## Heike Betat

List of Publications by Year in descending order

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HEIKE RETAT

#	Article	IF	CITATIONS
1	Crystal Structure of the Human CCA-adding Enzyme: Insights into Template-independent Polymerization. Journal of Molecular Biology, 2003, 328, 985-994.	4.2	71
2	tRNA nucleotidyltransferases: ancient catalysts with an unusual mechanism of polymerization. Cellular and Molecular Life Sciences, 2010, 67, 1447-1463.	5.4	62
3	Exchange of Regions between Bacterial Poly(A) Polymerase and the CCA-Adding Enzyme Generates Altered Specificities. Molecular Cell, 2004, 15, 389-398.	9.7	46
4	A comparative analysis of CCA-adding enzymes from human and E. coli: Differences in CCA addition and tRNA 3′-end repair. Biochimie, 2008, 90, 762-772.	2.6	42
5	Evolution of tRNA nucleotidyltransferases: A small deletion generated CC-adding enzymes. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7953-7958.	7.1	42
6	A tRNA's fate is decided at its 3′ end: Collaborative actions of CCA-adding enzyme and RNases involved in tRNA processing and degradation. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2018, 1861, 433-441.	1.9	41
7	The CCAâ€adding enzyme: A central scrutinizer in tRNA quality control. BioEssays, 2015, 37, 975-982.	2.5	35
8	Small but large enough: structural properties of armless mitochondrial tRNAs from the nematode Romanomermis culicivorax. Nucleic Acids Research, 2018, 46, 9170-9180.	14.5	35
9	From End to End: tRNA Editing at 5'- and 3'-Terminal Positions. International Journal of Molecular Sciences, 2014, 15, 23975-23998.	4.1	27
10	A comparative analysis of two conserved motifs in bacterial poly(A) polymerase and CCA-adding enzyme. Nucleic Acids Research, 2008, 36, 5212-5220.	14.5	25
11	Cold adaptation of tRNA nucleotidyltransferases: A tradeoff in activity, stability and fidelity. RNA Biology, 2018, 15, 144-155.	3.1	24
12	A simple and versatile microfluidic device for efficient biomacromolecule crystallization and structural analysis by serial crystallography. IUCrJ, 2019, 6, 454-464.	2.2	23
13	Hfq stimulates the activity of the CCA-adding enzyme. BMC Molecular Biology, 2007, 8, 92.	3.0	22
14	The identity of the discriminator base has an impact on CCA addition. Nucleic Acids Research, 2015, 43, 5617-5629.	14.5	22
15	LOTTE-seq (Long hairpin oligonucleotide based tRNA high-throughput sequencing): specific selection of tRNAs with 3'-CCA end for high-throughput sequencing. RNA Biology, 2020, 17, 23-32.	3.1	22
16	An inhibitory C-terminal region dictates the specificity of A-adding enzymes. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 21040-21045.	7.1	20
17	Examining tRNA 3′-ends in <i>Escherichia coli</i> : teamwork between CCA-adding enzyme, RNase T, and RNase R. Rna, 2018, 24, 361-370.	3.5	20
18	Unusual evolution of a catalytic core element in CCA-adding enzymes. Nucleic Acids Research, 2010, 38, 4436-4447.	14.5	19

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19	The ancestor of modern Holozoa acquired the CCA-adding enzyme from Alphaproteobacteria by horizontal gene transfer. Nucleic Acids Research, 2015, 43, 6739-6746.	14.5	14
20	Domain movements during CCA-addition: A new function for motif C in the catalytic core of the human tRNA nucleotidyltransferases. RNA Biology, 2015, 12, 435-446.	3.1	14
21	Combining crystallogenesis methods to produce diffraction-quality crystals of a psychrophilic tRNA-maturation enzyme. Acta Crystallographica Section F, Structural Biology Communications, 2018, 74, 747-753.	0.8	8
22	Dual expression of CCA-adding enzyme and RNase T in Escherichia coli generates a distinct cca growth phenotype with diverse applications. Nucleic Acids Research, 2019, 47, 3631-3639.	14.5	7
23	Adaptation of the Romanomermis culicivorax CCA-Adding Enzyme to Miniaturized Armless tRNA Substrates. International Journal of Molecular Sciences, 2020, 21, 9047.	4.1	6
24	Genotyping bacterial and fungal pathogens using sequence variation in the gene for the CCA-adding enzyme. BMC Microbiology, 2016, 16, 47.	3.3	5
25	Divergent Evolution of Eukaryotic CC- and A-Adding Enzymes. International Journal of Molecular Sciences, 2020, 21, 462.	4.1	5
26	Unusual Occurrence of Two Bona-Fide CCA-Adding Enzymes in Dictyostelium discoideum. International Journal of Molecular Sciences, 2020, 21, 5210.	4.1	4
27	A Temporal Order in 5â€2- and 3â€2- Processing of Eukaryotic tRNAHis. International Journal of Molecular Sciences, 2019, 20, 1384.	4.1	3
28	Monitoring the Production of High Diffraction-Quality Crystals of Two Enzymes in Real Time Using In Situ Dynamic Light Scattering. Crystals, 2020, 10, 65.	2.2	3
29	CCA-addition in the cold: Structural characterization of the psychrophilic CCA-adding enzyme from the permafrost bacterium Planococcus halocryophilus. Computational and Structural Biotechnology Journal, 2021, 19, 5845-5855.	4.1	2
30	Changes of the tRNA Modification Pattern during the Development of Dictyostelium discoideum. Non-coding RNA, 2021, 7, 32.	2.6	1
31	CCA-Addition Gone Wild: Unusual Occurrence and Phylogeny of Four Different tRNA Nucleotidyltransferases in Acanthamoeba castellanii. Molecular Biology and Evolution, 2021, 38, 1006-1017.	8.9	0
32	Crystallization and Structural Determination of an Enzyme:Substrate Complex by Serial Crystallography in a Versatile Microfluidic Chip. Journal of Visualized Experiments, 2021, , .	0.3	0