This Week in Science

Editorial

881 Frontiers in Plant Biology

Letters

887 Sexism and Hypocrisy: J. N. Shurkin; J. Moore ■ The Future of Universities: S. Mac Lane ■ Transmutation of High-Level Nuclear Waste: M. Steinberg ■ Proton Microprobe Development: G. Legge; Editors' Response ■ Indirect Costs and Merit Review: C. R. Scheman

News & Comment

900 Experts Clash Over Cancer Data
903 Soviet Nuclear Testing: The Republicans Say No
904 National Science, Technology Medalists Named
905 Orphan Drug Compromise Bush-Whacked
906 Briefings: Playing Chicken with Mount St. Helens ■ Hubble Sees Birth of a Star ■ German Court Rules on Physics Surveys ■ Who Takes Science? ■ New Life for German Egyptology ■ Dreary Days for British Brains ■ Umbilical Blood as Marrow Substitute

Research News

908 Technical Advances Power Neuroscience
910 Nitrogen-Fixing Bacteria Find New Partners ■ The Name of the Rose, or Hunting for Plant Database
912 Venus Is Looking Too Pristine
913 DOE to Map Expressed Genes — A Stirring Tale of Crystal Growth

Articles

Frontiers in Biology: Plants

923 Phase Change and the Regulation of Shoot Morphogenesis in Plants: R. S. Poethig
931 Genetic Control of Flower Development by Homeotic Genes in Antirrhinum majus: Z. Schwarz-Sommer, P. Huisser, W. Nacken, H. Saedler, H. Sommer
942 The Texas Cytoplasm of Maize: Cytoplasmic Male Sterility and Disease Susceptibility: C. S. Levings III
948 Developmental Biology of a Plant-Prokaryote Symbiosis: The Legume Root Nodule: J.-P. Nap and T. Bisseling
954 Molecular Chaperones: The Plant Connection: R. J. Ellis
959 The Cauliflower Mosaic Virus 35S Promoter: Combinatorial Regulation of Transcription in Plants: P. N. Benfey and N.-H. Chua

Reports

cover  Shown is a wild-type flower of *Antirrhinum majus* (snapdragon), a plant used for genetic and molecular studies of the mechanisms of flower development. Lower parts of the corolla leaves have been removed, revealing reproductive organs (the pistil and four stamens). Z. Schwarz-Sommer et al. have studied homeotic genes in *Antirrhinum majus* (page 931). In this issue is a collection of articles that describe progress in understanding molecular aspects of plant biology. See pages 923 to 966. [Photograph by Dietrich Bock]

970 Ridge Spreading, Subduction, and Sea Level Fluctuations: M. Gurnis

973 Ice Nucleation by Alcohols Arranged in Monolayers at the Surface of Water Drops: M. Gavish, R. Popovitz-Biro, M. Lahav, L. Leiserowitz

975 Chiral Symmetry Breaking in Sodium Chlorate Crystallization: D. K. Kondepudi, R. J. Kaufman, N. Singh

977 Localized All-or-None Calcium Liberation by Inositol Trisphosphate: I. Parker and I. Ivorra


982 A Cytoplasmic Protein Inhibits the GTPase Activity of H-Ras in a Phospholipid-Dependent Manner: M.-H. Tsai, C.-L. Yu, D. W. Stacey

985 Mesodermal Control of Neural Cell Identity: Floor Plate Induction by the Notochord: M. Placzek, M. Tessier-Lavigne, T. Yamada, T. Jessell, J. Dodd


997 Regulation of Gene Expression with Double-Stranded Phosphorothioate Oligonucleotides: A. Bielinska, R. A. Shviddasani, L. Zhang, G. J. Nabel


---

**Book Reviews**

1020 The Impossible Science, reviewed by: B. M. Berger

**Products & Materials**

1029 DNA Purification Kit  ▪ Custom Peptide Synthesis  ▪ Software for Factorial Experimental Designs  ▪ Figure-8 Animal Maze  ▪ Numerical Analyst Program ▪ Agarose for Fine PCR Separation  ▪ Ion Chromatograph  ▪ Literature
Editor's Summary

This copy is for your personal, non-commercial use only.

**Article Tools**
Visit the online version of this article to access the personalization and article tools:
[http://science.sciencemag.org/content/250/4983](http://science.sciencemag.org/content/250/4983)

**Permissions**
Obtain information about reproducing this article:
[http://www.sciencemag.org/about/permissions.dtl](http://www.sciencemag.org/about/permissions.dtl)