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February 28, 1993

The Parkfield earthquake puzzle
Several species of pitohui, songbirds endemic to New Guinea, contain the potent neurotoxin homobatrachotoxin, apparently as a chemical defense against predators. Chemical defenses have been known to be used by many organisms but not by birds. See page 799. As a possible antipredator adaptation, certain races (top) of the variable pitohui (Pitohui kirhocephalus) mimic the plumage of the hooded pitohui (P. dickrous; bottom), which contains the highest concentration of toxin. A nonmimetic subspecies of the variable pitohui is in the center. [Illustration: John C. Anderton]

Submicrometer Intracellular Chemical
Optical Fiber Sensors
Large Enhancement in Oxygen Mobility in the Superconductors R Ba2Cu3O7 with Increasing Rare-Earth Size
J. L. Tallon and B. E. Mellander

Nanochannel Array Glass
R. J. Tonucci, B. L. Justus, A. J. Campillo, C. E. Ford

An Accurate Quantum Monte Carlo Calculation of the Barrier Height for the Reaction H + H₂ → H₂ + H
D. L. Diedrich and J. B. Anderson

Infrared Reflection- Absorption Spectroscopy and STM Studies of Model Silica- Supported Copper Catalysts
X. Xu, S. M. Vesecky, D. W. Goodman

Strange Floral Attractors: Pollinator Attraction and the Evolution of Plant Sexual Systems
R. D. Podolsky

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R. B. Cole and A. R. Basu

Contribution of Oceanic Gabbros to Sea-Floor Spreading Magnetic Anomalies
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Homobatrachotoxin in the Genus Pitohui: Chemical Defense in Birds?
J. P. Dumbacher, B. M. Bechler, T. F. Spande, H. M. Garraffo, J. W. Daly

Salutation and Stasis: A Model of Human Growth
M. Lamp, J. D. Veldhuis, M. L. Johnson

Antibody-Catalyzed Rearrangement of the Peptide Bond
R. A. Gibbs, S. Taylor, S. J. Benkovic

Fatal Familial Insomnia and Familial Creutzfeldt-Jakob Disease: Disease Phenotype Determined by a DNA Polymorphism

Ikaros, an Early Lymphoid-Specific Transcription Factor and a Putative Mediator for T Cell Commitment
K. Georgopoulos, D. D. Moore, B. Derfler

A GDP Dissociation Inhibitor That Serves as a GTPase Inhibitor for the Ras-Like Protein CDC42Hs
M. J. Hart, Y. Maru, D. Leonard, O. N. Witte, T. Evans, R. A. Cerione

Selecting T Cell Receptors with High Affinity for Self-MHC by Decreasing the Contribution of CD8
L. A. Sherman, S. V. Hesse, M. J. Irwin, D. La Face, P. Peterson

Comparative Genomic Hybridization for Molecular Cytogenetic Analysis of Solid Tumors

Mantle Plumes and Mantle Sources
Science 258 (5083), 721-834.

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