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Environmentally Induced Genomic Instability

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Message from the Guest Editors

Dear Colleagues,

Induced genomic instability (IGI) evidently plays a role in environmentally induced cancer. IGI is a concept describing the delayed damage that can be observed many cell generations after exposure in the non-exposed progeny of exposed cells as increased mutation frequency, apoptosis, chromosomal aberrations, micronuclei, and other damage. As carcinogenesis requires the accumulation of multiple genetic changes, IGI has a central importance in the development of cancer. Although the maintenance of genome stability is crucial for the well-being of higher organisms, IGI has also been seen as a resource for evolution and a mechanism of adaptation.

This Special Issue aims to present novel insights into IGI, including its initiation by different environmental agents, how IGI is transmitted epigenetically, and what kinds of consequences IGI may have in living organisms.



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Special Issue



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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.

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