metabolism of <i>Escherichia coli</i> : possible roles of PBP 1b and PBP 3. <i>Journal of Bacteriology</i> , 1992, 174, 3549-3557.	2.2	151
7	Chromosome-Encoded CTX-M-3 from <i>Kluyvera ascorbata</i> : a Possible Origin of Plasmid-Borne CTX-M-1-Derived Cefotaximases. <i>Antimicrobial Agents and Chemotherapy</i> , 2004, 48, 4895-4897.	3.2	129
8	Genetic Dissection of the Type VI Secretion System in <i>Acinetobacter</i> and Identification of a Novel Peptidoglycan Hydrolase, TagX, Required for Its Biogenesis. <i>MBio</i> , 2016, 7, .	4.1	110
9	Interaction of FtsA and PBP3 proteins in the <i>Escherichia coli</i> septum. <i>Journal of Bacteriology</i> , 1986, 166, 985-992.	2.2	94
10	Unstable <i>Escherichia coli</i> L Forms Revisited: Growth Requires Peptidoglycan Synthesis. <i>Journal of Bacteriology</i> , 2007, 189, 6512-6520.	2.2	91
11	Biological Cost of AmpC Production for <i>Salmonella enterica</i> Serotype Typhimurium. <i>Antimicrobial Agents and Chemotherapy</i> , 2000, 44, 3137-3143.	3.2	90
12	Novel Class 1 Integron (InS21) Carrying bla CTX-M-2 in <i>Salmonella enterica</i> Serovar Infantis. <i>Antimicrobial Agents and Chemotherapy</i> , 2002, 46, 2257-2261.	3.2	88
13	dacD, an <i>Escherichia coli</i> gene encoding a novel penicillin-binding protein (PBP6b) with DD-carboxypeptidase activity. <i>Journal of Bacteriology</i> , 1996, 178, 7106-7111.	2.2	81
14	The Cpx Envelope Stress Response Modifies Peptidoglycan Cross-Linking via the l,d-Transpeptidase LdtD and the Novel Protein YgaU. <i>Journal of Bacteriology</i> , 2015, 197, 603-614.	2.2	78
15	Regulation of transcription of cell division genes in the <i>Escherichia coli</i> dcw cluster. <i>Cellular and Molecular Life Sciences</i> , 1998, 54, 317-324.	5.4	77
16	Role of <i>Pseudomonas aeruginosa</i> Low-Molecular-Mass Penicillin-Binding Proteins in AmpC Expression, β -Lactam Resistance, and Peptidoglycan Structure. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 3925-3934.	3.2	75
17	Identification and discrimination of bacterial strains by laser induced breakdown spectroscopy and neural networks. <i>Talanta</i> , 2011, 84, 730-737.	5.5	66
18	Organization of the murE-murG region of <i>Escherichia coli</i> : identification of the murD gene encoding the D-glutamic-acid-adding enzyme. <i>Journal of Bacteriology</i> , 1989, 171, 6126-6134.	2.2	61

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19	CTX-M-12 β -Lactamase in a <i>Klebsiella pneumoniae</i> Clinical Isolate in Colombia. <i>Antimicrobial Agents and Chemotherapy</i> , 2004, 48, 629-631.	3.2	57
20	Rapid identification and discrimination of bacterial strains by laser induced breakdown spectroscopy and neural networks. <i>Talanta</i> , 2014, 121, 65-70.	5.5	57
21	Protein determinants of dissemination and host specificity of metallo- β -lactamases. <i>Nature Communications</i> , 2019, 10, 3617.	12.8	56
22	Enteropathogenic <i>Escherichia coli</i> Strains Carrying Genes Encoding the PER-2 and TEM-116 Extended-Spectrum β -Lactamases Isolated from Children with Diarrhea in Uruguay. <i>Journal of Clinical Microbiology</i> , 2005, 43, 2940-2943.	3.9	54
23	Extended-spectrum β -lactamases and plasmid-mediated quinolone resistance in enterobacterial clinical isolates in the paediatric hospital of Uruguay. <i>Journal of Antimicrobial Chemotherapy</i> , 2011, 66, 1725-1729.	3.0	53
