LETTERS

Understanding Iran: J. W. Corbett; T. A. Wertime; Nuclear Safety: The SL-1 Accident: C. E. Ashbaugh; "Earthquake-Resistant" Buildings: R. Berger

EDITORIAL

Synthetic Chemicals from Coal

ARTICLES

Environmental Applications of Magnetic Measurements: R. Thompson et al.
Disorders of Human Hemoglobin: A. Bank, J. G. Mears, F. Ramirez

NEWS AND COMMENT

Scientists Fail to Solve Vela Mystery
Psychotherapy Works, But for Whom?
The Business of Science
Briefing: China Gets a Satellite Station; Nadar Assails ETS; Women Gain Parity in Smoking-Related Ailments
Science Exchanges Chilled by Soviet Invasion of Afghanistan

RESEARCH NEWS

Three-Spacecraft Team Probes the Magnetosphere

AAAS NEWS

1979 AAAS Awards Presented in San Francisco; Professional Ethics Discussed at Workshop: Rosemary Chalk and Sallie Chafet; Reviewers Sought; Implementation of Solar Energy Subject of Seminar; Scroll of Honor Presented to Teague; Pacific Division to Meet at Davis 22-27 June; 50-Year Members Acknowledged; Elvin Charles Stakman 1885-1979

BOOK REVIEWS

Nuclear Physics in Retrospect, reviewed by P. Forman; Sources of Gravitational Radiation, W. H. Press; The Terrestrial Ecology of Aldabra, F. R. Grant; Charles Darwin and the Problem of Creation, D. Ospovat; Pathways in Malacology, A. J. Kohn; Books Received
REPORTS

New Protein Sequenator with Increased Sensitivity; M. W. Hunkapiller and L. E. Hood .......................................................... 523

—Human Fibroblast Interferon: Amino Acid Analysis and Amino Terminal Amino Acid Sequence: E. Knight, Jr., et al. ........................................... 525

Amino Terminal Sequence of the Major Component of Human Lymphoblastoid Interferon: K. C. Zoon et al. ........................................... 527

Mouse Interferons: Amino Terminal Amino Acid Sequences of Various Species: H. Taiera et al. .................................................... 528

Splanchnic Somatostatin: A Hormonal Regulator of Nutrient Homeostasis: V. Schusdziarra et al. ........................................... 530

Laminar Organization of Thalamic Projections to the Rat Neocortex: M. Herkenham .............................................................. 532

Erythrosine (Red No. 3) and Its Nonspecific Biochemical Actions: What Relation to Behavioral Changes? R. B. Mailman et al. ........................................................................... 535

Compensatory Increase in Tyrosine Hydroxylase Activity in Rat Brain After Intraventricular Injections of 6-Hydroxydopamine: A. L. Acheson, M. J. Zigmound, E. M. Stricker ....................................................... 537

—Selective Inhibition of Glycoprotein and Membrane Protein of Vesicular Stomatitis Virus from Interferon-Treated Cells: R. K. Maheshwari, F. T. Jay, R. M. Friedman ..................................................................................... 540

—Red Blood Cells: Their Dual Role in Thrombus Formation: V. T. Turitto and H. J. Weiss ....................................................................... 541

Symbolic Communication Between Two Pigeons (Columbia livia domestica): R. Epstein, R. P. Lanza, B. F. Skinner ........................................... 543

Sun Compensation by Bees: J. L. Gould .................................................................................................................................................. 545

Electroreception in the Ratfish (Hydrolagus colliei): R. D. Fields and G. D. Lange ..................................................................................... 547

Mendelian Units of Inheritance Control Color Preferences in Quail Chicks (Coturnix coturnix japonica): J. K. Kovach ........................................................................... 549

Cigarette Smoking Associated with Sleep Difficulty: C. R. Soldatos et al. .............................................................................................. 551

Auditory and Vocal Nuclei in the Frog Brain Concentrate Sex Hormones: D. B. Kelley .......................................................................................... 553

Spatial Adaptation of Short-Wavelength Pathways in Humans: C. F. Stromeyer III et al. ..................................................................................... 555


Behavior Patterns in Cod Released by Electrical Stimulation of Olfactory Tract Bundlets: K. B. Doving and R. Selset ........................................... 559

COVER

Rat cortex showing autoradiographically labeled nerve fibers which appear as whitish bands by dark-field illumination through the microscope. The amino acid isotope marker was injected into the lateral posterior nucleus of the thalamus. The labeled thalamocortical fibers terminate in cortical layers I and VI of the peristriate visual area (top and bottom) but in layers I and V of the striate area (center) (about × 62). See page 532. [Miles Herkenham, National Institute of Mental Health, Bethesda, Maryland]