



Non-Coding RNA and Intracellular Structures

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Message from the Guest Editors

Non-coding RNAs (ncRNAs) can be found in various intracellular structures. Some of these ncRNAs are present in heterochromatins and regulate their formation and/or maintenance by recruiting specific epigenetic regulatory proteins to the site of their accumulation. Other ncRNAs act as structural scaffolds of intracellular bodies without membranes by sequestering a specific set of RNA-binding proteins that contain an intrinsically-disordered domain, which triggers the liquid-liquid phase transition or hydrogel formation under certain conditions. The accumulating evidence regarding the distribution and interaction partners of ncRNAs suggest that ncRNAs localized in intracellular structures arrange the formation of a specific microenvironment consisting of the ncRNAs and their binding proteins around the respective ncRNA molecules. This Special Issue aims to unravel the roles of ncRNAs in the formation and regulation of RNA-related intracellular structures, especially focusing on the molecular mechanisms and the physiological consequences.

For more information, please visit the [*Special Issue website*](#).





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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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