531 This Week in Science

Editorial

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

Letters

535 The New Format: W. F. GOODELL; R. A. MEISS; B. NELSON; C. T. HILL; D. E. MORRISON; J. DUFILO; 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

537 Diet Advice, with a Grain of Salt and a Large Helping of Pepper
540 Britain, France Play It Safe on Channel Tunnel
541 Europeans Embrace Technology Assessment
542 Briefing: EPA Proposes Ban on Asbestos ■ Smelter Pollution Provides Chance for Acid Rain Study ■ Who Should Have Rights to a Patient's Cells? ■ Zech Named NRC Head ■ NBS Plans to Shut Down Source of New Talent

Research News

545 RNA Catalysis Gives Fresh Perspective on the Origin of Life
546 Wisconsin Storage Ring Reaches 120 Milliams
548 Sinking Slabs Puncture Layered Mantle Model

Association Affairs

551 Annual Report of the Executive Officer

Articles

555 Quantum Monte Carlo: D. CEPERLEY and B. ALDER

Research Articles

574 Mechanism of Transmitter Release: Voltage Hypothesis and Calcium Hypothesis: R. S. ZUCKER and L. LANDÓ
579 Role of Seasonality in the Evolution of Climate During the Last 100 Million Years: T. J. CROWLEY, D. A. SHORT, J. G. MENGEL, G. R. NORTH

Reports

585 Strain Accumulation in the Shumagin and Yakataga Seismic Gaps, Alaska: J. C. SAVAGE, M. LISOWSKI, W. H. PRESCOTT
587 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
589 Equine Infectious Anemia Virus gag and pol Genes: Relatedness to Visna and AIDS Virus: R. M. STEPHENS, J. W. CASEY, N. R. RICE

597 All Members of the MHC Multigene Family Respond to Thyroid Hormone in a Highly Tissue-Specific Manner: S. Izumo, B. Nadal-Ginard, V. Mahdavi


603 Protein Modification by Amino Acid Addition Is Increased in Crushed Sciatic But Not Optic Nerves: S. Shyne-Atthwal, R. V. Riccio, G. Chakraborty, N. A. Ingoglia

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

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


616 Molecular Basis for the Auxin-Independent Phenotype of Crown Gall Tumor Tissues: M. F. Thomashow, S. Hugly, W. G. Buchholz, L. S. Thomashow


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


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