Daniel N Wilson

List of Publications by Year
in descending order

185 papers	14,234 citations	14655 66 h-index	24982 109 g-index
221 all docs	221 docs citations	221 times ranked	11758 citing authors

#	Article	IF	Citations
1	Putting the antibiotics chloramphenicol and linezolid into context. Nature Structural and Molecular Biology, 2022, 29, 79-81.	8.2	1
2	Structural basis for PoxtA-mediated resistance to phenicol and oxazolidinone antibiotics. Nature Communications, 2022, 13, 1860.	12.8	25
3	Total Synthesis and Biological Evaluation of Paenilamicins from the Honey Bee Pathogen <i>Paenibacillus larvae</i>. Journal of the American Chemical Society, 2022, 144, 288-296.	13.7	6
4	The cyclic octapeptide antibiotic argyrin B inhibits translation by trapping EF-G on the ribosome during translocation. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2114214119.	7.1	8
5	Structural Basis for Bacterial Ribosome-Associated Quality Control by RqcH and RqcP. Molecular Cell, 2021, 81, 115-126.e7.	9.7	41
6	Yeast translation elongation factor eEF3 promotes late stages of tRNA translocation. EMBO Journal, 2021, 40, e106449.	7.8	19
7	Ribosome Rescue Pathways in Bacteria. Frontiers in Microbiology, 2021, 12, 652980.	3.5	46
8	Structure of Gcn1 bound to stalled and colliding 80S ribosomes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	79
9	Context-specific action of macrolide antibiotics on the eukaryotic ribosome. Nature Communications, 2021, 12, 2803.	12.8	18
10	Repurposing tRNAs for nonsense suppression. Nature Communications, 2021, 12, 3850.	12.8	22
11	Structural basis of ABCF-mediated resistance to pleuromutilin, lincosamide, and streptogramin A antibiotics in Gram-positive pathogens. Nature Communications, 2021, 12, 3577.	12.8	40
12	RqcH and RqcP catalyze processive poly-alanine synthesis in a reconstituted ribosome-associated quality control system. Nucleic Acids Research, 2021, 49, 8355-8369.	14.5	11
13	Structural and mechanistic basis for translation inhibition by macrolide and ketolide antibiotics. Nature Communications, 2021, 12, 4466.	12.8	43
14	Structural Basis for Regulation of the Opposing (p)ppGpp Synthetase and Hydrolase within the Stringent Response Orchestrator Rel. Cell Reports, 2020, 32, 108157.	6.4	39
15	Bifunctional Nitrone-Conjugated Secondary Metabolite Targeting the Ribosome. Journal of the American Chemical Society, 2020, 142, 18369-18377.	13.7	7
16	Coupling of 5S RNP rotation with maturation of functional centers during large ribosomal subunit assembly. Nature Communications, 2020, 11, 3751.	12.8	24
17	Peptide Inhibitors of Bacterial Protein Synthesis with Broad Spectrum and SbmA-Independent Bactericidal Activity against Clinical Pathogens. Journal of Medicinal Chemistry, 2020, 63, 9590-9602.	6.4	24
18	Characterization of Cetacean Proline-Rich Antimicrobial Peptides Displaying Activity against ESKAPE Pathogens. International Journal of Molecular Sciences, 2020, 21, 7367.	4.1	8

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19	Mechanism of ribosome rescue by alternative ribosome-rescue factor B. Nature Communications, 2020, 11, 4106.	12.8	26
20	The 23S Ribosomal RNA From Pyrococcus furiosus Is Circularly Permuted. Frontiers in Microbiology, 2020, 11, 582022.	3.5	9
21	The alarmones (p)ppGpp are part of the heat shock response of Bacillus subtilis. PLoS Genetics, 2020, 16, e1008275.	3.5	52
22	Tetracenomycin X inhibits translation by binding within the ribosomal exit tunnel. Nature Chemical Biology, 2020, 16, 1071-1077.	8.0	43
23	Target protection as a key antibiotic resistance mechanism. Nature Reviews Microbiology, 2020, 18, 637-648.	28.6	100
24	Prolineâ€Rich Peptides with Improved Antimicrobial Activity against <i>E. coli</i>, <i>K. pneumoniae</i>, and <i>A. baumannii</i>. ChemMedChem, 2019, 14, 2025-2033.	3.2	35
