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Satellite DNAs: Cell Function and Evolution

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Deadline for manuscript
submissions:

closed (20 April 2022)

Message from the Guest Editor

Dear Colleagues,

Satellite DNA represents one of the most intriguing component of eukaryotic genomes. Progress in sequencing technologies, together with new computational and functional approaches, offer new perspectives for understanding the evolutionary dynamics of those peculiar repetitive elements as well as their contribution to important cell functions such as the preservation of genome stability and genome regulatory mechanisms.

This Special Issue of *Life* aims to compile a timely collection of reviews and research articles covering different aspects of satellite DNA biology, including but not limited to sequence analysis, epigenetic regulations, non-coding RNAs and nuclear organization. Attention will be given to studies aimed at describing how satellite DNA regulate cell proliferation and differentiation and contribute to pathophysiological processes as well as expanding our knowledge on the interplay of satellite DNA and genome evolution.

We hope this Special Issue will help address the challenges raised by satellite DNA and clarify how those sequences impact cell function and evolution. We look forward to receiving your contributions.



mdpi.com/si/99571

Special Issue



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Message from the Editor-in-Chief

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