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Reports

The American Association for the Advancement of Science was founded in 1848 and incorporated in 1874. Its objectives are to further the work of scientists, to facilitate cooperation among them, to foster scientific freedom and responsibility, to improve the effectiveness of science in the promotion of human welfare, to advance education in science, and to increase public understanding and appreciation of the importance and promise of the methods of science in human progress.
COVER The Hawaiian sepiolid squid *Euprymna scolopes* uses the luminescence of bacterial symbionts in its nocturnal behavior. This ventral dissection (the squid is ~3.5 centimeters in length) reveals the light-emitting organ as a complex, bilobed structure in the center of the mantle cavity. Normal light-organ development is initiated by specific strains of *Vibrio fischeri*. See page 1491. [Photograph by William Ormerod, University of Southern California]


1489 Phase Transformations in Carbon Fullerenes at High Shock Pressures: C. S. Yoo and W. J. Nellis

1491 Symbiont Recognition and Subsequent Morphogenesis as Early Events in an Animal-Bacterial Mutualism: M. J. McFall-Ngai and E. G. Ruby

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1503 A Requirement for the Intercellular Messenger Nitric Oxide in Long-Term Potentiation: E. M. Schuman and D. V. Madison

1507 Systemic Delivery of Recombinant Proteins by Genetically Modified Myoblasts: E. Barr and J. M. Leiden


1512 Regulation of Phagocyte Oxygen Radical Production by the GTP-Binding Protein Rac 2: U. G. Knaus, P. G. Heyworth, T. Evans, J. T. Curnutte, G. M. Bokoch


1518 Functional Contribution of Neuronal AChR Subunits Revealed by Antisense Oligonucleotides: M. Listerud, A. B. Brussaard, P. Devay, D. R. Colman, L. W. Role


**Book Reviews**

1528 Fantastic Archaeology, reviewed by W. H. Goetzmann

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Quantized Vortices in Helium II, L. J. Campbell

Some Other Books of Interest

**Products & Materials**

1533 Stopped-Flow Spectrofluorimeter

Self-Recirculating Electrophoresis System

Ultraviolet Radiation Meter

Monoclonal Antibodies

Water Dispenser Gun

Direct Blotter

Protein Structure Database

Literature

Stuart L. Pimm

Yeshayahu Pocker

Dennis A. Powers

Ralph S. Quatrano

Erkki Ruoslahti

Thomas W. Schoeniger

Ronald H. Schwartz

Terence J. Sejnowski

Thomas A. Steltz

Richard F. Thompson

Robert T. N. Tijan

Emil R. Urnane

Geert J. Vermeij

Bert Vogelstein

Harold Weintraub

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