

Special Issue

DNA Replication Timing: Where, When, How and Why?

Message from the Guest Editor

The study of DNA replication timing has proven particularly challenging, with many fundamental questions remaining largely unresolved. While the biochemistry of replication initiation has been studied in great detail, it remains largely unknown how regulation of DNA replication timing is carried out. A fundamental question that remains incompletely resolved is: why do cells have a DNA replication timing program? Is it important that certain genomic regions replicate earlier than others? Does replication timing influence genome regulation and cellular and organismal physiology? Exciting new approaches are being utilized to explore these questions and have established or revealed new links between replication timing and gene regulation, chromatin structure, chromosome conformation, mutational processes, inheritance and diseases. These discoveries are leading to a revived and expanded interest in DNA replication timing, and are sure to bring a new level of understanding of this important process in the forthcoming years. This special issue addresses DNA replication timing in various species from all of these different aspects: causes, consequences, properties, and mechanisms.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2018)

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Message from the Editor-in-Chief

Genes is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised. Why not consider *Genes* for your next genetics paper?

Editor-in-Chief

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