



DNA Damage, Genomic Instability and Human Diseases

Guest Editor:

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Deadline for manuscript
submissions:

closed (31 October 2022)

Message from the Guest Editor

Dear Colleagues,

It is well known that protecting of genome is important for each organism because DNA alterations such as mutations and chromosomal aberrations can lead to tumorigenesis, development of various diseases, or cell death. Therefore, cells have evolved multiple mechanisms to detect and repair DNA breaks, mismatches and mutations of damaged or incompletely replicated DNA to secure the integrity of the genome. In this Special Issue, we welcome reviews, original research articles and communications that advance our understanding of all aspects of mechanisms participating in genome maintenance, with a special focus on better understanding of the regulatory mechanisms of DNA repair pathways, crosstalk between different DNA repair pathways and coordination of DNA repair complexes with DNA replication or RNA transcription machinery.

Keywords

- DNA damage
- DNA repair
- DNA damage response
- Genomic instability
- DNA replication
- DNA damage checkpoint

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