

Special Issue

DNA Replication Stress and Chromosomal Instability 2.0

Message from the Guest Editors

Faithful duplication of the genetic information during DNA synthesis is essential for the cell to maintain its genome integrity. DNA lesions generated by exogenous or endogenous insults perturb DNA synthesis and lead to the stalling of replication forks. Interference with DNA replication causes DNA replication stress, which is a well-established hallmark of cancer and a source of genomic instability. In the recent years, new sources of DNA replicative stress have been uncovered (DNA-protein crosslinks, mechanical stress, etc.) as well as crosstalks with other pathways (splicing, aldehydes metabolism, etc). This Special Issue aims to explore in depth how these diverse threats are detected and processed by the cells and to study their impact on genome integrity and cancer.

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