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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 scombroids 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

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Production of Metallo-Carbohedrenes in the Solid State


Metastability of Superconducting Compounds in the Y-Ba-Cu-O System

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


Evolution of Endothermy in Fish: Mapping Physiological Traits on a Molecular Phylogeny

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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

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Alternative Pre-mRNA Splicing

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. 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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