471  This Week in Science

Editorial  473  Cancer Phobia

Letters  474  The Core Curriculum: A. W. Astin; M. Brown; C. T. Burt; J. V. Mallow; F. H. Westheimer


Research News  483  Environmental Hypothesis for Brain Diseases Strengthened by New Data  484  Artificial Intelligence Moves into Mainstream  486  Agencies Vie over Human Genome Project


Research Articles  500  Delay Time of Hemoglobin S Polymerization Prevents Most Cells from Sickling in Vivo: A. Mozzarelli, J. Hofrichter, W. A. Eaton
COVER  Lithograph depicting seed (center) and other parts of Cyclics circinalis Linn. (false sago palm), a neurotoxic plant. Heavy use of cycad seed for food and medicine has been linked to Guam amyotrophic lateral sclerosis and parkinsonism-dementia, a prototypical disease for study of neurodegenerative disorders of old age. Now considered rare and endangered, cycads are primitive "gymnosperms" that flourished 150 to 200 million years ago. See page 517. [Figure 176C in C. L. Blume, Commentationes Botanicae. Imprime de Plantis Indae Orientalis. Rumphia (Lugduni-Batavorum, Amsterdam, 1848), Part IV, pages 11-18]

Reports

507 Limit on Sensitivity of Large Silicon Bolometers for Solar Neutrino Detection: C. J. Martoff

509 Bacterial Methanogenesis and Growth from CO2 with Elemental Iron as the Sole Source of Electrons: L. Daniels, N. Belay, B. S. Rajagopal, P. J. Weimer


514 An Invariance in the Isoheptanes of Petroleum: F. D. Mango

517 Guam Amyotrophic Lateral Sclerosis-Parkinsonism-Dementia Linked to a Plant Excitant Neurotoxin: P. S. Spencer, P. B. Nunn, J. Hugon, A. C. Ludolph, S. M. Ross, D. N. Roy, R. C. Robertson

522 Transient Morphological Features of Identified Ganglion Cells in Living Fetal and Neonatal Retina: A. S. Ramoa, G. Campbell, C. J. Shatz

525 A Defined Medium for a Fastidious Spiroplasma: K. J. Hackett, A. S. Ginsberg, S. Rottem, R. B. Henegar, R. F. Whitcomb

527 Identification of a Family of Muscarinic Acetylcholine Receptor Genes: T. I. Bonner, N. J. Buckley, A. C. Young, M. R. Brann

532 The CML-Specific P210 bcr/abl Protein, Unlike v-abl, Does Not Transform, NIH/3T3 Fibroblasts: G. Q. Daley, J. McLaughlin, O. N. Witte, D. Baltimore

535 Full-Wave Rectification from a Mixed Electrical-Chemical Synapse: K. Graubard and D. K. Hartline

Technical Comments

537 Asymmetry of Neural Feedback in the Organization of Behavioral States: M. Marcel Mesulam; G. Aston-Jones and M. T. Shlepy

AAAS Meetings

540 Science & Security: Nuclear and Conventional Forces in Europe ■ Advance Registration Form and Housing Form

Book Reviews

542 Walter B. Cannon, reviewed by J. H. Warner ■ Yellow Fever in the North, C. Hannaway ■ The Biology of Marine Fungi, I. K. Ross ■ Visual Neuroscience, R. M. Shapley ■ Books Received
Science 237 (4814), 471-545.