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# Molecular Plant



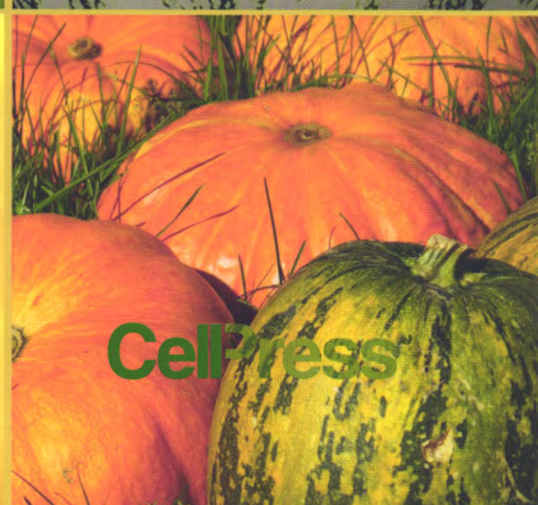
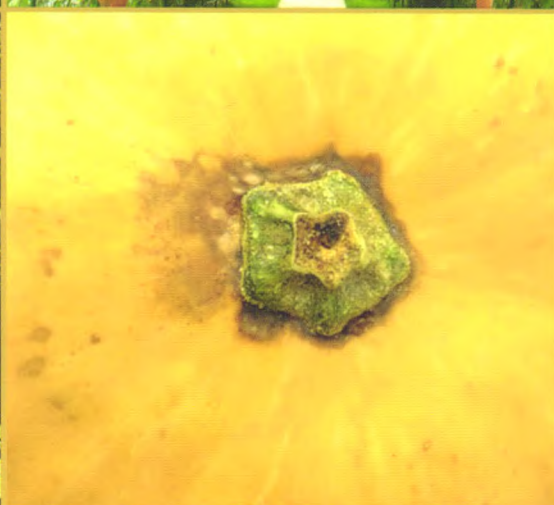
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# Molecular Plant

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## Spotlight

- 1255 Protein Complexes Implicated in RNA Editing in Plant Organelles**

*Bernard Gutmann, Santana Royan, and Ian Small*

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- 1258 Transcriptional Regulation of the Ambient Temperature Response by H2A.Z Nucleosomes and HSF1 Transcription Factors in *Arabidopsis***

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- 1274 H2A.Z Represses Gene Expression by Modulating Promoter Nucleosome Structure and Enhancer Histone Modifications in *Arabidopsis***

*Xiaozhuan Dai, Youhuang Bai, Lihua Zhao, Xianying Dou, Yanhui Liu, Lulu Wang, Yi Li, Weimin Li, Yanan Hui, Xinyu Huang, Zonghua Wang, and Yuan Qin*

- 1293 Karyotype Stability and Unbiased Fractionation in the Paleo-Allotetraploid *Cucurbita* Genomes**

*Honghe Sun, Shan Wu, Guoyu Zhang, Chen Jiao, Shaogui Guo, Yi Ren, Jie Zhang, Haiying Zhang, Guoyi Gong, Zhangcai Jia, Fan Zhang, Jiaying Tian, William J. Lucas, Jeff J. Doyle, Haizhen Li, Zhangjun Fei, and Yong Xu*

- 1307 A Novel RGL2-DOF6 Complex Contributes to Primary Seed Dormancy in *Arabidopsis thaliana* by Regulating a GATA Transcription Factor**

*Pratibha Ravindran, Vivek Verma, Petra Stamm, and Prakash P. Kumar*

- 1321 The Mitochondrion-Targeted PENTATRICOPEPTIDE REPEAT78 Protein Is Required for *nad5* Mature mRNA Stability and Seed Development in Maize**

*Ya-Feng Zhang, Masaharu Suzuki, Feng Sun, and Bao-Cai Tan*

- 1334 Lamin-like Proteins Negatively Regulate Plant Immunity through NAC WITH TRANSMEMBRANE MOTIF1-LIKE9 and NONEXPRESSOR OF PR GENES1 in *Arabidopsis thaliana***

*Tongtong Guo, Xuegao Mao, Hui Zhang, Yu Zhang, Mengdi Fu, Zhenfei Sun, Peng Kuai, Yonggen Lou, and Yuda Fang*

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- 1349 Alternative Polyadenylation of the Sense Transcript Controls Antisense Transcription of *DELAY OF GERMINATION 1* in *Arabidopsis***

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- 1353 Dissecting the Genetic Basis of Grain Shape and Chalkiness Traits in Hybrid Rice Using Multiple Collaborative Populations**

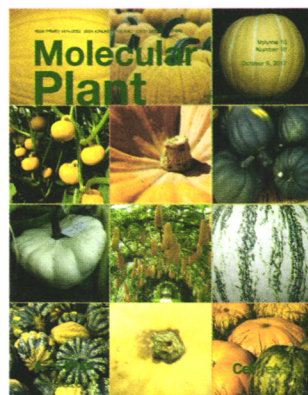
*Junyi Gong, Jiashun Miao, Yan Zhao, Qiang Zhao, Qi Feng, Qilin Zhan, Benyi Cheng, Junhui Xia, Xuehui Huang, Shihua Yang, and Bin Han*

**1357 Auxin Binding Protein 1 Reinforces Resistance to Sugarcane Mosaic Virus in Maize**

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**1361 Flavonoids and ROS Play Opposing Roles in Mediating Pollination in Ornamental Kale (*Brassica oleracea* var. *acephala*)**

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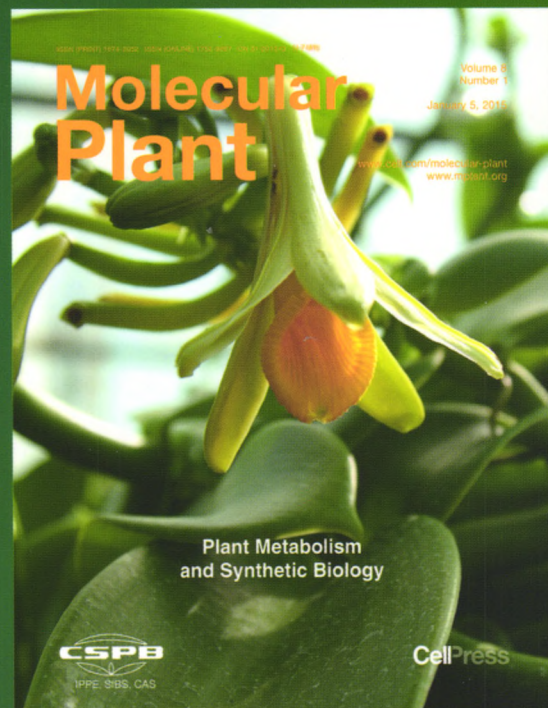


**On The Cover**

Pumpkin fruits with different shapes and colors. In this issue, the high-quality genome sequences of two cucurbits (*Cucurbita maxima* and *C. moschata*) were determined and comparative genomic analyses reveal an ancient allotetraploidy event in *Cucurbita*. Image by: Haizhen Li and Marissa Zuckerman.



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