

Special Issue

DNA Damage and Repair in Plants 2.0

Message from the Guest Editors

Due to their lifestyles, land and water plants have evolved sophisticated mechanisms to cope with environmental stresses that affect chromosome integrity. Hence, characterizing the dynamic responses of such living organisms to genotoxic stress will be of special importance for our understanding of their interactions with environmental cues. The DNA repair machinery has to act in the context of chromatin; thus, the local chromatin landscape as well as its higher order structure can affect the DNA damage response. Therefore, it is crucial to understand how DNA repair pathways are regulated and coordinated by genetic and epigenetic factors in order to protect chromosomes against deleterious damage. This understanding is of critical value for basic as well as applied research. This Special Issue calls for original articles, reviews, and perspectives that will allow unveiling how DNA repair pathways act in the context of chromatin to control genome stability/flexibility.

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