

# Paola Fucini

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

4,284  
citations

126901

33  
h-index

175241

52  
g-index

57  
all docs

57  
docs citations

57  
times ranked

3938  
citing authors

#	ARTICLE	IF	CITATIONS
1	Head swivel on the ribosome facilitates translocation by means of intra-subunit tRNA hybrid sites. <i>Nature</i> , 2010, 468, 713-716.	27.8	336
2	The oxazolidinone antibiotics perturb the ribosomal peptidyl-transferase center and effect tRNA positioning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 13339-13344.	7.1	285
3	Translational Regulation via L11: Molecular Switches on the Ribosome Turned On and Off by Thiostrepton and Micrococcin. <i>Molecular Cell</i> , 2008, 30, 26-38.	9.7	269
4	Inhibition of peptide bond formation by pleuromutilins: the structure of the 50S ribosomal subunit from <i>Deinococcus radiodurans</i> in complex with tiamulin. <i>Molecular Microbiology</i> , 2004, 54, 1287-1294.	2.5	244
5	Detection and selective dissociation of intact ribosomes in a mass spectrometer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 5185-5190.	7.1	209
6	Structural Basis for Interaction of the Ribosome with the Switch Regions of GTP-Bound Elongation Factors. <i>Molecular Cell</i> , 2007, 25, 751-764.	9.7	168
7	Structural Insight into the Antibiotic Action of Telithromycin against Resistant Mutants. <i>Journal of Bacteriology</i> , 2003, 185, 4276-4279.	2.2	163
8	Alterations at the peptidyl transferase centre of the ribosome induced by the synergistic action of the streptogramins dalbopristin and quinupristin. <i>BMC Biology</i> , 2004, 2, 4.	3.8	145
9	Dissecting the Ribosomal Inhibition Mechanisms of Edeine and Pactamycin. <i>Molecular Cell</i> , 2004, 13, 113-124.	9.7	145
10	Heptameric (L12)6/L10 rather than canonical pentameric complexes are found by tandem MS of intact ribosomes from thermophilic bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 8192-8197.	7.1	134
11	Interaction of Era with the 30S Ribosomal Subunit. <i>Molecular Cell</i> , 2005, 18, 319-329.	9.7	128
12	The antibiotic kasugamycin mimics mRNA nucleotides to destabilize tRNA binding and inhibit canonical translation initiation. <i>Nature Structural and Molecular Biology</i> , 2006, 13, 871-878.	8.2	116
13	Structure and dynamics of a ribosome-bound nascent chain by NMR spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 16516-16521.	7.1	116
14	High heterogeneity within the ribosomal proteins of the <i>Arabidopsis thaliana</i> 80S ribosome. <i>Plant Molecular Biology</i> , 2005, 57, 577-591.	3.9	114
15	Three-Dimensional Structures of Translating Ribosomes by Cryo-EM. <i>Molecular Cell</i> , 2004, 14, 57-66.	9.7	104
16	X-ray crystallography study on ribosome recycling: the mechanism of binding and action of RRF on the 50S ribosomal subunit. <i>EMBO Journal</i> , 2005, 24, 251-260.	7.8	104
17	Cryo-EM study of the spinach chloroplast ribosome reveals the structural and functional roles of plastid-specific ribosomal proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 19315-19320.	7.1	101
18	A Snapshot of the 30S Ribosomal Subunit Capturing mRNA via the Shine-Dalgarno Interaction. <i>Structure</i> , 2007, 15, 289-297.	3.3	94

