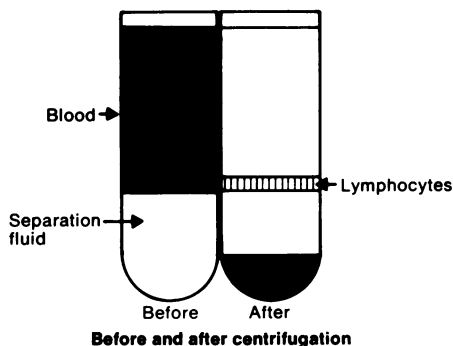




# Lymphoprep

The *only* ready made Metrizoate based Solution for Lymphocyte Isolation according to Bøyum's original work.



**NYEGAARD'S Lymphoprep**  
available through:

**ACCURATE CHEMICAL &  
SCIENTIFIC CORPORATION**

Your North American  
distributor for  
**Lymphoprep**

28 TEC STREET, HICKSVILLE, N.Y. 11801 • TEL: (516) 433-4900  
WEST COAST SALES, SAN DIEGO, CALIFORNIA (714) 235-9400

**Other countries, contact: NYEGAARD & CO. A/S**  
Post Office Box 4220, Oslo 4, Norway.

Please send me:

- Literature on the NYEGAARD Lymphoprep  
 Free sample of the NYEGAARD Lymphoprep

Name \_\_\_\_\_

Institution \_\_\_\_\_

Address \_\_\_\_\_

JVI

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:



1913 I Street, NW  
Washington, DC 20006

---

# HYBRIDOMA

## ...THE TOTAL APPROACH



### HYBRIDOMA DEVELOPMENT SERVICE

#### MELOY'S TOTAL APPROACH

Hybridoma technology requires more than just cell fusion. Many areas of experience are needed for the development of your monoclonal antibodies. Meloy offers you expertise to complement your research through our HYBRIDOMA DEVELOPMENT SERVICE.

#### CLONALBODIES™

- Provides high specificity and homogeneity – Only antibodies to determinant are produced
- Please inquire about CLONALBODIES™ against HCG, TSH, Human Kappa Light Chain, and Human Serum Albumin
- Coming Soon: CLONALBODIES™ against IgM, IgE, AFP, Human C3, and cAMP
- Custom CLONALBODIES™ have been prepared by Meloy against Viral Antigens, B Lymphocyte Membrane Antigen, T Lymphocyte Membrane Antigen, and others

- Protein Purification  
Including PAGE, HPLC, and Isoelectric Focusing
- Custom Labeling  
Iodine, Fluorescein, and Rhodamine
- Assay Development  
Including RIA, IFA, and Receptor Assay
- Support Reagents and Services  
Cell Culture Media, Second Antibody, Protein A, and Animal Management

Meloy's hybridoma reagents and services are currently intended for research use only. They are not intended for human therapeutic or diagnostic purposes.

For more information call or write . . .

# MELOY®

MELOY LABORATORIES INC.

6715 ELECTRONIC DRIVE; SPRINGFIELD, VIRGINIA 22151 (800) 336-4555 EXT. 307



**Concentrate small samples fast.**

**Recover samples from gels  
and sucrose gradients.**

The ISCO Model 1750 Electrophoretic Sample Concentrator offers you a new way to concentrate macromolecules. It's fast, convenient, inexpensive, non-disruptive, and adaptable to a wide variety of samples.

You can easily concentrate proteins, nucleic acids, certain whole cells and fragments, or any other water soluble macromolecule larger than 3500 MW and having electrophoretic mobility. During concentration, samples may also be separated from non-ionic media such as polyacrylamide gels or density gradient sugar solutions.

The Model 1750 will handle up to four 10 ml samples, normally produces 50-fold concentrations in 90 minutes or less, and allows quick and easy recovery of concentrates. It uses no pumps or gases—samples are concentrated by a combination of electrophoresis and filtration.

Learn more about the versatile Model 1750 Electrophoretic Sample Concentrator and other ISCO instruments. Dial toll free: [800] 228-4250 (continental U.S.A. except Nebraska). Or write Instrumentation Specialties Co., Box 5347, Lincoln, Nebraska 68505.



**Instruments with a difference**

Announcing  
publication of

# CUMITECH 10

Laboratory Diagnosis of Upper Respiratory Tract Infections

Authors: Robert M. Bannatyne,  
Carla Clausen, Laurence R. McCarthy  
Coordinating Editor: Ian B. R. Duncan

Chairman, Editorial Board for ASM Cumitechs: John C. Sherris

Publication Date: January 1980

This is the latest addition to the extremely popular series, *Cumulative Techniques and Procedures in Clinical Microbiology*, known as CUMITECHS.

The nine previous **CUMITECHS** are still available.

