Maize ears form at the axils of leaves. In the barren stalk fastigiate1 (baf1) mutant, ears either do not form, or if they do, they develop fused to the internode. This defective organ separation causes the formation of notches along the internode, as seen in the cover image (leaves were removed to show the ear). Gallavotti et al. (pages 1756–1771) show that Baf1 encodes an AT-hook DNA binding protein involved in the initiation of axillary meristems.
BARREN STALK FASTIGIATE1 Is an AT-Hook Protein Required for the Formation of Maize Ears

Andrea Gallavotti, Simon Malcomber, Craig Gaines, Sharon Stanfield, Clinton Whipple, Elizabeth Kellogg, and Robert J. Schmidt

The Arabidopsis C2H2 Zinc Finger INDETERMINATE DOMAIN1/ENHYDROUS Promotes the Transition to Germination by Regulating Light and Hormonal Signaling during Seed Maturation

J. Allan Feurtado, Daiqing Huang, Leigh Wicki-Stordeur, Laura E. Hemstock, Mireille S. Potentier, Edward W.T. Tsang, and Adrian J. Cutler

The Jasmonate-ZIM-Domain Proteins Interact with the WD-Repeat/bHLH/MYB Complexes to Regulate Jasmonate-Mediated Anthocyanin Accumulation and Trichome Initiation in Arabidopsis thaliana

Tiancong Qi, Susheng Song, Qingcuo Ren, Dewei Wu, Huang Huang, Yan Chen, Meng Fan, Wen Peng, Chunmei Ren, and Daoxin Xie

Interaction between the bHLH Transcription Factor FIT and ETHYLENE INSENSITIVE3/ETHYLENE INSENSITIVE3-LIKE1 Reveals Molecular Linkage between the Regulation of Iron Acquisition and Ethylene Signaling in Arabidopsis

Sivasenkar Lingam, Julia Mohrbacher, Tzvetina Brumbarova, Thomas Potuschak, Claudia Fink-Streau, Eddy Blondet, Pascal Geschich, and Petra Bauer

An Arabidopsis E3 Ligase, SHOOT GRAVITROPISM9, Modulates the Interaction between Statoliths and F-Actin in Gravity Sensing

Moritaka Nakamura, Masatsugu Toyota, Masao Tasaka, and Miyo Terao Morita

DELLAs Regulate Chlorophyll and Carotenoid Biosynthesis to Prevent Photooxidative Damage during Seedling Deetiolation in Arabidopsis

Soizic Cheminant, Michael Wild, Florence Bouvier, Sandra Pelletier, Jean-Pierre Renou, Mathieu Erhardt, Scott Hayes, Matthew J. Terry, Pascal Geschich, and Patrick Achard

A Small Zinc Finger Thylakoid Protein Plays a Role in Maintenance of Photosystem II in Arabidopsis thaliana

Yan Lu, David A. Hall, and Robert L. Last

Pause-and-Stop: The Effects of Osmotic Stress on Cell Proliferation during Early Leaf Development in Arabidopsis and a Role for Ethylene Signaling in Cell Cycle Arrest

Aleksandra Skirycz, Hannes Claeyts, Stefanie De Bodt, Akira Oikawa, Shoko Shinoda, Megan Andriankaja, Katrien Maleux, Nubia Barbosa Eloy, Frederik Coppens, Sang-Dong Yoo, Kazuki Saito, and Dirk Inze

Microtubule-Associated Proteins MAP65-1 and MAP65-2 Positively Regulate Axial Cell Growth in Etiolated Arabidopsis Hypocotyls

Jessica R. Lucas, Stephanie Courtney, Mathew Hassfurder, Sonia Dhinra, Adam Bryant, and Sidney L. Shaw

Phloem-Specific Expression of Yang Cycle Genes and Identification of Novel Yang Cycle Enzymes in Plantago and Arabidopsis

Benjamin Pommerrenig, Kirstin Feussner, Wolfgang Zierer, Valeryna Rabinovych, Franz Kleib, Ivo Feussner, and Norbert Sauer

Clathrin Mediates Endocytosis and Polar Distribution of PIN Auxin Transporters in Arabidopsis

Saeko Kitakura, Steffen Vanneste, Stéphanie Robert, Christian Löfke, Thomas Teichmann, Hirokazu Tanaka, and Jirí Friml
Identification of an Arabidopsis Plasma Membrane–Located ATP Transporter Important for Anther Development
Benjamin Rieder and H. Ekkehard Neuhaus

Arabidopsis Nitrate Transporter NRT1.9 Is Important in Phloem Nitrate Transport
Ya-Yun Wang and Yi-Fang Tsay

A Member of the PLEIOTROPIC DRUG RESISTANCE Family of ATP Binding Cassette Transporters Is Required for the Formation of a Functional Cuticle in Arabidopsis
Michael Bessire, Sandra Borel, Guillaume Fabre, Luis Carraça, Nadia Efremova, Alexander Yephremov, Yan Cao, Reinhard Jetter, Anne-Claude Jacquat, Jean-Pierre Métraux, and Christiane Nawrath

The Plant Cuticle Is Required for Osmotic Stress Regulation of Abscisic Acid Biosynthesis and Osmotic Stress Tolerance in Arabidopsis
Zhen-Yu Wang, Liming Xiong, Wenbo Li, Jian-Kang Zhu, and Jianhua Zhu

DOLICHOL PHOSPHATE MANNOSE SYNTHASE1 Mediates the Biogenesis of Isoprenyl-Linked Glycans and Influences Development, Stress Response, and Ammonium Hypersensitivity in Arabidopsis
Nurul Jadid, Alexis Samba Mialoundama, Dimitri Heintz, Daniel Ayoub, Mathieu Erhardt, Jérôme Mutterer, Denise Meyer, Abdelmalek Alioua, Aïn Van Dorsselaer, Alain Rahier, Bilal Camara, and Florence Bouvier

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