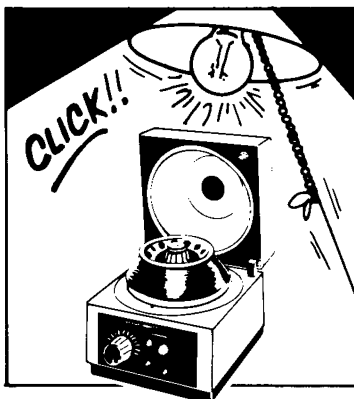


micro centrifugation!

by ACCURATE CHEMICAL



- QUIET!
- SAFE!
- VERSATILE!

Two speed settings —
 5,500 rev./min. and 13,000 rev./min.
 Capacity —
 1.352xg, 13.400xg.
 18x4mm, 14x75mm, 12x15mm

- CONVENIENT!

Uses 115 Volts
 Smaller than a bread box

MICRO CENTAUR

The QUIET table-top
 Microcentrifuge.

\$888.00
 Complete with
 Rotor and 3 Adaptor
 Plates

F.O.B. Westbury, New York Terms: 2% 10, NET 30 Days

ACCURATE Chemical & Scientific Corporation

300 SHAMES DRIVE, WESTBURY, NY 11590 USA • TELEX: 14-4617
 WESTBURY, NY: 516-433-4900 SAN DIEGO, CA: 619-235-9400

TO ORDER CALL TOLL FREE:

1-800-645-6264

(Except N.Y. State call 516-433-4900)

1-800-ALL-WEST

(CALIFORNIA, PACIFIC and MOUNTAIN TIME STATES)



Research reports from many
advancing fronts of microbiology—

MICROBIOLOGY—1984

EDITORS: **Loretta Leive and David Schlessinger**

From the Introductory Note: "This volume is the last for one of us (D.S.) and the first for the other (L.L.) as editor of this series, and we have jointly planned it. The format continues to include research reports from many advancing fronts of microbiology. We think that this policy, which blithely expects some coherence in the face of variety, continues to be justified. For example, not only the common technologies of modern biol-

ogy link the studies of infectious agents and pathogenic mechanisms: the results obtained also reflect on the way antibiotics interact with parasitic cells and on the way bacteria develop resistance to β -lactams."

This volume includes several symposia from the ASM Annual Meeting 1983 and the 1983 Interscience Conference on Antimicrobial Agents and Chemotherapy. Contents include:

Cellular and Molecular Biology

- Bacterial Periplasmic Transport Systems
- Regulation of Gene Expression: Genetic, Functional, and Structural Approaches to Understanding Protein-DNA Interactions
- Transcriptional Regulation of Bacteriophages
- Gene Manipulations in the Exploitation and Study of Fungi

Infectious Agents

- *Bordetella pertussis*: Pathogenesis and Prevention of Whooping Cough
- Update on Parasitic Diseases
- Coccidiosis: Parasitic Infections Old and New
- Molecular Biology of Rickettsiae
- Hansen's Disease

Host Versus Parasite

- Natural Killer Cells: Killing of Microorganisms
- Immunology of Tuberculosis and Leprosy: a Symposium
- Mechanisms of Resistance to Beta-Lactam Antibiotics
- Respiratory Virus Infections and Antiviral Agents

Ordering Information

Publication Date: April 1984
400 pages. Clothbound. ISBN: 0-914826-61-1.
Member: \$17.00. Nonmember: \$27.00.
Prices are subject to change.

To order, complete the coupon and mail it to:

ASM AMERICAN SOCIETY FOR
MICROBIOLOGY
1913 I Street, N.W.
Washington, DC 20006
USA

Please send _____ copy(ies) of *Microbiology—1984*
at (check appropriate rate) \$17.00 (ASM Member)
 \$27.00 (Nonmember)

Payment enclosed.
 Charge to my MasterCard VISA
Card Number _____
Expiration Date _____

Signature _____

Name _____

Address _____

City/State/Zip Code _____

Allow 4-6 weeks for delivery.

