Special Issue

Reciprocal Links between RNA Metabolism and DNA Damage

Message from the Guest Editor

Two central parts of molecular biology are the control of genome integrity and genome expression. The study of genome integrity has largely relied on analyses of DNA replication, repair, and recombination and their intimate links between each other and with cell cycle. The study of eukaryotic genome expression has revealed that a large part of it is transcribed into RNAs. The past decade has revealed reciprocal links between the control of genome integrity and expression. Firstly, DNA damage widely regulates RNA metabolism, and genes controlling genome integrity are regulated at multiple levels of RNA processing. Secondly, the processes of DNA replication and repair and the processes of transcription and cotranscriptional RNA processing are connected reciprocally impacted. Finally, connections between genome integrity and expression are found in both prokaryotes and eukaryotes. The aim of this issue is to provide reviews and experimental advances on the links between DNA damage and RNA metabolism, including—but not limited to—their underlying mechanisms, their impact on biological phenotypes, and their potential insights into additional fields.

Guest Editor

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Deadline for manuscript submissions

closed (15 September 2022)

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an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.5
Indexed in PubMed

mdpi.com/si/71547

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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?

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