This Week in Science

Editorial
821 National Institutes of Health: The Centennial Year

Letters

News & Comment
838 Experts Fault Leadership on AIDS
Researcher Flouts Gene-Splicing Rules
839 Census a Public Burden?
841 NIH Urged to Forge New Ties to Congress
843 Recollections on the War on Cancer
844 The NIH Legislators
846 Arthritis Institute Tackles Sports
847 OMB Stalks the “Burgeoning Growth of Biomedicine”
848 Biologics Gain Influence in Expanding NCI Program
851 Heart Institute Is Major Player in Clinical Trials

Research News
854 The fas Gene as “Master Switch”
856 Searching Land and Sea for the Dinosaur Killer

Articles
861 NIH Through the Years
869 The National Institutes of Health in Its Centennial Year: J. B. Wyngaarden

Research Articles
874 Multiple Global Regulators Control H1S4 Transcription in Yeast: K. T. Arndt, C. Styles, G. R. Fink

Reports
881 Borehole Measurement of the Newtonian Gravitational Constant: A. T. Hsui
883 Possible Tornado-Like Tracks on Mars: J. A. Grant and P. H. Schultz
885 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
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]


901 Ouabain Resistance Conferred by Expression of the cDNA for a Murine Na⁺,K⁺-ATPase α Subunit: R. B. Kent, J. R. Emanuel, Y. B. Neriah, R. Levenson, D. E. Housman

903 Short Interval Time Measurement by a Parasitoid Wasp: J. M. Schmidt and J. J. Smith


909 The Catalytic Role of the Active Site Aspartic Acid in Serine Proteases: C. S. Craig, S. Roczenik, C. Largman, W. J. Rutte

913 Adrenal Medulla Grafts Enhance Recovery of Strial Dopaminergic Fibers: M. C. Bohn, L. Cupit, F. Marciano, D. M. Gash

916 The Maize Transposable Element Di Is Spliced from RNA: S. R. 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
Science 237 (4817), 819-926.