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Phenotyping Technologies for Resistance Screening, Crop Breeding and Precision Agriculture

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Deadline for manuscript submissions:
closed (1 December 2023)

Message from the Guest Editors

Climate change poses a great threat to sustainable food production worldwide, but the rapid growth of human demand for foods requires that the plant yields have to continue to increase each year. Optimization of soil management, early diagnosis of crop diseases, and breeding of resistant cultivars are the keys to increasing global food production. Phenotyping technologies, from proximal to remote sensing, allow for rapid monitoring of orchards or crops at different scales, thereby informing the genetics of plant traits.

This Special Issue is looking for studies covering different phenotyping technologies management guide the selection of productive plants.

Topics may cover anything on the automatic identification and assessment of plant traits, including stress tolerance, chemical aspects, and structural and functional aspects from individual plant organs to full fields. Hence, different sensing techniques and multiple scales of phenotyping studies focused on resistance screening, crop breeding, precision agriculture are welcome.

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Message from the Editor-in-Chief

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