

ISSN (PRINT) 1674-2052 ISSN (ONLINE) 1752-9867 CN 31-2013/Q 分子植物



Molecular Plant

Volume 13
Number 4

April 6, 2020

www.cell.com/molecular-plant
www.mplant.org

Dodder parasite on cucumber plant



IPPE, CAS

万方数据

CellPress

Molecular Plant

Published on behalf of CSPB and IPPE, CAS

Volume 13 Number 4 April 2020

Spotlights

- 533 **Cuscuta, the Merchant of Proteins** *Andrea Paterlini and Ykä Helariutta*
- 536 **Heat Shocking the Jedi Master: HSP90's Role in Regulating Stomatal Cell Fate** *Aarthi Putarjunan and Keiko U. Torii*
- 539 **Evolution of the "Neutral": Diverse Forms of Wide-Compatibility Haplotypes at the Locus for Reproductive Isolation** *Yohei Koide*
- 541 **Chemical Hide and Seek: Nematode's Journey to Its Plant Host** *Natalie Hamada, Henok Zemene Yimer, Valerie M. Williamson, and Shahid Siddique*

Review Article

- 544 **Molecular Regulation of Plant Responses to Environmental Temperatures** *Yanglin Ding, Yiting Shi, and Shuhua Yang*

Resource Article

- 565 **Base-Editing-Mediated Artificial Evolution of *OsALS1 In Planta* to Develop Novel Herbicide-Tolerant Rice Germplasms** *Yongjie Kuang, Shaofang Li, Bin Ren, Fang Yan, Carl Spetz, Xiangju Li, Xueping Zhou, and Huanbin Zhou*

Research Articles

- 573 **Extensive Inter-plant Protein Transfer between *Cuscuta* Parasites and Their Host Plants** *Nian Liu, Guojing Shen, Yuxing Xu, Hui Liu, Jingxiong Zhang, Shalan Li, Jing Li, Cuiping Zhang, Jinfeng Qi, Lei Wang, and Jianqiang Wu*
- 586 **Strigolactones and Brassinosteroids Antagonistically Regulate the Stability of the D53-OsBZR1 Complex to Determine *FC1* Expression in Rice Tillering** *Zhongming Fang, Yuanyuan Ji, Jie Hu, Renkang Guo, Shiyong Sun, and Xuelu Wang*
- 598 **Histone Deacetylase HDA9 and WRKY53 Transcription Factor Are Mutual Antagonists in Regulation of Plant Stress Response** *Yu Zheng, Jingyu Ge, Chun Bao, Wenwen Chang, Jingjing Liu, Jingjie Shao, Xiaoyun Liu, Lufang Su, Lei Pan, and Dao-Xiu Zhou*
- 612 **YODA-HSP90 Module Regulates Phosphorylation-Dependent Inactivation of *SPEECHLESS* to Control Stomatal Development under Acute Heat Stress in *Arabidopsis*** *Despina Samakovli, Tereza Tichá, Tereza Vavrdová, Miroslav Ovečka, Ivan Luptovčiak, Veronika Zapletalová, Anna Kuchařová, Pavel Křenek, Yuliya Krasylenko, Theoni Margaritopoulou, Loukia Roka, Dimitra Milioni, George Komis, Polydefkis Hatzopoulos, and Jozef Šamaj*
- 634 **bHLH121 Functions as a Direct Link that Facilitates the Activation of *FIT* by bHLH IVC Transcription Factors for Maintaining Fe Homeostasis in *Arabidopsis*** *Rihua Lei, Yang Li, Yuerong Cai, Chenyang Li, Mengna Pu, Chengkai Lu, Yujie Yang, and Gang Liang*

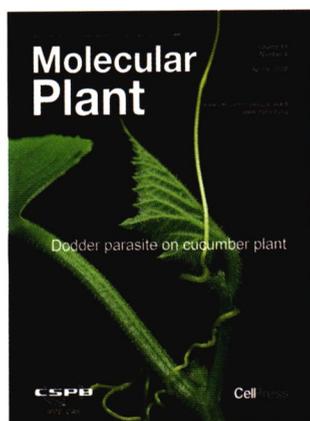
Research Reports

650 **Artificial Selection in Domestication and Breeding Prevents Speciation in Rice**

Jiaming Mi, Guangwei Li, Conghao Xu, Jiangyi Yang, Huihui Yu, Gongwei Wang, Xianghua Li, Jinghua Xiao, Huazhi Song, Qifa Zhang, and Yidan Ouyang

658 **Identification of Naturally Occurring Polyamines as Root-Knot Nematode Attractants**

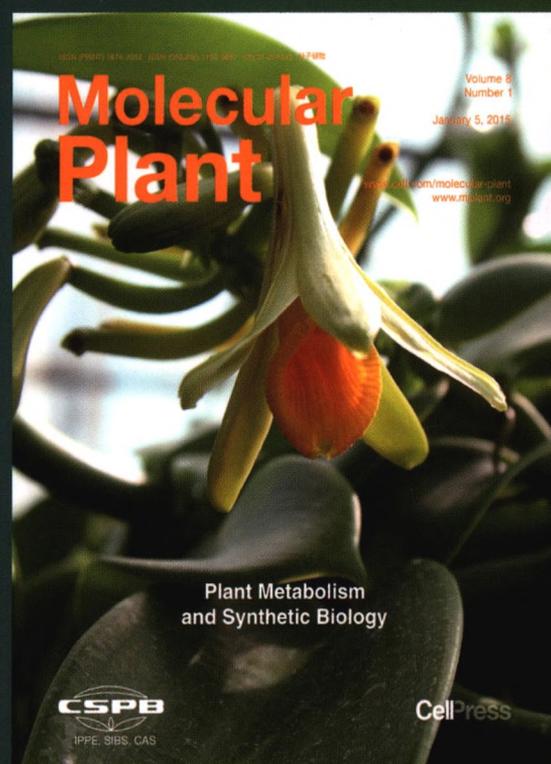
Morihiro Oota, Allen Yi-Lun Tsai, Dan Aoki, Yasuyuki Matsushita, Syuuto Toyoda, Kazuhiko Fukushima, Kentaro Saeki, Kei Toda, Laetitia Perfus-Barbeoch, Bruno Favery, Hayato Ishikawa, and Shinichiro Sawa



On The Cover

Dodder (*Cuscuta campestris*) parasitizing a cucumber (*Cucumis sativus*) plant. Image by: Jingxiong Zhang.

Share your plant biology breakthroughs with the world



Give your plant biology research the global visibility and recognition it deserves. Share your breakthroughs with the world in *Molecular Plant*, now published by Cell Press. Submit your manuscript today!

Learn more and sign up for free e-Tables of Contents at www.cell.com/molecular-plant

CellPress

Postal Delivery No.4-161 ¥210/Issue