

Tentative Outline

Special Thematic Issue for Current Bioinformatics

[Computational Approaches for Exploring the Functions of Non-coding RNAs]

Guest Editors: Lei Deng

Aims & Scope:

The discovery of non-protein coding RNAs (ncRNAs) and their different functions in regulating developmental and disease processes is expanding our knowledge of molecular biology and could significantly advance therapeutic options for many patients. Fully discovering the functions of ncRNAs and further modulating ncRNAs has been a challenging task to date. With the rapid development of artificial intelligence and deep learning technologies, there is considerable and increasing interest in developing computational methods for analyzing and predicting ncRNA-disease and ncRNA-drug associations, and other ncRNA functions. The guest editor invite authors to contribute with high-quality review articles highlighting the recent advances in the related topics.

Keywords: Non-coding RNAs, Functions, and Computational Approaches

Subtopics:

The subtopics to be covered within this issue are listed below:

- Biological functions of non-coding RNAs.
- regulation of gene expression.
- Computational approaches for analyzing non-coding RNAs.
- Novel approaches for predicting ncRNA-disease and ncRNA-drug associations.
- Therapeutic and diagnostic applications of non-coding RNAs

Schedule:

- ✧ Manuscript submission deadline: 6/30/2020
- ✧ Peer Review Due: 7/30/2020
- ✧ Revision Due: 8/30/2020
- ✧ Announcement of acceptance by the Guest Editors: 9/15/2020
- ✧ Final manuscripts due: 10/1/2020

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