

Special Issue

Building Climate Resilience for Mediterranean Agrifood Systems: Adaptation Strategies for Wheat, Grape, and Olive

Message from the Guest Editor

Wheat (*Triticum aestivum* L.), grapes (*Vitis vinifera* L.), and olives (*Olea europaea* L.) have immense cultural, economic, and ecological importance and are the basis for producing bread and pasta, wine, and oil products. The severity and uneven distribution of the expected climate change threats across climate-sensitive agricultural areas call for crop- and region-specific adaptation strategies to mitigate the negative impacts on crop yield and quality.

Research areas in this Special Issue may include, but are not limited to, the following topics:

- Assessing crop resilience with crop simulation models;

- Evaluating agroecological practices (like organic farming or crop diversification) to manage water scarcity and heat;

- Effects of data (like meteorological) inaccuracy in adaptation strategy performance;

- AI- and precision farming-based applications to optimize resource use and boost crop yields;

- Water management optimization using the Water–Energy–Food Ecosystem (WEFE) Nexus approach;

- Enhancement of the circular economy using compost and reclaimed by-products to enhance soil quality and reduce waste.

Guest Editor

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