Special Issue

Heat and Drought Tolerance in Potato

Message from the Guest Editors

Potato is the leading vegetable crop in the world and is important for global food security. However, potato is highly susceptible to two major abiotic stresses, heat stress and drought, which affect plant growth, development, and productivity, as well as tuber nutritive and processing qualities. Recently, research efforts have been intensifying towards understanding the mechanisms associated with potato responses to high temperatures and/or water deficit that may lead to the development of new, tolerant potato varieties. This Special Issue aims to provide an overview of current research and knowledge regarding potato heat and drought tolerance. We are pleased to invite researchers to submit papers that highlight potato physiological, biochemical, and molecular responses to heat and/or drought, genetic bases and mechanisms relevant to stress management, effects of biostimulants and plant elicitors, achievements by conventional and molecular breeding in the creation of tolerant genotypes. Submissions of original research articles, reviews, minireviews, and short communications are welcome.

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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