Pascale Romby

List of Publications by Year
in descending order

109 papers	8,470 citations	41339 49 h-index	48312 88 g-index
118 all docs	118 docs citations	118 times ranked	5457 citing authors

#	Article	IF	Citations
1	Probing the structure of RNAs in solution. Nucleic Acids Research, 1987, 15, 9109-9128.	14.5	751
2	Small RNAs in Bacteria and Archaea. Advances in Genetics, 2015, 90, 133-208.	1.8	462
3	Staphylococcus aureus RNAIII coordinately represses the synthesis of virulence factors and the transcription regulator Rot by an antisense mechanism. Genes and Development, 2007, 21, 1353-1366.	5.9	411
4	Staphylococcus aureus RNAIII and the endoribonuclease III coordinately regulate spa gene expression. EMBO Journal, 2005, 24, 824-835.	7.8	308
5	The Structure of Threonyl-tRNA Synthetase-tRNAThr Complex Enlightens Its Repressor Activity and Reveals an Essential Zinc Ion in the Active Site. Cell, 1999, 97, 371-381.	28.9	291
6	12 Antisense RNAs in bacteria and their genetic elements. Advances in Genetics, 2002, 46, 361-398.	1.8	213
7	The cspA mRNA Is a Thermosensor that Modulates Translation of the Cold-Shock Protein CspA. Molecular Cell, 2010, 37, 21-33.	9.7	212
8	A search for small noncoding RNAs in Staphylococcus aureus reveals a conserved sequence motif for regulation. Nucleic Acids Research, 2009, 37, 7239-7257.	14.5	200
9	Transfer RNAâ€“Mediated Editing in Threonyl-tRNA Synthetase. Cell, 2000, 103, 877-884.	28.9	175
10	The role of RNAs in the regulation of virulence-gene expression. Current Opinion in Microbiology, 2006, 9, 229-236.	5.1	174
11	RNA-Mediated Regulation in Pathogenic Bacteria. Cold Spring Harbor Perspectives in Medicine, 2013, 3, a010298-a010298.	6.2	157
12	<i>Staphylococcus aureus</i> RNAIII and Its Regulon Link Quorum Sensing, Stress Responses, Metabolic Adaptation, and Regulation of Virulence Gene Expression. Annual Review of Microbiology, 2016, 70, 299-316.	7.3	153
13	Probing the structure of RNAIII, the Staphylococcus aureus agr regulatory RNA, and identification of the RNA domain involved in repression of protein A expression. Rna, 2000, 6, 668-679.	3.5	152
14	Escherichia coli Ribosomal Protein S1 Unfolds Structured mRNAs Onto the Ribosome for Active Translation Initiation. PLoS Biology, 2013, 11, e1001731.	5.6	151
15	Computer modeling from solution data of spinach chloroplast and of Xenopus laevis somatic and oocyte 5 S rRNAs. Journal of Molecular Biology, 1989, 207, 417-431.	4.2	144
16	Zinc ion mediated amino acid discrimination by threonyl-tRNA synthetase. Nature Structural Biology, 2000, 7, 461-465.	9.7	139
17	Yeast tRNAAsp tertiary structure in solution and areas of interaction of the tRNA with aspartyl-tRNA synthetase. Journal of Molecular Biology, 1985, 184, 455-471.	4.2	129
18	RNA loopâ€“loop interactions as dynamic functional motifs. Biochimie, 2002, 84, 925-944.	2.6	129

