Special Issue

The Role of Centromeres in Genome Stability

Message from the Guest Editor

Centromeres are fascinating chromosomal loci required for the faithful transmission of genetic information. Recent evidence has pointed at important DNA-based transactions happening at centromeres. LncRNA transcripts originated from centromeres bear unexpected roles in stabilizing proteins binding to the region and promote kinetochore function. Recent evidence indicates that centromere alpha-satellite DNA suffers from instability due to recombination, especially enhanced in the context of cancer and cellular senescence. These, raise interesting questions on how transcription, repair, and other processes impact centromere stability and function and how the deterioration of centromere repeats integrity may be implicated in human health and disease. We encourage contributions with novel experimental methods, including computational approaches, that bring forward alternative hypotheses, highlighting centromere association with genome and chromosome stability, or contributing to understanding centromeres' role in disease. We will also consider any manuscript that advances the understanding of these "dark" regions of our genome.

Guest Editor

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Editor-in-Chief

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