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LETTERS
Wistar Press: Comment on Closing: C. Gans; Food Additives: M. A. Benarde; Biotechnology and Profit: P. Siekevitz; Cancer Risk Assessment: M. Schach von Wittenau; Mercury in Sperm Whale Meat: J. F. Beary

EDITORIAL
National Science Foundation Hearings: R. W. Heyns

ARTICLES

NEWS AND COMMENT
Iran and America: The Failure of Understanding; No CAT Scans in Mexico for Shah; Uncertainties Mark Space Program of the 1980's; Briefing: House Panel Reassured on Nonproliferation Policy; Carter Says No to WIPP, but DOE May Appeal

RESEARCH NEWS
Planetary Science on the Brink Again; The 1979 Nobel Prize in Physics: S. Coleman

ANNUAL MEETING
Annual Meeting, San Francisco; Toronto Meeting in 1981

BOOK REVIEWS
Evolutionary Biology and Human Social Behavior, reviewed by N. Howell; Images of the Earth, A. L. Donovan; Geological and Geophysical Investigations of Continental Margins, J. F. Dewey; Chemistry
REPORTS

Structure of the Constant and 3' Untranslated Regions of the Murine γ2B Heavy Chain Messenger RNA: P. W. Tucker et al. 1299

Sequence of the Cloned Gene for the Constant Region of Murine γ2B Immunoglobulin Heavy Chain: P. W. Tucker et al. 1303

Genetic Mechanism Accounting for Precise Immunoglobulin Domain Deletion in a Variant of MPC 11 Myeloma Cells: A. L. Kenter and B. K. Bishteen 1307

Benz[a]pyrene-7,8-dihydriodiol 9,10-Oxide Adenosine and Deoxyadenosine Adducts: Structure and Stereochemistry: A. M. Jeffrey et al. 1309

Generation of Unidirectionally Propagated Action Potentials in a Peripheral Nerve by Brief Stimuli: C. van den Honert and J. T. Mortimer 1311

Cigarette Smoke Inhalation Decreases α1-Antitrypsin Activity in Rat Lung: A. Janoff et al. 1313


Killing of Fibroblasts by Dexamethasone or Dibutyryl Adenosine 3',5'- Monophosphate Is Not a Valid Test for Cystic Fibrosis: J. B. Kurz, J. P. Perkins, M. Buchwald 1317

Metabolism of Theophylline to Caffeine in Human Fetal Liver: J. V. Aranda et al. 1319

Choline Excites Cortical Neurons: K. Krnjević and W. Reinhardt 1321

Endocrine Pancreas: Three-Dimensional Reconstruction Shows Two Types of Islets of Langerhans: D. Baetens et al. 1323

Sex Discrimination in Gerris remigis: Role of a Surface Wave Signal: R. S. Wilcox 1325

Shifts in Perception of Size After Adaptation to Gratings: F. S. Frome et al. 1327

Genetic Resistance to Aflatoxin in Japanese Quail: H. L. Marks and R. D. Wyatt 1329

PRODUCTS AND MATERIALS

Carbon Dioxide Electrode; Reversible HPLC Columns; Autoradiograph Image Enhancer; Septic Leach Detector; High-Pressure Liquid Chromatography; Scanning Electron Microscope; Scientific Computer; Literature 1332

COVER

Masked water strider (Gerris remigis) with a samarium-cobalt magnet glued to its right foreleg. A computer-generated surface wave signal of ≈ 90 waves per second (highlighted by color bands) is imitating the male's signal through vertical oscillations of the magnet, which is driven by electromagnetic fluctuations from an encircling wire coil. Males can discriminate sex solely by presence or absence of this signal (body length of insect, about 14 millimeters). See page 1325. [R. Stimson Wilcox, State University of New York, Binghamton]