This Week in Science

Editorial
717 Preserving Biodiversity

Letters

ScienceScope
727 Classifying NSF social scientists; declassifying army biodefense policy; etc.

News & Comment
728 Hints Emerge from the Gallo Probe
729 Popovic Blasts Accusers, Demands Report Withdrawn
730 The Gallo Factor: Questions Remain
733 British Mathematicians Count Their Numbers
734 Penicillin’s Forgotten Man: Norman Heatley

Research News
736 Extinction: Are Ecologists Crying Wolf?
739 The Private Lives of Globular Clusters
740 To Everything (Tern, Tern, Tern) There Is a Season ■ Outfoxing the Foxes
742 New Role Found for a Common Protein “Motil”
743 Briefings: Research Entourage Leaves Rockefeller ■ Beyond the Great Wall? ■ Humboldt Penguin—He or She? ■ Fewer Prospectors, Brighter Prospects ■ Genome Assignment for Industry

Perspectives
744 Conservation: Tactics for a Constant Crisis: M. E. Soulé
750 An Evolutionary Basis for Conservation Strategies: T. L. Erwin
752 Balancing Species Preservation and Economic Considerations: H. J. Morowitz
754 Extinctions: A Paleontological Perspective: D. Jablonski

Article
758 Biodiversity Studies: Science and Policy: P. R. Ehrlich and E. O. Wilson

Research Article
762 Convergence of Ets- and Notch-Related Structural Motifs in a Heteromeric DNA Binding Complex: C. C. Thompson, T. A. Brown, S. L. McKnight

Reports
769 Ballistic 2-D Imaging Through Scattering Walls Using an Ultrafast Optical Kerr Gate: L. Wang, P. P. Ho, C. Liu, G. Zhang, R. R. Alfano
772 Modified Phases of Diamond Formed Under Shock Compression and Rapid Quenching: H. Hirai and K.-i. Kondo
The fossil record is rich in information on past changes in biodiversity and patterns of extinction. Echinoderms such as those on the cover (maximum test diameter 8 centimeters; arms may exceed 1 meter), Uintacrinus socialis Grinnell from Kansas (Smoky Hill Member, Niobrara Formation), are thought to have adopted a planktonic existence, and they were abundant and globally distributed in Late Cretaceous seas. The Uintacrinida order suddenly became extinct well before the end of the Cretaceous. See p. 754. [Photo by John Weinstein, courtesy of the Field Museum of Natural History]

774 Observations of Extreme Upwelling Filaments in the Southeast Atlantic Ocean: J. R. E. LUTJEHARMS, F. A. SHILLINGTON, C. M. DUNCOMBE RAE
781 Purification of an Allene Oxide Synthase and Identification of the Enzyme as a Cytochrome P-450: W.-C. SONG and A. R. BRASH
786 Variable Effects of Phosphorylation of Pit-1 Dictated by the DNA Response Elements: M. S. KAPILOFF, Y. FARKASH, M. WEGNER, M. G. ROSENFIELD
792 Design and Synthesis of a Mimetic from an Antibody Complementarity-Determining Region: H. U. SARAGOVI, D. FITZPATRICK, A. RAKTABUTR, H. NAKANISHI, M. KAHN, M. I. GREENE
795 Photoperiodism and Effects of Indoleamines in a Unicellular Alga, Gonyaulax polyedra: I. BALZER and R. HARDELAND
797 Similar Neuronal Alterations Induced by Axonal Injury and Learning in Aplysia: E. T. WALTERS, H. ALIZADEH, G. A. CASTRO

Technical Comment

Book Reviews
803 The Biology of the Naked Mole-Rat, reviewed by G. R. MICHEMER Paleoclimatology, J. OVERPECK Graptolites, D. L. CLARK Cellular and Molecular Immunology, P. M. ALLEN Books Received

Products & Materials
807 Current Contents on Diskette Taq DNA Polymerase Reverse Transcription in a Single Tube Talking Gel Reader Periodic Table Database Portable Dew Point Generator Vacuum Scopes Automatic Direct Blotting System Literature
Science 253 (5021), 715-807.