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19	Structured mRNAs Regulate Translation Initiation by Binding to the Platform of the Ribosome. Cell, 2007, 130, 1019-1031.	28.9	129
20	Global Regulatory Functions of the Staphylococcus aureus Endoribonuclease III in Gene Expression. PLoS Genetics, 2012, 8, e1002782.	3.5	128
21	The Staphylococcus aureus RNome and Its Commitment to Virulence. PLoS Pathogens, 2011, 7, e1002006.	4.7	123
22	Base Pairing Interaction between 5â€²- and 3â€²-UTRs Controls icaR mRNA Translation in Staphylococcus aureus. PLoS Genetics, 2013, 9, e1004001.	3.5	123
23	[1] Probing RNA structure and RNA-ligand complexes with chemical probes. Methods in Enzymology, 2000, 318, 3-21.	1.0	122
24	Cartography of Methicillin-Resistant S. aureus Transcripts: Detection, Orientation and Temporal Expression during Growth Phase and Stress Conditions. PLoS ONE, 2010, 5, e10725.	2.5	119
25	A Non-Coding RNA Promotes Bacterial Persistence and Decreases Virulence by Regulating a Regulator in Staphylococcus aureus. PLoS Pathogens, 2014, 10, e1003979.	4.7	110
26	Staphylococcus aureus RNAIII Binds to Two Distant Regions of coa mRNA to Arrest Translation and Promote mRNA Degradation. PLoS Pathogens, 2010, 6, e1000809.	4.7	108
27	Binding of Escherichia coli ribosomal protein S8 to 16 S rRNA. Journal of Molecular Biology, 1987, 198, 91-107.	4.2	99
28	Translational Operator of mRNA on the Ribosome: How Repressor Proteins Exclude Ribosome Binding. Science, 2005, 308, 120-123.	12.6	99
29	Three-dimensional model of Escherichia coli ribosomal 5 S RNA as deduced from structure probing in solution and computer modeling. Journal of Molecular Biology, 1991, 221, 293-308.	4.2	96
30	Use of Lead(II) to Probe the Structure of Large RNA's. Conformation of the 3â€² Terminal Domain ofE. coli16S rRNA and its Involvement in Building the tRNA Binding Sites. Journal of Biomolecular Structure and Dynamics, 1989, 6, 971-984.	3.5	94
31	An overview of RNAs with regulatory functions in gram-positive bacteria. Cellular and Molecular Life Sciences, 2010, 67, 217-237.	5.4	93
32	The Crc global regulator binds to an unpaired A-rich motif at the Pseudomonas putida alkS mRNA coding sequence and inhibits translation initiation. Nucleic Acids Research, 2009, 37, 7678-7690.	14.5	90
33	Escherichia coli threonyl-tRNA synthetase and tRNAThr modulate the binding of the ribosome to the translational initiation site of the ThrS mRNA. Journal of Molecular Biology, 1990, 216, 299-310.	4.2	84
34	Comparison of the tertiary structure of yeast tRNAAsp and tRNAPhe in solution. Journal of Molecular Biology, 1987, 195, 193-204.	4.2	83
35	sRNA and mRNA turnover in Gram-positive bacteria. FEMS Microbiology Reviews, 2015, 39, 316-330.	8.6	79
36	Bacterial translational control at atomic resolution. Trends in Genetics, 2003, 19, 155-161.	6.7	76

