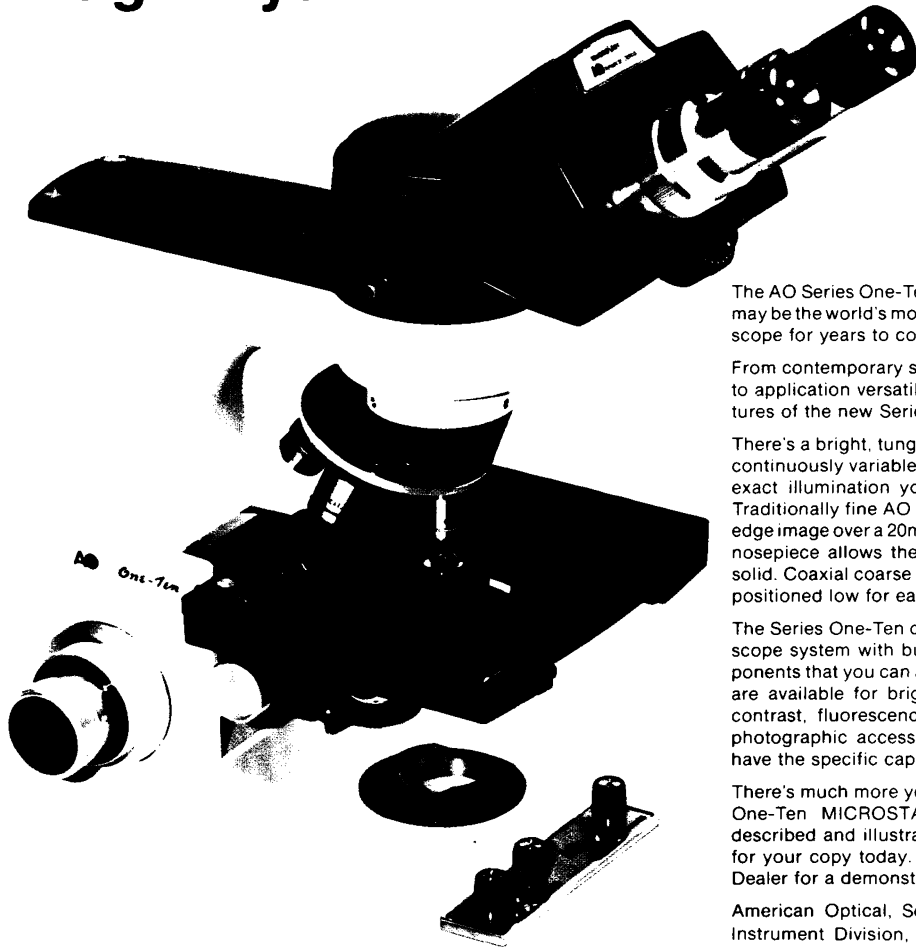




AO

...the laboratory microscope you might have designed yourself.



The AO Series One-Ten MICROSTAR[®] Microscope may be the world's most advanced laboratory microscope for years to come. And it's here now.

From contemporary styling and smooth, rich finish to application versatility, you'll like the design features of the new Series One-Ten in every way.

There's a bright, tungsten-halogen illuminator with continuously variable intensity control to select the exact illumination you need for every specimen. Traditionally fine AO optics give you a flat edge-to-edge image over a 20mm field of view. The focusable nosepiece allows the stage to remain secure and solid. Coaxial coarse and fine focusing controls are positioned low for easy use.

The Series One-Ten offers a total laboratory microscope system with building block technique components that you can add as you need them. Models are available for brightfield/darkfield. Add phase contrast, fluorescence, dual view, multiview and photographic accessories. The One-Ten lets you have the specific capability you want.

There's much more you'll like about the new Series One-Ten MICROSTAR Microscope. Details are described and illustrated in a new brochure. Send for your copy today. Or, even better, ask your AO Dealer for a demonstration.

American Optical, Scientific
Instrument Division,
Buffalo, NY 14215.

AO
American
Optical

DAVID BEATS GOLIATH

Until we introduced the Mini Capsule Filter, you had no practical alternative to expensive, clumsy 293mm disc filters and disc holders for sterilizing culture media.

Now you do.

Obsoletes an entire 293mm system.

You'll be amazed at the high yields you get with either the 0.2 μm or 0.45 μm Mini Capsule Filter.

A double layer of pleated plastic membrane in a transparent capsule less than 6" high gives you as much capacity as a 293mm system.

More filtering time. Less prep and clean-up.

You can reduce downtime between runs from hours to minutes.

Because the Mini Capsule Filter is a true disposable. Every one is pre-

sterilized. Every one is integrity tested to rigid standards. Every one eliminates the chance of cross contamination. And every one is completely biosafe and non cytotoxic.

The price is small, too.

\$12 or \$15, depending on which Mini Capsule Filter meets your requirements.

That's a small price for so much filtering capacity, convenience and safety.

Call toll free. Talk to experts.