24	Regulation of AmpC-Driven β -Lactam Resistance in <i>Pseudomonas aeruginosa</i> : Different Pathways, Different Signaling. <i>MSystems</i> , 2019, 4, .	3.8	53
25	AmpH, a Bifunctional β -Endopeptidase and β -Carboxypeptidase of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2011, 193, 6887-6894.	2.2	52
26	Chapter 5 Molecular biology of bacterial septation. <i>New Comprehensive Biochemistry</i> , 1994, 27, 73-101.	0.1	51
27	The non-penicillin-binding module of the tripartite penicillin-binding protein 3 of <i>Escherichia coli</i> is required for folding and/or stability of the penicillin-binding module and the membrane-anchoring module confers cell septation activity on the folded structure. <i>Journal of Bacteriology</i> , 1996, 178, 5402-5409.	2.2	50
28	Induction of β -lactamase production in <i>Aeromonas hydrophila</i> is responsive to β -lactam-mediated changes in peptidoglycan composition. <i>Microbiology (United Kingdom)</i> , 2010, 156, 2327-2335.	1.8	49
29	Analysis of Genes Encoding Penicillin-Binding Proteins in Clinical Isolates of <i>Acinetobacter baumannii</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 5907-5913.	3.2	49
30	Characterization of HMW-PBPs from the rod-shaped actinomycete <i>Corynebacterium glutamicum</i> : peptidoglycan synthesis in cells lacking actin-like cytoskeletal structures. <i>Molecular Microbiology</i> , 2007, 66, 643-657.	2.5	48
31	Expression of OXA-Type and SFO-1 β -Lactamases Induces Changes in Peptidoglycan Composition and Affects Bacterial Fitness. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 1877-1884.	3.2	45
32	Contribution of the P <i>mra</i> Promoter to Expression of Genes in the <i>Escherichia coli mra</i> Cluster of Cell Envelope Biosynthesis and Cell Division Genes. <i>Journal of Bacteriology</i> , 1998, 180, 4406-4412.	2.2	45
33	Identification of the full set of <i>Listeria monocytogenes</i> penicillin-binding proteins and characterization of PBPD2 (Lmo2812). <i>BMC Microbiology</i> , 2010, 10, 239.	3.3	41
34	Description of In116, the first blaCTX-M-2-containing complex class 1 integron found in <i>Morganella morganii</i> isolates from Buenos Aires, Argentina. <i>Journal of Antimicrobial Chemotherapy</i> , 2005, 55, 461-465.	3.0	40
35	Detection of class 1 and 2 integrons, extended-spectrum β -lactamases and qnr alleles in enterobacterial isolates from the digestive tract of Intensive Care Unit inpatients. <i>International Journal of Antimicrobial Agents</i> , 2010, 36, 453-458.	2.5	39
36	Engineering and overexpression of periplasmic forms of the penicillin-binding protein 3 of <i>Escherichia coli</i> . <i>Biochemical Journal</i> , 1994, 298, 189-195.	3.7	38

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37	, an essential gene at the cluster of codes for a cytoplasmic protein with methyltransferase activity. <i>Biochimie</i> , 1999, 81, 879-888.	2.6	37
38	Topological characterization of the essential <i>Escherichia coli</i> cell division protein FtsW. <i>FEMS Microbiology Letters</i> , 2002, 216, 23-32.	1.8	36
39	First Class A Carbapenemase Isolated from Enterobacteriaceae in Argentina. <i>Antimicrobial Agents and Chemotherapy</i> , 2004, 48, 1068-1069.	3.2	33
40	Experimental validation of Haldane's hypothesis on the role of infection as an evolutionary force for Metazoans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 13728-13731.	7.1	33
