

Bruno Charpentier

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8596130/publications.pdf>

Version: 2024-02-01

43
papers

1,651
citations

361296
20
h-index

289141
40
g-index

45
all docs

45
docs citations

45
times ranked

1482
citing authors

#	ARTICLE	IF	CITATIONS
1	A Common Core RNP Structure Shared between the Small Nucleolar Box C/D RNPs and the Spliceosomal U4 snRNP. <i>Cell</i> , 2000, 103, 457-466.	13.5	318
2	The Hsp90 chaperone controls the biogenesis of L7Ae RNPs through conserved machinery. <i>Journal of Cell Biology</i> , 2008, 180, 579-595.	2.3	196
3	RNomics in Archaea reveals a further link between splicing of archaeal introns and rRNA processing. <i>Nucleic Acids Research</i> , 2002, 30, 921-930.	6.5	124
4	Reconstitution of archaeal H/ACA small ribonucleoprotein complexes active in pseudouridylation. <i>Nucleic Acids Research</i> , 2005, 33, 3133-3144.	6.5	115
5	Crystal structure determination and site-directed mutagenesis of the <i>Pyrococcus abyssi</i> aCBF5-aNOP10 complex reveal crucial roles of the C-terminal domains of both proteins in H/ACA sRNP activity. <i>Nucleic Acids Research</i> , 2006, 34, 826-839.	6.5	72
6	A structural, phylogenetic, and functional study of 15.5-kD/Snu13 protein binding on U3 small nucleolar RNA. <i>Rna</i> , 2003, 9, 821-838.	1.6	59
7	The RPAP3-Cterminal domain identifies R2TP-like quaternary chaperones. <i>Nature Communications</i> , 2018, 9, 2093.	5.8	59
8	Proteomic and 3D structure analyses highlight the C/D box snoRNP assembly mechanism and its control. <i>Journal of Cell Biology</i> , 2014, 207, 463-480.	2.3	57
9	NUFIP and the HSP90/R2TP chaperone bind the SMN complex and facilitate assembly of U4-specific proteins. <i>Nucleic Acids Research</i> , 2015, 43, 8973-8989.	6.5	49
10	Combined in silico and experimental identification of the <i>Pyrococcus abyssi</i> H/ACA sRNAs and their target sites in ribosomal RNAs. <i>Nucleic Acids Research</i> , 2008, 36, 2459-2475.	6.5	44
11	High-Resolution Structural Analysis Shows How Tah1 Tethers Hsp90 to the R2TP Complex. <i>Structure</i> , 2013, 21, 1834-1847.	1.6	42
12	A dynamic in Vivo view of the HIV-1Rev-RRE interaction. <i>Journal of Molecular Biology</i> , 1997, 266, 950-962.	2.0	39
13	The strong efficiency of the <i>Escherichia coli</i> gapA P1 promoter depends on a complex combination of functional determinants. <i>Biochemical Journal</i> , 2004, 383, 371-382.	1.7	38
14	Protein Hit1, a novel box C/D snoRNP assembly factor, controls cellular concentration of the scaffolding protein Rsa1 by direct interaction. <i>Nucleic Acids Research</i> , 2014, 42, 10731-10747.	6.5	37
15	Deep Structural Analysis of RPAP3 and PIH1D1, Two Components of the HSP90 Co-chaperone R2TP Complex. <i>Structure</i> , 2018, 26, 1196-1209.e8.	1.6	36
16	Identification of determinants in the protein partners aCBF5 and aNOP10 necessary for the tRNA:Â55-synthase and RNA-guided RNA:Â-synthase activities. <i>Nucleic Acids Research</i> , 2007, 35, 5610-5624.	6.5	35
17	Characterization of the interaction between protein Snu13p/15.5K and the Rsa1p/NUFIP factor and demonstration of its functional importance for snoRNP assembly. <i>Nucleic Acids Research</i> , 2014, 42, 2015-2036.	6.5	34
18	The sRNA RyhB Regulates the Synthesis of the <i>Escherichia coli</i> Methionine Sulfoxide Reductase MsrB but Not MsrA. <i>PLoS ONE</i> , 2013, 8, e63647.	1.1	29

