963  This Week in Science

**Editorial**

965  Setting Priorities in Science

**Policy Forum**

967  Crisis in Biosystematics of Arthropods: J. H. Oliver, Jr.

**Letters**

968  Fraud Allegations: H. H. Wortis, B. T. Huber, R. T. Woodland  ■  PRC Students Abroad: X. Hao; P. Suedfeld  ■  Estimates of Species Duration: M. P. Russell and D. R. Lindberg; J. Jablonski

**News & Comment**

973  Testing the Limits at Mach 25
976  A Change of Heart
977  Rethinking Technology’s Role in Economic Change
978  Giving the Muse a Helping Hand
980  Briefing: NSF Appoints Two Assistant Directors  ■  Legislating Labs as Drug-Free Workplaces  ■  Soviet Satellite in Trouble; Groups Call for Ban on Orbiting Reactors  ■  National Science Board Elects Good and Day  ■  Curien Returns as French Science Minister
981  Biological Defense Defended

**Research News**

982  Chromosomes: The Ends in View
984  A Revolution of Ideas in Agricultural Origins
986  Pluto’s Orbital Motion Looks Chaotic

**Articles**

991  Sampling Rare and Elusive Populations: S. Sudman, M. G. Sirken, C. D. Cowan
996  Abrupt Climate Change and Extinction Events in Earth History: T. J. Crowley and G. R. North

**Research Articles**


**Reports**

1017  Aluminum-Induced Calcium Deficiency Syndrome in Declining Red Spruce: W. C. Shortle and K. T. Smith
1018  Antarctic Ozone Depletion Chemistry: Reactions of N2O3 with H2O and HCl on Ice Surfaces: M. A. Tolbert, M. J. Rossi, D. M. Golden
1021  Evidence for Highly Reflecting Materials on the Surface and Subsurface of Venus: R. F. Jurgen, M. A. Slade, R. S. Saunders

---

* SCIENCE is published weekly on Friday, except the last week in December, and with an extra issue in February by the American Association for the Advancement of Science, 1333 H Street, NW, Washington, DC 20005. Second-class postage (publication No. 484460) paid at Washington, DC, and at an additional entry. Now combined with The Scientific Monthly. Copyright © 1968 by the American Association for the Advancement of Science. The title SCIENCE is a registered trademark of the AAAS. Domestic individual membership and subscription (51 issues): $70; Domestic institutional subscription (51 issues): $110. Foreign postage extra: Canada $32, other (surface mail) $32, air-surface via Amsterdam $85. First class, airmail, school-year, and student rates on request. Single copies $3.00 ($3.50 by mail); back issues $4.50 ($5.00 by mail); Biotechnology issue, $5.50 ($6 by mail); classroom rates on request; Guide to Biotechnology Products and Instruments $16 ($17 by mail). Change of address: allow 6 weeks, giving old and new addresses and seven-digit account number. Authorization to photocopy material for internal or personal use under certain circumstances is granted to libraries and users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that the base fee of $1 per page plus $.10 per page is paid directly to CCC, 21 Congress Street, Salem, Massachusetts 01970. The identification code for Science is 0036-8075/83 $1 + .10. Postmaster: Send Form 3579 to Science, 1333 H Street, NW, Washington, DC 20005. Science is indexed in the Reader’s Guide to Periodical Literature and in several specialized indexes.

* 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.
HIV-I Production from Infected Peripheral Blood T Cells After HTLV-I Induced Mitogenic Stimulation: J. A. ZACK, A. J. CANN, J. P. LUGO, I. S. Y. CHEN

Early Signal Transduction by the Antigen Receptor Without Commitment to T Cell Activation: M. A. GOLDSMITH AND A. WEISS

Essential Fatty Acid Depletion of Renal Allografts and Prevention of Rejection: G. F. SCHREINER, W. FLYE, E. BRUNT, K. KORBER, J. B. LERKOWITZ

Inhibition of Self-Binding Antibodies (Autobodies) by a V_{H}-Derived Peptide: C.-Y. KANG, T. K. BRUNCK, T. KIEBER-EMMONS, J. E. BLALOCK, H. KOHLER


Assembly of a Functional Immunoglobulin Fv Fragment in Escherichia coli: A. SKERRA AND A. PLOCHTHUN

Escherichia coli Secretion of an Active Chimeric Antibody Fragment: M. BETTER, C. P. CHANG, R. R. ROBINSON, A. H. HORWITZ