

Yury S Polikanov

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4819987/yury-s-polikanov-publications-by-year.pdf>

Version: 2024-04-09

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.

50 papers	1,882 citations	25 h-index	43 g-index
56 ext. papers	2,551 ext. citations	13.8 avg, IF	4.98 L-index

#	Paper	IF	Citations
50	The Odilorhabdin Antibiotic Biosynthetic Cluster and Acetyltransferase Self-Resistance Locus Are Niche and Species Specific.. <i>MBio</i> , 2022 , e0282621	7.8	1
49	Structural basis for the context-specific action of the classic peptidyl transferase inhibitor chloramphenicol.. <i>Nature Structural and Molecular Biology</i> , 2022 ,	17.6	3
48	A selective antibiotic for Lyme disease. <i>Cell</i> , 2021 , 184, 5405-5418.e16	56.2	4
47	A synthetic antibiotic class overcoming bacterial multidrug resistance. <i>Nature</i> , 2021 , 599, 507-512	50.4	18
46	Binding and Action of Triphenylphosphonium Analog of Chloramphenicol upon the Bacterial Ribosome. <i>Antibiotics</i> , 2021 , 10,	4.9	4
45	The Role of Release Factors in the Hydrolysis of Ester Bond in Peptidyl-tRNA. <i>Biochemistry (Moscow)</i> , 2021 , 86, 1122-1127	2.9	
44	Structure of Erm-modified 70S ribosome reveals the mechanism of macrolide resistance. <i>Nature Chemical Biology</i> , 2021 , 17, 412-420	11.7	21
43	A nucleotide-switch mechanism mediates opposing catalytic activities of Rel enzymes. <i>Nature Chemical Biology</i> , 2020 , 16, 834-840	11.7	20
42	Insights into the improved macrolide inhibitory activity from the high-resolution cryo-EM structure of dirithromycin bound to the 70S ribosome. <i>Rna</i> , 2020 , 26, 715-723	5.8	6
41	Tetracenomycin X inhibits translation by binding within the ribosomal exit tunnel. <i>Nature Chemical Biology</i> , 2020 , 16, 1071-1077	11.7	14
40	Peptide Inhibitors of Bacterial Protein Synthesis with Broad Spectrum and SbmA-Independent Bactericidal Activity against Clinical Pathogens. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 9590-9602	8.3	11
39	Sarecycline interferes with tRNA accommodation and tethers mRNA to the 70S ribosome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 20530-20537	11.5	17
38	In vitro activity of apramycin against multidrug-, carbapenem- and aminoglycoside-resistant Enterobacteriaceae and Acinetobacter baumannii. <i>Journal of Antimicrobial Chemotherapy</i> , 2019 , 74, 944-952	5.1	40
37	Mechanistic insights into the slow peptide bond formation with D-amino acids in the ribosomal active site. <i>Nucleic Acids Research</i> , 2019 , 47, 2089-2100	20.1	18
36	Structure of Dirithromycin Bound to the Bacterial Ribosome Suggests New Ways for Rational Improvement of Macrolides. <i>Antimicrobial Agents and Chemotherapy</i> , 2019 , 63,	5.9	8
35	Design, Multigram Synthesis, and in Vitro and in Vivo Evaluation of Propylamycin: A Semisynthetic 4,5-Deoxystreptamine Class Aminoglycoside for the Treatment of Drug-Resistant Enterobacteriaceae and Other Gram-Negative Pathogens. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5051-5061	16.4	32
34	High-resolution crystal structures of ribosome-bound chloramphenicol and erythromycin provide the ultimate basis for their competition. <i>Rna</i> , 2019 , 25, 600-606	5.8	30

