

Special Issue

DNA Double-Strand Breaks Repair in Human Diseases - Pathophysiology and Implications for Therapy Based on Synthetic Lethality

Message from the Guest Editors

DNA double-strand breaks (DSBs) are classified as one of the most serious DNA lesions. Unrepaired or miss-repaired DSBs potentially lead to genetic instability and/or even cell death. To survive and maintain normal phenotype cells have evolved specific pathways – collectively named the DNA-damage response (DDR) – to detect and repair DNA lesions. This Special Issue objectives to provide novel insights into the molecular and cellular mechanisms underlying DSBs repair in the etiology of human diseases and to show novel therapeutic perspectives within DSBs repair.

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