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Long-Term Genetic Improvement and Molecular Breeding of Chinese Fir

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Message from the Guest Editors

Climate change and the human demand for forest products and ecological products create higher diversification requirements for the improvement of forest genetics. The breeding of new lines with multi-objective traits, such as rapid growth, high quality and high resistance, became the goal of present and future breeding. Chinese fir, an important native conifer tree species in China, made similar progress in breeding as the loblolly pine in America, Canadian spruce, and radial pine in New Zealand, and can be viewed as a typical tree species in tree genetics and breeding. We are calling for research works in the field of forest genetics that advance our understanding of the genetic control of tree traits of multi-functional value for Chinese fir, based on provenance, family or clone tests. We concern breeding population construction, seed orchards technology, and genetic diversity by using molecular marker-assisted breeding and the long-term genetic valuation of growth, material quality and stress resistance.

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