715 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729 Popovic Blasts Accusers, Demands Report Withdrawn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
731 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 “Motif”
743 Briefings: Research Entourage Leaves Rockefeller ■ Beyond the Great Wall? ■ Humboldt Penguin—He or She? ■ Fewer Prospects, Brighter Prospects ■ Genome Assignment for Industry

Perspectives
744 Conservation: Tactics for a Constant Crisis: M. E. SOULE
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
772 Modified Phases of Diamond Formed Under Shock Compression and Rapid Quenching: H. HIRAI AND K.-I. KONDO
Cover 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. Brasch


786 Variable Effects of Phosphorylation of Pit-1 Dictated by the DNA Response Elements: M. S. Kapiloff, Y. Farkash, M. Wegner, M. G. Rosenfeld

789 Identification of Ets- and Notch-Related Subunits in GA Binding Protein: K. LaMarco, C. C. Thompson, B. P. Byers, E. M. Walton, S. L. McKnight

792 Design and Synthesis of a Mimetic from an Antibody Complementarity-Determining Region: H. U. Saragovi, D. Fitzpatrick, A. Raktabutr, H. Nakatishii, 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. Michener Paleoclimatology, J. Overpeck, reviewed by J. 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