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Plant Stress Physiology and Molecular Biology—2nd Edition

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Message from the Guest Editor

Plants grow and reproduce in complex environments, and plants are subject to a variety of chemical and physical abiotic stresses, including low temperature, high temperature, drought, salinity, flooding, excess light, ultraviolet radiation, mineral nutrient deficiency, oxygen deficiency, injuries, and air, soil or water pollution such as heavy metals, pesticides, ozone and sulfur dioxide pollution etc. These abiotic stresses can negatively affect plant physiology and biochemistry, and further affect plants growth and development. In order to cope with abiotic stress, plants tolerate, resist or avoid the harm of stress through various mechanisms. Over the past few decades, a variety of novel methods/technologies have been used to study stress damage to plants and plant responses and defense mechanisms to stress. This Special Issue will cover a wide variety of areas, such as the effects of various abiotic stresses on plants, plant stress resistance genes, the regulatory network of stress resistance, and the role of hormones in plant stress resistance. The aim of this Special Issue is to provide an up-to-date understanding of plant responses to abiotic stress.

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Message from the Editor-in-Chief

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We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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