# Special Issue

# Editorial Board Members' Collection Series: Phenology and Nitrogen Fertilizer under Global Climate Change

### Message from the Guest Editors

Nitrogen (N) is pivotal to crop yield, and the application of N fertilizer in crop production systems is a crucial aspect of modern crop management practices and one of the determining factors that increase crop yield, thereby keeping pace with the increase in the human population. However, most N fertilizers added to crop fields are not taken up by plants but lost to the environment in the form of ammonia, nitrate, and nitrous oxide. This 'reactive N' causes serious environmental problems such as greenhouse gas emissions, air pollution, and detrimental impacts on human health. Furthermore, N cycling in a cropping system is complicated, and solutions must be identified based on an in-depth understanding of the transformation of N in soil and the biochemical processes of N in rice plants. Thus, a portfolio solution is needed in which integrative management should be established to reduce N loss and increase N use efficiency in rice production.

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### Deadline for manuscript submissions

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