

Contents

Vol. 45 No. 5 May 31, 2022

Minireviews

Fast and Precise: How to Measure Meiotic Crossovers in *Arabidopsis*

Heejin Kim and Kyuha Choi 273

Manufacturing Therapeutic Exosomes: from Bench to Industry

So-Hee Ahn, Seung-Wook Ryu, Hojun Choi, Sangmin You, Jun Park, and Chulhee Choi 284

Journal Club

“Knowing” Can Be the Medicine for Expecting Mothers

Sun-Kyung Lee 291

Research Articles

E3 ligase BRUTUS Is a Negative Regulator for the Cellular Energy Level and the Expression of Energy Metabolism-Related Genes Encoded by Two Organellar Genomes in Leaf Tissues

Bongsoo Choi, Do Young Hyeon, Juhun Lee, Terri A. Long, Daehee Hwang, and Inhwan Hwang 294

Gene Expression Profiling of the Habenula in Rats Exposed to Chronic Restraint Stress

Hyeijung Yoo, Hyun Jung Kim, Soo Hyun Yang, Gi Hoon Son, Jeong-An Gim, Hyun Woo Lee, and Hyun Kim 306

Trophoblast Cell Subtypes and Dysfunction in the Placenta of Individuals with Preeclampsia Revealed by Single-Cell RNA Sequencing

Wenbo Zhou, Huiyan Wang, Yuqi Yang, Fang Guo, Bin Yu, and Zhaoliang Su 317

GATA2-Mediated Transcriptional Activation of Notch3 Promotes Pancreatic Cancer Liver Metastasis

Heng Lin, Peng Hu, Hongyu Zhang, Yong Deng, Zhiqing Yang, and Leida Zhang 329

The Chromatin Accessibility Landscape of Nonalcoholic Fatty Liver Disease Progression

Byeonggeun Kang, Byunghye Kang, Tae-Young Roh, Rho Hyun Seong, and Won Kim 343

COVER PICTURE

Fe²⁺ ion depletion-induced expression of BΔGFP at the early stage of leaf development (Choi et al., pp. 294-305).