25	Intracellular Antimicrobial Peptides Targeting the Protein Synthesis Machinery. Advances in Experimental Medicine and Biology, 2019, 1117, 73-89.	1.6	63
26	The Natural Product Elegaphenone Potentiates Antibiotic Effects against <i>Pseudomonas aeruginosa</i>. Angewandte Chemie - International Edition, 2019, 58, 8581-8584.	13.8	13
27	Der Naturstoff Elegaphenon verstÃrkt antibiotische Effekte gegen <i>Pseudomonas aeruginosa</i>. Angewandte Chemie, 2019, 131, 8670-8674.	2.0	2
28	A role for the Saccharomyces cerevisiae ABCF protein New1 in translation termination/recycling. Nucleic Acids Research, 2019, 47, 8807-8820.	14.5	26
29	Release factor-dependent ribosome rescue by BrfA in the Gram-positive bacterium Bacillus subtilis. Nature Communications, 2019, 10, 5397.	12.8	32
30	The Dolphin Proline-Rich Antimicrobial Peptide Tur1A Inhibits Protein Synthesis by Targeting the Bacterial Ribosome. Cell Chemical Biology, 2018, 25, 530-539.e7.	5.2	90
31	Hierarchical recruitment of ribosomal proteins and assembly factors remodels nucleolar pre-60S ribosomes. Journal of Cell Biology, 2018, 217, 2503-2518.	5.2	33
32	Structural basis for (p)ppGpp-mediated inhibition of the GTPase RbgA. Journal of Biological Chemistry, 2018, 293, 19699-19709.	3.4	41
33	Structure of a hibernating 100S ribosome reveals an inactive conformation of the ribosomal protein S1. Nature Microbiology, 2018, 3, 1115-1121.	13.3	92
34	Structural basis for antibiotic resistance mediated by the <i>Bacillus subtilis</i> ABCF ATPase VmlR. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8978-8983.	7.1	78
35	Fragments of the Nonlytic Proline-Rich Antimicrobial Peptide Bac5 Kill Escherichia coli Cells by Inhibiting Protein Synthesis. Antimicrobial Agents and Chemotherapy, 2018, 62, .	3.2	44
36	Visualization of translation termination intermediates trapped by the ApidaecinÂ137 peptide during RF3-mediated recycling of RF1. Nature Communications, 2018, 9, 3053.	12.8	48

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37	The Mechanisms of Action of Ribosome-Targeting Peptide Antibiotics. Frontiers in Molecular Biosciences, 2018, 5, 48.	3.5	84
38	Totalsynthese und Strukturkorrektur des antibiotisch wirksamen Tetrapeptids GE81112A. Angewandte Chemie, 2018, 130, 12334-12338.	2.0	3
39	Total Synthesis and Structural Revision of the Antibiotic Tetrapeptide GE81112A. Angewandte Chemie - International Edition, 2018, 57, 12157-12161.	13.8	12
40	Structure of the <i>Bacillus subtilis</i> hibernating 100S ribosome reveals the basis for 70S dimerization. EMBO Journal, 2017, 36, 2061-2072.	7.8	74
41	Structural basis for ArfAâ€“RF2-mediated translation termination on mRNAs lacking stop codons. Nature, 2017, 541, 546-549.	27.8	39
42	Structural Basis for Ribosome Rescue in Bacteria. Trends in Biochemical Sciences, 2017, 42, 669-680.	7.5	53
43	Proline-rich antimicrobial peptides targeting protein synthesis. Natural Product Reports, 2017, 34, 702-711.	10.3	132
44	Structural Basis for Polyproline-Mediated Ribosome Stalling and Rescue by the Translation Elongation Factor EF-P. Molecular Cell, 2017, 68, 515-527.e6.	9.7	118
45	An antimicrobial peptide that inhibits translation by trapping release factors on the ribosome. Nature Structural and Molecular Biology, 2017, 24, 752-757.	8.2	123
46	Myticalins: A Novel Multigenic Family of Linear, Cationic Antimicrobial Peptides from Marine Mussels (Mytilus spp.). Marine Drugs, 2017, 15, 261.	4.6	54
47	The force-sensing peptide VemP employs extreme compaction and secondary structure formation to induce ribosomal stalling. ELife, 2017, 6, .	6.0	81
48	Wnt/Î²-catenin and LIF/Stat3 signaling pathways converge on Sp5 to promote mouse embryonic stem cell self-renewal. Journal of Cell Science, 2016, 129, 269-76.	2.0	43