41	Penicillin-binding proteins of <i>Bacteroides fragilis</i> and their role in the resistance to imipenem of clinical isolates. <i>Journal of Medical Microbiology</i> , 2005, 54, 1055-1064.	1.8	32
42	Targeting the permeability barrier and peptidoglycan recycling pathways to disarm <i>Pseudomonas aeruginosa</i> against the innate immune system. <i>PLoS ONE</i> , 2017, 12, e0181932.	2.5	32
43	A Specialized Peptidoglycan Synthase Promotes <i>Salmonella</i> Cell Division inside Host Cells. <i>MBio</i> , 2017, 8, .	4.1	30
44	Ciprofloxacin-Resistant Enterobacteria Harboring the <i>aac(6)-Ib-cr</i> Variant Isolated from Feces of Inpatients in an Intensive Care Unit in Uruguay. <i>Antimicrobial Agents and Chemotherapy</i> , 2008, 52, 806-807.	3.2	28
45	Cell Cycle Control: Prokaryotic Solutions to Eukaryotic Problems?. <i>Journal of Theoretical Biology</i> , 1994, 168, 227-230.	1.7	27
46	A Surface Plasmon Resonance Analysis of the Interaction between the Antibiotic Moenomycin A and Penicillin-Binding Protein 1b. <i>ChemBioChem</i> , 2002, 3, 559.	2.6	27
47	Peptidoglycan precursor pools associated with <i>MraY</i> and <i>FtsW</i> deficiencies or antibiotic treatments. <i>FEMS Microbiology Letters</i> , 2005, 250, 195-200.	1.8	27
48	Biochemical and Molecular Characterization of Three New Variants of AmpC β -Lactamases from <i>Morganella morganii</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2006, 50, 962-967.	3.2	27
49	Molecular analysis of the effector mechanisms of cefoxitin resistance among <i>Bacteroides</i> strains. <i>Journal of Antimicrobial Chemotherapy</i> , 2011, 66, 2492-2500.	3.0	27
50	Studies on the interaction of the antibiotic moenomycin A with the enzyme penicillin-binding protein 1b. <i>Bioorganic and Medicinal Chemistry</i> , 2003, 11, 2965-2981.	3.0	26
51	Morphological changes and proteome response of <i>Corynebacterium glutamicum</i> to a partial depletion of <i>FtsI</i> . <i>Microbiology (United Kingdom)</i> , 2006, 152, 2491-2503.	1.8	25
52	<i>Lysinibacillus sphaericus</i> S-layer protein toxicity against <i>Culex quinquefasciatus</i> . <i>Biotechnology Letters</i> , 2011, 33, 2037-2041.	2.2	25
53	Moenomycin-Mediated Affinity Purification of Penicillin-Binding Protein 1b. <i>ChemBioChem</i> , 2002, 3, 332-340.	2.6	23
54	Relationship between penicillin-binding protein patterns and β -lactamases in clinical isolates of <i>Bacteroides fragilis</i> with different susceptibility to β -lactam antibiotics. <i>Journal of Medical Microbiology</i> , 2004, 53, 213-221.	1.8	23

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55	Biochemical Characterization of PER-2 and Genetic Environment of bla PER-2. <i>Antimicrobial Agents and Chemotherapy</i> , 2007, 51, 2359-2365.	3.2	22
56	Surveillance of antibiotic resistance evolution and detection of class 1 and 2 integrons in human isolates of multi-resistant <i>Salmonella</i> Typhimurium obtained in Uruguay between 1976 and 2000. <i>International Journal of Infectious Diseases</i> , 2009, 13, 342-348.	3.3	22
57	$\hat{2}$ -lactamases produced by amoxicillin-clavulanate-resistant enterobacteria isolated in Buenos Aires, Argentina: A new blaTEM gene. <i>Revista Argentina De Microbiologia</i> , 2014, 46, 210-217.	0.7	22
