

Special Issue

Sustainable Viticulture for Climate Change Adaptation

Message from the Guest Editors

Climate change exerts significant pressure on viticulture regions around the world, exacerbating existing challenges to sustainable production methods. Natural elements like radiation, temperature, precipitation, and humidity, as well as human-induced factors, contribute to alterations in plant growth, yield, and fruit quality.

These abiotic stressors disrupt the phenology timing and duration of vineyards and hinder plant physiological functions, ultimately jeopardizing yield and fruit quality due to imbalanced sugar accumulation, the altered production of secondary metabolites, and compromised quality traits.

This compilation aims to gather a collection of cutting-edge research articles showcasing significant advancements in viticulture management practices and resilience under abiotic stress conditions. The primary focus is on fostering sustainability and resilience to adverse environmental conditions and climate change effects within the domain of fruit production and quality. This Special Issue covers various topics, such as plant stress physiology, biochemistry, stress-related metabolites, crop responses to stress, defense mechanisms, and factors influencing fruit quality.

Guest Editors

Dr. Lia-Tania Dinis

Dr. Sandra Pereira

Dr. Sandra Martins

Deadline for manuscript submissions

30 October 2025



Agriculture

an Open Access Journal
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Impact Factor 3.6
CiteScore 6.3



mdpi.com/si/201674

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

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About the Journal

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

Editor-in-Chief

Prof. Dr. Les Copeland

Sydney Institute of Agriculture, School of Life and Environmental Sciences, The University of Sydney, Sydney, NSW 2006, Australia

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