This Week in Science

National Institutes of Health: The Centennial Year


The fos Gene as "Master Switch"

Searching Land and Sea for the Dinosaur Killer

NIH Through the Years


The National Institutes of Health in Its Centennial Year: J. B. Wyngaarden

Multiple Global Regulators Control HIS4 Transcription in Yeast: K. T. Arndt, C. Styles, G. R. Fink

Borehole Measurement of the Newtonian Gravitational Constant: A. T. Hsui

Possible Tornado-Like Tracks on Mars: J. A. Grant and P. H. Schultz

Fish Oil Prevents Insulin Resistance Induced by High-Fat Feeding in Rats: L. H. Storlien, E. W. Kraegen, D. J. Chisholm, G. L. Ford, D. G. Bruce, W. S. Pascoe

The American Association for the Advancement of Science was founded in 1848 and incorporated in 1874. Its objects are to further the work of scientists, to facilitate cooperation among them, to foster scientific freedom and responsibility, to improve the effectiveness of science in the promotion of human welfare, and to increase public understanding and appreciation of the importance and promise of the methods of science in human progress.
COVER  Bioengineer seated at apparatus for making microelectrodes. This year marks the 100th anniversary of the founding of the National Institutes of Health (NIH). Since its inception, NIH's mission has been to improve the health of the American people. To attain this goal, NIH conducts and supports biomedical research into the causes, prevention, and cure of diseases; supports research training and the development of research resources; and makes use of modern methods to communicate biomedical information. This issue contains articles on NIH's approach to that goal: research, training, and communication. See page 861. [Photo courtesy of National Institutes of Health, Bethesda, MD 20205]


896 Does the Release of Potassium from Astrocyte Endfeet Regulate Cerebral Blood Flow?: O. B. PAULSON and E. A. NEWMAN

898 Vein-Cutting Behavior: Insect Counterplay to the Latex Defense of Plants: D. E. DUSSOORD and T. EISNER


903 Short Interval Time Measurement by a Parasitoid Wasp: J. M. SCHMIDT and J. J. B. SMITH


909 The Catalytic Role of the Active Site Aspartic Acid in Serine Proteases: C. S. CRAI, S. ROCZENIAK, C. LARGMAN, W. J. RUTTER

913 Adrenal Medulla Grafts Enhance Recovery of Striatal Dopaminergic Fibers: M. C. BOHN, L. CIFT, F. MARCINO, D. M. GASH

916 The Maize Transposable Element Di Is Spliced from RNA: R. W. WESSLER, G. BARAN, M. VARAGONA

AAAS Meetings

919 1988 AAAS Annual Meeting: Call for Contributed Papers

Book Reviews

924 Forging the Atomic Shield, reviewed by R. CUFF ■ The Changing Humors of Portsmouth, J. W. LEAVITT ■ Magmatic Processes, R. JEANLOZ ■ Books Received

Products & Materials

926 IBM-Compatible Compact PC ■ Statistical Consulting Software ■ Computer Graphics Display System ■ Kit for Inducing Mutations ■ C-Language Compiler ■ Micromanipulator ■ pH and Ion Meter ■ Literature

TABLE OF CONTENTS 817

21 AUGUST 1987