

Special Issue

Non-coding RNAs: Genomics, Biogenesis, Mechanisms, and Functions

Message from the Guest Editor

Non-coding RNAs (ncRNAs) represent a diverse group of transcripts that do not encode proteins but play pivotal roles as regulators across various biological functions and species. This category encompasses both housekeeping ncRNAs (e.g., rRNA, snoRNA, pseudogenes, and TERC) and regulatory ncRNAs (such as siRNA, miRNA, eRNA, lncRNA, and circRNA), each holding significant importance. Understanding the regulation of ncRNA levels is crucial for uncovering their biological significance. Quality-control mechanisms govern ncRNA abundance through biogenesis, processing, and degradation pathways. However, there's still a knowledge gap regarding the mechanisms and biological importance of these quality-control systems that manage ncRNA functions. This Special Issue aims to showcase recent advances in comprehending the molecular mechanisms underlying ncRNA abundance. It predominantly focuses on fundamental research providing novel insights into controlling ncRNA levels, as well as exploring clinical, diagnostic, and therapeutic perspectives of ncRNA-mediated physiological conditions. We welcome the submission of research and review articles exploring these themes.

Guest Editor

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