FOCUS ISSUE ON THE GRASSES

EDITORIAL
Splendor in the Grasses. Elizabeth A. Kellogg and C. Robin Buell

LETTER TO THE EDITOR

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The Development of Endosperm in Grasses. Paolo A. Sabelli and Brian A. Larkins

Revolutionary Times in Our Understanding of Cell Wall Biosynthesis and Remodeling in the Grasses. Geoffrey B. Fincher

Translational Biology: From Arabidopsis Flowers to Grass Inflorescence Architecture. Beth E. Thompson and Sarah Hake

[1]Hormonal Regulation of Branching in Grasses. Paula McSteen


Genes and Mutations Underlying Domestication Transitions in Grasses. Tao Sang


Integrating Phylogeny into Studies of C4 Variation in the Grasses. Pascal-Antoine Christin, Nicolas Salamin, Elizabeth A. Kellogg, Alberto Vicentini, and Guillaume Besnard

Transcriptional Regulatory Networks in Response to Abiotic Stresses in Arabidopsis and Grasses. Kazuo Nakashima, Yusuke Ito, and Kazuko Yamaguchi-Shinozaki

On the Cover: Grasses, with approximately 10,000 species that have evolved over the last 60 million years, show great morphological diversity. The cover illustration features a few examples of this diversity, along with some of the many cereal grains that were the focus of multiple domestication events in the family. The lower panel shows a biomass yield trial of switchgrass (Panicum virgatum), a promising crop for cellulosic ethanol production, while at the top is a field of sorghum (Sorghum bicolor) [both in field trials at Oklahoma State University, Oklahoma]. The center panel shows multiple grass species and grass grains, including grains of rice (Oryza sativa), spelt (Triticum spelta), barley (Hordeum vulgare), pearl millet (Pennisetum glaucum), rye (Secale cereale), corn (Zea mays), and oat (Avena sativa), and, from the left, inflorescences and plants of bamboo (Phyllostachys aureosulcata), Paspalum ramosum, foxtail millet (Setaria italica), rice, emmer wheat (Triticum dicoccoides), corn, and Coix lachryma-jobi.
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