Special Issue

Tackling Grapevine Water Relations in a Global Warming Scenario

Message from the Guest Editor

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?

Guest Editor

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

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Agronomy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agronomy@mdpi.com

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Editor-in-Chief

Prof. Dr. Leslie A. Weston
Gulbali Centre for Agriculture, Water and Environment Research, Charles Sturt University, Wagga Wagga, NSW 2678, Australia

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