

Special Issue

New Insights into Satellite DNAs

Message from the Guest Editors

Located in the (peri)centromeric and subtelomeric heterochromatin, satellite DNAs contribute significantly to the genome architecture, and identical satellite DNA repeats on multiple chromosomes were shown to be important for chromocenter formation and genome maintenance. Satellite DNAs are also involved in important roles in stress cell physiology and gene regulation. Moreover, changes in satellite DNA structure and transcription activity associated with the disturbance of the heterochromatin are linked with diseases such as cancer, as well as senescence and aging.

This Special Issue addresses all kinds of research related to our current knowledge on satellite DNA structure, organization and evolution, as well as the regulation of transcription, and diverse roles of satellite DNAs and their transcripts, e.g., for centromere and heterochromatin establishment, genome integrity or gene regulation. We would also like to underline the genetic or epigenetic alteration of satellite DNAs and heterochromatin during cellular processes, as well as in diseases and aging. We look forward to receiving your contributions in the form of original research or review articles.

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