

Special Issue

Non-Coding RNA Research and Functional Insights

Message from the Guest Editors

Non-coding RNAs (ncRNAs) are functional RNA molecules that regulate gene expression through diverse mechanisms. They play crucial roles in aging, development, reproduction, metabolism, and the pathophysiology of many diseases. Among them, microRNAs (miRNAs), long non-coding RNAs (lncRNAs), and circular RNAs (circRNAs) display tissue- and disease-specific expression and directly participate in key regulatory pathways. Beyond their biological functions, ncRNAs have gained attention as potential biomarkers due to their stability in circulation and ability to reflect molecular changes. This Special Issue welcomes original research and reviews on miRNAs, lncRNAs, and circRNAs, focusing on their functional properties, regulatory mechanisms, and biomarker potential. We invite high-quality submissions addressing all aspects of ncRNA biology, including their roles in cellular processes, intercellular communication, disease mechanisms, and diagnostic applications.

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A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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