



COVER An ordered array of 1024 peptides. Light was used to direct the simultaneous synthesis of many different peptides in a 1.28 cm by 1.28 cm region. Particular amino acids were attached to the growing peptide chains only when protecting groups had been selectively removed through photolithography. This fluorescence image reveals those peptides that bind to a specific antibody with high affinity. See page 767. [Image by Stephen P. A. Fodor and co-workers]

- 780 *A*-Axis-Oriented $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{PrBa}_2\text{Cu}_3\text{O}_7$ Superlattices: C. B. EOM, A. F. MARSHALL, J.-M. TRISCONI, B. WILKENS, S. S. LADERMAN, T. H. GEBALLE
- 783 Determination of Membrane Protein Structure by Rotational Resonance NMR: Bacteriorhodopsin: F. CREUZET, A. McDERMOTT, R. GEBHARD, K. VAN DER HOEF, M. B. SPIJKER-ASSINK, J. HERZFELD *et al.*
- 786 Baddeleyite-Type High-Pressure Phase of TiO_2 : H. SATO, S. ENDO, M. SUGIYAMA, T. KIKEGAWA, O. SHIMOMURA, K. KUSABA
- 788 Endothelial Expression of a Mononuclear Leukocyte Adhesion Molecule During Atherogenesis: M. I. CYBULSKY AND M. A. GIMBRONE, JR.
- 791 Human Immunodeficiency Virus Infection of Human-PBL-SCID Mice: D. E. MOSIER, R. J. GULIZIA, S. M. BAIRD, D. B. WILSON, D. H. SPECTOR, S. A. SPECTOR
- 794 The Assimilation of Elements Ingested by Marine Copepods: J. R. REINFELDER AND N. S. FISHER
- 796 Senescence of Nickel-Transformed Cells by an X Chromosome: Possible Epigenetic Control: C. B. KLEIN, K. CONWAY, X. W. WANG, R. K. BHAMRA, X. LIN, M. D. COHEN, L. ANNAB, J. C. BARRETT, M. COSTA
- 799 Effect of Cytochrome P450 Arachidonate Metabolites on Ion Transport in Rabbit Kidney Loop of Henle: B. ESCALANTE, D. ERLIJ, J. R. FALCK, J. C. MCGIFF
- 802 Identification of the Hepatocyte Growth Factor Receptor as the *c-met* Proto-Oncogene Product: D. P. BOTTARO, J. S. RUBIN, D. L. FALETTI, A. M.-L. CHAN, T. E. KMIECIK, G. F. VANDE WOUDE, S. A. AARONSON
- 804 Regulation of Polyphosphoinositide-Specific Phospholipase C Activity by Purified G_q : A. V. SMRCKA, J. R. HEPLER, K. O. BROWN, P. C. STERNWEIS
- 807 Translational Potentiation of Messenger RNA with Secondary Structure in *Xenopus*: L. FU, R. YE, L. W. BROWDER, R. N. JOHNSTON

Technical Comment

- 811 Conserved Sequence and Structural Elements in the HIV-1 Principal Neutralizing Determinant: Corrections and Clarifications: G. J. LAROSA, J. P. DAVIDE, K. WEINHOLD, J. A. WATERBURY, A. T. PROFY, J. A. LEWIS, A. J. LANGLOIS, G. R. DREESMAN, R. N. BOSWELL, P. SHADDUCK, L. H. HOLLY, M. KARPLUS, D. P. BOLOGNESI, T. J. MATTHEWS, E. A. EMINI, S. D. PUTNEY

Book Reviews

- 813 Cognitive Ethology, reviewed by C. T. SNOWDON ■ The Age of Reptiles, D. A. RUSSELL ■ Science and Cultural Crisis, A. E. MOYER ■ Effective Care in Pregnancy and Childbirth AND A Guide to Effective Care in Pregnancy and Childbirth, M. S. KRAMER ■ Books Received

Products & Materials

- 824 Portable Clean Air Enclosure ■ Software for Nonlinear Curve-Fitting ■ Nonprotein Binding Gel ■ Plant and Tissue Growth Environment ■ Device Blows Away Static and Dirt ■ Literature

Board of Directors

Richard C. Atkinson
*Retiring President,
Chairman*

Donald N. Langenberg
President

Leon M. Lederman
President-elect

Mary Ellen Avery
Francisco J. Ayala
Eugene H. Cota-Robles
Robert A. Frosch
Joseph G. Gavin, Jr.
John H. Gibbons
Beatrix A. Hamburg
Florence P. Hasetline

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
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
Gunter K-J Blobel
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

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
John C. McGiff
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