49	Deciphering the Translation Initiation Factor 5A Modification Pathway in Halophilic Archaea. Archaea, 2016, 2016, 1-14.	2.3	24
50	Cryo-EM structure of the spinach chloroplast ribosome reveals the location of plastid-specific ribosomal proteins and extensions. Nucleic Acids Research, 2016, 45, gkw1272.	14.5	33
51	A combined cryo-EM and molecular dynamics approach reveals the mechanism of ErmBL-mediated translation arrest. Nature Communications, 2016, 7, 12026.	12.8	103
52	ErmBL Translation on the Ribosome in the Presence of Erythromycin is Stalled by Inhibition of Peptide Bond Formation. Biophysical Journal, 2016, 110, 234a.	0.5	0
53	The stringent factor RelA adopts an open conformation on the ribosome to stimulate ppGpp synthesis. Nucleic Acids Research, 2016, 44, 6471-6481.	14.5	129
54	Ribosomes Structure and Mechanisms in Regulation of Protein Synthesis Part I. Journal of Molecular Biology, 2016, 428, 2133.	4.2	0

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55	The ABC of Ribosome-Related Antibiotic Resistance. MBio, 2016, 7, .	4.1	62
56	Bacterial Protein Synthesis as a Target for Antibiotic Inhibition. Cold Spring Harbor Perspectives in Medicine, 2016, 6, a025361.	6.2	94
57	Editorial. Journal of Molecular Biology, 2016, 428, 3557.	4.2	0
58	Knud Hermann Nierhaus 1941â€"2016. Nature Structural and Molecular Biology, 2016, 23, 503-504.	8.2	0
59	Structures of the orthosomycin antibiotics avilamycin and evernimicin in complex with the bacterial 70S ribosome. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7527-7532.	7.1	45
60	Structure of the hypusinylated eukaryotic translation factor eIF-5A bound to the ribosome. Nucleic Acids Research, 2016, 44, 1944-1951.	14.5	106
61	Stall no more at polyproline stretches with the translation elongation factors EFâ€P and IFâ€5A. Molecular Microbiology, 2016, 99, 219-235.	2.5	70
62	Translation regulation via nascent polypeptide-mediated ribosome stalling. Current Opinion in Structural Biology, 2016, 37, 123-133.	5.7	137
63	Structure of the mammalian antimicrobial peptide Bac7(1â€"16) bound within the exit tunnel of a bacterial ribosome. Nucleic Acids Research, 2016, 44, 2429-2438.	14.5	89
64	Blast from the Past: Reassessing Forgotten Translation Inhibitors, Antibiotic Selectivity, and Resistance Mechanisms to Aid Drug Development. Molecular Cell, 2016, 61, 3-14.	9.7	60
65	Wnt/Î²-catenin and LIFâ€"Stat3 signaling pathways converge on Sp5 to promote mouse embryonic stem cell self-renewal. Development (Cambridge), 2016, 143, e1.1-e1.1.	2.5	1
66	Distinct tRNA Accommodation Intermediates Observed on the Ribosome with the Antibiotics Hygromycin A and A201A. Molecular Cell, 2015, 58, 832-844.	9.7	79
67	Structural basis for the interaction of protein S1 with the Escherichia coli ribosome. Nucleic Acids Research, 2015, 43, 661-673.	14.5	56
68	Arginine-rhamnosylation as new strategy to activate translation elongation factor P. Nature Chemical Biology, 2015, 11, 266-270.	8.0	116
69	Cryo-EM structure of the tetracycline resistance protein TetM in complex with a translating ribosome at 3.9-Ã… resolution. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5401-5406.	7.1	58
70	The proline-rich antimicrobial peptide Onc112 inhibits translation by blocking and destabilizing the initiation complex. Nature Structural and Molecular Biology, 2015, 22, 470-475.	8.2	148
71	Structure of the Bacillus subtilis 70S ribosome reveals the basis for species-specific stalling. Nature Communications, 2015, 6, 6941.	12.8	105
72	Translational arrest by a prokaryotic signal recognition particle is mediated by RNA interactions. Nature Structural and Molecular Biology, 2015, 22, 767-773.	8.2	29

