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On the Cover: Sporadically, plastids extend and retract stroma-filled tubules called “stromules” that branch and form polygons. Schattat et al. (1667–1677) visualized stromules and the neighboring endoplasmic reticulum (ER) simultaneously and observed a high degree of coincidence in their dynamic behavior. Their findings open new avenues for understanding mechanisms of transfer and exchange of lipids and metabolites between plastids and the ER. The cover picture shows a three-dimensional volume rendered ferredoxin NADP(H) oxidoreductase-enhanced green fluorescent protein-labeled chloroplast in a confocal image with stromule branches extending along the red fluorescent protein-HDEL-highlighted ER. Image and volume rendering by Martin Schattat and Kiah Barton.

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- ^[W]^[OA]iTRAQ Analysis Reveals Mechanisms of Growth Defects Due to Excess Zinc in Arabidopsis. Yoichiro Fukao, Ali Ferjani, Rie Tomioka, Nahoko Nagasaki, Rie Kurata, Yuka Nishimori, Masayuki Fujiwara, and Masayoshi Maeshima 1893

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- ^[C]^[W]^[OA]Excision and Episomal Replication of Cauliflower mosaic virus Integrated into a Plant Genome. Julie Squires, Trudi Gillespie, James E. Schoelz, and Peter Palukaitis 1908

- ^[W]MYB46 Modulates Disease Susceptibility to *Botrytis cinerea* in Arabidopsis. Vicente Ramírez, Astrid Agorio, Alberto Coego, Javier García-Andrade, M. José Hernández, Begoña Balaguer, Pieter B.F. Ouwkerk, Ignacio Zarra, and Pablo Vera 1920

- ^[W]^[OA]Pithy Protection: *Nicotiana attenuata*'s Jasmonic Acid-Mediated Defenses Are Required to Resist Stem-Boring Weevil Larvae. Celia Diezel, Danny Kessler, and Ian T. Baldwin 1936

- ^[C]^[W]^[OA]Proline Dehydrogenase Contributes to Pathogen Defense in Arabidopsis. Nicolás Miguel Cecchini, Mariela Inés Monteoliva, and María Elena Alvarez 1947

- ^[C]^[W]^[OA]The Soybean *Rhg1* Locus for Resistance to the Soybean Cyst Nematode *Heterodera glycines* Regulates the Expression of a Large Number of Stress- and Defense-Related Genes in Degenerating Feeding Cells. Pramod Kaitheri Kandoth, Nagabhushana Ithal, Justin Recknor, Tom Maier, Dan Nettleton, Thomas J. Baum, and Melissa G. Mitchum 1960

- ^[OA]Polysaccharide Compositions of Intervessel Pit Membranes Contribute to Pierce's Disease Resistance of Grapevines. Qiang Sun, L. Carl Greve, and John M. Labavitch 1976

- ^[W]^[OA]Enzymatic Activity of the Soybean Ecto-Apyrase GS52 Is Essential for Stimulation of Nodulation. Kiwamu Tanaka, Cuong T. Nguyen, Marc Libault, Jianlin Cheng, and Gary Stacey 1988

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