

Special Issue

Understanding and Improving Crop Productivity under Current Climate Change Scenario

Message from the Guest Editors

Lodging can be defined as the permanent displacement of plant stems from their vertical position. Lodging is a persistent problem in agriculture, which has been identified as one of the factors responsible for the lack of improvement in farm yields. Lodging has been shown to reduce the yield of numerous crops, such as oilseed rape, wheat, rice, maize etc., by 30–80%, or sometimes completely failure of crop performance. Yield losses due to lodging are related to restricted assimilate supply and poor seed fill at maturation and to pod shatter prior to and during harvest. Nonetheless, the extent of yield losses depends on the growth stage at which lodging occurs and its severity, with generally greater yield losses from earlier lodging. Lodging compresses the canopy, reducing the transmission of radiation, which concomitantly reduces overall crop photosynthesis and light use efficiency. Lodging is an evitable problem, and it can be considered an abiotic stress.

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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.

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