Cover: Skeleton of a colony of the cheilostome bryozoan Stegroporella magnilabris. Features of individual modules (zooids, each about 1 millimeter long) that are preserveable in the fossil record are sufficient to discriminate between morphospecies that breed true and are genetically distinct. Thus paleontologists can study evolutionary patterns at the species level in this group. See page 579.

[Scanning electron micrograph by Susann Braden, National Museum of Natural History SEM Lab, Smithsonian Institution]

585 A Mn²⁺-Dependent Ribozyme: V. DANGE, R. B. VAN ATTA, S. M. HECHT
591 In Vivo Receptor-Mediated Phosphorylation of a G Protein in Dictyostelium: R. E. GUNDERSEN AND P. N. DEVREOTES
596 L-Cysteine, a Bicarbonate-Sensitive Endogenous Excitotoxin: J. W. OLNEY, C. ZORUMSKI, M. T. PRICE, J. LABRUYERE
599 K⁺ Current Diversity Is Produced by an Extended Gene Family Conserved in Drosophila and Mouse: A. WEI, M. COVARRUBIAS, A. BUTLER, K. BAKER, M. MAK, L. SALIKOFF
605 Identity of Inositol 1,2-Cyclic Phosphate 2-Phosphohydrolase with Lipocortin III: T. S. ROSS, J. F. TAIT, P. W. MAJERUS

Inside AAAS

611 AAAS Council Meeting, 1990: G. SEILER ■ U.S.—Chilean Research Grants ■ Pacific Division in June in Davis ■ Members Who Are Asked to Join Again ■ Security Controls on Communication ■ Education and Equity ■ Franklin Event

Book Reviews

614 A Shield in Space, reviewed by M. BUNN ■ Science in Germany, A. J. ROCKE ■ The Geology of North America, W. B. HAMILTON ■ Some Other Books of Interest ■ Books Received

Products & Materials

618 Inhibitor of RNA Polymerase III ■ Laboratory Balances Feature Microchip Technology ■ T Cell Monoclonal Antibodies ■ Calculator Combines with Computer ■ Chromatography Software ■ Lab Partner Calculator ■ Molecular Biology Software for the Macintosh ■ Literature