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37	A PNPase Dependent CRISPR System in Listeria. PLoS Genetics, 2014, 10, e1004065.	3.5	76
38	A Nitric Oxide Regulated Small RNA Controls Expression of Genes Involved in Redox Homeostasis in Bacillus subtilis. PLoS Genetics, 2015, 11, e1004957.	3.5	73
39	RsaC sRNA modulates the oxidative stress response of Staphylococcus aureus during manganese starvation. Nucleic Acids Research, 2019, 47, 9871-9887.	14.5	71
40	Lead(II) as a probe for investigating RNA structure in vivo. Rna, 2002, 8, 534-541.	3.5	70
41	Antisense RNA Control of Plasmid R1 Replication. Journal of Biological Chemistry, 1997, 272, 12508-12512.	3.4	69
42	An unusual structure formed by antisense-target RNA binding involves an extended kissing complex with a four-way junction and a side-by-side helical alignment. Rna, 2000, 6, 311-324.	3.5	66
43	The role of mRNA structure in translational control in bacteria. RNA Biology, 2009, 6, 153-160.	3.1	63
44	Importance of Conserved Residues for the Conformation of the T-Loop in tRNAs. Journal of Biomolecular Structure and Dynamics, 1987, 5, 669-687.	3.5	60
45	Higher order structure of chloroplastic 5S ribosomal RNA from spinach. Biochemistry, 1988, 27, 4721-4730.	2.5	56
46	High affinity nucleic acid aptamers for streptavidin incorporated into bi-specific capture ligands. Nucleic Acids Research, 2002, 30, 45e-45.	14.5	56
47	Structural basis of translational control by Escherichia coli threonyl tRNA synthetase. Nature Structural Biology, 2002, 9, 343-7.	9.7	56
48	A comparison of the solution structures and conformational properties of the somatic and oocyte 5S rRNAs ofXenopus laevis. Nucleic Acids Research, 1988, 16, 2295-2312.	14.5	55
49	Higher-order structure of domain III in Escherichia coli 16S ribosomal RNA, 30S subunit and 70S ribosome. Biochimie, 1987, 69, 1081-1096.	2.6	50
50	Novel aspects of RNA regulation in <i>Staphylococcus aureus</i>. FEBS Letters, 2014, 588, 2523-2529.	2.8	49
51	Current knowledge on regulatory RNAs and their machineries in<i>Staphylococcus aureus</i>. RNA Biology, 2012, 9, 402-413.	3.1	47
52	A multifaceted small <scp>RNA</scp> modulates gene expression upon glucose limitation in <i>Staphylococcus aureus</i>. EMBO Journal, 2019, 38, .	7.8	44
53	sRNA-mediated activation of gene expression by inhibition of 5'-3â€™ exonucleolytic mRNA degradation. ELife, 2017, 6, .	6.0	43
54	Involvement of â€œhingeâ€•nucleotides of Xenopus laevis 5 S rRNA in the RNA structural organization and in the binding of transcription factor TFIIIA. Journal of Molecular Biology, 1991, 218, 69-81.	4.2	41

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55	Molecular mimicry in translational control ofE.colithreonyl-tRNA synthetase gene. Competitive inhibition in tRNA aminoacylation and operator-repressor recognition switch using tRNA identity rules. Nucleic Acids Research, 1992, 20, 5633-5640.	14.5	41
56	Replication control of plasmid R1: disruption of an inhibitory RNA structure that sequesters the repA ribosome-binding site permits tap-independent RepA synthesis. Molecular Microbiology, 1994, 12, 49-60.	2.5	41
57	TheEscherichia colithreonyl-tRNA synthetase gene contains a split ribosomal binding site interrupted by a hairpin structure that is essential for autoregulation. Molecular Microbiology, 1998, 29, 1077-1090.	2.5	41
58	The importance of regulatory RNAs in Staphylococcus aureus. Infection, Genetics and Evolution, 2014, 21, 616-626.	2.3	41
59	The RNA targetome of Staphylococcus aureus non-coding RNA RsaA: impact on cell surface properties and defense mechanisms. Nucleic Acids Research, 2017, 45, 6746-6760.	14.5	41
60	Structure of the 70S ribosome from human pathogen<i>Staphylococcus aureus</i>. Nucleic Acids Research, 2016, 44, gkw933.	14.5	39
61	Tertiary structure of animal tRNATrp in solution and interaction of tRNATrp with tryptophanyl-tRNA synthetase. FEBS Journal, 1984, 138, 67-75.	0.2	36
62	The Drosophila Modifier of Variegationmodulo Gene Product Binds Specific RNA Sequences at the Nucleolus and Interacts with DNA and Chromatin in a Phosphorylation-dependent Manner. Journal of Biological Chemistry, 1999, 274, 6315-6323.	3.4	36
63	Two novel members of the LhrC family of small RNAs in <i>Listeria monocytogenes</i> with overlapping regulatory functions but distinctive expression profiles. RNA Biology, 2016, 13, 895-915.	3.1	36
64	Interaction of tRNAPhe and tRNAVal with Aminoacyl-tRNA Synthetases. A Chemical Modication Study. FEBS Journal, 1983, 132, 537-544.	0.2	35
65	Ribosomal Initiation Complexes Probed by Toeprinting and Effect of trans-Acting Translational Regulators in Bacteria. Methods in Molecular Biology, 2009, 540, 247-263.	0.9	35
66	RNA-mediated regulation in bacteria: from natural to artificial systems. New Biotechnology, 2010, 27, 222-235.	4.4	35
67	Four-way Junctions in Antisense RNA-mRNA Complexes Involved in Plasmid Replication Control: A Common Theme?. Journal of Molecular Biology, 2001, 309, 605-614.	4.2	33
68	Probing the phosphates of the Escherichia coli ribosomal 16S RNA in its naked form, in the 30S subunit, and in the 70S ribosome. Biochemistry, 1989, 28, 5847-5855.	2.5	32
69	The Expression of Small Regulatory RNAs in Clinical Samples Reflects the Different Life Styles of Staphylococcus aureus in Colonization vs. Infection. PLoS ONE, 2012, 7, e37294.	2.5	32
70	Interactions between avian myeloblastosis reverse transcriptase and tRNATrp. Mapping of complexed tRNA with chemicals and nucleases. Nucleic Acids Research, 1984, 12, 2259-2271.	14.5	31
71	The modular structure of Escherichia coli threonyl-tRNA synthetase as both an enzyme and a regulator of gene expression. Molecular Microbiology, 2003, 47, 961-974.	2.5	30
72	Solution confomation of several free tRNALeuspecies from bean, yeast andEscherichia coliand interaction of these tRNAs with bean cytoplasmic Leucyl-tRNA synthetase. A phosphate alkylation study with ethylnitrosourea. Nucleic Acids Research, 1990, 18, 2589-2597.	14.5	29