Molecular and Cellular Biology

Editor in Chief: Aaron J. Shatkin

Editors: Harvey F. Lodish, David J. L. Luck, Louis Siminovitch, Paul S. Sypherd, Harold E. Varmus

Editorial Board: Renato Baserga, Alan Bernstein, J. Michael Bishop, Joan Brugge, Breck Byers, John A. Carbon, Lawrence A. Chasin, Nam-Hai Chua, Terrance G. Cooper, James E. Darnell, Jr., Gary Felsenfeld, Norton B. Gilula, James E. Haber, Benjamin Hall, Hidesaburo Hanafusa, Ari Helenius, Susan A. Henry, Ira Herskowitz, James B. Hicks, Tony Hunter, Larry Kedes, Barbara Knowles, Marilyn Kozak, Monty Krieger, Elias Lazarides, John B. Little, William F. Loomis, Jr., Paul T. Magee, James Manley, Steven McKnight, Robert L. Metzberg, Robert K. Mortimer, Paul Neiman, Harvey L. Ozer, Mary Lou Pardue, Mark Pearson, Jeremy Pickett-Heaps, Robert E. Pollack, Keith R. Porter, John R. Pringle, Daniel B. Rifkin, Robert G. Roeder, James E. Rothman, Milton J. Schlesinger, Phillip A. Sharp, Fred Sherman, Anna Marie Skalka, Pamela Stanley, Joan A. Steitz, James L. Van Etten, Jonathan R. Warner, Robert A. Weinberg, I. Bernard Weinstein, Harold Weintraub, Reed B. Wickner, Leslie Wilson, Edward Ziff

Scope Statement:

Molecular and Cellular Biology is devoted to the advancement and dissemination of fundamental knowledge concerning the molecular biology of eucaryotic cells, of both microbial and higher organisms. Papers on cellular morphology and function, genome organization, the regulation of genetic expression, morphogenesis, and somatic cell genetics are invited for submission.

Manuscripts:

Please submit manuscripts to the ASM Publications Department, 1913 I Street, NW, Washington, DC 20006.

Monthly. ISSN: 0270-7306.
2,700 pages in 1985.
Nonmember: \$92.00
Member (U.S.): \$37.00
Member (foreign): \$45.00
Add \$50.00 for foreign airmail service.

Order subscriptions from the Subscriptions Department, American Society for Microbiology.



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

*An up-to-date resource book for
microbiologists in academic research
and applied microbiology—*

MICROBIAL GROWTH ON C₁ COMPOUNDS

EDITORS: Ronald L. Crawford
and R. S. Hanson

Proceedings of the 4th International Symposium

Microorganisms that grow on C₁ compounds offer great potential for use in applied microbiology. They are useful as biocatalysts, for certain biotransformations, for production of fine and bulk chemicals by fermentation, and for production of cloned gene products and single cell protein.

Recent advances in the biochemistry and genetics of these microorganisms enhance their potential for use in several processes. This new book contains high-quality, full-length invited papers from recognized authorities on all aspects of the microorganisms that utilize C₁ compounds.

Sections:

- Physiology and Biochemistry of Autotrophs
- Physiology and Biochemistry of Methylotrophs and Methanotrophs
- Physiology and Biochemistry of Methanogens
- Genetics of Microbes that Utilize C₁ Compounds
- Taxonomy and Ecology of Microbes that Grow on C₁ Compounds
- Applied Aspects of Microbes that Grow on C₁ Compounds
- New Directions in C₁ Metabolism

ORDERING INFORMATION

Publication Date: May 1984. 350 pages.
Clothbound. ISBN: 0-914826-59-X.
Member: \$37.00. Nonmember: \$47.00.
Prices are subject to change.

To order, complete the coupon and mail it to the publisher.