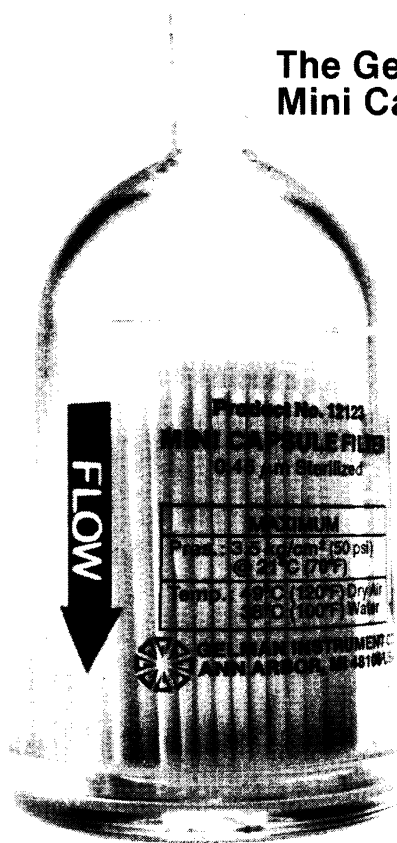
Try the Mini Capsule Filter yourself.

But first talk to a Gelman filtration expert toll free. **800-521-1520.**

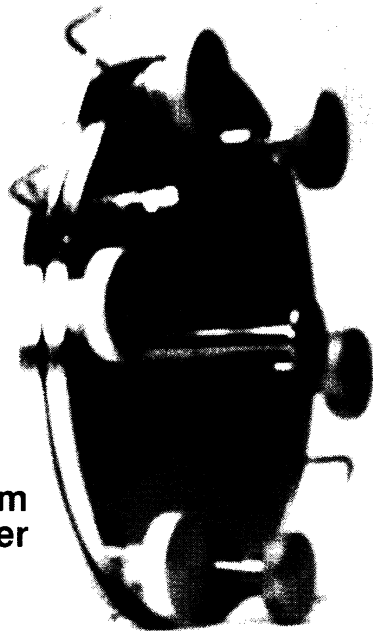
In Michigan, call (313) 665-0651.

Or write Gelman Sciences, Inc.,
600 S. Wagner Road, Ann Arbor,
MI 48106.

**The Gelman
Mini Capsule Filter**



**The 293mm
Filter and Holder**



Gelman Sciences
Laboratory Division

In the U.S.A. the Gelman Mini Capsule Filter is available from Curtin-Matheson Scientific, Fisher Scientific, Scientific Products, A.H. Thomas, and VWR Scientific

BET MEANS VALUABLE INFORMATION FOR MICROBIOLOGY EDUCATORS

MANUALS — Practical, up-to-date manuals, ideal for use in the laboratory, are available on several vital topics. See below.

AUDIOVISUALS — *Multimedia Programs in Microbiology* is a unique guide to over 725 audiovisual teaching aids, with 90 sources listed.

CERTIFICATION — Programs of importance for professional advancement are offered by the National Registry of Microbiologists (NRM), the American Board of Medical Microbiology (ABMM), and the American Board of Medical Laboratory Immunology (ABMLI).

BET ALSO OFFERS: a Directory of Degree-Granting Institutions — Individual Projection Slides — Highlights of Microbiology — Traveling Workshops — Evaluation of Continuing Education Programs (ECEP).

Ordering Information

To order, complete the attached form, and mail with your remittance and a self-addressed mailing label to: American Society for Microbiology, Attn.: Finance, 1913 I Street, NW, Washington, DC 20006. Make checks payable to the American Society for Microbiology. Prices include fourth class postage within the United States. Foreign countries and Canada, please add \$2.00 for postage to the total amount required. Payment and self-addressed mailing label MUST accompany all orders.



Requests for information only should be directed to:

BOARD OF EDUCATION AND TRAINING, American Society for Microbiology,
1913 I,Street, NW, Washington, DC 20006

Please send me:

Quantity

- _____ Identification of Saprophytic Fungi Commonly Encountered in a Clinical Environment @ \$10.00 ea.
- _____ Identification of Glucose-Nonfermenting Gram-Negative Rods @ \$6.00 each.
- _____ Photographic Survey of Glucose-Nonfermenting Gram-Negative Rods @ \$3.00 each.
- _____ Systemic Mycoses @ \$4.50 each.
- _____ Infection Control in the Hospital Environment @ \$6.00 each.
- _____ Unusual Organisms of Clinical Significance @ \$7.00 each.
- _____ 1980 Multimedia Programs in Microbiology @ \$5.50 each.
- _____ Bringing Life to Microbiology @ \$7.00 each.
- _____ 1980 ASM Slide Collection @ \$1.00 each.
- _____ 1980 Directory of Degree-Granting Institutions @ \$5.00 each.
- _____ Colleges and Universities Granting Degrees in Microbiology @ 25¢ each.
- _____ Highlights in Microbiology 1975-1976 @ \$2.75 each.
- _____ Highlights in Microbiology 1977-1978 @ \$3.75 each.