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73	Entropic Contribution of Elongation Factor P to Proline Positioning at the Catalytic Center of the Ribosome. Journal of the American Chemical Society, 2015, 137, 12997-13006.	13.7	88
74	Antimicrobial peptides target ribosomes. Oncotarget, 2015, 6, 16826-16827.	1.8	4
75	A Conserved Proline Triplet in Val-tRNA Synthetase and the Origin of Elongation Factor P. Cell Reports, 2014, 9, 476-483.	6.4	41
76	Translational stalling at polyproline stretches is modulated by the sequence context upstream of the stall site. Nucleic Acids Research, 2014, 42, 10711-10719.	14.5	88
77	Entrapment of DNA in an intersubunit tunnel system of a single-stranded DNA-binding protein. Nucleic Acids Research, 2014, 42, 6698-6708.	14.5	15
78	A new system for naming ribosomal proteins. Current Opinion in Structural Biology, 2014, 24, 165-169.	5.7	481
79	Ribosome Rescue, Nearing the End. Cell, 2014, 156, 866-867.	28.9	2
80	Ribosome-targeting antibiotics and mechanisms of bacterial resistance. Nature Reviews Microbiology, 2014, 12, 35-48.	28.6	790
81	Insights into the Mode of Action of Novel Fluoroketolides, Potent Inhibitors of Bacterial Protein Synthesis. Antimicrobial Agents and Chemotherapy, 2014, 58, 472-480.	3.2	17
82	Drug Sensing by the Ribosome Induces Translational Arrest via Active Site Perturbation. Molecular Cell, 2014, 56, 446-452.	9.7	104
83	Molecular basis for erythromycin-dependent ribosome stalling during translation of the ErmBL leader peptide. Nature Communications, 2014, 5, 3501.	12.8	115
84	Tetracycline antibiotics and resistance mechanisms. Biological Chemistry, 2014, 395, 559-575.	2.5	324
85	The bacterial translation stress response. FEMS Microbiology Reviews, 2014, 38, 1172-1201.	8.6	165
86	Structures of Nascent Polypeptide Chain-Dependent-Stalled Ribosome Complexes. , 2014, , 45-59.		1
87	Translation Elongation Factor EF-P Alleviates Ribosome Stalling at Polyproline Stretches. Science, 2013, 339, 82-85.	12.6	393
88	Structural basis for potent inhibitory activity of the antibiotic tigecycline during protein synthesis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3812-3816.	7.1	152
89	Nascent peptides that block protein synthesis in bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E878-87.	7.1	137
90	Structures of the human and Drosophila 80S ribosome. Nature, 2013, 497, 80-85.	27.8	474

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91	On the use of the antibiotic chloramphenicol to target polypeptide chain mimics to the ribosomal exit tunnel. Biochimie, 2013, 95, 1765-1772.	2.6	14
92	Amythiamicinâ€…D and Related Thiopeptides as Inhibitors of the Bacterial Elongation Factor EFâ€Tu: Modification of the Amino Acid at Carbon Atom C2 of Ringâ€…C Dramatically Influences Activity. ChemMedChem, 2013, 8, 1954-1962.	3.2	18
93	Promiscuous behaviour of archaeal ribosomal proteins: Implications for eukaryotic ribosome evolution. Nucleic Acids Research, 2013, 41, 1284-1293.	14.5	59
94	Distinct XPPX sequence motifs induce ribosome stalling, which is rescued by the translation elongation factor EF-P. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15265-15270.	7.1	167
95	The DARC site: a database of aligned ribosomal complexes. Nucleic Acids Research, 2012, 40, D495-D500.	14.5	7
96	Target- and Resistance-Based Mechanistic Studies with TP-434, a Novel Fluorocycline Antibiotic. Antimicrobial Agents and Chemotherapy, 2012, 56, 2559-2564.	3.2	132
97	Structural basis for TetM-mediated tetracycline resistance. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 16900-16905.	7.1	151
98	Lys34 of translation elongation factor EF-P is hydroxylated by YfcM. Nature Chemical Biology, 2012, 8, 695-697.	8.0	81
99	Mechanisms of SecM-Mediated Stalling in the Ribosome. Biophysical Journal, 2012, 103, 331-341.	0.5	82
