Salvador Dali's *Raphaelesque Head Breaking* (1951) portrays the logarithmic spirals of the rhinoceros horn, the dome of the Pantheon, and the contemplative Madonna. Scientists are pushing the frontiers of neuroscience in all directions and may even enter into the realms of mathematics, architecture, and faith. This special issue samples the variety in neuroscience. See the Editorial, the News story on page 653, the Research Article on page 713, and the section of Perspectives and Articles beginning on page 673. [Transparency: Bridgeman/Art Resources, NY. Reproduced with permission from Artists Rights Society, NY]

**RESEARCH ARTICLE**

Neural Induction by the Secreted Polypeptide Noggin


**REPORTS**

Laser Ablation and the Production of Polymer Films


Identification of Complex Aromatic Molecules in Individual Interplanetary Dust Particles

S. J. Clemett, C. R. Maechling, R. N. Zare, P. D. Swan, R. M. Walker

The Effect of Changing Land Use on Soil Radiocarbon

K. G. Harrison, W. S. Broecker, G. Bonani

Crustal Thickness on the Mid-Atlantic Ridge Bull’s-Eye Gravity Anomalies and Focused Accretion

M. Tolstoy, A. J. Harding, J. A. Orcutt

The Manson Impact Structure: *4Ar/^Ar* Age and Its Distal Impact Ejecta in the Pierre Shale in Southeastern South Dakota

G. A. Isett, W. A. Cobban, J. D. Obradovich, M. J. Kunk

Mississippian Fossils from Southern Appalachian Metamorphic Rocks and Their Implications for Late Paleozoic Tectonic Evolution

R. A. Gastaldo, G. M. Guthrie, M. G. Steltenpohl

Structure at 2.5 Å of a Designed Peptide That Maintains Solubility of Membrane Proteins

C. E. Schaufmeister, L. J. W. Miercke, R. M. Stroud

Analysis of a Nucleoprotein Complex: The Synaptosome of γδ Resolve N. D. F. Grindley

Calium Sparks: Elementary Events

Underlying Excitation-Contraction Coupling in Heart Muscle

H. Cheng, W. J. Lederer, M. B. Cannell

Microdomains with High Ca2+ Close to IP3-Sensitive Channels That Are Sensed by Neighboring Mitochondria

R. Rizzuto, M. Brini, M. Murgia, T. Pozzan

Alterations of a Zinc Finger–Encoding Gene, BCL-6, in Diffuse Large-Cell Lymphoma


Isolation of the Cyclosporin-Sensitive T Cell Transcription Factor NFATp


Nonuniform Probability of Glutamate Release at a Hippocampal Synapse

C. Rosenmund, J. D. Clements, G. L. Westbrook

Functional Stoichiometry of Shaker Potassium Channel Inactivation

R. MacKinnon, R. W. Aldrich, A. W. Lee

**TECHNICAL COMMENTS**

Spatial Learning in Mutant Mice


Gravitational Separation in Polar Firn


**INDICATES ACCOMPANYING FEATURE**

729

Shockingly older

AAAS Board of Directors

F. Sherwood Rowland

Chairman

Elise E. Clark

President

Francisco J. Ayala

President-elect

Robert A. Frosch

Florence P. Haseltine

William A. Lester, Jr.

Alan Schinestein

Jeanne M. Shreeve

Chang-Lin Tien

Warren M. Washington

Nancy S. Wexler

William T. Golden

Richard S. Nicholson

Executive Officer

SCIENCE (ISSN 0036-8075) is published weekly on Friday, except the last week in December, by the American Association for the Advancement of Science, 1333 H Street, NW, Washington, DC 20005. Second-class postage (publication No. 484460) paid at Washington, DC, and additional mailing offices. Copyright © 1993 by the American Association for the Advancement of Science. The title SCIENCE is a registered trademark of the AAAS. Domestic individual membership and subscription (51 issues): $87/$47 allocated cost to subscription; Domestic institutional subscription (51 issues): $205. Foreign postage extra: Mexico, Caribbean (surface mail): $50; other countries (air registered delivery): $195. First class, airmail, student and emeritus rates on request. Canadian rates with GST available upon request. GST #125488122. Change of address: allow 6 weeks, giving old and new addresses and 11-digit account number. Postmaster: Send change of address to Science, P.O. Box 2033, Marion, OH 43305-2033. Single copy sales: $6.00 per issue prepaid includes surface postage. Guide to Biotechnology Products and Instruments, $25. Bulk rates on request. Authorization to photocopy material for internal or personal use under circumstances not falling within the fair use provisions of the Copyright Act is granted by AAAS to libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that the base fee of $1 per copy plus $0.10 per page is paid directly to CCC, 27 Congress Street, Salem, MA 01970. The identification code for Science’s 0036-8075/93 $1 - 10. Science is indexed in the Reader’s Guide to Periodical Literature and in several specialized indexes.
Science 262 (5134), 633-779.