

Pierre Barraud

List of Publications by Year in descending order

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45
papers

1,345
citations

394390

19
h-index

377849

34
g-index

47
all docs

47
docs citations

47
times ranked

1938
citing authors

#	ARTICLE	IF	CITATIONS
1	RNA recognition by double-stranded RNA binding domains: a matter of shape and sequence. <i>Cellular and Molecular Life Sciences</i> , 2013, 70, 1875-95.	5.4	189
2	m1A Post-transcriptional Modification in tRNAs. <i>Biomolecules</i> , 2017, 7, 20.	4.0	108
3	ADAR Proteins: Double-stranded RNA and Z-DNA Binding Domains. <i>Current Topics in Microbiology and Immunology</i> , 2011, 353, 35-60.	1.1	76
4	Tandem hnRNP A1 RNA recognition motifs act in concert to repress the splicing of survival motor neuron exon 7. <i>ELife</i> , 2017, 6, .	6.0	72
5	A bimodular nuclear localization signal assembled via an extended double-stranded RNA-binding domain acts as an RNA-sensing signal for transportin 1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E1852-61.	7.1	70
6	Solution structure of the two RNA recognition motifs of hnRNP A1 using segmental isotope labeling: how the relative orientation between RRM influences the nucleic acid binding topology. <i>Journal of Biomolecular NMR</i> , 2013, 55, 119-138.	2.8	61
7	RNAi keeps Atf1-bound stress response genes in check at nuclear pores. <i>Genes and Development</i> , 2012, 26, 683-692.	5.9	53
8	Time-resolved NMR monitoring of tRNA maturation. <i>Nature Communications</i> , 2019, 10, 3373.	12.8	53
9	Crystal Structure of <i>Thermus thermophilus</i> tRNA m1A58 Methyltransferase and Biophysical Characterization of Its Interaction with tRNA. <i>Journal of Molecular Biology</i> , 2008, 377, 535-550.	4.2	49
10	To be or not to be modified: Miscellaneous aspects influencing nucleotide modifications in tRNAs. <i>IUBMB Life</i> , 2019, 71, 1126-1140.	3.4	46
11	A unique conformation of the anticodon stem-loop is associated with the capacity of tRNA ^{fMet} to initiate protein synthesis. <i>Nucleic Acids Research</i> , 2008, 36, 4894-4901.	14.5	45
12	An extended dsRBD with a novel zinc-binding motif mediates nuclear retention of fission yeast Dicer. <i>EMBO Journal</i> , 2011, 30, 4223-4235.	7.8	45
13	Advances in the Structural Understanding of Vif Proteins. <i>Current HIV Research</i> , 2008, 6, 91-99.	0.5	42
14	New insights into the formation of HIV-1 reverse transcription initiation complex. <i>Biochimie</i> , 2007, 89, 1204-1210.	2.6	37
15	Initiation of HIV-1 reverse transcription and functional role of nucleocapsid-mediated tRNA/viral genome interactions. <i>Virus Research</i> , 2012, 169, 324-339.	2.2	37
16	A strong ¹³ C chemical shift signature provides the coordination mode of histidines in zinc-binding proteins. <i>Journal of Biomolecular NMR</i> , 2012, 53, 93-101.	2.8	32
17	Functions of double-stranded RNA-binding domains in nucleocytoplasmic transport. <i>RNA Biology</i> , 2014, 11, 1226-1232.	3.1	28
18	Instrumental analysis of RNA modifications. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2021, 56, 178-204.	5.2	26