100	The Structure and Function of the Eukaryotic Ribosome. Cold Spring Harbor Perspectives in Biology, 2012, 4, a011536-a011536.	5.5	330
101	Peptides in the Ribosomal Tunnel Talk Back. Molecular Cell, 2011, 41, 247-248.	9.7	7
102	Proteomic Characterization of Archaeal Ribosomes Reveals the Presence of Novel Archaeal-Specific Ribosomal Proteins. Journal of Molecular Biology, 2011, 405, 1215-1232.	4.2	28
103	Antibioticâ€induced ribosomal assembly defects result from changes in the synthesis of ribosomal proteins. Molecular Microbiology, 2011, 80, 54-67.	2.5	31
104	On the specificity of antibiotics targeting the large ribosomal subunit. Annals of the New York Academy of Sciences, 2011, 1241, 1-16.	3.8	57
105	The ribosomal tunnel as a functional environment for nascent polypeptide folding and translational stalling. Current Opinion in Structural Biology, 2011, 21, 274-282.	5.7	179
106	Differential Effects of Thiopeptide and Orthosomycin Antibiotics on Translational GTPases. Chemistry and Biology, 2011, 18, 589-600.	6.0	37
107	Molecular Basis for the Selectivity of Antituberculosis Compounds Capreomycin and Viomycin. Antimicrobial Agents and Chemotherapy, 2011, 55, 4712-4717.	3.2	36
108	SecM-Stalled Ribosomes Adopt an Altered Geometry at the Peptidyl Transferase Center. PLoS Biology, 2011, 9, e1000581.	5.6	132

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109	Nascent polypeptide chains within the ribosomal tunnel analyzed by cryo-EM. , 2011, , 393-404.		0
110	Localization of eukaryote-specific ribosomal proteins in a 5.5-â„« cryo-EM map of the 80S eukaryotic ribosome. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19754-19759.	7.1	122
111	Interplay between the Ribosomal Tunnel, Nascent Chain, and Macrolides Influences Drug Inhibition. Chemistry and Biology, 2010, 17, 504-514.	6.0	94
112	Probing Translation with Small-Molecule Inhibitors. Chemistry and Biology, 2010, 17, 633-645.	6.0	42
113	Î±-Helical nascent polypeptide chains visualized within distinct regions of the ribosomal exit tunnel. Nature Structural and Molecular Biology, 2010, 17, 313-317.	8.2	187
114	Head swivel on the ribosome facilitates translocation by means of intra-subunit tRNA hybrid sites. Nature, 2010, 468, 713-716.	27.8	336
115	Cryo-EM structure and rRNA model of a translating eukaryotic 80S ribosome at 5.5-â„« resolution. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19748-19753.	7.1	196
116	PSRP1 Is Not a Ribosomal Protein, but a Ribosome-binding Factor That Is Recycled by the Ribosome-recycling Factor (RRF) and Elongation Factor G (EF-G). Journal of Biological Chemistry, 2010, 285, 4006-4014.	3.4	66
117	Structural Basis for Translational Stalling by Human Cytomegalovirus and Fungal Arginine Attenuator Peptide. Molecular Cell, 2010, 40, 138-146.	9.7	106
118	The E Site and Its Importance for Improving Accuracy and Preventing Frameshifts. Nucleic Acids and Molecular Biology, 2010, , 345-362.	0.2	2
119	Distinct Mode of Interaction of a Novel Ketolide Antibiotic That Displays Enhanced Antimicrobial Activity. Antimicrobial Agents and Chemotherapy, 2009, 53, 1411-1419.	3.2	15
120	The Final Step of Hygromycin A Biosynthesis, Oxidation of C-5â€³-Dihydrohygromycin A, Is Linked to a Putative Proton Gradient-Dependent Efflux. Antimicrobial Agents and Chemotherapy, 2009, 53, 5163-5172.	3.2	6
121	Nonâ€Hydrolyzable RNAâ€"Peptide Conjugates: A Powerful Advance in the Synthesis of Mimics for 3â€²â€Peptidyl tRNA Termini. Angewandte Chemie - International Edition, 2009, 48, 4056-4060.	13.8	38
122	Identification of Distinct Thiopeptide-Antibiotic Precursor Lead Compounds Using Translation Machinery Assays. Chemistry and Biology, 2009, 16, 1087-1096.	6.0	24
123	Biosynthesis of the Aminocyclitol Subunit of Hygromycin A in Streptomyces hygroscopicus NRRL 2388. Chemistry and Biology, 2009, 16, 1180-1189.	6.0	21
