



Small RNAs – Big Roles: IsomiRs, tRNA Fragments, and rRNA Fragments in Human Health and Disease

Guest Editors:

Dr. Eric Londin

Dr. Cameron Bracken

Dr. Yohei Kirino

Dr. Isidore Rigoutsos

Deadline for manuscript
submissions:
closed (30 December 2023)

Message from the Guest Editors

Small RNAs are known to play essential roles in numerous cellular contexts. Among the various RNA classes, the microRNAs (miRNAs) and their isoforms (isomiRs), the tRNA-derived fragments (tRFs), and the rRNA-derived fragments (rRFs) have been attracting much attention during the last decade. All three classes are useful for designing powerful diagnostics and prognostics and as novel therapeutic targets.

This Special Issue focuses on isomiRs, tRFs, and rRFs and the many open questions surrounding them. The following is a non-exhaustive list of themes of interest:

- Novel insights into the biogenesis of isomiRs, tRFs, and rRFs.

- Novel insights into how isomiRs, tRFs, and rRFs regulate gene expression.

- Previously unreported patterns of expression in health and disease.

- Reports of novel disease biomarkers or prognostics based on these small RNAs.

- Functionalization of specific small RNAs.

- Evolutionary aspects of isomiRs, tRNA fragments, and rRNA fragments.

- Experimental methods for the accurate detection and quantification of these small RNAs.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. George A. Calin

Department of Translational
Molecular Pathology, Center for
RNA Interference and Non-
Coding RNAs, University of Texas
MD Anderson Cancer Center,
Houston, TX 77030, USA

Message from the Editor-in-Chief

This field finally has a dedicated journal where its broad community can communicate and exchange its latest findings in one centralized place. This field was built stone by stone from the many scientific contributions from extremely diverse horizons, studying gene silencing in plants, position effect variegation in drosophila or quelling in fungi. This field has achieved maturity, but a lot remains to be discovered! Our aim is to publish manuscripts from all horizons that will have a high impact on the development of the field. Let's have fun and wish *Non-Coding RNA* a long and rewarding life!

Author Benefits

Open Access:— free for readers, with **article processing charges (APC)** paid by authors or their institutions.

High Visibility: indexed within **Scopus, ESCI (Web of Science), PubMed, PMC, CAPlus / SciFinder,** and **other databases.**

Journal Rank: JCR - Q2 (Genetics and Heredity) / CiteScore - Q1 (Genetics)

Contact Us

Non-Coding RNA Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/ncrna
ncRNA@mdpi.com
[X@Non_Coding_RNA](https://twitter.com/Non_Coding_RNA)