

Special Issue

Chromatin, Epigenetics and Plant Physiology 2.0

Message from the Guest Editors

This SI will focus on current progress in understanding the role of the chromatin structure and modifications. The interest in this topic follows from the fact that eukaryotic genomes are packed into the supramolecular nucleoprotein structure of chromatin. Our understanding of processes, such as DNA replication and repair, transcription or cell differentiation, require understanding the structure and function of chromatin, and its specific domains. Epigenetics is particularly important in plants that show a high developmental plasticity and, as in sessile organisms, display an enormous capacity to cope with environmental stress. Current advances in methodological tools have made it possible to investigate the chromatin structure, starting from its basic level, the nucleosome, up to the higher-order structures, and their dynamics associated with the differentiation and physiological status of cells. Thus, we aim to offer representative examples of research progress in this broad research field in this *IJMS* Special Issue, and invite original methodology and review contributions on this hot topic in plant sciences.

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