124	SnapShot: Antibiotic Inhibition of Protein Synthesis I. Cell, 2009, 138, 1248-1248.e1.	28.9	29
125	Enhanced SnapShot: Antibiotic Inhibition of Protein Synthesis II. Cell, 2009, 139, 212-212.e1.	28.9	20
126	Time-Resolved Binding of Azithromycin to Escherichia coli Ribosomes. Journal of Molecular Biology, 2009, 385, 1179-1192.	4.2	31

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127	Less Is More for Leaderless mRNA Translation. Molecular Cell, 2009, 33, 141-142.	9.7	2
128	Structural Insight into Nascent Polypeptide Chainâ€"Mediated Translational Stalling. Science, 2009, 326, 1412-1415.	12.6	263
129	The Aâ€"Z of bacterial translation inhibitors. Critical Reviews in Biochemistry and Molecular Biology, 2009, 44, 393-433.	5.2	273
130	The Role of 23S Ribosomal RNA Residue A2451 in Peptide Bond Synthesis Revealed by AtomicÂMutagenesis. Chemistry and Biology, 2008, 15, 485-492.	6.0	88
131	A new tRNA intermediate revealed on the ribosome during EF4-mediated back-translocation. Nature Structural and Molecular Biology, 2008, 15, 910-915.	8.2	65
132	New Features of the Ribosome and Ribosomal Inhibitors: Non-Enzymatic Recycling, Misreading and Back-Translocation. Journal of Molecular Biology, 2008, 380, 193-205.	4.2	48
133	Translational Regulation via L11: Molecular Switches on the Ribosome Turned On and Off by Thiostrepton and Micrococcin. Molecular Cell, 2008, 30, 26-38.	9.7	269
134	Shineâ€"Dalgarno interaction prevents incorporation of noncognate amino acids at the codon following the AUG. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10715-10720.	7.1	24
135	The oxazolidinone antibiotics perturb the ribosomal peptidyl-transferase center and effect tRNA positioning. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 13339-13344.	7.1	285
136	Cryo-EM study of the spinach chloroplast ribosome reveals the structural and functional roles of plastid-specific ribosomal proteins. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 19315-19320.	7.1	101
137	Structural Basis for Interaction of the Ribosome with the Switch Regions of GTP-Bound Elongation Factors. Molecular Cell, 2007, 25, 751-764.	9.7	168
138	The Oxazolidinone Class of Drugs FindÂTheirÂOrientation on the Ribosome. Molecular Cell, 2007, 26, 460-462.	9.7	11
139	Structural Aspects of RbfA Action during Small Ribosomal Subunit Assembly. Molecular Cell, 2007, 28, 434-445.	9.7	90
140	The Weird and Wonderful World of Bacterial Ribosome Regulation. Critical Reviews in Biochemistry and Molecular Biology, 2007, 42, 187-219.	5.2	186
141	A Snapshot of the 30S Ribosomal Subunit Capturing mRNA via the Shine-Dalgarno Interaction. Structure, 2007, 15, 289-297.	3.3	94
142	EF-G-Dependent GTPase on the Ribosome. Conformational Change and Fusidic Acid Inhibition. Biochemistry, 2006, 45, 2504-2514.	2.5	73
143	The Highly Conserved LepA IsÂa Ribosomal Elongation Factor that Back-Translocates the Ribosome. Cell, 2006, 127, 721-733.	28.9	192
144	2P594 The antibiotic kasugamycin mimics mRNA nucleotides to destabilize tRNA binding and inhibit canonical translation initiation(55. Drug design and delivery,Poster Session,Abstract,Meeting) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 57 T	0.1	0

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145	The antibiotic kasugamycin mimics mRNA nucleotides to destabilize tRNA binding and inhibit canonical translation initiation. Nature Structural and Molecular Biology, 2006, 13, 871-878.	8.2	116
146	The E-site story: the importance of maintaining two tRNAs on the ribosome during protein synthesis. Cellular and Molecular Life Sciences, 2006, 63, 2725-2737.	5.4	58
147	The Mechanism of Recoding in Pro- and Eukaryotes. , 2006, , 397-428.		2
148	Regulation of Ribosome Biosynthesis in Escherichia coli. , 2006, , 429-448.		1
