

Special Issue

Global Climate Change, Sustainability, and Challenges for Grape and Wine Production

Message from the Guest Editors

The change in global climate in the current century is unquestionable. In most wine-growing regions, a critical rise in temperature and an increasing frequency of droughts have been observed, which may bring significant changes to the functional biodiversity of vineyard ecosystems and to grapevine behaviour and related yield and berry quality. Consequently, the predicted alterations in climate may have dramatic socioeconomic consequences in all wine-grape sectors, since wine quality is profoundly linked to the 'terroir' concept, which includes climate as one of its major determinants. Although grapevines show notable climate resilience, all wine-grape sectors must develop necessary adjustments, preferably focused on suitable and eco-friendly viticultural and oenological practices, to ensure well-balanced grape ripening and high-quality wine production.

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