

Gene Editing, Gene Taming and Multipathogen Resistance in Crops



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李教授は、ゲノム編集技術による作物の環境適応の分子機構解明とゲノム育種研究に取り組まれています。本セミナーでは、イネの新規な病原抵抗性メカニズムと、それを利用したマルチ病原耐性作物の開発を目指した研究についてご紹介いただきます。お気軽にご参加ください。

Dr. Li studies the stress resilience mechanisms and genome engineering of crop plants. He will talk about the current topics in genome editing technology of rice and other crops for the multipathogen resistance.

Related publications

- Sha et al. Genome editing of a rice CDP-DAG synthase confers multipathogen resistance. **Nature**, 2023, 618, 1017–1023.
- Sun et al. Mutation of OsCDS5 confers broad-spectrum disease resistance in rice. **Mol Plant Pathol**, 2024, 25(e13430).
- Sha & Li. Effector translocation and rational design of disease resistance. **Trends Microbiol**, 2023, 31(12):1202-1205.
- Sun et al. Trans-crop applications of atypical R genes for multipathogen resistance. **Trends Plant Sci**, 2024.
- Zhou et al. Doxorubicin inhibits phosphatidylserine decarboxylase and confers broad-spectrum antifungal activity. **New Phytol**, 2023, 239(1):255-270.