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19	Bisubstrate analogues as structural tools to investigate m ⁶ A methyltransferase active sites. <i>RNA Biology</i> , 2019, 16, 798-808.	3.1	24
20	The m1A58 modification in eubacterial tRNA: An overview of tRNA recognition and mechanism of catalysis by TrmI. <i>Biophysical Chemistry</i> , 2016, 210, 27-34.	2.8	20
21	Molecular basis for transfer RNA recognition by the double-stranded RNA-binding domain of human dihydrouridine synthase 2. <i>Nucleic Acids Research</i> , 2019, 47, 3117-3126.	14.5	20
22	Structural comparison of tRNA m1A58 methyltransferases revealed different molecular strategies to maintain their oligomeric architecture under extreme conditions. <i>BMC Structural Biology</i> , 2011, 11, 48.	2.3	18
23	Solution structure of the N-terminal dsRBD of Drosophila ADAR and interaction studies with RNA. <i>Biochimie</i> , 2012, 94, 1499-1509.	2.6	18
24	Dynamics of Linker Residues Modulate the Nucleic Acid Binding Properties of the HIV-1 Nucleocapsid Protein Zinc Fingers. <i>PLoS ONE</i> , 2014, 9, e102150.	2.5	15
25	Large expert-curated database for benchmarking document similarity detection in biomedical literature search. <i>Database: the Journal of Biological Databases and Curation</i> , 2019, 2019, .	3.0	15
26	Comparative analyses of the thermodynamic RNA binding signatures of different types of RNA recognition motifs. <i>Nucleic Acids Research</i> , 2017, 45, 6037-6050.	14.5	14
27	Benefits of stable isotope labeling in RNA analysis. <i>Biological Chemistry</i> , 2019, 400, 847-865.	2.5	14
28	Structures of B.Âsubtilis Maturation RNases Captured on 50S Ribosome with Pre-rRNAs. <i>Molecular Cell</i> , 2020, 80, 227-236.e5.	9.7	12
29	Overview of the Nucleic-Acid Binding Properties of the HIV-1 Nucleocapsid Protein in Its Different Maturation States. <i>Viruses</i> , 2020, 12, 1109.	3.3	11
30	Transportin-1: A Nuclear Import Receptor with Moonlighting Functions. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 638149.	3.5	11
31	The Interaction between tRNA ^{Lys3} and the Primer Activation Signal Deciphered by NMR Spectroscopy. <i>PLoS ONE</i> , 2013, 8, e64700.	2.5	10
32	Structural characterization of B. subtilis m1A22 tRNA methyltransferase TrmK: insights into tRNA recognition. <i>Nucleic Acids Research</i> , 2019, 47, 4736-4750.	14.5	9
33	The NMR signature of gluconoylation: a frequent N-terminal modification of isotope-labeled proteins. <i>Journal of Biomolecular NMR</i> , 2019, 73, 71-79.	2.8	8
34	¹ H, ¹⁵ N chemical shift assignments of the imino groups of yeast tRNA ^{Phe} : influence of the post-transcriptional modifications. <i>Biomolecular NMR Assignments</i> , 2020, 14, 169-174.	0.8	8
35	DNA topoisomerase 3 is required for efficient germ cell quality control. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	8
36	Optimizing HSQC experiment for the observation of exchange broadened signals in RNAâ€‘protein complexes. <i>Comptes Rendus Chimie</i> , 2008, 11, 474-479.	0.5	7

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37	Modulation of the HIV nucleocapsid dynamics finely tunes its RNA-binding properties during virion genesis. <i>Nucleic Acids Research</i> , 2018, 46, 9699-9710.	14.5	6
38	Conformational Stability Adaptation of a Double-Stranded RNA-Binding Domain to Transfer RNA Ligand. <i>Biochemistry</i> , 2019, 58, 2463-2473.	2.5	5
39	<i>Caenorhabditis elegans</i> RMI2 functional homolog-2 (RMIF-2) and RMI1 (RMH-1) have both overlapping and distinct meiotic functions within the BTR complex. <i>PLoS Genetics</i> , 2021, 17, e1009663.	3.5	5
40	Preparation of Yeast tRNA Sample for NMR Spectroscopy. <i>Bio-protocol</i> , 2020, 10, e3646.	0.4	5
41	Synthesis of RNA-cofactor conjugates and structural exploration of RNA recognition by an m6A RNA methyltransferase. <i>Nucleic Acids Research</i> , 2022, 50, 5793-5806.	14.5	4
42	A Method to Monitor the Introduction of Posttranscriptional Modifications in tRNAs with NMR Spectroscopy. <i>Methods in Molecular Biology</i> , 2021, 2298, 307-323.	0.9	3
43	Backbone resonance assignments of the m1A22 tRNA methyltransferase TrmK from <i>Bacillus subtilis</i> . <i>Biomolecular NMR Assignments</i> , 2016, 10, 253-257.	0.8	2
44	Design of cross-linked RNA/protein complexes for structural studies. <i>Biochimie</i> , 2019, 164, 95-98.	2.6	1
45	Structural studies of RNase M5 reveal two-metal-ion supported two-step dsRNA cleavage for 5S rRNA maturation. <i>RNA Biology</i> , 2021, 18, 1-11.	3.1	1