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Reciprocal Links between RNA Metabolism and DNA Damage

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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.



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Special Issue



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Message from the Editor-in-Chief

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