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Surprise! A Fungus Factory for Taxol?
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The Cost of Scientific Pork Keeps Going Up
Early AZT Takes a Pounding in French-British 'Concorde' Trial

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Forging an Asteroid-Meteorite Link
M. J. Gaffey
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Chips off of Asteroid 4 Vesta: Evidence for the Parent Body of Basaltic Achondrite Meteorites
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Fishes of the suborder Scombroidei, like this school of *Euthynnus affinis* in the Red Sea, are capable of endothermy. A molecular phylogeny of this suborder (which includes mackerels, bonitos, tunas, and billfishes) indicates that endothermy has evolved three times within Scombroidei. Comparison of endothermic scombrids with their closest living ectothermic relatives provides a further understanding of how endothermy evolved. See page 210 and the News story on page 160. [Photo: Jeffrey L. Rotman/Peter Arnold, Inc.]

**REPORTS**

Silica Precipitation in Fractures and the Evolution of Permeability in Hydrothermal Upflow Zones
R. P. Lowe, P. Van Cappellen, L. N. Germanovich

Production of Metallo-Carbohedrenes in the Solid State

Metastability of Superconducting Compounds in the Y-Ba-Cu-O System
E. L. Brosha, P. K. Davies, F. H. Garzon, I. D. Raistrick

Electrostatic Screening of Charge and Dipole Interactions with the Helix Backbone
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Pressure-Induced Amorphization of R-Al₅Li₃Cu: A Structural Relation Among Amorphous Metals, Quasi-Crystals, and Curved Space
R. R. Winters and W. S. Hammack

Velocity Structure of a Gas Hydrate Reflector
S. C. Singh, T. A. Minshull, G. D. Spence

Impairment of V(D)J Recombination in Double-Strand Break Repair Mutants

Evolution of Endothermy in Fish: Mapping Physiological Traits on a Molecular Phylogeny
B. A. Block, J. R. Finnerty, A. F. R. Stewart, J. Kidd

Taxol and Taxane Production by *Taxomyces andreanae*, an Endophytic Fungus of Pacific Yew
A. Stierle, G. Strobel, D. Stierle

Frequency-Dependent Natural Selection in the Handedness of Scale-Eating Cichlid Fish
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Distinct Functions of SR Proteins in Alternative Pre-mRNA Splicing
A. M. Zahler, K. M. Neugebauer, W. S. Lane, M. B. Roth

Spatially Resolved Dynamics of cAMP and Protein Kinase A Subunits in Aplysia Sensory Neurons

Increased Frequency of Calcium Waves in *Xenopus laevis* Oocytes That Express a Calcium-ATPase
F. Camacho and J. D. Lechleiter

Acceleration of Intracellular Calcium Waves in Xenopus Oocytes by Calcium Influx
S. Girard and D. Clapham

Force of Single Kinesin Molecules Measured with Optical Tweezers
S. C. Kuo and M. P. Sheetz

Decreased Expression of Myotonin–Protein Kinase Messenger RNA and Protein in Adult Form of Myotonic Dystrophy

Regulation of CREB Phosphorylation in the Suprachiasmatic Nucleus by Light and a Circadian Clock
D. D. Ginny, J. M. Kornhauser, M. A. Thompson, H. Bading, K. E. Mayo, J. S. Takahashi, M. E. Greenberg

**TECHNICAL COMMENTS**

Effect of Scale on Food Web Structure
N. D. Martinez, K. Havens

**Cover**

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Meteorite origins

**Indicates accompanying feature**