

ICREA 1st Open Seminar in AY2023

2023. 4.7 (Fri) 15:30 – 17:00

Cross-scale and multi-platform

**characterization of root and shoot traits may
contribute to genetic improvement and
robust stress tolerance**

地上部と根系形質のクロススケールかつマルチプラットフォームな特性評価は遺伝的改良とストレス耐性強化に貢献する



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- 言語 : 英語
- 開催形式 : 対面
- 場所 : 名古屋大学農学部第7講義室
- Language : English
- Venue: Lecture Room No.7, School of Agricultural Sciences, Nagoya University

Plant biologists and breeders face daunting challenges to generate crop varieties tolerant to increasingly extreme and unpredictable environments. Genetic improvement of annual crop plants in these scenarios will be greatly aided by understanding how resource acquisition and use traits integrate. Regulation of many of these traits requires extensive cross-scale and cross organ coordination, ranging from root and shoot architecture to aquaporin functionality. Furthermore, tradeoffs for tolerance to various environmental conditions may limit the utility of a given trait or set of traits, termed an integrated phenotype. Research from rice, common bean and pearl millet, critical food security crops, will be presented to show how multiple beneficial integrated phenotypes can be identified and selected.

■主催 Organizer■
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