Special Issue

Tree Genetics: Molecular and Functional Characterization of Genes

Message from the Guest Editors

Forests are subjected to natural and man-induced disturbances: understanding the genetic and molecular basis of tree physiology as well as the response to abiotic and biotic stimuli is fundamental to elucidate adaptation processes and ecosystem level plant-toplant and plant-microbe interactions. The growing availability of genome resources and high throughput molecular techniques and bioinformatic approaches enables us to unravel the mechanism of tree functionality within the environment at an unprecedented level of depth and complexity. Furthermore, fine scale knowledge of tree genomics and gene function lays the foundation for the improvement of economically relevant species using genetic engineering approaches such as transformation or cutting-edge technologies as CRISPR/Cas9 gene editing. This Special Issue of Forests intends to present research, review and opinion papers expanding the current knowledge and highlighting the next challenges of functional genomics to increase forest yield, as well as in all aspects of tree biology, including, but not limited to, phenology, wood formation, abiotic stress response, plant-pathogen and plant-microbe interactions.

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Message from the Editorial Board

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