This Week in Science

Editorial

New Risks of Prejudice, Ethnocentrism, and Violence: D. A. HAMBURG

Letters

The New Format: W. F. GOODELL; R. A. MEISS; B. NELSON; C. T. HILL; D. E. MORRISON; J. DUFILHO; C. F. GIBBS; R. F. OLIVO; P. D. BARDIS; F. C. G. HOSKIN; M. T. SPRANGERS; C. H. KINSLEY • Ice-Nucleating Bacteria: J. LINDEMANN, G. J. WARREN, T. V. SUSLOW

News & Comment

Diet Advice, with a Grain of Salt and a Large Helping of Pepper

Research News

RNA Catalysis Gives Fresh Perspective on the Origin of Life

Association Affairs

Annual Report of the Executive Officer

Articles

Quantum Monte Carlo: D. CEPERLEY and B. ALDER

Research Articles

Mechanism of Transmitter Release: Voltage Hypothesis and Calcium Hypothesis: R. S. ZUCKER and L. LANDO

Reports

Strain Accumulation in the Shumagin and Yakataga Seismic Gaps, Alaska: J. C. SAVAGE, M. LISOWSKI, W. H. PRESCOTT

Translocation of Protein Kinase C Activity May Mediate Hippocampal Long-Term Potentiation: R. F. AKERS, D. M. LOVINGER, P. A. COLLEY, D. J. LINDEN, A. ROUTTENBERG

Equine Infectious Anemia Virus gag and pol Genes: Relatedness to Visna and AIDS Virus: R. M. STEPHENS, J. W. CASEY, N. R. RICE

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.

597 All Members of the MHC Multigene Family Respond to Thyroid Hormone in a Highly Tissue-Specific Manner: S. ISUMO, B. NADAL-GINARD, V. MAHDAVI


603 Protein Modification by Amino Acid Addition Is Increased in Crushed Sciatic But Not Optic Nerves: S. SHVYNE-ATHWAL, R. V. RICCO, G. CHAKRABORTY, N. A. INGOGLIA

605 Herbivores' Direct and Indirect Effects on Algal Populations: R. W. STERNER

607 Stress-Induced Inhibition of Reproductive Functions: Role of Endogenous Corticotropin-Releasing Factor: C. RIVIER, J. RIVIER, W. VALE

609 Obesity, Overeating, and Rapid Gastric Emptying in Rats with Ventromedial Hypothalamic Lesions: J. DUGGAN and D. A. BOOTH

611 Postindustrial Melanism in the Peppered Moth: L. M. COOK, G. S. MANI, M. E. VARLEY

613 Expression of an Epidermal Antigen Used to Study Tissue Induction in the Early Xenopus laevis Embryo: R. M. AKERS, C. R. PHILLIPS, N. K. WESSELS

616 Molecular Basis for the Auxin-Independent Phenotype of Crown Gall Tumor Tissues: M. F. THOMASOW, S. HUGLY, W. G. BUCHHOLZ, L. S. THOMASOW


623 R&D and the Budget Crisis ■ Advance Registration Form

625 Biology of Fertilization, reviewed by D. EPFL ■ Honeybee Ecology, E. O. WILSON ■ Geological Factors and the Evolution of Plants, R. A. SPICER ■ The Molecular Biology of Poliovirus, E. ERENFELD ■ The Chemistry of Weathering, L. R. GARDNER ■ Books Received

629 Large-Scale Ultrasonic Liquid Processor ■ Alternative Laboratory Unit ■ Gradient Formers ■ Culture Plate Insert ■ Immunoassay Washer ■ Fixed-Volume Dispenser ■ Spectrum Analysis Probe ■ Literature

Board of Directors: Robert McC. Adams, Robert W. Berliner, Mildred Dreesehaus, Donald N. Langenberg, Dorothy Nelkin, John E. Sawyer, Sheila E. Widnall, Linda S. Wilson, William T. Golden, Treasurer, William D. Carey, Executive Officer


