non-coding RNA

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Insights into Antisense Long Non-Coding RNAs Metabolism and Expression

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Deadline for manuscript submissions:
closed (30 September 2022)

Message from the Guest Editors

While initially considered as pervasive transcripts devoid of any regulatory function, long non-coding (lnc)RNAs have progressively emerged as key players involved in multiple cellular processes.

Among the different classes of lncRNAs, “antisense” (as)lncRNAs are synthesized from the DNA strand opposite to “sense” genes. Over the last few years, they have attracted a lot of attention given their potential to regulate gene expression.

Despite their regulatory importance, aslncRNAs still remain poorly characterized. One reason for this lack of global information on aslncRNAs appears to be their low cellular abundance. In fact, pioneering studies in yeast have highlighted the role of evolutionarily conserved RNA decay machineries in tightly controlling aslncRNAs levels.

In this context, this Special Issue will focus on the expression and the metabolism of aslncRNAs, including antisense transcription, the regulation of aslncRNAs expression and decay, the interactions of aslncRNAs with RNA/DNA, aslncRNAs as regulators of gene expression and other processes, aslncRNAs expression in cancer and diseases, and evolutionary aspects of aslncRNAs.

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Editor-in-Chief

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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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