



Wild and Domesticated Chestnut Genetic Resources and Their Management in a Context of High Impact of Biotic Stressors and Warming

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Message from the Guest Editor

Dear Colleagues,

Over the last two decades, there have been great advances in the knowledge of the genetic structure of natural populations of different species of the genus *Castanea*, as well as those created via traditional domestication, such as in the case of *C. sativa*. This is knowledge supported above all by molecular genetics, but also by trials that have allowed us to learn about adaptive variability and, to a lesser extent, differences in resistance to diseases. This knowledge can be applied both to the management of genetic resources, as well as to the development of new breeding programs aimed at the selection of reproductive materials with quality, tolerance to diseases (*Phytophthora cinnamomi*, *P. cambivora*, *Cryphonectria parasitica*, *Dryocosmus kuriphilus*, etc.), and adaptation to drought and cold, wherever these characteristics are required. Greater knowledge of species, together with the development of classical breeding programs and techniques of vegetative propagation, molecular markers, genetic and genomic transformation, should contribute to improving both conservation and production populations.





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Message from the Editor-in-Chief

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