Special Issue

Innovative Approaches for Agri-Diagnostics Support Varietal Development and Crop Management

Message from the Guest Editors

Timely and accurate identification and forecasting can lead to early control of diseases, thereby avoiding devastating losses of crops. Traditional farming systems assume that parameters in crops are homogeneous, resulting in practices such as blanket spraying, which does not consider the existing disease management situation. This is influenced through visual identification, mainly when the disease is identified after development of symptoms. Recent advancements in precision tools in agriculture help recognise the spatial and temporal variability within management systems. By combining monitoring and decision support systems (DSS), they allow specific varietal use and management of crops. Similarly, these sensing tools and accompanied modelling approaches are also helping in high throughput phenotyping for generating varieties for disease resistance. Thus, close attention to agri-diagnostics can aid in decision making for management strategies from multiple angles.

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