



## Tackling Grapevine Water Relations in a Global Warming Scenario

Guest Editor:

**Prof. Dr. Stefano Poni**

Department of Sustainable Crop  
Production, Università Cattolica  
del Sacro Cuore, Via Emilia  
Parmense 84, I-20122 Piacenza,  
Italy

Deadline for manuscript  
submissions:  
**closed (31 March 2020)**

### Message from the Guest Editor

Dear Colleagues,

Models of climate change suggest a reduction of precipitation in temperate and sub-tropical land areas, where most of the wine grape viticulture is located. In addition, a rising temperature will increase evaporative demand, whereas faster organic matter degradation will likely reduce the soil's water holding capacity. Therefore, new techniques need to be designed to improve vineyard resilience to drought. Please share your success stories from research in dry farm and irrigated viticulture regions around the world in this Special Issue. Submissions on (but not limited to) the following topics are invited: 1. innovative approaches for grapevine irrigation management; 2. agronomic practices aimed at yield and quality maintenance under semi-dry environments with limited or no availability of green water; 3. advanced techniques, such as remote and proximal sensing, for farm-scale and intra-vineyard irrigation scheduling; 4. decision support tools and modeling to guide irrigation; 5. techniques targeted at increasing soil water storage capacity; 6. genetic tolerance to drought in grapevines; 7. Internet of Things and vineyard irrigation: anything available?





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture,  
Water and Environment  
Research, Charles Sturt  
University, Wagga Wagga, NSW  
2678, Australia

## Message from the Editor-in-Chief

*Agronomy* draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet. *Agronomy* is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, and other databases.

**Journal Rank:** JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Agronomy and Crop Science)

## Contact Us

---

*Agronomy* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/agronomy  
agronomy@mdpi.com  
X@Agronomy\_Mdpi