

Special Issue

DNA Repair, Genomic Instability and Cancer

Message from the Guest Editor

The maintenance of genome integrity is essential for proper cellular function and organismal survival. To protect the genome from endogenous and exogenous sources of DNA damage, cells have evolved a variety of DNA repair mechanisms. Paradoxically, in some cases, DNA repair proteins can promote genetic instability via error-prone processing, thereby contributing to the etiology and progression of diseases such as cancer. A notable example includes the processing of alternative (i.e., non-B) DNA structures, which can form repetitive DNA sequences and are abundant across genomes. In this Special Issue, we will highlight both canonical and aberrant DNA repair mechanisms, providing insights into their roles in genome integrity.

Guest Editor

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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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