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DNA Replication Kinetics

Guest Editor:

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Deadline for manuscript submissions: closed (20 August 2022)

Message from the Guest Editor

Reproducible patterns of DNA replication timing are seen across eukaryotes. These replication timing patterns correlate with gene expression, chromatin structure, chromosome conformation and genome evolution, suggesting а deep interrelation between these fundamental nuclear processes. Thus, understanding the regulation of replication timing is a major goal in the field of nuclear biology. Nonetheless, neither the mechanisms that regulate replication timing, nor their biological implications are well understood. Given the active work going on in the field, and the potential for new insight, this is an excellent time for a Special Issue dedicated to the topic.

In this Special Issue, we welcome original articles, new methods and reviews covering any aspect of DNA Replication Kinetics. These include, but are not limited to, regulation of the replication initiation, the mapping and regulation of replication origins, regulation of replication fork rate, developmental and checkpoint regulation of replication kinetics, replication timing of specific genomic loci (such as telomeres or rDNA), and other cellular processes that are coordinated with DNA replication timing.









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Message from the Editor-in-Chief

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