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Fossil shells of the gastropods *Hystrivasaum locklini* and *Hystrivasaum horridum* from the upper Pliocene Pinecrest Beds (2.0 to 3.5 million years old), Sarasota, Florida. These species are among many that became extinct during the late Pliocene only to be replaced by new species, yielding a biota whose diversity has not changed in 3.5 million years. See page 1626. Other evolutionary events related to the closing of the Isthmus of Panama are discussed on pages 1603, 1624, and 1629. [Photo: Joe Traver; specimens are from the Paleontological Research Institution, Ithaca, NY]

**REPORTS**

Diversity and Extinction of Tropical American Mollusks and Emergence of the Isthmus of Panama
J. B. C. Jackson, P. Jung, A. G. Coates, L. S. Collins

Diversity of Atlantic Coastal Plain Mollusks Since the Pliocene
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Divergence in Proteins, Mitochondrial DNA, and Reproductive Compatibility Across the Isthmus of Panama

Large Odd-Numbered Carbon Clusters from Fullerenes-Ozone Reactions
S. W. McElvany, J. H. Callahan, M. M. Ross, L. D. Lamb, D. R. Huffman

Identification of a Sex Pheromone from a Spider
S. Schulz and S. Toft

Structural Basis of Amino Acid α-Helix Propensity
M. Blaber, X. Zhang, B. W. Matthews

A Nonpeptidyl Growth Hormone Secretagogue

Unidirectional Spread of Secondary Sexual Plumage Traits Across an Avian Hybrid Zone
T. J. Parsons, S. L. Olson, M. J. Braun

Evidence of DNA Bending in Transcription Complexes Imaged by Scanning Force Microscopy
W. A. Rees, R. W. Keller, J. P. Vesenka, G. Yang, C. Bustamante

DNA Sequence Determination by Hybridization: A Strategy for Efficient Large-Scale Sequencing

Synthesis of Polycrystalline Chalcoprypte Semiconductors by Microwave Irradiation
C. C. Landry and A. R. Barron

Proliferation of Human Smooth Muscle Cells Promoted by Lipoprotein(a)
D. J. Grainger, H. L. Kirschenlohr, J. C. Metcalfe, P. L. Weissberg, D. P. Wade, R. M. Lawn

Complexes of Ras-GTP with Raf-1 and Mitogen-Activated Protein Kinase Kinase
S. A. Moodie, B. M. Willumsen, M. J. Weber, A. Wolfman

Effects of CAMP Simulate a Late Stage of LTP in Hippocampal CA1 Neurons
U. Frey, Y.-Y. Huang, E. R. Kandel

**TECHNICAL COMMENTS**

Explaining Fruit Fly Longevity

Compositional Interpretations of Medfly Mortality
J. W. Vaupel and J. R. Carey

Indicates accompanying feature

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