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Cultivation and Regulation of Abiotic Stress for Field Crops

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Deadline for manuscript submissions:

closed (31 December 2022)

Message from the Guest Editors

Plants are typically exposed to a broad myriad of abiotic stresses, including drought, salinity, heavy metal, and heat stress that can diminish the plant photosynthetic area and, thus, the total attained plant biomass or grain yield. In this context, the use of field crop species that can remain highly productive in environments with saline soils, recurrent drought periods, and various types of metal toxicity is an important strategy to cope with these predominant abiotic stresses in arid and semi-arid climates. Furthermore, globalization and industrialization are also factors that increase the levels of various toxic pollutants such as cadmium (Cd), copper (Cu), arsenic (As), mercury (Hg), and lead (Pb) in soil, which can pose serious threats not only to normal plant growth and development but also to human health. Therefore, we are in need of strategies that can increase plant growth and yield in environments of abiotic stress.



mdpi.com/si/104497

Special Issue



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