



Non-Coding RNA in the Nervous System

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Message from the Guest Editor

One of the big unsolved problems in developmental biology and neuroscience is how the brain is formed and how it functions—how neurons generate and maintain connections between them, how these are lost or modified with aging or in neuropathologies like Alzheimer’s and Parkinson’s diseases, how the brain learns, and what goes wrong in neuropsychiatric conditions, such as autism and bipolar disorder.

The mammalian brain expresses an extraordinarily complex transcriptome, including large numbers of short and long non-coding RNAs that show very precise expression patterns. Many non-coding RNAs are implicated in chromatin organization and epigenetic processes, which are essential for development and brain function. Moreover, there has been an expansion of RNA editing and modification during cognitive evolution, especially in primates, which suggests that such processes may underlie the epigenetic plasticity of the brain.

This is the new frontier. This special issue will group together the latest advances in non-coding RNA studies related to nervous system development, function and plasticity.





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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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