58	A lacZ-pbpB gene fusion coding for an inducible hybrid protein that recognizes localized sites in the inner membrane of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1988, 170, 3333-3341.	2.2	21
59	blaCTX-M-2 and blaCTX-M-28 extended-spectrum $\hat{2}$ -lactamase genes and class 1 integrons in clinical isolates of <i>Klebsiella pneumoniae</i> from Brazil. <i>Memorias Do Instituto Oswaldo Cruz</i> , 2010, 105, 163-167.	1.6	21
60	First Human Isolate of <i>Salmonella enterica</i> Serotype Enteritidis Harboring blaCTX-M-14 in South America. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 2132-2134.	3.2	20
61	New TEM-Derived Extended-Spectrum $\hat{2}$ -Lactamase and Its Genomic Context in Plasmids from <i>Salmonella enterica</i> Serovar Derby Isolates from Uruguay. <i>Antimicrobial Agents and Chemotherapy</i> , 2006, 50, 781-784.	3.2	18
62	Induction of a class I beta-lactamase from <i>Citrobacter freundii</i> in <i>Escherichia coli</i> requires active ftsZ but not ftsA or ftsQ products. <i>Antimicrobial Agents and Chemotherapy</i> , 1991, 35, 2359-2365.	3.2	17
63	The DD-carboxypeptidase activity encoded by pbp4B is not essential for the cell growth of <i>Escherichia coli</i> . <i>Archives of Microbiology</i> , 2006, 185, 23-27.	2.2	17
64	Metabolite profiling and peptidoglycan analysis of transient cell wall-deficient bacteria in a new <i>Escherichia coli</i> model system. <i>Environmental Microbiology</i> , 2015, 17, 1586-1599.	3.8	17
65	Identification of the first blaCMY-2 gene in <i>Salmonella enterica</i> serovar Typhimurium isolates obtained from cases of paediatric diarrhoea illness detected in South America. <i>Journal of Global Antimicrobial Resistance</i> , 2013, 1, 143-148.	2.2	15
66	The identification and characterization of lbpA, a novel $\hat{2}$ -crystallin-type heat shock protein from <i>Mycoplasma</i> . <i>Cell Stress and Chaperones</i> , 2012, 17, 171-180.	2.9	14
67	In vivo functional and molecular characterization of the Penicillin-Binding Protein 4 (DacB) of <i>Pseudomonas aeruginosa</i> . <i>BMC Microbiology</i> , 2016, 16, 234.	3.3	14
68	The peptidoglycan and biofilm matrix of <i>Staphylococcus epidermidis</i> undergo structural changes when exposed to human platelets. <i>PLoS ONE</i> , 2019, 14, e0211132.	2.5	14
69	Cell Division Inhibition in <i>Salmonella typhimurium</i> Histidine-Constitutive Strains: an ftsI-Like Defect in the Presence of Wild-Type Penicillin-Binding Protein 3 Levels. <i>Journal of Bacteriology</i> , 1998, 180, 5231-5234.	2.2	14
70	Optical properties and denaturation by guanidinium chloride and urea of the adenosine triphosphatase of <i>Micrococcus lysodeikticus</i> . A comparison of four molecular forms of the enzyme. <i>Biochemical Journal</i> , 1977, 161, 321-331.	3.7	13
71	Analysis of the different molecular forms of penicillin-binding protein 1B in <i>Escherichia coli</i> ponB mutants lysogenized with specialized transducing lambda(ponB+) bacteriophages. <i>FEBS Journal</i> , 1984, 144, 571-576.	0.2	13
72	The penicillin-binding proteins: structure and role in peptidoglycan biosynthesis. <i>FEMS Microbiology Reviews</i> , 2008, 32, 556-556.	8.6	13

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73	Antimicrobial resistance determinants among anaerobic bacteria isolated from footrot. <i>Veterinary Microbiology</i> , 2012, 157, 112-118.	1.9	13