- CUMITECH 9:** Collection and Processing of Microbiological Specimens
- CUMITECH 8:** Detection of Microbial Antigens by Counterimmunoelectrophoresis
- CUMITECH 7:** Laboratory Diagnosis of Lower Respiratory Tract Infections
- CUMITECH 6:** New Developments in Antimicrobial Agent Susceptibility Testing
- CUMITECH 5:** Practical Anaerobic Bacteriology
- CUMITECH 4:** Laboratory Diagnosis of Gonorrhoea
- CUMITECH 3:** Practical Quality Control Procedures for the Clinical Microbiology Laboratory
- CUMITECH 2:** Laboratory Diagnosis of Urinary Tract Infections
- CUMITECH 1:** Blood Cultures

## Ordering Information

CUMITECHS are available at \$3.00 each. Payment for single copies *must* accompany order. Standing orders are welcome, and, if you would like to receive a copy of every CUMITECH as published, you will be billed annually for the number of CUMITECHS (at \$3.00 each) which you have received during the year. Published irregularly, CUMITECHS normally number two to six a year.

Quantity discounts: 11-50 copies of the same CUMITECHS @ \$2.50 each; 51-100 @ \$1.50; 101-250 @ \$1.00; 251-1,000 @ \$0.75; 1,001 and over @ \$0.50.

Attractive 3-Ring Vinyl Binder to hold your CUMITECHS: \$5.00 each.

Send all orders and inquiries to the publisher:



1913 I Street, NW,  
Washington, DC 20006

Reprint of a small classic - from ASM

# Milestones in Microbiology

---

*Translated and edited by Thomas D. Brock*

---

ASM is pleased to be able to offer a reprint of this small classic, which first appeared in 1961, and subsequently went out of print. MILESTONES is a collection of historically significant papers in microbiology, and is intended both as a book of general interest to all microbiologists and as an enlightening, thought-provoking text for students. Many professionals will want to read this book for its value in firmly documenting the great work in microbiology accomplished during the past 400 years. The book should also prove useful in teaching microbiology to students at all levels of development.

---

## Contents

---

Historical Introduction; Spontaneous Generation and Fermentation; The Germ Theory of Disease; Immunology; Virology; Chemotherapy; General Microbiology.

---

## Authors

---

*Antony van Leeuwenhoek; Turbevill Needham; Lazzaro Spallanzani; Theodore Schwann; Charles Cagniard-Latour; Justis Liebig; Louis Pasteur; Ferdinand Cohn; John Tyndall; Joseph Lister; Eduard Buchner; Girolamo Fracastoro; J. Henle; Ignaz Semmelweis; Robert Koch; Paul Ehrlich; Edward Jenner; Elias Metschnikoff; Emil von Behring; Shibasaburo Kitasato; Jules Bordet; Friedrich Loeffler; P. Frosch; M. W. Beijerinck; F. d'Herelle; Wendell M. Stanley; B. Kronig; Th. Paul; Alexander Fleming; Gerhard Domagk; Donald D. Woods; Christian Gram; R. J. Petri; Martinus W. Beijerinck; S. Winogradsky; E. Wildiers; Albert J. Kluyver.*

---

Reprinted 1975, 273 pages, \$7.00. (ASM members may purchase this book for \$5.00. Please enclose payment with order.)

---

Send your order to:

**AMERICAN SOCIETY FOR MICROBIOLOGY**

1913 I Street, N.W. Washington, D.C. 20006

---

---

# MOLECULAR BIOLOGY OF RNA TUMOR VIRUSES

Edited by JOHN R. STEPHENSON

CHAPTER HEADINGS: *M. B. Gardner*, Historical Background. *G. J. Todaro*, Interspecies Transmission of Mammalian Retroviruses. *T. Pincus*, The Endogenous Murine Type C Viruses. *R. Jaenisch*, Germ Line Integration and Mendelian Transmission of Exogenous Type C Viruses. *P. J. Fischinger*, Type C RNA Transforming Viruses. *J. M. Coffin*, Structural Analysis of Retrovirus Genomes. *J. R. Stephenson*, Type C Virus Structural and Transformation-Specific Proteins. *S. Oroszlan and R. V.*

*Gilden*, Primary Structure Analysis of Retrovirus Proteins. *G. F. Gerard and D. P. Grandgenett*, Retrovirus Reverse Transcriptase. *Y.-H. Chien et al.*, Electron Microscopic Analysis of the Structure of RNA Tumor Virus Nucleic Acids. *J. Schlom*, Type B and Type D Retroviruses. *H. S. Kaplan*, Prospects for the Etiologic Involvement of RNA Tumor Viruses in Human Cancer. Index. References appear at the end of each chapter. 1980, 552 pp., \$49.50 ISBN: 0-12-666050-6

