

Special Issue

DNA Damage Response from Molecular Mechanisms to Cancer Therapy

Message from the Guest Editors

The DNA damage response (DDR) could be defined as a double face of tumour: both the cause and treatment. Some DDR proteins are involved in the cancer-prone syndrome. Conversely, the DNA repair defects are used as the “Achille’s heel” of cancer, favouring treatment with DNA damage agents through radiation therapy or cisplatin generating various kinds of DNA lesions (single or double strand breaks). In this scenario, the identification of novel therapeutic strategies based on the personal genetic makeup could be essential for improving the cancer treatments. To this aim, the dissection of novel proteins involved in the DDR plays an important role in cancer therapy. This Special Issue will highlight novel discoveries in the context of the DNA damage response, from molecular mechanisms to clinical aspects, as potential novel strategies for cancer therapy. Please note that the special issue is focused on molecular research, so the pure clinical research will not be accepted. But clinical submissions with biomolecular experiments are welcomed.

Guest Editors

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