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19	Structural Aspects of RbfA Action during Small Ribosomal Subunit Assembly. <i>Molecular Cell</i> , 2007, 28, 434-445.	9.7	90
20	The Binding Mode of the Trigger Factor on the Ribosome: Implications for Protein Folding and SRP Interaction. <i>Structure</i> , 2005, 13, 1685-1694.	3.3	88
21	Heteronuclear NMR investigations of dynamic regions of intact Escherichia coli ribosomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 10949-10954.	7.1	87
22	Nanoflow liquid chromatography coupled to matrix-assisted laser desorption/ionization mass spectrometry: Sample preparation, data analysis, and application to the analysis of complex peptide mixtures. <i>Proteomics</i> , 2005, 5, 399-408.	2.2	78
23	Species-specific antibiotic-ribosome interactions: implications for drug development. <i>Biological Chemistry</i> , 2005, 386, 1239-52.	2.5	77
24	The repeating segments of the F-actin cross-linking gelation factor (ABP-120) have an immunoglobulin-like fold. <i>Nature Structural Biology</i> , 1997, 4, 223-230.	9.7	75
25	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). <i>Journal of Biological Chemistry</i> , 2010, 285, 4006-4014.	3.4	66
26	A new tRNA intermediate revealed on the ribosome during EF4-mediated back-translocation. <i>Nature Structural and Molecular Biology</i> , 2008, 15, 910-915.	8.2	65
27	On peptide bond formation, translocation, nascent protein progression and the regulatory properties of ribosomes. Delivered on 20 October 2002 at the 28th FEBS Meeting in Istanbul. <i>FEBS Journal</i> , 2003, 270, 2543-2556.	0.2	60
28	Linking microfilaments to intracellular membranes: the actin-binding and vesicle-associated protein comitin exhibits a mannose-specific lectin activity.. <i>EMBO Journal</i> , 1996, 15, 1238-1246.	7.8	59
29	Solid-state NMR enhanced by dynamic nuclear polarization as a novel tool for ribosome structural biology. <i>Journal of Biomolecular NMR</i> , 2013, 56, 85-93.	2.8	59
30	Structural basis for dimerization of the Dictyostelium gelation factor (ABP120) rod. <i>Nature Structural Biology</i> , 1999, 6, 836-841.	9.7	57
31	Dissociation of Intact Escherichia coli Ribosomes in a Mass Spectrometer. <i>Journal of Biological Chemistry</i> , 2003, 278, 1259-1267.	3.4	49
32	Ribosomal crystallography: Peptide bond formation and its inhibition. <i>Biopolymers</i> , 2003, 70, 19-41.	2.4	41
33	Probing Side-Chain Dynamics of a Ribosome-Bound Nascent Chain Using Methyl NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2009, 131, 8366-8367.	13.7	37
34	The Novel Aminomethylcycline Omadacycline Has High Specificity for the Primary Tetracycline-Binding Site on the Bacterial Ribosome. <i>Antibiotics</i> , 2016, 5, 32.	3.7	33
35	Structure, Dynamics and Folding of an Immunoglobulin Domain of the Gelation Factor (ABP-120) from Dictyostelium discoideum. <i>Journal of Molecular Biology</i> , 2009, 388, 865-879.	4.2	32
36	Structural Characterization of an Alternative Mode of Tigecycline Binding to the Bacterial Ribosome. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 2849-2854.	3.2	32

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37	Molecular architecture of the rod domain of the Dictyostelium gelation factor (ABP120). Journal of Molecular Biology, 1999, 291, 1017-1023.	4.2	29
38	Mass Spectrometry Defines the Stoichiometry of Ribosomal Stalk Complexes across the Phylogenetic Tree. Molecular and Cellular Proteomics, 2010, 9, 1774-1783.	3.8	29
39	RsgA couples the maturation state of the 30S ribosomal decoding center to activation of its GTPase pocket. Nucleic Acids Research, 2017, 45, 6945-6959.	14.5	29
40	Inhibition of translation initiation complex formation by GE81112 unravels a 16S rRNA structural switch involved in P-site decoding. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2286-95.	7.1	28
41	Structure of a 30S pre-initiation complex stalled by GE81112 reveals structural parallels in bacterial and eukaryotic protein synthesis initiation pathways. Nucleic Acids Research, 2017, 45, gkw1251.	14.5	23
42	A conserved rRNA switch is central to decoding site maturation on the small ribosomal subunit. Science Advances, 2021, 7, .	10.3	23
43	Crystallographic characterization of the ribosomal binding site and molecular mechanism of action of Hygromycin A. Nucleic Acids Research, 2015, 43, gkv975.	14.5	15
44	Location of the binding site of the mannose-specific lectin comitin on F-actin 1 Edited by I. B. Holland. Journal of Molecular Biology, 1998, 284, 1255-1263.	4.2	11
45	Detecting Specific Ligand Binding to Nucleic Acids: A Test for Ultrasoft Laser Mass Spectrometry. Zeitschrift Fur Physikalische Chemie, 2007, 221, 689-704.	2.8	9
46	Crystallization and Preliminary X-Ray Diffraction Characterization of a Dimerizing Fragment of the Rod Domain of the Dictyostelium Gelation Factor (ABP-120). Journal of Structural Biology, 1997, 120, 192-195.	2.8	5
47	Backbone and sidechain NMR assignments for the ribosome maturation factor RimP from Escherichia coli. Biomolecular NMR Assignments, 2020, 14, 189-193.	0.8	4
48	Structural insights into Pseudomonas aeruginosa Type six secretion system exported effector 8. Journal of Structural Biology, 2020, 212, 107651.	2.8	3
49	Histone mRNA is subject to 3' uridylation and 5' adenylation in <i>Aspergillus nidulans</i> . Molecular Microbiology, 2021, 115, 238-254.	2.5	3
50	Backbone and sidechain NMR assignments for the ribosome maturation factor RbfA from Escherichia coli. Biomolecular NMR Assignments, 2020, 14, 317-321.	0.8	1
51	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 ETQq1 1 0.784314rgBT /Overlock 10 T		
52	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