Special Issue

Water Balance and Plant Responses to Drought

Message from the Guest Editor

Water is an important resource for plant development and forest sustainability. However, in some other environments, the existence of drought periods can alter the plant–water balance by reducing the inputs (mainly caused by a low precipitation), increasing the outputs (for example, due to a high evaporative demand), or both, which could induce a certain water stresses in the plant.

In order to cope with this drought stress, plants have developed a variety of different responses: from those long-term adaptations, such as leaf morphological adaptations, to those short-term responses such as variation in the concentration of compounds. Knowing these responses to drought is of paramount importance in the conservation of a particular species, especially under scenarios of increased aridity predicted by climatic change models.

This Special Issue brings the opportunity to gather further information about the causes and consequences of altering the plant water balance, together with the investigation of plant responses to cope with drought, both in terms of soil water scarcity and atmospheric dryness.

Guest Editor

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