Special Issue

Role of RNA Transcription and Processing in Genome Stability

Message from the Guest Editor

Emerging evidence in cell biology is that RNA processing pathways may participate in DNA Damage Response (DDR), and that defects in these regulatory connections are associated with genomic instability of cancers and neurodegenerative diseases. In fact, many DNA repair proteins are associated with those involved in transcriptional regulation, ncRNA processing and RNA metabolism, in the cytoplasm, nuclei and nucleoli, proving the substantial role of the interactome network in determining their non-canonical functions in human cells. Perhaps, these new insights of DNA repair enzymes, along with their emerging function in RNA-decay, may explain their essential role in tumor development and chemoresistance, as well as in the development of neurodegenerative diseases. The intent of this Special Issue is to summarize the different roles of DNA repair pathways in human cells. The emerging new roles of several DNA repair enzymes in controlling gene expression and RNA metabolism will be highlighted. Although recent works have provided tremendous amount of data in this field, there are still many open questions.

Guest Editor

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Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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