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73	Implications of RNA Structure on the Annealing of a Potent Antisense RNA Directed against the Human Immunodeficiency Virus Type 1. Biochemistry, 1997, 36, 12711-12721.	2.5	29
74	Anticodon-anticodon interactions in solution. Journal of Molecular Biology, 1985, 184, 107-118.	4.2	28
75	The power of cooperation: Experimental and computational approaches in the functional characterization of bacterial sRNAs. Molecular Microbiology, 2020, 113, 603-612.	2.5	27
76	Yeast tRNAAsp-Aspartyl-tRNA Synthetase: The Crystalline Complex. Journal of Biomolecular Structure and Dynamics, 1983, 1, 209-223.	3.5	26
77	Effect of mutations in domain 2 on the structural organization of oocyte 5 S rRNA from Xenopus laevis. Journal of Molecular Biology, 1990, 215, 103-111.	4.2	25
78	Probing mRNA Structure and sRNAâ€"mRNA Interactions in Bacteria Using Enzymes and Lead(II). Methods in Molecular Biology, 2009, 540, 215-232.	0.9	24
79	Structural studies on site-directed mutants of domain 3 of Xenopus laevis oocyte 5 S ribosomal RNA. Journal of Molecular Biology, 1991, 219, 243-255.	4.2	22
80	RNA switches regulate initiation of translation in bacteria. Biological Chemistry, 2008, 389, 585-598.	2.5	22
81	Chapter 16 Staphylococcus aureus Endoribonuclease III. Methods in Enzymology, 2008, 447, 309-327.	1.0	22
82	Loop-loop interactions involved in antisense regulation are processed by the endoribonuclease III in<i>Staphylococcus aureus</i>. RNA Biology, 2012, 9, 1461-1472.	3.1	22
83	A defense-offense multi-layered regulatory switch in a pathogenic bacterium. Nucleic Acids Research, 2015, 43, 1357-1369.	14.5	22
84	When Ribonucleases Come into Play in Pathogens: A Survey of Gram-Positive Bacteria. International Journal of Microbiology, 2012, 2012, 1-18.	2.3	21
85	Crosslinking of transcription factor TFIIIA to ribosomal 5S RNA fromX.laevisbytrans-diamminedichloroplatinum (II). Nucleic Acids Research, 1989, 17, 10035-10046.	14.5	20
86	A Novel Approach to Introduce Site-Directed Specific Cross-Links Within RNA-Protein Complexes. Application to the Escherichia Coli Threonyl-tRNA Synthetase/Translational Operator Complex. FEBS Journal, 1995, 231, 726-735.	0.2	20
87	Mapping post-transcriptional modifications in Staphylococcus aureus tRNAs by nanoLC/MSMS. Biochimie, 2019, 164, 60-69.	2.6	19
88	Studies on Anticodon-anticodon Interactions: Hemi-protonation of Cytosines Induces Self-pairing Through the GCC Anticodon ofE. ColitRNA-Gly. Journal of Biomolecular Structure and Dynamics, 1986, 4, 193-203.	3.5	18
89	Binding of initiation factor 2 and initiator tRNA to the Escherichia coli 30S ribosomal subunit induces allosteric transitions in 16S rRNA. Biochemistry, 1990, 29, 8144-8151.	2.5	18
90	In vivo mapping of RNAâ€"RNA interactions in Staphylococcus aureus using the endoribonuclease III. Methods, 2013, 63, 135-143.	3.8	18