149	Antibiotics and the Inhibition of Ribosome Function. , 2006, , 449-527.		9
150	The Work of Chaperones. , 2006, , 529-562.		3
151	Structure of the Ribosome. , 2006, , 53-84.		2
152	tRNA and Synthetases. , 2006, , 145-184.		0
153	The Elongation Cycle. , 2006, , 323-366.		1
154	Termination and Ribosome Recycling. , 2006, , 367-395.		1
155	On the Mechanism of Action of 9-O-Arylalkyloxime Derivatives of 6-O-Mycaminosyltylonolide, a New Class of 16-Membered Macrolide Antibiotics. Molecular Pharmacology, 2006, 70, 1271-1280.	2.3	19
156	The binding mode of the trigger factor on the ribosome: Implications for protein folding and SRP interaction. FASEB Journal, 2006, 20, A965.	0.5	0
157	Microarray Analysis of Postictal Transcriptional Regulation of Neuropeptides. Journal of Molecular Neuroscience, 2005, 25, 285-298.	2.3	48
158	RelBE or not to be. Nature Structural and Molecular Biology, 2005, 12, 282-284.	8.2	13
159	X-ray crystallography study on ribosome recycling: the mechanism of binding and action of RRF on the 50S ribosomal subunit. EMBO Journal, 2005, 24, 251-260.	7.8	104
160	The Binding Mode of the Trigger Factor on the Ribosome: Implications for Protein Folding and SRP Interaction. Structure, 2005, 13, 1685-1694.	3.3	88
161	High heterogeneity within the ribosomal proteins of the Arabidopsis thaliana 80S ribosome. Plant Molecular Biology, 2005, 57, 577-591.	3.9	114
162	Species-specific antibiotic-ribosome interactions: implications for drug development. Biological Chemistry, 2005, 386, 1239-52.	2.5	77

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163	Deacylated tRNA is released from the E site upon A site occupation but before GTP is hydrolyzed by EF-Tu. Nucleic Acids Research, 2005, 33, 5291-5296.	14.5	39
164	Ribosomal Proteins in the Spotlight. Critical Reviews in Biochemistry and Molecular Biology, 2005, 40, 243-267.	5.2	159
165	Interaction of Era with the 30S Ribosomal Subunit. Molecular Cell, 2005, 18, 319-329.	9.7	128
166	Polyamines Affect Diversely the Antibiotic Potency. Journal of Biological Chemistry, 2004, 279, 26518-26525.	3.4	21
167	The how and Y of cold shock. Nature Structural and Molecular Biology, 2004, 11, 1026-1028.	8.2	18
168	Maintaining the Ribosomal Reading Frame. Cell, 2004, 118, 45-55.	28.9	102
169	Dissecting the Ribosomal Inhibition Mechanisms of Edeine and Pactamycin. Molecular Cell, 2004, 13, 113-124.	9.7	145
170	Das Ribosom unter der Lupe. Angewandte Chemie, 2003, 115, 3586-3610.	2.0	12
171	The Ribosome Through the Looking Glass. ChemInform, 2003, 34, no.	0.0	0
172	The Ribosome through the Looking Glass. Angewandte Chemie - International Edition, 2003, 42, 3464-3486.	13.8	92
173	Ribosomal crystallography: Peptide bond formation and its inhibition. Biopolymers, 2003, 70, 19-41.	2.4	41
174	Localization of the Trigger Factor Binding Site on the Ribosomal 50S Subunit. Journal of Molecular Biology, 2003, 326, 887-897.	4.2	44
175	Mapping Functionally Important Motifs SPF and GGQ of the Decoding Release Factor RF2 to the Escherichia coli Ribosome by Hydroxyl Radical Footprinting. Journal of Biological Chemistry, 2003, 278, 15095-15104.	3.4	40
176	Molecular Mimicry in the Decoding of Translational Stop Signals. Progress in Molecular Biology and Translational Science, 2003, 74, 83-121.	1.9	23
177	Codon-Anticodon Interaction at the P Site Is a Prerequisite for tRNA Interaction with the Small Ribosomal Subunit. Journal of Biological Chemistry, 2002, 277, 19095-19105.	3.4	29
178	Functions and interplay of the tRNA-binding sites of the ribosome. Biochemical Society Transactions, 2002, 30, 133-140.	3.4	12
179	Dissection of the Mechanism for the Stringent Factor RelA. Molecular Cell, 2002, 10, 779-788.	9.7	275
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