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Forest-Tree Comparative Genomics and Adaptive Evolution

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Deadline for manuscript
submissions:

closed (31 March 2024)

Message from the Guest Editors

Dear Colleagues,

Forest-tree comparative and evolutionary genomics have gained much attention in recent years. This research topic will collect articles dealing with the understanding of genome evolution and convolution of gene regulation for growth, development, reproduction, and responses to abiotic and biotic stresses, epigenomics, interactome analysis, macro- and micro-evolutionary processes and species history, architecture of quantitative traits, applications in industrial sectors, genetic resource conservation and breeding. We invite scientists to contribute their omics research to this topic, including but not limited to:

- Forest tree genomes;
- Evolutionary origins and diversification of genes or gene family in trees;
- Evolution and diversification of trees' traits;
- Molecular mechanisms involved in biotic and abiotic stress responses, or development;
- Trees' microbiomes and holobionts;
- Molecular interactions (high-throughput experimental techniques and computational predictions);
- Epigenomics;
- Integrating omics into phylogeography and phylogeny;
- Genotype-phenotype association;
- Conservation genomics;
- Mutagenesis and directed evolution.



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