# ADVANCES IN VIRUS RESEARCH, Volume 25

Edited by MAX A. LAUFFER, FREDERIK B. BANG, KARL MARAMAROSCH and KENNETH M. SMITH

CHAPTER HEADINGS: *J. G. Atabekov and S. Yu. Morozov*, Translation of Plant Virus Messenger RNAs. *M. Bar-Joseph et al.*, The Closteroviruses: A District Group of Elongated Plant Viruses. *C. E. Yarwood*, Host Passage Effects with Plant Viruses. *L. M. Black*, Vector Cell Monolayers and Plant Viruses. *K. A. Harrap and C. C. Payne*, The Struc-

tural Properties and Identification of Insect Viruses. *L. Philipson*, Adenovirus Proteins and Their Messenger RNAs. *K. I. Berns and W. W. Hauswirth*, Adeno-Associated Viruses. *A. D. Altstein and V. M. Zhdanov*, Envelope Antigens of Oncoviruses. 1979, 544 pp., \$46.00 ISBN: 0-12-039825-7

# EXTRACHROMOSOMAL DNA

Edited by DONALD J. CUMMINGS, PIET BORST, IGOR B. DAWID, SHERMAN M. WEISSMAN and C. FRED FOX

ICN-UCLA Symposia on Molecular and Cellular Biology

Volume XV, 1979

SECTION HEADINGS: Evolution and Extrachromosomal DNA. Genetic Capacity and Structure of Chloroplast DNA. Models for Viral Replication and Function. Sequence Analysis of Viral Nucleic Acids. Organization, Function, and Expression of Yeast Extrachromosomal DNA. Sequence Analysis of Fungal Mitochondrial DNA. Genetics and Biogene-

sis of Mitochondrial DNA from Higher Eucaryotes. Organization and Function of Mammalian Mitochondrial DNA. Biological and Structural Features of Kinetoplast and *Podospora* Mitochondrial DNA. Index.

1979, 560 pp., \$29.50 ISBN: 0-12-198780-9

Continuation Orders authorize us to ship and bill each volume in a series, or "Advances" type publication automatically, immediately upon publica-

tion. This order will remain in effect until cancelled. Specify the volume number or title with which your order is to begin.

## ACADEMIC PRESS, INC.

A Subsidiary of Harcourt Brace Jovanovich, Publishers

111 FIFTH AVENUE, NEW YORK, N.Y. 10003

24-28 OVAL ROAD, LONDON NW1 7DX

Please send me the following:

- \_\_\_ copies: *Stephenson*; Molecular Biology of RNA Tumor Viruses, \$49.50
- \_\_\_ copies: *Lauffer et al.*; Advances in Virus Research, Volume 25, \$46.00
- \_\_\_ Continuation Order—Advances in Virus Research
- \_\_\_ copies: *Cummings et al.*; Extrachromosomal DNA, \$29.50
- \_\_\_ Continuation Order—ICN-UCLA Symposia Series

Please check one box:

- Payment enclosed (Free postage and handling. Add applicable sales tax.)
- Visa     Master Charge\*
- American Express     Diner's Club
- Charge Card No. \_\_\_\_\_
- Expiration Date: Month \_\_\_\_\_ Year \_\_\_\_\_

\*For Master Charge include the numbers that appear above your name \_\_\_\_\_

Your signature \_\_\_\_\_

On prepaid orders, payment will be refunded for titles on which shipment is not possible within 120 days. Prices are in U.S. dollars and subject to change without notice.

NAME \_\_\_\_\_

(please print)

AFFILIATION \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY/STATE/ZIP \_\_\_\_\_

- Please check if you are an Academic Press or Grune & Stratton Author. Direct all orders to Georgia Phillips, Media Dept. *JVir* 5/80

# You Can't Afford **Bacterial Contamination** in your cell cultures



Protect them with GRS™

- **Broad Antibacterial Spectrum**  
—Broader than pen/strep combined
- **Protection Against Mycoplasmas**  
—Protects against 29 strains of mycoplasmas
- **Extraordinary Stability**  
—Completely stable for long periods under cell culture conditions  
—*Can actually be autoclaved!*
- **Lack of Cytotoxicity**  
—Minimal effect on most cell lines at bactericidal levels
- **Cost Effective**  
—*Protection for less than 6¢ per T75 flask (20 ml with GRS at 50mcg/ml)*

Get the protection you need,  
without unnecessary risk to your valuable  
cell cultures with:

## **GRS** Garamycin<sup>®</sup>

GRS is the antibiotic of choice for cell culture

Sterile, ready to use solution  
GRS™ 10 mg/ml (6x10 ml vials/box) \$39.60 box  
GRS™ 50 mg/ml (10 ml vial) \$31.35 vial

Order from  
Schering Corporation  
Union, NJ 07083  
Attn: Order Department  
Tel: 800-631-7952

*Note:* A complete discussion of the above claims will be found in our monograph: "GRS in Cell Culture." Send for your free copy.