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Science • Volume 260 • 9 April 1993
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. Lowell, 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**
  D. J. Lockhart and P. S. Kim

- **Pressure-Induced Amorphization of R-Al,Li,Cu: 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**
  M. Hori

- **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 Sensory Neurons**

- **Increased Frequency of Calcium Waves in Xenopus laevis Oocytes That Express a Calcium-ATPase**
  P. 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. Ginty, 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

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Editor's Summary

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