LETTERS

Harvard Public Health Dean: P. R. Torrens; Handicapped Scientists: G. J. Vermeij; The Nitrate Debate: E. Jakobsson; Cover Story: D. F. Dinges; J. C. Stucki; R. S. Zaris

EDITORIAL

The Ph.D. "Glut": H. Shull

ARTICLES

Gamma-Ray Astrophysics: A New Look at the Universe: J. Trombka et al
Synchronies in Mental Development: An Epigenetic Perspective: R. S. Wilson
Margaret Mead 1901–1978

NEWS AND COMMENT

EPA Smog Standard Attacked by Industry, Science Advisers
Election Results Worry NSF
Statue on the Mall to Hail Einstein's 100th
Governor Jerry Brown: Reelection of a Politician Committed to Change
Universities "Battered" by Federal Regulators

RESEARCH NEWS

NMR Research: Analysis of Living Cells and Organs
The 1978 Nobel Prize in Physics: R. P. Hudson; J. R. Pierce

AAAS NEWS

1978 Election Results; Amendments to the AAAS Constitution and Bylaws; Board of Directors Makes China Trip; Science Cover Calendar for 1979; A New Magazine of Science?; CSFR Procedures for Individual Complaints; Directory of Puerto Rican Scientists Compiled; Youth Activities at Houston Meeting.

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NOMINATIONS AND PTS

DIRECTORY OF PUERTO RICAN SCIENTISTS COMPILED

YOUTH ACTIVITIES AT HOUSTON MEETING.
ABORTION IN AMERICA, reviewed by R. L. Numbers; Planets and Planetarians, N. S. Hetherington; Scripps Institution of Oceanography, S. Schlee; Mosquitoes, Malaria and Man, B. H. Kean; Cosmic Dust, J. R. Arnold.  967

Gulf Stream Ring Coalescence with the Gulf Stream off Cape Hatteras: D. R. Watts and D. B. Olson.  971

Low Repetitive DNA Content in Aspergillus nidulans: W. E. Timberlake.  973

Calcium-Induced Contraction of the Rhizoplast of a Quadriflagellate Green Alga: J. L. Salisbury and G. L. Floyd.  975

Serotonin Shifts the Phase of the Circadian Rhythm from the Aplysia Eye: G. Corrent, D. J. McAdoo, A. Eskin.  977


Homoeologous Chromosome Pairing: Frequency Differences in Inbred and Intraspecific Hybrid Polyploid Ferns: L. G. Hickok.  982

Long Ascending Projections from Substantia Gelatinosa Rolandi and the Subjacent Dorsal Horn in the Rat: G. J. Giesler, Jr., et al.  984

Spinothalamic Tract Neurons in the Substantia Gelatinosa: W. D. Willis, R. B. Leonard, D. R. Kensholt, Jr.  986

β-Endorphin Is Associated with Overeating in Genetically Obese Mice (ob/ob) and Rats (fa/fa): D. L. Margules et al.  988

Conservation of Liquid and Solid Quantity by the Chimpanzee: G. Woodruff, D. Premack, K. Kennel.  991


Long-Latency "Subthreshold" Collicular Responses to the Constant-Frequency Components Emitted by a Bat: A. D. Grinnell and P. Brown.  996

Conformational Changes in 16S Ribosomal RNA Induced by 30S Ribosomal Subunit Proteins from Escherichia coli: A. A. Bogdanov et al.  999


Plant muscle. Sequence showing contraction of rhizoplasts of the green alga Platymonas. The contraction is triggered by calcium and is cyclic in the presence of both calcium and adenosine triphosphate. Rhizoplast contraction is thought to be functionally linked to flagellar activity. The upper rhizoplast pair is a composite image. (Actual length of one extended rhizoplast is approximately 2.5 micrometers.) See page 975. [J. L. Salisbury and G. L. Floyd, Ohio State University, Columbus]