



Role of Telomere Dynamics in Chromosome Stability and Transcriptional Regulation

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Message from the Guest Editor

Dear Colleagues,

Telomeres are specialized structures located at the ends of chromosomes that solve the end-replication problem and protect termini from degradation and fusion. Telomere length is maintained by the enzyme telomerase, and the shortening of telomeres has been associated with aging and disease states. Telomere integrity is central to the maintenance of genetic stability. Telomeres and subtelomeric regions have been implicated in processes ranging from homologous recombination to chromosome fragmentation. In addition to their role in chromosome stability, telomeres also play crucial roles in the regulation of transcriptional regulation of both coding and non-coding TERRA RNAs through processes such as telomere position effects and higher-order chromosome structure. We invite papers and reviews in areas related to the role of telomeres in chromosome stability and transcriptional regulation.





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