

Special Issue

Advanced Research and Perspectives on Tree Functional Genomics

Message from the Guest Editors

Tree functional genomics is a rapidly evolving field that integrates genomic data with tree biology to understand the complex functions and adaptations of trees. Recent advances have leveraged high-throughput sequencing technologies, such as next-generation sequencing (NGS), to decode the genomes of various tree species. These efforts have provided insights into gene functions, regulatory networks, and the evolutionary processes that govern traits such as growth, stress resistance, and disease response. This field also explores the ecological and environmental implications of tree genomics, aiming to address challenges such as climate change, deforestation, and sustainable forest management. Future perspectives involve improving computational tools and databases, fostering collaborative research, and translating genomic discoveries into practical applications for forestry and conservation. Dr. Vanessa Castro Rodríguez

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