ASM American Society
for Microbiology

1913 I Street, NW
Washington, DC 20006
USA

Please send _____ copy(ies) of *Microbial Growth on C₁ Compounds* at (check appropriate price)

\$47.00 (Nonmember) \$37.00 (ASM Member)

Payment enclosed.

Charge to my MasterCard VISA

Card Number _____

Expiration Date _____

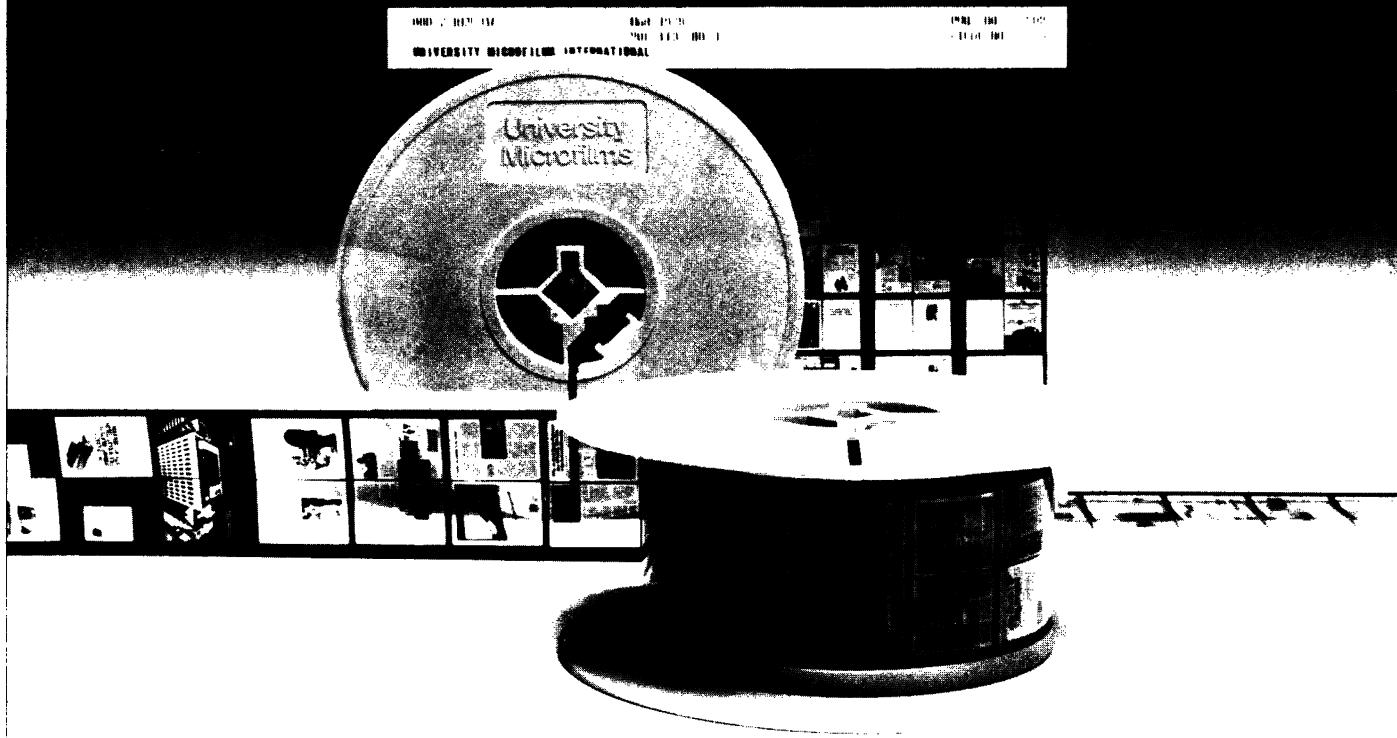
Signature _____

Name _____

Address _____

City/State/Zip _____

This publication is available in microform.



