

April 22-May  
**Current Biology**

[Trichomes](#)

Pages R273-R274 Available Online 2019-04-22 Martin Hülskamp

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[Involvement of \*Medicago truncatula\* glutamate receptor-like channels in nitric oxide production under short-term water deficit stress](#)

Pages 1-6 Available Online 2019-02-26

Florian Philippe, Isabelle Verdu, Marie-Christine Morère-Le Paven, Anis M. Limami, Elisabeth Planche

[Composition of Mitochondrial Complex I during the Critical Node of Seed Aging in \*Oryza sativa\*](#)

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## **Plant Journal**

### **Keep calm and carry on: miRNA biogenesis under stress**

P A Manavella, S W Yang, J F Palatnik

First Published: 26 April 2019

### **The genome of cowpea (*Vigna unguiculata* [L.] Walp.)**

Stefano Lonardi, María Muñoz-Amatriaín, Qihua Liang, Shengqiang Shu, Steve I. Wanamaker, Sassoum Lo, Jaakko Tanskanen, Alan H. Schulman, Tingting Zhu, Ming-Cheng Luo, Hind Alhakami, Rachid Ounit, Abid Md. Hasan, Jerome

Verdier, Philip A. Roberts, Jansen R.P. Santos, Arsenio Ndeve, Jaroslav Doležel, Jan Vrána, Samuel A. Hokin, Andrew D. Farmer, Steven B. Cannon, Timothy J. Close

First Published: 24 April 2019

## Nature Cell Biology contents: May 2019 Volume 21 Number 5

15 April 2019

### [Ultrastructure and dynamics of the actin–myosin II cytoskeleton during mitochondrial fission](#)

Using platinum replica electron microscopy, Yang and Svitkina find how myosin II enhances actin-mediated mitochondrial constriction and fission.

### Plant Cell

Auxin-Mediated Cell Cycle Activation during Early Lateral Root Initiation

Siobhan M. Brady

Plant Cell 2019 tpc.19.00322; Advance Publication May 2, 2019; doi:10.1105/tpc.19.00322 **OPEN**

<http://www.plantcell.org/content/early/2019/05/02/tpc.19.00322>

Dissecting the Biological Functions of ARF and Aux/IAA Genes

Naomi Ori

Plant Cell 2019 tpc.19.00330; Advance Publication May 2, 2019; doi:10.1105/tpc.19.00330 **OPEN**

<http://www.plantcell.org/content/early/2019/05/02/tpc.19.00330>

OPENER Is a Nuclear Envelope and Mitochondria Localized Protein Required for Cell Cycle Progression in Arabidopsis

Wei Wang, Xueyang Zhang and Totte Niittyla

Plant Cell 2019 tpc.19.00033; Advance Publication April 25, 2019; doi:10.1105/tpc.19.00033 **OPEN**

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### Cell

#### [The Lateral Organization and Mobility of Plasma Membrane Components](#)

Pages 806-819

Available Online 2019-05-02

Ken Jacobson, Ping Liu, B. Christoffer Lagerholm

#### [Deficient Endoplasmic Reticulum-Mitochondrial Phosphatidylserine Transfer Causes Liver Disease](#)

Pages 881-895.e17

Available Online 2019-05-02

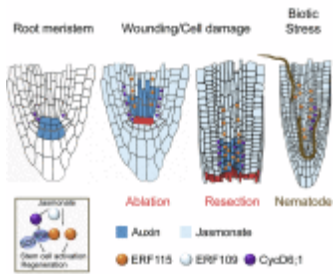
María Isabel Hernández-Alvarez, David Sebastián, Sara Vives, Saška Ivanova, Paola Bartoccioni, Pamela Kakimoto, Natalia Plana, Sónia R. Veiga, Vanessa Hernández, Nuno Vasconcelos, Gopal Peddinti, Anna Adrover, Mariona Jové, Reinald Pamplona, Isabel Gordaliza-Alaguero, Enrique Calvo, Noemí Cabré, Rui Castro, Antonija Kuzmanic, Marie Boutant

#### [A Jasmonate Signaling Network Activates Root Stem Cells and Promotes Regeneration](#)

Pages 942-956.e14

Available Online 2019-04-04

Wenkun Zhou, Jose L. Lozano-Torres, Ikram Blilou, Xiaoyue Zhang, Qingzhe Zhai, Geert Smant, Chuanyou Li, Ben Scheres



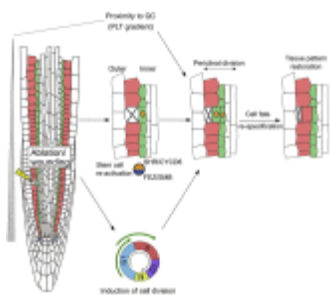
[Re-activation of Stem Cell Pathways for Pattern Restoration in Plant Wound Healing](#)

Pages 957-969.e13

Available Online 2019-05-02

Petra Marhava, Lukas Hoermayer, Saiko Yoshida, Peter Marhavý, Eva Benková, Jiří Friml

*Graphical abstract*



**Molecular Cell : Volume 74, Issue 3**

[Phase Separation Comes of Age: From Phenomenology to Single Molecules](#)

Pages 413-415

Available Online 2019-05-02

Aritra Chowdhury, Miao Yu, Edward A. Lemke

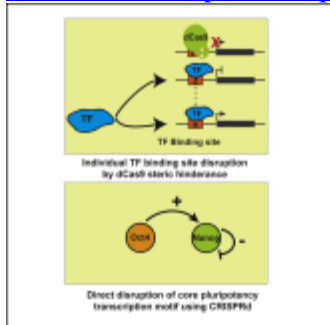
[Retapamulin-Assisted Ribosome Profiling Reveals the Alternative Bacterial Proteome](#)

Pages 481-493.e6

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Sezen Meydan, James Marks, Dorota Klepacki, Virag Sharma, Pavel V. Baranov, Andrew E. Firth, Tõnu Margus, Amira Kefi, Nora Vázquez-Laslop, Alexander S. Mankin

[Reversible Disruption of Specific Transcription Factor-DNA Interactions Using CRISPR/Cas9](#)



Pages 622-633.e4 Available Online 2019-05-02 S. Ali Shariati, Antonia Dominguez,

Shicong Xie, Marius Wernig, Lei S. Qi, Jan M. Skotheim

**PLOS Genetics Volume 15(4) April 2019**

[A stress-response-related inter-compartmental signalling pathway regulates embryonic cuticle integrity in Arabidopsis](#)

Audrey Creff, Lysiane Brocard, Jérôme Joubès, Ludivine Taconnat, Nicolas M. Doll, Anne-Charlotte Marsollier, Stéphanie Pascal, Roberta Galletti, Sophy Boeuf, Steven Moussu, Thomas Widiez, Frédéric Domergue, Gwyneth Ingram

### **Nature Methods**

**Brief Communication** | 15 April 2019

[A photocleavable surfactant for top-down proteomics](#)

A mass-spectrometry-compatible surfactant called Azo effectively solubilizes proteins, is rapidly degraded by ultraviolet irradiation and enables top-down proteomic analysis of membrane proteins.

### **Plant Journal**

**Mitochondrial complex II of plants: subunit composition, assembly, and function in respiration and signaling**

Shaobai Huang, Hans-Peter Braun, Ryan M. R. Gawryluk, A. Harvey Millar

Pages: 405-417 | First Published: 02 January 2019

Mitochondrial complex II is the only component shared between the electron transport chain and the tricarboxylic acid (TCA) cycle, and it plays a key role in respiration, metabolism and signaling in stress and pathogen responses in plants.