#	ARTICLE	IF	CITATIONS
19	Characterization of the molecular mechanisms involved in the differential production of erythrose-4-phosphate dehydrogenase, 3-phosphoglycerate kinase and class II fructose-1,6-bisphosphate aldolase in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2005, 57, 1265-1287.	1.2	22
20	Structure/Function Analysis of Protein-Protein Interactions Developed by the Yeast Pih1 Platform Protein and Its Partners in Box C/D snoRNP Assembly. <i>Journal of Molecular Biology</i> , 2015, 427, 2816-2839.	2.0	22
21	Functional and Structural Insights of the Zinc-Finger HIT protein family members Involved in Box C/D snoRNP Biogenesis. <i>Journal of Molecular Biology</i> , 2016, 428, 2488-2506.	2.0	20
22	Implication of the box C/D snoRNP assembly factor Rsa1p in U3 snoRNP assembly. <i>Nucleic Acids Research</i> , 2017, 45, 7455-7473.	6.5	17
23	MicroRNA-29b Contributes to Collagens Imbalance in Human Osteoarthritic and Dedifferentiated Articular Chondrocytes. <i>BioMed Research International</i> , 2017, 2017, 1-12.	0.9	17
24	Bcd1p controls RNA loading of the core protein Nop58 during C/D box snoRNP biogenesis. <i>Rna</i> , 2019, 25, 496-506.	1.6	16
25	The yeast C/D box snoRNA U14 adopts a weak-K-turn like conformation recognized by the Snu13 core protein in solution. <i>Biochimie</i> , 2019, 164, 70-82.	1.3	16
26	Structural Features of the Box C/D snoRNP Pre-assembly Process Are Conserved through Species. <i>Structure</i> , 2016, 24, 1693-1706.	1.6	15
27	NOPCHAP1 is a PAQosome cofactor that helps loading NOP58 on RUVBL1/2 during box C/D snoRNP biogenesis. <i>Nucleic Acids Research</i> , 2021, 49, 1094-1113.	6.5	14
28	A Dedicated Computational Approach for the Identification of Archaeal H/ACA sRNAs. <i>Methods in Enzymology</i> , 2007, 425, 355-387.	0.4	13
29	Phylogenetic and Molecular Analyses Identify SNORD116 Targets Involved in the Prader-Willi Syndrome. <i>Molecular Biology and Evolution</i> , 2022, 39, .	3.5	13
30	Purification, crystallization and preliminary X-ray diffraction data of L7Ae sRNP core protein from <i>Pyrococcus abyssi</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 122-124.	2.5	12
31	Comparative Study of Two Box H/ACA Ribonucleoprotein Pseudouridine-Synthases: Relation between Conformational Dynamics of the Guide RNA, Enzyme Assembly and Activity. <i>PLoS ONE</i> , 2013, 8, e70313.	1.1	11
32	Reconstitution of Archaeal H/ACA sRNPs and Test of their Activity. <i>Methods in Enzymology</i> , 2007, 425, 389-405.	0.4	10
33	Combining native MS approaches to decipher archaeal box H/ACA ribonucleoprotein particle structure and activity. <i>Proteomics</i> , 2015, 15, 2851-2861.	1.3	9
34	Emerging Data on the Diversity of Molecular Mechanisms Involving C/D snoRNAs. <i>Non-coding RNA</i> , 2021, 7, 30.	1.3	9
35	¹ H, ¹⁵ N and ¹³ C resonance assignments of the two TPR domains from the human RPAP3 protein. <i>Biomolecular NMR Assignments</i> , 2015, 9, 99-102.	0.4	7
36	Contribution of protein Gar1 to the RNA-guided and RNA-independent rRNA:Î-synthase activities of the archaeal Cbf5 protein. <i>Scientific Reports</i> , 2018, 8, 13815.	1.6	7

#	ARTICLE	IF	CITATIONS
37	The interaction between RPAP3 and TRBP reveals a possible involvement of the HSP90/R2TP chaperone complex in the regulation of miRNA activity. <i>Nucleic Acids Research</i> , 2022, 50, 2172-2189.	6.5	4
38	Contribution of two conserved histidines to the dual activity of archaeal RNA guide-dependent and -independent pseudouridine synthase Cbf5. <i>Rna</i> , 2015, 21, 1233-1239.	1.6	3
39	¹ H, ¹⁵ N and ¹³ C resonance assignments of the yeast Pih1 and Tah1 C-terminal domains complex. <i>Biomolecular NMR Assignments</i> , 2015, 9, 71-73.	0.4	3
40	The box C/D snoRNP assembly factor Bcd1 interacts with the histone chaperone Rtt106 and controls its transcription dependent activity. <i>Nature Communications</i> , 2021, 12, 1859.	5.8	3
41	RNA size is a critical factor for U-containing substrate selectivity and permanent pseudouridylated product release during the RNA:î-synthase reaction catalyzed by box H/ACA sRNP enzyme at high temperature. <i>Biochimie</i> , 2015, 113, 134-142.	1.3	2
42	NMR assignment and solution structure of the external DII domain of the yeast Rvb2 protein. <i>Biomolecular NMR Assignments</i> , 2018, 12, 243-247.	0.4	1
43	Both pH and Carbon Flux Influence the Level of Rubredoxin in <i>Clostridium butyricum</i> . <i>Current Microbiology</i> , 2001, 43, 434-439.	1.0	0