南京农业大学园艺学院

2021系列学术讲座

第1期

Omics Study and Molecular Breeding of Horticultural Crops

Dr. Katsuhiro SHIRATAKE

Dr. Katsuhiro SHIRATAKE is an associate professor of the Laboratory of Horticultural Science at the Graduate School of Bioagricultural Sciences, Japan, Nagoya University

- He focuses on omics- and genome-based studies about fruit development and metabolite accumulation.
- He performs molecular breeding of tomato and floricultural crops.
- He has produced sweeter and pear shape-like tomatoes by CRISPR/Cas9 technology. He also developed a petal specific promoter and produced green flowers by GM.
- He has got prizes such as “園芸学会奨励賞” and “日本農学進歩賞”.
- He is a vice-chairman of the committee of IHC2026 Kyoto.

Publications:

1. Shiratake et al. (2019) Petunia PLEIOTROPIC DRUG RESISTANCE 1 is a strigolactone short-distance transporter with long-distance outcomes. ***Plant Cell Physiology*** 60: 1722–1733.
2. Shiratake and Suzuki (2016) Omics studies of citrus, grape and rosaceae fruit trees. ***Breeding Science*** 66: 122-138.
3. Azuma et al. (2016) A petal-specific InMYB1 promoter from Japanese morning glory: a useful tool for molecular breeding of floricultural crops. ***Plant Biotechnology Journal*** 14: 354–363.
4. Reuscher et al. (2016) Quantitative proteomics based reconstruction and identification of metabolic pathways and membrane transport proteins related to sugar accumulation in developing fruits of pear (*Pyrus communis*). ***Plant Cell Physiology*** 57: 505–518.
5. Suzuki et al. (2015) Multi omics in grape berry skin revealed specific induction of stilbene synthetic pathway by UV-C irradiation. ***Plant Physiology*** 168: 47-59.

报告时间：2021年3月3日（星期三） 上午 9：30 — 10：30

报告形式：腾讯会议直播，会议ID：648538646

仁 勤 樸 誠

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