



genes



an Open Access Journal by MDPI

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

Guest Editor:

Dr. Amnon Koren

Department of Molecular Biology
and Genetics, Cornell University,
Ithaca, NY, USA

Deadline for manuscript
submissions:

closed (31 December 2018)

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.



mdpi.com/si/17140

Special Issue



genes



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan

Department of Pathology, The University of Alabama at Birmingham, 1825 University Blvd, SHEL 814, Birmingham, AL 35294-2182, USA

Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving 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?

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, PubAg, and other databases.

Journal Rank: JCR - Q2 (*Genetics and Heredity*) / CiteScore - Q2 (*Genetics (clinical)*)

Contact Us

Genes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/genes
genes@mdpi.com
[X@Genes_MDPI](#)