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Chromosome Replication and Genome Integrity

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Message from the Guest Editor

Dear Colleagues,

Genome replication is central for cellular proliferation and is critically implicated in several diseases. Various factors associate with the replication fork, to promote replication, globally or at specific genomic regions, such as telomeres and centromeres, and at genomic locations containing DNA lesions, structured DNA, repetitive segments, and heterochromatin. Some of the DNA metabolism reactions associated with genomic replication facilitate DNA synthesis and replication restart, activate or dampen DNA damage response pathways coordinating repair and/or the origin usage program, resolve topological intermediates arising from recombination or transcription-replication clashes, establish or disrupt chromatin modifications and chromosome structure. Deficiencies in these individual pathways cause various human genetic disorders, or predispose to cancer and progeria. This Special Issue will address the mechanisms through which processes responding to adverse genome perturbations occur, providing an overview of recent developments in specialized research topics and critical perspectives on upcoming challenges.

Sincerely,

Dr. Dana Branzei
Guest Editor



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Special Issue



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Message from the Editor-in-Chief

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