

Special Issue

Regulation of Alternative Splicing through Long Noncoding RNAs (lncRNAs)

Message from the Guest Editor

It is increasingly clear that non-coding RNAs play a major role in gene regulation. It is now undisputed that short noncoding RNAs, particularly microRNAs, are involved in several key developmental and pathological processes. However, it is now also apparent that other types of regulatory non-coding RNAs exist; in particular, the long noncoding RNAs (lncRNAs). These lncRNAs exert their biological functions through a bewildering array of mechanisms, including epigenetic regulation, the modulation of protein activity and localization, the expression and regulation of microRNAs themselves, and through the regulation of alternative splicing. Alternative splicing has emerged as a key process in the regulation of gene expression; this is illustrated by the fact that over 95% of human genes are alternatively spliced. The focus of this Special Issue is on the regulation of alternative splicing through lncRNAs. lncRNAs are thought to contribute to the regulation of alternative splicing through several mechanisms including the modification of chromatin signatures, through the interaction with microRNAs, and through the modification of expression and activity of splice factors. A full understanding of lncRNA biology needs to include insights into how they contribute to alternative splicing regulation.

Guest Editor

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About the Journal

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!

Editor-in-Chief

Prof. Dr. George A. Calin

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