74	Binding of 125I-labeled .BETA.-lactam antibiotics to the penicillin binding proteins of <i>Escherichia coli</i> .. <i>Journal of Antibiotics</i> , 1984, 37, 389-393.	2.0	12
75	The Absence of a Mature Cell Wall Sacculus in Stable <i>Listeria monocytogenes</i> L-Form Cells Is Independent of Peptidoglycan Synthesis. <i>PLoS ONE</i> , 2016, 11, e0154925.	2.5	12
76	Identification of a new mutation in <i>Escherichia coli</i> that suppresses a <i>pbpB</i> (Ts) phenotype in the presence of penicillin-binding protein 1B. <i>FEMS Microbiology Letters</i> , 1991, 84, 7-13.	1.8	11
77	Peptidoglycan editing in non-proliferating intracellular <i>Salmonella</i> as source of interference with immune signaling. <i>PLoS Pathogens</i> , 2022, 18, e1010241.	4.7	11
78	Activation Parameters of the Adenosine Triphosphatase of <i>Micrococcus lysodeikticus</i> A Comparison of the Soluble and Membrane-Bound Forms of the Enzyme. <i>FEBS Journal</i> , 1976, 66, 43-47.	0.2	10
79	Thermal denaturation of <i>Micrococcus lysodeikticus</i> adenosine triphosphatase. Influence of temperature on the circular dichroism, fluorescence and enzymic activity of the protein. <i>Biochemical Journal</i> , 1978, 169, 371-380.	3.7	10
80	Polyadenylated RNA population present in dormant spores of <i>Dictyostelium discoideum</i> . <i>Cell Differentiation</i> , 1982, 11, 55-61.	0.4	10
81	Characterization of <i>Acholeplasma laidlawii</i> <i>ftsZ</i> Gene and Its Gene Product. <i>Biochemical and Biophysical Research Communications</i> , 1999, 262, 44-49.	2.1	10
82	Characterization and chromosomal organization of the <i>murD</i> – <i>murC</i> – <i>ftsQ</i> region of <i>Corynebacterium glutamicum</i> ATCC 13869. <i>Research in Microbiology</i> , 2004, 155, 174-184.	2.1	10
83	A novel OXA-10-like β -lactamase is present in different Enterobacteriaceae. <i>Diagnostic Microbiology and Infectious Disease</i> , 2010, 66, 228-229.	1.8	10
84	A new beta-lactam-binding protein derived from penicillin-binding protein 3 of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1989, 171, 5194-5198.	2.2	9
85	Transcriptional Analysis of the <i>bla</i> CTX-M-2 Gene in <i>Salmonella enterica</i> Serovar Infantis. <i>Antimicrobial Agents and Chemotherapy</i> , 2005, 49, 3014-3017.	3.2	9
86	Increased bile resistance in <i>Salmonella enterica</i> mutants lacking Prc periplasmic protease. <i>International Microbiology</i> , 2013, 16, 87-92.	2.4	9
87	Cloning and expression of the <i>ponB</i> gene, encoding penicillin-binding protein 1B of <i>Escherichia coli</i> , in heterologous systems. <i>Journal of Bacteriology</i> , 1990, 172, 4448-4455.	2.2	8
88	Nucleotide sequence of the regulatory region of the gene <i>pbpB</i> of <i>Escherichia coli</i> . <i>Nucleic Acids Research</i> , 1990, 18, 2813-2813.	14.5	8
89	Characterization of the <i>Mycoplasma hominis</i> <i>ftsZ</i> gene and its sequence variability in mycoplasma clinical isolates. <i>Biochemical and Biophysical Research Communications</i> , 2002, 293, 155-162.	2.1	8
90	Thermostability enhancement of the <i>Pseudomonas fluorescens</i> esterase I by in vivo folding selection in <i>Thermus thermophilus</i> . <i>Biotechnology and Bioengineering</i> , 2020, 117, 30-38.	3.3	8