University Microfilms International

Please send additional information for _____
(name of publication)

Name _____

Institution _____

Street _____

City _____

State _____ Zip _____

300 North Zeeb Road
Dept. P.R.
Ann Arbor, Mi. 48106
U.S.A.

30-32 Mortimer Street
Dept. P.R.
London WIN 7RA
England

Bacteriophage T4

Editors: Christopher K. Mathews, Elizabeth M. Kutter, Gisela Mosig, Peter B. Berget

The outcome of the Evergreen T4 Meetings, this book presents a complete overview of T4 research, from its earliest history to its latest developments. T4 is a remarkable organism, one that has played an important part in the growth of molecular biology research. Here its story is told for the first time in one place. From Doermann's *Introduction to the Early Years of Bacteriophage T4* to Guttman and Kutter's *Overview to Mathews' Postscript*, this book is informative, comprehensive, and up-to-date.

The book will be useful for upper-level students, virologists, and molecular biologists—in fact, indispensable for anyone with an interest in bacteriophage T4.

The papers are arranged in the following sections:

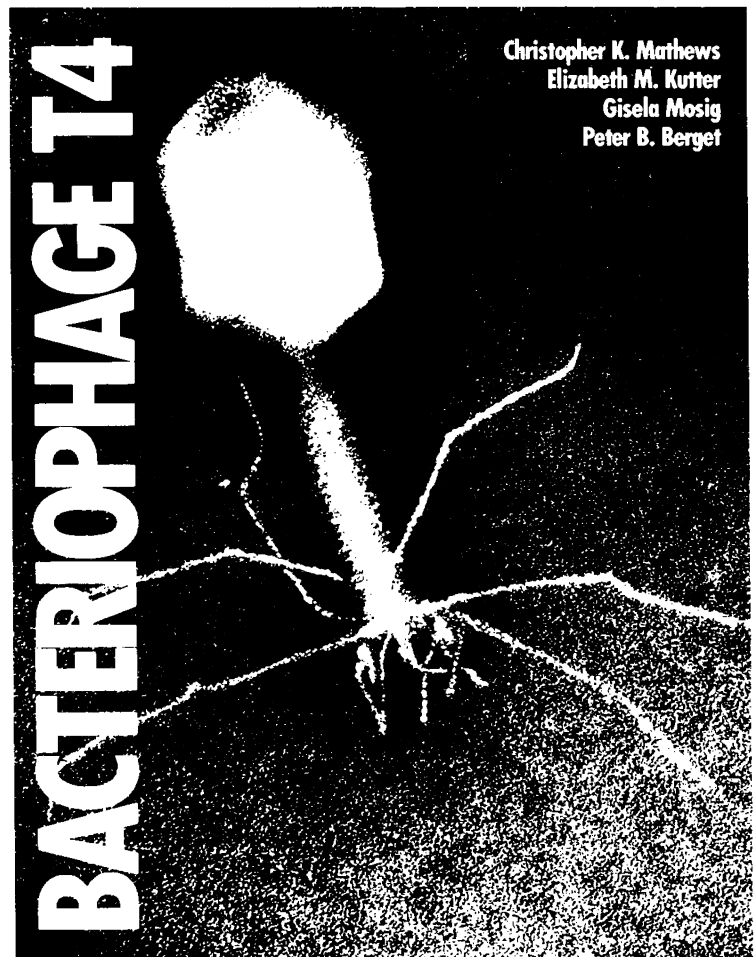
- I. T4 Structure and Initiation of Infection
- II. DNA Metabolism
 - A. Enzymes and Proteins of DNA Metabolism
 - B. DNA Metabolism In Vivo
- III. Regulation of Gene Expression
 - A. Transcription
 - B. Processing and Translation
- IV. Morphogenesis
- V. Structure, Organization, and Manipulation of the Genome
- VI. Some Complexities of T4 Genes, Gene Products, and Gene Product Interactions

An appendix presents a table of T4 genes and gene products.

Ordering Information:

Publication Date: August 1983
ISBN: 0-914826-56-5
410 pages, illustrated. Flexible binding.
\$19.00.

