Topical Collection

RNA Modifications

Message from the Collection Editors

The field of tRNA modification that started in 1957 with the discovery of the 5th nucleotide, pseudouridine, has recently gone through a revival. Nearly 100 different modifications are now found in tRNAs and a combination of biochemical, genetic and bioinformatic studies have allowed the identification of many of the enzymes responsible for their synthesis that had been missing for decades. This has led to the discovery of new enzyme families, has revealed a great diversity of tRNA recognition modes and allowed to address the functional roles of many of modifications. We are just starting to appreciate the multiple roles they have in the cell and how these fundamental processes are linked to human diseases. Recent studies have also shown the strong parallels between RNA editing and RNA modification, between DNA and RNA modifications and between modification of tRNAs and of other types of RNAs with the different fields cross-fertilizing each other. Thus, it is a very exciting time in the field and we encourage scientists of diverse backgrounds to contribute original research or review articles that focus on the synthesis or function of tRNA modifications.

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Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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