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91	Identification of a new mutation in <i>Escherichia coli</i> that suppresses <i>apbB</i> (Ts) phenotype in the presence of penicillin-binding protein 1B. <i>FEMS Microbiology Letters</i> , 1991, 84, 7-13.	1.8	6
92	Application of a charge/size two-dimensional gel electrophoresis system to the analysis of the penicillin-binding proteins of <i>Escherichia coli</i> . <i>FEBS Letters</i> , 1984, 168, 93-96.	2.8	5
93	Site-directed mutagenesis of penicillin-binding protein 3 of <i>Escherichia coli</i> : Role of Val-545. <i>FEMS Microbiology Letters</i> , 1994, 121, 251-256.	1.8	5
94	Activation parameters and molecular changes induced by substrate hydrolysis of the adenosine triphosphatase of <i>Micrococcus lysodeikticus</i> . A comparison of three different soluble forms of the enzyme. <i>Molecular and Cellular Biochemistry</i> , 1977, 17, 17-23.	3.1	4
95	Partial crypticity of penicillin-binding protein 1b in purified cell envelopes of <i>Escherichia coli</i> . <i>Current Microbiology</i> , 1984, 11, 247-250.	2.2	4
96	Characterisation of KLUVA-9, a β -lactamase from extended-spectrum cephalosporin-susceptible <i>Kluyvera ascorbata</i> , and genetic organisation of <i>bla</i> KLUVA-9. <i>International Journal of Antimicrobial Agents</i> , 2007, 29, 332-337.	2.5	4
97	Variability in the posttranslational processing of penicillin-binding protein 1b among different strains of <i>Escherichia coli</i> . <i>Biochemistry and Cell Biology</i> , 1987, 65, 62-67.	2.0	3
98	Analysis of the O-antigen chain length distribution during extracellular and intracellular growth of <i>Shigella flexneri</i> . <i>Microbial Pathogenesis</i> , 2001, 31, 21-27.	2.9	3
99	Remote induction of cellular immune response in mice by anti-meningococcal nanocochleates - nanoproteoliposomes. <i>Science of the Total Environment</i> , 2019, 668, 1055-1063.	8.0	2
100	Topological characterization of the essential <i>Escherichia coli</i> cell division protein FtsW. <i>FEMS Microbiology Letters</i> , 2002, 216, 23-32.	1.8	2
101	Characterization of HMW-PBPs from the rod-shaped actinomycete <i>Corynebacterium glutamicum</i> : peptidoglycan synthesis in cells lacking actin-like cytoskeletal structures. <i>Molecular Microbiology</i> , 2007, .	2.5	2
102	Site-directed mutagenesis of dicarboxylic acid residues of the penicillin-binding module of the <i>Escherichia coli</i> penicillin-binding protein 3. <i>FEMS Microbiology Letters</i> , 1993, 113, 247-251.	1.8	1
103	The Spanish Society for Microbiology and Latin American microbiologists: seventy-five years of joint scientific ventures. <i>International Microbiology</i> , 2021, 24, 657-664.	2.4	1
104	Site-directed mutagenesis of dicarboxylic acid residues of the penicillin-binding module of the <i>Escherichia coli</i> penicillin-binding protein 3. <i>FEMS Microbiology Letters</i> , 1993, 113, 247-251.	1.8	1
105	Changes in protein synthesis and in RNA poly A+ population after treatment of <i>Dictyostelium amoebae</i> by 5-bromo-2'-deoxyuridine. <i>Biology of the Cell</i> , 1985, 52, 231-242.	2.0	1
106	Cloning and Expression of the <i>Mycoplasma hominis</i> <i>ftsZ</i> Gene for a Cell Division Protein. <i>Russian Journal of Genetics</i> , 2003, 39, 249-255.	0.6	0
107	Variations in the Metabolism of Peptidoglycan Prior to Polymerization. , 1993, , 127-138.		0