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91	Complete Genome Sequence and Annotation of the Staphylococcus aureus Strain HG001. Genome Announcements, 2017, 5, .	0.8	17
92	RNA Modifications in Pathogenic Bacteria: Impact on Host Adaptation and Virulence. Genes, 2021, 12, 1125.	2.4	16
93	Characterization and footprint analysis of two 5S rRNA binding proteins from spinach chloroplast ribosomes. Biochemistry, 1989, 28, 5840-5846.	2.5	15
94	The 3â€²UTRâ€derived sRNA RsaG coordinates redox homeostasis and metabolism adaptation in response to glucoseâ€6â€phosphate uptake in <i>Staphylococcus aureus</i>. Molecular Microbiology, 2022, 117, 193-214.	2.5	15
95	Probing RNA Structures with Enzymes and ChemicalsIn Vitro andIn Vivo. , 0, , 151-171.		14
96	Translational control in E. coli: The case of threonyl-tRNA synthetase. Bioscience Reports, 1988, 8, 619-632.	2.4	13
97	Modulatory Role of Modified Nucleotides in RNA Loop-Loop Interaction. , 0, , 113-133.		13
98	The translational regulation of threonyl-tRNA synthetase. Functional relationship between the enzyme, the cognate tRNA and the ribosome. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1990, 1050, 343-350.	2.4	10
99	A method to map changes in bacterial surface composition induced by regulatory RNAs in Escherichia coli and Staphylococcus aureus. Biochimie, 2014, 106, 175-179.	2.6	8
100	Various checkpoints prevent the synthesis ofStaphylococcus aureuspeptidoglycan hydrolase LytM in the stationary growth phase. RNA Biology, 2016, 13, 427-440.	3.1	8
101	The conformation of the initiator tRNA and of the 16S rRNA from Escherichia coli during the formation of the 30S initiation complex. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1990, 1050, 84-92.	2.4	7
102	Stabilization of Ribosomal RNA of the Small Subunit by Spermidine in Staphylococcus aureus. Frontiers in Molecular Biosciences, 2021, 8, 738752.	3.5	7
103	Mutations in Residues Involved in Zinc Binding in the Catalytic Site of <i>Escherichia coli</i> Threonyl-tRNA Synthetase Confer a Dominant Lethal Phenotype. Journal of Bacteriology, 2007, 189, 6839-6848.	2.2	5
104	A Current Overview of Regulatory RNAs in Staphylococcus Aureus. , 2012, , 51-75.		3
105	Secondary structure of the Escherichia coli translational operator of threonyl-tRNA synthetase and relationship to its function. Gene, 1988, 72, 187-188.	2.2	1
106	Traditional Chemical Mapping of RNA Structure In Vitro and In Vivo. Methods in Molecular Biology, 2016, 1490, 83-103.	0.9	1
107	Correlation Between Crystal and Solution Structures in tRNA. Yeast tRNAPhe and tRNAAsp the Models for Free and Messenger RNA Bound tRNAs. , 1986, , 125-136.		1
108	Translational Control in E.Coli: The Case of Threonyl-tRNA Synthetase. , 1988, , 463-478.		1

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109	A glimpse at long regulatory RNAs in various organisms. Biochimie, 2015, 117, 1-2.	2.6	0