

Special Issue

Molecular Functions of Long Non-Coding RNAs: Implications for Diseases and Therapy

Message from the Guest Editor

This Special Issue concentrates on the expanding field of long non-coding RNAs (lncRNAs) and their pivotal contributions to disease pathophysiology. While lncRNAs were once viewed merely as transcriptional noise, recent findings indicate they participate in diverse cellular functions, including gene regulation, chromatin remodeling, and RNA splicing. By integrating current research and advanced methodologies, this collection of articles aims to highlight how lncRNAs modulate molecular processes in cancer, neurodegenerative disorders, cardiovascular diseases, and more. The presented studies emphasize both basic and translational research, revealing how targeting or harnessing lncRNAs might shape new therapeutic strategies. Contributors discuss emerging technologies for lncRNA profiling, functional characterization, and validation, offering a roadmap for identifying disease-specific biomarkers and tailoring targeted interventions. Overall, this Special Issue seeks to stimulate discussion on the dynamic roles of lncRNAs, catalyzing future investigations and advancing the development of innovative treatments for diverse human diseases.

Guest Editor

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Message from the Editor-in-Chief

Editor-in-Chief

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