

# WHY THE LEADER IN FIFRA REGULATORY WORK IS BEING ASKED TO DO BIODEGRADATION AND ENVIRONMENTAL ASSESSMENT STUDIES.

For several years, ABC Labs has been doing soil metabolism work. The requests have come from pesticide manufacturers who need quality studies for satisfying FIFRA registration and re-registration data requirements.

**WITH YEARS OF EXPERIENCE IN AQUATIC TOXICOLOGY TESTING, ABC ALREADY HAS THE DISCIPLINES AND PERSONNEL IN PLACE TO PROVIDE A TOTAL ENVIRONMENTAL ASSESSMENT PROGRAM.**

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- Biodegradation chambers
- Microcosm testing
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- Independent QA unit

Plus, ABC has the experience to consult with clients on EPA and FDA regulations and OECD guidelines—essentially a regulatory walk-through for FIFRA, TSCA and international requirements.

## TYPICALLY REQUESTED TESTS

Tests typically requested and regularly performed by ABC Labs for industrial chemicals include: Fish LC50, Daphnia LC50, Simple or Ready Biodegradation, Octanol/Water Partition Coefficient, Algae EC50 and Earthworm Toxicity.

With today's increasing emphasis on environmental controls, regulatory compliance has become an absolute. And it is a must to hire a contract laboratory who understands the procedures and has the facilities.



For a confidential conversation about your requirements call Bill Foristal 314-474-8579 or write: Manager of Marketing and Client Services.



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**BIODEGRADATION STUDIES . . .  
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## THE RIBOSOME STRUCTURE, FUNCTION, & EVOLUTION

Edited by **Walter E. Hill**, *University of Montana, Missoula*; **Albert Dahlberg**, *Brown University, Providence, R.I.*; **Roger A. Garrett**, *University of Copenhagen, Copenhagen, Denmark*; **Peter B. Moore**, *Yale University, New Haven, Conn.*; **David Schlessinger**, *Washington University School of Medicine, St. Louis, Mo.*; and **Jonathan R. Warner**, *Albert Einstein College of Medicine, Bronx, N.Y.*

This comprehensive overview is a major new addition to literature on the ribosome, covering the structure, function, and evolution of this complex macromolecule in both prokaryotic and eukaryotic systems. The authors, an international group of leading experts representing 13 countries, have written and illustrated their chapters for use by all life scientists, including those outside the field.

The book opens with a personal, historical retrospective and summary by Masayasu Nomura, followed by historical insights on ribosome preparation by Alexander S. Spirin. From there, chapters turn to recent developments in every arena of research into the ribosome. Much of the current knowledge about the detailed mechanisms by which the ribosome is in-

olved in protein biosynthesis has only recently been delineated thanks to a host of new research techniques. Additional information about how antibiotics and ribosomes interact and a view of the ribosome in its evolutionary context are also included.

Arising from the August 1989 International Conference on Ribosomes, this reference will be extremely useful to advanced students as well as investigators whose work either directly or indirectly touches on this subject.

### CONDENSED CONTENTS

**Historical** (2 chapters); **Structure of Ribosomes and rRNA** (12 chapters); **Probing rRNA Function** (4 chapters); **Initiation** (5 chapters); **Elongation** (8 chapters); **Termination** (2 chapters); **Ribosome Formation** (7 chapters); **Antibiotic Mechanisms and Probes** (3 chapters); **Translational Fidelity** (6 chapters); and **Evolution of Ribosomes** (8 chapters).

Estimated publication date: August 1990; hardcover (ISBN 1-55581-222-9); 696 pages, large format, illustrated, color plates, index.

Member: \$86.00; Nonmember: \$99.00

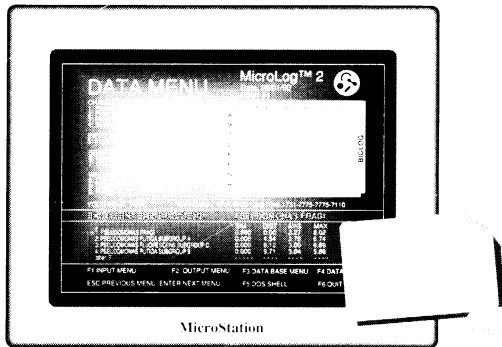
When ordering, specify offer number AEM 8-90-222-9. Charge card orders may also be placed by telephone (202-737-3600) or by fax (202-737-3368).

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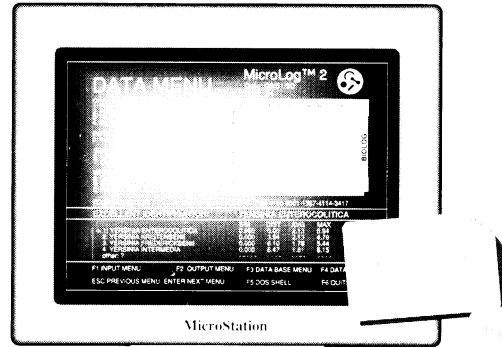
# Correct Identification, Time After Time After Time ...

## Environmental Gram-Negatives



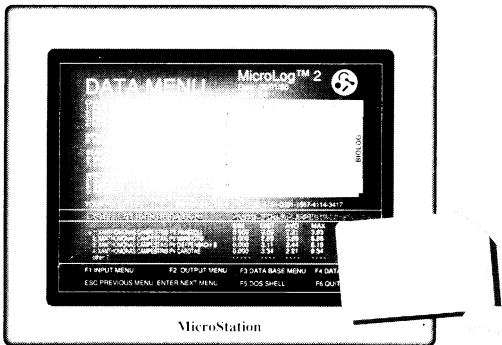
(e.g. *Pseudomonas fragi*)

## Human Pathogens



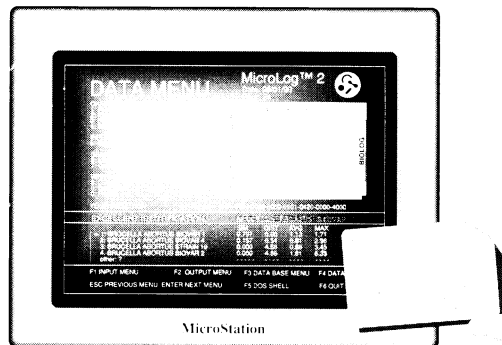
(e.g. *Yersinia enterocolitica*)

## Plant Pathogens



(e.g. *Xanthomonas campestris pv phaseoli*)

## Animal Pathogens



(e.g. *Brucella abortus bv 1*)

Biolog's GN MicroPlate™ test panel is a 96 well microplate preloaded with 95 different carbon utilization tests. The panel can identify any of 434 species groups (primarily Gram-negatives) currently in the data base. To identify an isolate you simply 1) culture the bacterium on a plate, 2) prepare a cell suspension in normal saline, 3) inoculate the panel with the cell suspension, and 4) incubate for 4 or 24 hours. The panels use Biolog's patented redox chemistry to detect utilization of carbon sources. If a carbon source in a well is utilized, the cells increase their respiration, reduce the tetrazolium dye, and the well turns purple. The panels cost as little as \$3.95 each.

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