

Special Issue

Latest Epigenetic Research in Plants

Message from the Guest Editor

Eukaryotic DNA is compacted within chromatin. This sophisticated nucleoproteic structure bears the epigenetic information and is made of DNA wrapped around histone octamers. The histone core is composed by a H3/H4 tetramer flanked by two H2A/H2B dimers. Photosynthetic organisms i.e. land plants and algae (Rhodophytes, Chlorophyta and Chromalveolata for brown algae) are highly diverse organisms that belong to independent lineages sharing the ability to do photosynthesis in various and fluctuating environments. The Special Edition will focus on the molecular players that participates to the epigenetic mechanisms. Plants are plastic organisms that present unique epigenetic mechanisms and constitute interesting models to untangle epigenetic mechanisms operating in various environmental cues. We invite submission of works that investigate these mechanisms by various and combined approaches, such as biochemistry, molecular biology, genetics and omics approaches, as well as review articles that offer a comprehensive view of the current knowledge and its limits or method papers with new techniques to analyze these mechanisms.

Guest Editor

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