

Special Issue

Crop Antioxidant System and Its Responses to Stress

Message from the Guest Editors

Climate change is a global problem with various negative effects on plants and animals as well as the production of food supplies, which causes changes in the nutritional and biological activity of cereals, fruits and vegetables. Plant responses to stress conditions involve numerous physiological, biochemical, molecular and cellular changes. An example of a response to stress is the increased accumulation of reactive oxygen species (ROS) that leads to oxidative stress. The antioxidant defense system of plant includes enzymatic (ascorbate peroxidase, catalase, glutathione reductase, peroxidase, superoxide dismutase) and non-enzymatic mediators (ascorbic acid, b-carotene, glutathione, polyphenols, proline, a-tocopherols). Changes in plant biochemical pathways, with an emphasis on antioxidants, can significantly change their biopotential for future human and animal use.

This Special Issue focuses on the plant antioxidant system and its response to stress. The goal is to gain an insight into changes in the nutritional value and biological activity of plants that are exposed to stress and are used in human and animal nutrition. Original research articles and reviews are welcome.

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Deadline for manuscript submissions

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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

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