NEWS & COMMENT

Creationists Evolve New Strategy
The Battle of the Books 420
France, Germany Drop Out of ITER Race 422
Pests Overwhelm Bt Cotton Crop 423
Russian Scientists Gain Legal Rights ... 424
... But Foundation Funds Hit a Snag 424
India Struggles to Handle an Embarrassment of Riches

POLICY FORUM

The Changing Frontiers of Science and Technology 445
P. H. Abelson

PERSPECTIVES

The Biosphere Is Going Deep 448
W. S. Fye
Hormone Mimicry 449
J. A. Wells
Spinal Cord Regeneration 451
W. Young

ARTICLE

Comparative Earth History and Late Permian Mass Extinction 452
A. H. Knoll, R. K. Bambach, D. E. Canfield, J. P. Grotzinger

How the Ancient Egyptians Brewed Beer 432

Flood of New Isotopes Offers Keys to Stellar Evolution 433

DEPARTMENTS

THIS WEEK IN SCIENCE 405
EDITORIAL 411
A Cautionary Tale
D. S. Zinberg

LETTERS 413


DEPARTMENTS

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EDITORIAL 411
A Cautionary Tale
D. S. Zinberg

LETTERS 413


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A peptide dimer (orange) that mimics erythropoietin hormone (EPO) binds two equivalent EPO receptor extracellular domains (blue) and produces the signal necessary to stimulate production of red blood cells. The crystal structure of the complex identifies one functional mode of receptor dimerization. The peptide interaction with a functional epitope on each receptor is a basis for the design of small-molecule EPO mimetics. See page 464 and the related Research Article (page 458) and Perspective (page 449). [Image: M. Pique, O. Livnah, and I. A. Wilson]