

## Special Issue

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

### 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.

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### Guest Editors

Dr. Eric Londin

Dr. Cameron Bracken

Dr. Yohei Kirino

Dr. Isidore Rigoutsos

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### Deadline for manuscript submissions

closed (30 December 2023)



## Non-Coding RNA

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## About the Journal

### 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!

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### Editor-in-Chief

Prof. Dr. George A. Calin

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