Protein Matchmaker May Lead New Gene Therapy to the Altar

Do prions mangle proteins?

The Decline of German Universities
Foreign Students Bypassing Germany
Disputed Results Now Just a Footnote
Panel Backs Joint Bion Mission
Earmark for New Ship Puts Academics Over Pork Barrel
Italian Bioethics: Embryo Report Opens Old Wounds
Publisher Draws Censorship Charge
Tobacco Studies: UC Objects to Research Restrictions
Silver Thread Boosts Current Capacity
Unruly Sun Emerges in Solar Observatory's First Results
Spying On the Sun—on the Cheap
Evolutionary and Systematic Biologists Converge
Twinkle, Twinkle, Little Quasar

DEPARTMENTS

THIS WEEK IN SCIENCE

EDITORIAL
Scientific Imagination and Integrity
K. J. Ryan

LETTERS
Not the "Dark Ages": W. C. Barker and R. S. Ledley

SPECIAL NEWS REPORT

Putting Prions to the Test
Flipping Yeast
Prusiner and the Press

PERSPECTIVES

If a Tree Falls in the Forest...
M. Keller, D. A. Clark, D. B. Clark, A. M. Weitz, E. Veldkamp

The Shrewd Grasp of RNA Polymerase
R. Landick and J. W. Roberts

Rho Returns: Its Targets in Focal Adhesions
H. Bussey

ARTICLE

New Designs of Macroporous Polymers and Supports: From Separation to Biocatalysis
F. Svec and J. M. J. Fréchet

NEWSCAPES

Protein Matchmaker May Lead New Gene Therapy to the Altar

Do prions mangle proteins?
Section of a mural (dated 700 A.D.) found in an archaeological site at Cacaxtla, Mexico [under protection of the Instituto Nacional de Antropologia e Historia (INAH)]. The quetzal (70 centimeters, head to tail) is painted with Maya blue dye, a dye first discovered at Mayan sites. It is a mixture of clay, indigo, and metal particles in a silicate substrate. The clay and indigo form a superlattice, and scattered metal particles disperse light, producing this long-lasting blue color. See page 223. [Photo: Authorized reproduction of the INAH, under its responsibility.]

**RESEARCH ARTICLE**

Transcription Processivity:  
Protein-DNA Interactions Holding Together the Elongation Complex  
E. Nudler, E. Avetissova, V. Markovtsov, A. Goldfarb

**REPORTS**

Compression of Ice to 210 Gigapascals:  
Infrared Evidence for a Symmetric Hydrogen-Bonded Phase  
A. F. Goncharov, V. S. Struzhkin, M. S. Somayazulu, R. J. Hemley, H. K. Mao

Making DNA Add  
F. Guarnieri, M. Fliss, C. Bancroft

Maya Blue Paint: An Ancient Nanostructured Material  
M. José-Yacamán, L. Rendón, J. Arenas, M. C. Serra Puche

Formation of Atomically Flat Silver Films on GaAs with a "Silver Mean" Quasi Periodicity  
A. R. Smith, K.-J. Chao, Q. Niu, C.-K. Shih

Mechanism of Suppression of Cell-Mediated Immunity by Measles Virus  

Structure of the Amino-Terminal Core Domain of the HIV-1 Capsid Protein  

Polar Overdominance at the Ovine callipyge Locus  

Structure of the FKBP12-Rapamycin Complex Interacting with Binding Domain of Human FRAP  

Long-Term Lymphohematopoietic Reconstitution by a Single CD34-Low/Negative Hematopoietic Stem Cell  
M. Osawa, K.-i. Hanada, H. Hamada, H. Nakauchi

Regulation of Myosin Phosphatase by Rho and Rho-Associated Kinase (Rho-Kinase)  

Bipartite Ca²⁺-Binding Motif in C₂ Domains of Synaptotagmin and Protein Kinase C  
X. Shao, B. A. Davleto, R. B. Sutton, T. C. Südhof, J. Rizo

Platelet-Mediated Lymphocyte Delivery to High Endothelial Venules  

**TECHNICAL COMMENTS**

On Catching Fly Balls  
J. L. Dannemiller, T. G. Babler, B. L. Babler; T. M. Jacobs, M. D. Lawrence, K. Hong, N. Giordano Jr., N. Giordano Sr.; M. K. McBeath, D. M. Shaffer, M. K. Kaiser

On the Web

Bioinformatics As a Career  
http://sci.aaas.org/nextwave/niches-bioinformatics/