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Non-coding RNAs: Promising Targets in Regenerative Medicine and Cell Therapies

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Message from the Guest Editors

Long non-coding RNAs (lncRNAs) are RNA molecules longer than 200 bp, with multiple functions in both physiological and diseases-related processes. These molecules present gene expression regulatory abilities, although their role is not limited to this function. Several well-studied examples of lncRNAs suggest that they can operate through distinct modes, including working as signals, scaffolds for protein–protein interactions, molecular decoys, and guides to target elements in the genome or transcriptome. More and more evidence is highlighting fundamental roles for lncRNAs in stem cells renewal and differentiation, along with their potential disruption when these processes are impaired. LncRNAs could thus become new key targets in regenerative medicine and cell therapies, and their study in stem cells is thus fundamental. Moreover, lncRNAs are being investigated and evaluated for clinical use as possible innovative pharmacological treatments. In this Special Issue, we expect to collect both original research and review articles aimed at assessing key advancements in lncRNA's role in stem cell renewal and differentiation.

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Message from the Editor-in-Chief

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