This Week in Science

Frontiers in Plant Biology

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

Experts Clash Over Cancer Data

Soviet Nuclear Testing: The Republics Say No

National Science, Technology Medalists Named

Orphan Drug Compromise Bush-Whacked

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

Technical Advances Power Neuroscience

Nitrogen-Fixing Bacteria Find New Partners ■ The Name of the Rose, or Hunting for Plant Database

Venus Is Looking Too Pristine

DOE to Map Expressed Genes

A Stirring Tale of Crystal Growth

Phase Change and the Regulation of Shoot Morphogenesis in Plants: R. S. Poethig

Genetic Control of Flower Development by Homeotic Genes in Antirrhinum majus: Z. Schwarz-Sommer, P. Huisjen, W. Hacken, H. Saedler, H. Sommer


The Texas Cytoplasm of Maize: Cytoplasmic Male Sterility and Disease Susceptibility: C. S. Leving’s III

Developmental Biology of a Plant-Prokaryote Symbiosis: The Legume Root Nodule: J.-P. Nap and T. Bisseling

Molecular Chaperones: The Plant Connection: R. J. Ellis

The Cauliflower Mosaic Virus 35S Promoter: Combinatorial Regulation of Transcription in Plants: P. N. Benfey and N.-H. Chua

Cover: Shown is a wild-type flower of Antirrhinum majus (snapdragon), a plant used for genetic and molecular studies of the mechanics of flower development. Lower parts of the corolla leaves have been removed, revealing reproductive organs (the pistil and four stamens). Z. Schwartz-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 J. 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. Piaczek, M. Tessier-Lavigne, T. Yamada, T. Jessell, J. Dodd


Book Reviews

1020 The Impossible Science, reviewed by: B. M. Berger • Particle Physics and Inflationary Cosmology, D. N. Schramm • Packrat Middens, C. Whitlock • Molecular Systematics, W. S. Moore • Books Received

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