TOTAL REMITTED: \$ _____

Please send me information on the following programs:

- National Registry of Microbiologists
- American Board of Medical Laboratory Immunology
- American Board of Medical Microbiology
- Continuing Education Programs (Workshops, ECEP)

Name _____

Address _____

City/State/Zip _____

Telephone _____

Date _____

A brand new book on a topic of clinical and research concern —

Immunobiology of *Neisseria gonorrhoeae*

Editors: Geo. F. Brooks, Emil C. Gotschlich, King K. Holmes,
William D. Sawyer, Frank E. Young

Introduction by: William S. Jordan, Jr., and Milton Puziss

In the last few years, intensified interest in the study of gonococci and gonorrhea has resulted in an explosion of knowledge and understanding of the disease. In January 1978, a group of leading scientists and clinicians met in San Francisco for three days to confer about the current status of research into *Neisseria gonorrhoeae*.

The result is a book, at times controversial, always thought-provoking, on the status quo of a sexually transmitted disease which has reached epidemic proportions.

The book covers six major areas, and includes over 70 papers. The main sections are:

- I. *Neisseria gonorrhoeae* Physiology, Genetics, and Antimicrobial Susceptibility
- II. *Neisseria gonorrhoeae* Cellular Antigens and Antigenic Analysis
- III. Pathogenicity and Immunity
- IV. Immunity and Vaccine
- V. Current Concepts and Future Strategies
- VI. Panel Discussion

This new book will have wide appeal to clinical microbiologists, public health specialists, specialists in infectious diseases, venereologists, immunologists, and practicing physicians.

Note

Nongonococcal Urethritis and Related Infections is still available, and provides useful material on venereal disease caused by the microorganisms *Chlamydia trachomatis* and *Ureaplasma urealyticum*. Edited by Derek Hobson and King K. Holmes, this book was based on an interdisciplinary workshop held in April 1976.

Ordering Information

Immunobiology of *Neisseria gonorrhoeae*:

September 1978, 422 pages, clothbound. ISBN: 0-914826-18-2. \$15.00

Nongonococcal Urethritis and Related Infections:

July 1977, 391 pages, clothbound. ISBN: 0-914826-12-3. \$14.00

(Members of ASM may purchase either of these books, for personal use only, at the special member price of \$10.00. Payment must accompany order. All overseas orders must be prepaid.)

Published and distributed by: **American Society for Microbiology**
1913 I Street, NW
Washington, DC 20006

On the interface between basic and applied microbiology studies —

MICROBIOLOGY

1980

Editor: David Schlessinger

This new volume in the popular annual **Microbiology** series features the proceedings of several recent symposia, and one particularly important NIH Conference on **Endogenous Mediators of the Host Response to Endotoxin**. While the volume has obvious appeal to infectious disease specialists and applied microbiologists, the material on endotoxins and viruses is of particularly wide interest to many microbiologists.

This timely and up-to-date record traces the progress being made in the following major areas of microbiology:

- Endogenous Mediators of the Host Response to Endotoxin
 - Host Response to Viral Infections
 - Interferon: Induction and Action
 - Comparative Mechanisms of Viral DNA Replication
 - Integration of the Viral Genome
 - Hybridomas
 - DNA-Surface Interactions
 - Aquatic Microbial Ecology
-

Ordering Information

January 1980. 400 pages. Clothbound. ISBN: 0-914826-23-9. \$22.00. (ASM Members may purchase this volume, for personal use only, at the special price of \$12.00. Payment must accompany member orders. Orders from overseas must be prepaid before shipment.)

Standing orders to the **ASM Microbiology** series are welcome. The previous volumes in this series are still available, all priced at \$12.00 prepaid for ASM Members, \$22.00 for others:

Microbiology—1979, Microbiology—1978
Microbiology—1977, Microbiology—1976
Microbiology—1975, Microbiology—1974

Send all inquiries and orders to the publisher:

ASM
American Society
for Microbiology

1913 I Street, NW
Washington, DC 20006

THE DIFCO 100 ml BLOOD CULTURE BOTTLE MEANS BETTER RECOVERY RATES. All the features that made the Difco 50 ml Blood Culture Bottle No 1 are inherent in the 100 ml bottle, but, in addition, this Difco blood culture system allows for the larger blood samples now recommended by leading authorities for better recovery rates. An optimum 1:10 or higher blood to medium ratio is still maintained with the larger blood sample. Start now to use the Bigger and Better System for one of the most important microbiological procedures that you perform.

Available in the leading media:

Thiol Broth
Tryptic Soy Broth
Brain Heart Infusion
Columbia Broth
Fluid Thioglycollate
Medium

All w/CO₂ under vacuum.
SPS or SPS and Sucrose
as needed.

When Bigger is Better



DIFCO
LABORATORIES
DETROIT, MICHIGAN 48232 USA