

## Special Issue

# Innovations in Assessing G×E×M Interactions: Advancing Agronomy and Modeling Strategies for Sustainable Crop Production

### Message from the Guest Editors

The Food and Agriculture Organization (FAO) of the United Nations has stressed the need to enhance crop productivity and quality using sustainable and integrative scientific approaches. Climate change and Genotype (G)-by-Environment and (E)-by-Management (M) interactions all challenge our efforts to achieve improvement in crop productivity and climate resilience. This Special Issue seeks to unravel the interplay of G×E×M interactions, mainly focusing on advancements in agronomic innovations and modeling techniques, including advanced artificial intelligence (AI) approaches. We invite you to submit original research articles and reviews focusing on innovative agronomic approaches; best management practices; crop, soil and climate models; techniques for coupling experimental studies with modeling; computational approaches such as machine learning and deep learning; AI-assisted tools; and innovative statistical methods to capture the recent advancements in tackling G×E×M interactions for sustainability.

### Guest Editors

Dr. Tajamul Hussain  
Dr. Ruijun Qin  
Dr. Johnny Li

### Deadline for manuscript submissions

closed (28 February 2025)



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### Message from the Editor-in-Chief

*Agronomy* draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet.

*Agronomy* is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

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### Editor-in-Chief

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