LETTERS
Electronic Publishing: R. F. Clarke; Recombinant DNA Committee: A. K. Ahmed;
Parapsychology Report: C. H. Dodge

EDITORIAL
A Biological Survey of the United States: M. Kosztarab

ARTICLES
Dynamics of Molecular Motion at Single-Crystal Surfaces: J. C. Tully
and M. J. Cardillo
A Replication Cycle for Viroids and Other Small Infectious RNA’s:
A. D. Branch and H. D. Robertson
Infinite Resources: The Ultimate Strategy: H. E. Goeller and A. Zucker

NEWS AND COMMENT
America Dominates in Biotechnology
EDB Contamination Kindles Federal Action
Florida Flip-Flops on EDB
Briefing: University of California Sees Budget Turnaround; Bamboo Loss
Endangers Giant Pandas in China; New Entry Among Patrons of Medical
Research
Lab Animal Welfare Issue Gathers Momentum

RESEARCH NEWS
Globin Gene Studies Create a Puzzle
Sea-Floor Spreading Is Not So Variable
First Look Inside Adenoviruses
A Renewed Interest in Immobilized Enzymes
How Do You Immobilize an Enzyme? .................................................. 475
Forecasting of Severe Storms Improved ................................................ 477

ASSOCIATION AFFAIRS 1983 Annual Report of the Executive Officer: W. D. Carey .................................................. 478

BOOK REVIEWS Chicago Lawyers, reviewed by R. D. Schwartz; A Feeling for the Organism, J. R. Laughnan; Great Geological Controversies, R. H. Dott, Jr.; Eddies in Marine Science, W. J. Schmitz, Jr.; Books Received .................................................. 481

REPORTS Lignin Signature of Aquatic Humic Substances: J. R. Ertel, J. I. Hedges, E. M. Perdue .................................................. 485
Human Proto-Oncogene Nucleotide Sequences Corresponding to the Transforming Region of Simian Sarcoma Virus: S. F. Josephs et al. .................................................. 487
Selenium Deficiency in Cattle Associated with Heinz Bodies and Anemia: J. G. Morris et al. .................................................. 491
Inheritance of Functional Foreign Genes in Plants: R. B. Horsch et al. .................................................. 496
Dependence of Thymus Development on Derivatives of the Neural Crest: D. E. Bockman and M. L. Kirby .................................................. 498
The Edge Cell, a Possible Intraspinal Mechanoreceptor: S. Grillner, T. Williams, P.-A. Lagerbäck .................................................. 500
Kainic Acid Induces Sprouting of Retinal Neurons: L. Peichl and J. Bolz .................................................. 503
Technical Comments: All Variegated Plants Are Not Chimeras: M. Marcorligiano and R. N. Stewart; R. E. Norris, R. H. Smith, K. C. Vaughn .................................................. 505

ROTHY NELKIN M. E. SAWYER SHEILA E. WIDNALL HARRE ZUCKERMAN

CLIMATE AND GEOGRAPHY (E) BIOLOGICAL SCIENCES (G) ANTHROPOLOGY (H)
Sid F. Meriam Charlotte P. Mangun Richard A. Gould
homas Dutro, Jr. Walter Chavin Priscilla Reining
TERICAL SCIENCES (N) AGRICULTURE (O) INDUSTRIAL SCIENCE (P)
man Kretschner Lao M. Walsh Nat C. Robertson
athan E. Rhoads Coy T. Wilson Robert L. Stern
STATISTICS (O) ATMOSPHERIC AND HYDROSPHERIC (W) GENERAL (X)
John E. Moses Hara A. Pandisley Lora M. Shields
ard J. Wegman Bernice Ackerman Rodney W. Nichols

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COVER

Neurons (A-type horizontal cells) in a cat retina showing morphological changes after treatment with the neurotoxin kainic acid. A toxin concentration gradient results in a sharp boundary separating a region of normal horizontal cell density from a region of total cell loss (top). The surviving cells, exposed to a sublethal kainic acid concentration, have contracted processes and therefore reduced overlap. In addition, they grow new processes into inadequate retinal layers. The field is 800 by 600 micrometers. See page 503. [Leo Peichl and Jürgen Bolz, Max-Planck-Institut für Hirnforschung, Frankfurt, West Germany]