NEWS & COMMENT

Breast Cancer’s Forced March?
Women’s Health Issues Take Center Stage at the IOM
NIH Fends Off Critics of Tamoxifen Study

French AIDS Trial Ends and Nobody’s Happy

Rustum Roy: PR Is a Better System Than Peer Review

Indirect Costs: A Consensus on Reform Begins to Take Shape

RESEARCH NEWS

The Huntington’s Gene Quest Goes On

Seismologists Issue a No-Win Earthquake Warning
Good Forecast, But Missed Prediction

At Age 2, Gene Therapy Enters a Growth Phase
Researchers Test Gene Therapy Against AIDS

Supercomputers Image the Human Body in Three Dimensions

PERSPECTIVE

Actin Constitution: Guaranteeing the Right to Assemble
K. F. Wertzman and D. G. Drubin

ARTICLES

Electrorheological Fluids
T. C. Halsey

What If Minkowski Had Been Ageusic?
An Alternative Angle on Diabetes J. D. McGarry

RESEARCH ARTICLE


REPORTS


DEPARTMENTS

THIS WEEK IN SCIENCE 721
EDITORIAL 723
A Changing Climate for Scientific Research

LETTERS 725

718  SCIENCE • VOL. 258 • 30 OCTOBER 1992
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 kiricocephalus) mimic the plumage of the hooded pitohui (P. dichrous; 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 Sensors
W. Tan, Z.-Y. Shi, S. Smith, D. Birnbaum, R. Kopelman
Large Enhancement in Oxygen Mobility in the Superconductors RBA2Cu3O7 with Increasing Rare-Earth Size
J. L. Tallon and B.-E. Mellander
Nanochannel Array Glass
R. J. Torunci, 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
Middle Tertiary Volcanism During Ridge-Trench Interactions in Western California
R. B. Cole and A. R. Basu
Contribution of Oceanic Gabbros to Sea-Floor Spreading Magnetic Anomalies
E. Kikawa and K. Ozawa
Homobatrachotoxin in the Genus Pitohui: Chemical Defense in Birds?
J. P. Dumbacher, B. M. Beehler, T. F. Spande, H. M. Garaffo, J. W. Daly
Salutation and Stasis: A Model of Human Growth
M. Lampl, 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 Creutzfeld-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. LaFace, P. Peterson
Comparative Genomic Hybridization for Molecular Cytogenetic Analysis of Solid Tumors

818

803

806

812

815

818

821

801

Antibody-Catalyzed Rearrangement of the Peptide Bond
R. A. Gibbs, S. Taylor, S. J. Benkovic
Fatal Familial Insomnia and Familial Creutzfeld-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. LaFace, P. Peterson
Comparative Genomic Hybridization for Molecular Cytogenetic Analysis of Solid Tumors

Mantle Plumes and Mantle Sources

SCIENCE • VOL. 258 • 30 OCTOBER 1992

719