Special Issue

Conservation of Grapevine Genetic Resources

Message from the Guest Editors

Grapevines are one of the longest domesticated plant species. Complementary conservation strategies should be considered to conserve collections of Vitis genetic resources for future requirements of breeding programs. Methods are based on slow growth storage and cryopreservation. Under cryopreserved conditions, the genetic integrity of the plant tissue is kept for an indefinite period of time, without any manipulations. Reliable cryopreservation methods that result in high levels of regrowth after liquid nitrogen exposure are key to the development of successful base collections. Recent advances in grapevine cryopreservation using vitrification-based procedures appear to be promising in order to overcome species- and genotype-specific responses. This Special Issue publishes research articles and reviews addressing short- medium- and long-term preservation of germplasm including field, in vitro and cryopreserved collections, safe germplasm exchange, management of germplasm banks, description, identification and evaluation of germplasm for grapevine.

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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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