



## Organ Specificity in DNA Repair/DDR in Solid Cancers

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### Message from the Guest Editors

Dear Colleagues,

There is ample evidence for the essential involvement of DNA repair and DNA damage response (DDR) in the onset and progression of solid cancer malignancies. Among effector pathways of DDR, genomic alterations in DNA repair genes represent substantial changes underlying the genetics of many solid cancers (e.g., breast, ovarian, and colorectal cancer).

Regarding the role of DDR in ensuring genomic stability in cells within organisms and in preventing cancer, several questions need to be addressed. Is aging indeed related to a decrease in DNA repair capacity, whereas the proliferative activity of cells is also diminished? Are there differences in DNA repair/DDR in individual organs/tissues, and if so, are these differences associated with cellular turnover? Does the kinetics of DNA repair/DDR affect the critical site of tumor onset?

The aim of this Special Issue is to address the pivotal role of DDR in essential biological processes, such as malignant transformation or degenerative diseases. Another goal is to survey currently existing data on solid cancer onset, prognosis, and treatment efficacy.

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