NEWS
The Emerging Fungal Threat 1632
Human Embryo Research: Clinton Rules Out Some Studies 1634
Washington Law Forces Grant Disclosure 1635
Technology Assessment Faces Ax 1636
Dahlem Conferences' Future in Doubt 1636
Science Education: National Standards Finally Ready for Public Scrutiny 1637
Physicists Find Windows of Opportunity in Plasmas 1638
Taking Soundings From a Distant Star 1639
Getting Comfortable in Four Dimensions 1640
SPECIAL NEWS REPORT
The Duesberg Phenomenon 1642
Duesberg and Critics Agree: Hemophilia Is the Best Test
The Transfusion Studies 1646
Fulfilling Koch's Postulates 1647
The Epidemic in Thailand 1647
Could Drugs, Rather Than a Virus, Be the Cause of AIDS? 1648
POLICY FORUM
Scientists and the Integrity of Research 1660
B. Alberts and K. Shine

PERSPECTIVES
What Is in the Earth's Core Besides Iron? 1662
W. A. Bassett
Binding Site Revealed of Nature's Most Beautiful Cofactor 1663
J. Stubbe

ARTICLE
Symmetries of Hydrogen Bonds in Solution 1665
C. L. Perrin

RESEARCH ARTICLE
How a Protein Binds B12: A 3.0 Å X-ray Structure of B12-Binding Domains of Methionine Synthase 1669
C. L. Drennan, S. Huang, J. T. Drummond, R. G. Matthews, M. L. Ludwig

REPORTS
A Remarkable Auroral Event on Jupiter 1675
Observed in the Ultraviolet with the Hubble Space Telescope

DEPARTMENT OF SCIENCE

EDITORIAL
International Industrial Competition

LETTERS

REPORTS

SPECIAL NEWS REPORT
The Duesberg Phenomenon
Duesberg and Critics Agree: Hemophilia Is the Best Test
The Transfusion Studies
Fulfilling Koch's Postulates
The Epidemic in Thailand
Could Drugs, Rather Than a Virus, Be the Cause of AIDS?

DEPARTMENTS

THIS WEEK IN SCIENCE
Dioxin Reassessment: C. A. Bradfield et al.

SCIENCESCOPE
Random Samples 1641

BOOK REVIEWS
Shadows of the Mind, reviewed by F. Wilczek • Cheeters of the Serengeti Plains, M. G. L. Mills • On the Frontier, P. H. Abelson • Vignettes

PRODUCTS & MATERIALS

Downloaded from http://science.sciencemag.org/ on April 10, 2017
In Situ Determination of the NiAs
Phase of FeO at High Pressure and Temperature
Y. Fei and H.-k. Mao

The Accumulation Record from the
GISP2 Core as an Indicator of Climate

The Change in Sea Level and Temperature
over the Holocene

Doping Graphitic and Carbon Nanotube
Structures with Boron and Nitrogen
O. Stephan, P. M. Ajayan, C. Colliex, Ph. Redlitch, J. M. Lambert, P. Bernier, and P. Lefin

The Stereochemical Course of Group II
Intron Self-Splicing
R. A. Padgett, M. Podar, S. C. Boulanger, P. S. Perlman

Polyglycylation of Tubulin: A
Posttranslational Modification in Axonemal
Microtubules
V. Redeker, N. Levilliers, J.-M. Schmitter, J.-P. Le Caer, J. Rossier, and A. Adoutte

Evolutionary History of the Symbiosis
Between Fungus-Growing Ants and Their Fungi

Phylogeny of the Attine Ant Fungi Based on
Analysis of Small Subunit Ribosomal RNA
Gene Sequences

Naturally Occurring Variation in Bristle
Number and DNA Polymorphisms at the scabrous
Locus of Drosophila melanogaster

RNA14 and RNA15 Proteins as Components
of a Yeast Pre-mRNA 3' End Processing Factor
L. Minvielle-Sebastia, P. J. Preker, and W. Keller

Correction of Lethal Intestinal Defect in a
Mouse Model of Cystic Fibrosis by Human CFTR
L. Zhou, C. R. Dey, S. E. Wert, M. D. DuVall, R. A. Fritzell, and J. A. Whitsett

Control of Kinetic Properties of AMPA
Receptor Channels by Nuclear RNA Editing

Resetting the Biological Clock:
Mediation of Nocturnal Circadian Shifts
by Glutamate and NO

Light-Regulated Translation of Chloroplast
Messenger RNAs Through Redox Potential
A. Danon and S. P. Mayfield

Differential Activation of ERK and JNK
by Mitogen-Activated Protein Kinases by
Raf-1 and MEKK
A. Minden, A. Lin, M. McMahon, C. Lange-Carter, B. Derijard, R. J. Davis, G. L. Johnson, and M. Karin

Suppression of Hyphal Formation in Candida
albicans by Mutation of a STE12 Homolog
H. Liu, J. Köhler, and G. R. Fink

TECHNICAL COMMENTS

The Entropic Cost of Binding Water to
Proteins
W. F. Bryan

Dating Hominid Sites in Indonesia
J. de Vos and P. Sondaar; C. C. Swisher III

Evolution of ant-fungal symbiosis

Paramecium cilia stained with an antibody that recognizes tubulin posttranslationally modified by the addition of multiple glycine units. Tubulin is the most abundant component of microtubules, which participate in many processes including cell division and cell motility. The polyglycine modification was found on flagellar and ciliary forms of tubulin. (Paramecium is ~100 micrometers long.) See page 1688. [Photo: A. Fleury, Laboratoire de Biologie Cellulaire, and M. Laurent, Service d’Imagerie Cellulaire, Orsay, France]