



COVER Crystal structure of a zinc finger-DNA complex from the mouse protein Zif268. The view is down the axis of the double-helical DNA and emphasizes the symmetry of the complex. The DNA is blue; individual zinc finger domains are red, yellow, and purple; and zinc atoms are light blue. Similar DNA-binding domains occur in a large family of eukaryotic regulatory proteins. See page 809. [Photograph by N. P. Pavletich and C. O. Pabo]

Reports

- 825 Geometry, Topology, and Universality of Random Surfaces: J. R. BANAVAR, A. MARITAN, A. STELLA
- 827 Ultradeep (>300 Kilometers) Ultramafic Xenoliths: Petrological Evidence from the Transition Zone: V. SAUTTER, S. E. HAGGERTY, S. FIELD
- 830 In Situ Biodegradation: Microbiological Patterns in a Contaminated Aquifer: E. L. MADSEN, J. L. SINCLAIR, W. C. GHIORSE
- 833 Control of *doublesex* Alternative Splicing by *transformer* and *transformer-2* in *Drosophila*: K. HOSHIJIMA, K. INOUE, I. HIGUCHI, H. SAKAMOTO, Y. SHIMURA
- 836 Solution Structure of FKBP, a Rotamase Enzyme and Receptor for FK506 and Rapamycin: S. W. MICHNICK, M. K. ROSEN, T. J. WANDLESS, M. KARPLUS, S. L. SCHREIBER
- 839 Atomic Structure of FKBP-FK506, an Immunophilin-Immunosuppressant Complex: G. D. VAN DUYN, R. F. STANDAERT, P. A. KARPLUS, S. L. SCHREIBER, J. CLARDY
- 842 HBV X Protein Alters the DNA Binding Specificity of CREB and ATF-2 by Protein-Protein Interactions: H. F. MAGUIRE, J. P. HOEFFLER, A. SIDDIQUI
- 844 Inhibition of PDGF β Receptor Signal Transduction by Coexpression of a Truncated Receptor: H. UENO, H. COLBERT, J. A. ESCOBEDO, L. T. WILLIAMS
- 848 FTZ-F1, a Steroid Hormone Receptor-Like Protein Implicated in the Activation of *fushi tarazu*: G. LAVORGNA, H. UEDA, J. CLOS, C. WU
- 851 Ca^{2+} Permeability of KA-AMPA-Gated Glutamate Receptor Channels Depends on Subunit Composition: M. HOLLMANN, M. HARTLEY, S. HEINEMANN
- 854 Experimental Therapy of Human Glioma by Means of a Genetically Engineered Virus Mutant: R. L. MARTUZA, A. MALICK, J. M. MARKERT, K. L. RUFFNER, D. M. COEN
- 856 Identification of a Peptide Specific for *Aplysia* Sensory Neurons by PCR-Based Differential Screening: J.-F. BRUNET, E. SHAPIRO, S. A. FOSTER, E. R. KANDEL, Y. IINO

Technical Comment

- 860 Land Plants and Weathering: J. M. ROBINSON; R. A. BERNER

Book Reviews

- 863 Physical Chemistry from Ostwald to Pauling, reviewed by R. FRIEDEL ■ Meteorology in America, 1800-1870, B. SINCLAIR ■ Fundamentals of Molecular Evolution, M. T. CLEGG ■ Books Received

Products & Materials

- 866 Computer Vision Software ■ Custom Peptide Synthesis ■ Monoclonal Antibodies ■ Sample Preparation Kits ■ Tracking Software ■ Phosphorylated Protein Enrichment Kit ■ Molecular Biology Buffers and Reagents ■ Literature

Board of Directors

Donald N. Langenberg
*Retiring President,
Chairman*

Leon M. Lederman
President

F. Sherwood Rowland
President-elect

Mary Ellen Avery
Francisco J. Ayala
Eugene H. Cota-Robles
Robert A. Frosch
Joseph G. Gavin, Jr.
Florence P. Haseltine
Jean'ne M. Shreeve
Warren M. Washington

William T. Golden
Treasurer

Richard S. Nicholson
Executive Officer

Editorial Board

Charles J. Arntzen
Elizabeth E. Bailey
David Baltimore
William F. Brinkman
E. Margaret Burbidge
Pierre-Gilles de Gennes
Joseph L. Goldstein
Mary L. Good
Harry B. Gray
John J. Hopfield
F. Clark Howell
Paul A. Marks
Yasutomi Nishizuka
Helen M. Ranney
Robert M. Solow
Edward C. Stone
James D. Watson

Board of Reviewing Editors

John Abelson
Frederick W. Alt
Don L. Anderson
Stephen J. Benkovic
Floyd E. Bloom
Henry R. Bourne
James J. Bull
Kathryn Calame
Charles R. Cantor
Ralph J. Cicerone
John M. Coffin
Robert Dorfman
Bruce F. Eldridge
Paul T. Englund
Fredric S. Fay

Douglas T. Fearon
Harry A. Fozzard
Theodore H. Geballe
Roger I. M. Glass
Stephen P. Goff
Corey S. Goodman
Stephen J. Gould
Eric F. Johnson
Stephen M. Kosslyn
Konrad B. Krauskopf
Charles S. Levings III
Richard Losick
Anthony R. Means
Mortimer Mishkin
Roger A. Nicoll
William H. Orme-Johnson III
Yeshayau Pocker

Dennis A. Powers
Erkki Ruoslahti
Thomas W. Schoener
Ronald H. Schwartz
Terrence J. Sejnowski
Thomas A. Steitz
Robert T. N. Tjian
Emil R. Unanue
Geerat J. Vermeij
Bert Vogelstein
Harold Weintraub
Zena Werb
George M. Whitesides
Owen N. Witte
William B. Wood
Keith Yamamoto