33	Structure of ribosome-bound azole-modified peptide phazolicin rationalizes its species-specific mode of bacterial translation inhibition. <i>Nature Communications</i> , 2019 , 10, 4563	17.4	22
32	Pseudouridylation of mRNA coding sequences alters translation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 23068-23074	11.5	50
31	Odilorhabdins, Antibacterial Agents that Cause Miscoding by Binding at a New Ribosomal Site. <i>Molecular Cell</i> , 2018 , 70, 83-94.e7	17.6	58
30	Binding and Action of Amino Acid Analogs of Chloramphenicol upon the Bacterial Ribosome. <i>Journal of Molecular Biology</i> , 2018 , 430, 842-852	6.5	28
29	Structural and evolutionary insights into ribosomal RNA methylation. <i>Nature Chemical Biology</i> , 2018 , 14, 226-235	11.7	87
28	Ribosome-Targeting Antibiotics: Modes of Action, Mechanisms of Resistance, and Implications for Drug Design. <i>Annual Review of Biochemistry</i> , 2018 , 87, 451-478	29.1	98
27	The Mechanisms of Action of Ribosome-Targeting Peptide Antibiotics. <i>Frontiers in Molecular Biosciences</i> , 2018 , 5, 48	5.6	49
26	Madumycin II inhibits peptide bond formation by forcing the peptidyl transferase center into an inactive state. <i>Nucleic Acids Research</i> , 2017 , 45, 7507-7514	20.1	18
25	Nucleosome-free DNA regions differentially affect distant communication in chromatin. <i>Nucleic Acids Research</i> , 2017 , 45, 3059-3067	20.1	22
24	Two transmembrane dimers of the bovine papillomavirus E5 oncoprotein clamp the PDGF α receptor in an active dimeric conformation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E7262-E7271	11.5	13
23	Co-produced natural ketolides methymycin and pikromycin inhibit bacterial growth by preventing synthesis of a limited number of proteins. <i>Nucleic Acids Research</i> , 2017 , 45, 9573-9582	20.1	25
22	Klebsazolicin inhibits 70S ribosome by obstructing the peptide exit tunnel. <i>Nature Chemical Biology</i> , 2017 , 13, 1129-1136	11.7	32
21	Structures of the orthosomycin antibiotics avilamycin and evernimicin in complex with the bacterial 70S ribosome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 7527-32	11.5	33
20	Insights into RNA binding by the anticancer drug cisplatin from the crystal structure of cisplatin-modified ribosome. <i>Nucleic Acids Research</i> , 2016 , 44, 4978-87	20.1	50
19	Acoustic vibrations contribute to the diffuse scatter produced by ribosome crystals. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015 , 71, 2021-31		11
18	Structural insights into the role of rRNA modifications in protein synthesis and ribosome assembly. <i>Nature Structural and Molecular Biology</i> , 2015 , 22, 342-344	17.6	148
17	Distinct tRNA Accommodation Intermediates Observed on the Ribosome with the Antibiotics Hygromycin A and A201A. <i>Molecular Cell</i> , 2015 , 58, 832-44	17.6	57
16	Amicoumacin a inhibits translation by stabilizing mRNA interaction with the ribosome. <i>Molecular Cell</i> , 2014 , 56, 531-40	17.6	58

15	A proton wire to couple aminoacyl-tRNA accommodation and peptide-bond formation on the ribosome. <i>Nature Structural and Molecular Biology</i> , 2014 , 21, 787-93	17.6	127
14	Negamycin interferes with decoding and translocation by simultaneous interaction with rRNA and tRNA. <i>Molecular Cell</i> , 2014 , 56, 541-50	17.6	38
13	The antibiotics dityromycin and GE82832 bind protein S12 and block EF-G-catalyzed translocation. <i>Cell Reports</i> , 2014 , 6, 357-65	10.6	30
12	Internucleosomal interactions mediated by histone tails allow distant communication in chromatin. <i>Journal of Biological Chemistry</i> , 2012 , 287, 20248-57	5.4	43
11	Distant activation of transcription: mechanisms of enhancer action. <i>Molecular and Cellular Biology</i> , 2012 , 32, 4892-7	4.8	84
10	Elements of ribosomal drug resistance and specificity. <i>Current Opinion in Structural Biology</i> , 2012 , 22, 750-8	8.1	13
9	How hibernation factors RMF, HPF, and YfiA turn off protein synthesis. <i>Science</i> , 2012 , 336, 915-8	33.3	145
8	Analysis of distant communication on defined chromatin templates in vitro. <i>Methods in Molecular Biology</i> , 2009 , 543, 563-76	1.4	8
7	Probability of the site juxtaposition determines the rate of protein-mediated DNA looping. <i>Biophysical Journal</i> , 2007 , 93, 2726-31	2.9	30
6	Biochemical analysis of enhancer-promoter communication in chromatin. <i>Methods</i> , 2007 , 41, 250-8	4.6	14
5	Chromatin structure can strongly facilitate enhancer action over a distance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 17690-5	11.5	36
4	Nucleosomes can form a polar barrier to transcript elongation by RNA polymerase II. <i>Molecular Cell</i> , 2006 , 24, 469-79	17.6	201
3	Nucleotide-mediated allosteric regulation of bifunctional Rel enzymes		4
2	Phazolicin 1b Novel Thiazole/Oxazole-Modified Peptide Inhibiting the Bacterial Ribosome in a Species-Specific Way		1
1	A Synthetic Antibiotic Scaffold Effective Against Multidrug-Resistant Bacterial Pathogens		2