To order, send check or money order in the correct amount (in U.S. dollars) to ASM.



ASM
American Society
for Microbiology

Published and distributed by:
American Society for Microbiology, 1913 I STREET, NW, WASHINGTON, DC 20006

Human biological
response modifiers...

A Researcher's Resource

Because we, too, are totally committed to the study of human biological response modifiers, we understand the need for quality, purity, innovation and consistent supply. We've dedicated ourselves to filling the needs of the research community. Our products and services are resources you can depend on to grow as your needs expand and change.

Antibodies to human interferons

- Polyclonal human alpha
- Polyclonal human gamma
- Affinity purified IgG to human alpha
- Affinity purified IgG to human gamma
- Monoclonal human gamma

Natural human alpha interferon

- Purities to over 100 million I.U. mg protein

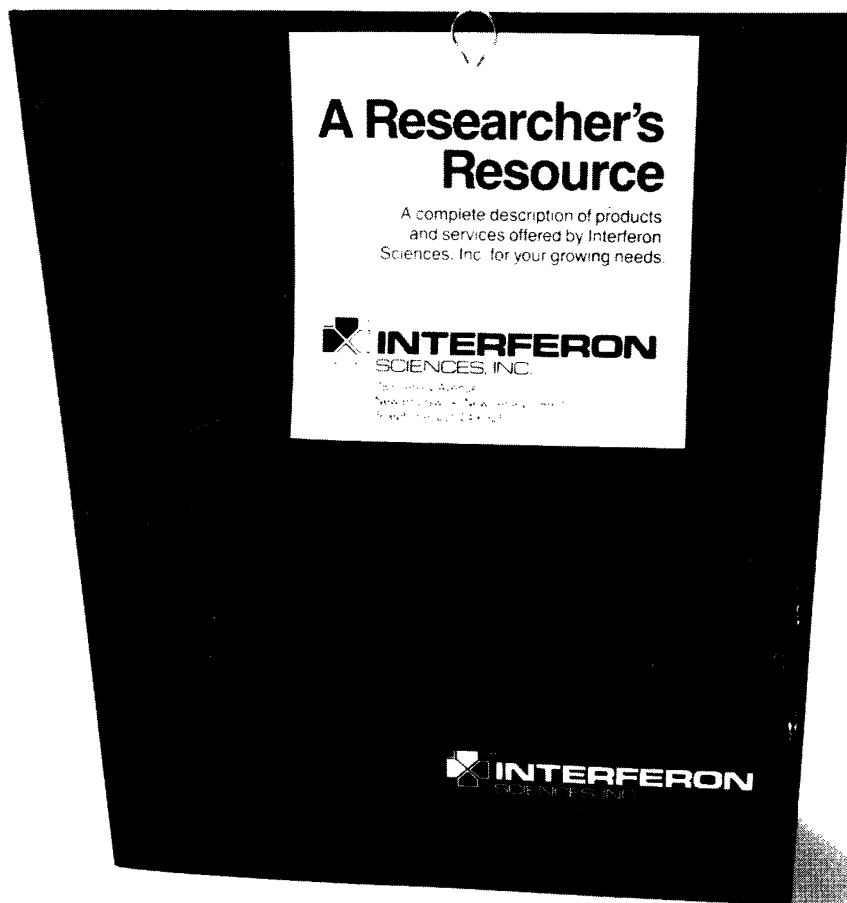
Natural human gamma interferon

- Purities to over 1 million units mg protein
- Affinity purified preparations

Also available

- Phytohemagglutinin
- Hydron[®] NCC non-adhesive cell culture coating

Call or write for your no obligation copy of A Researcher's Resource, our current offering of products for investigational use and a description of our collaborative research and business opportunities.



 **INTERFERON**
SCIENCES, INC.

783 Jersey Avenue
New Brunswick, New Jersey 08901
201-249-3250
Telex: ISI NPDC 9109970024
Answer Back: NPD ISI CI