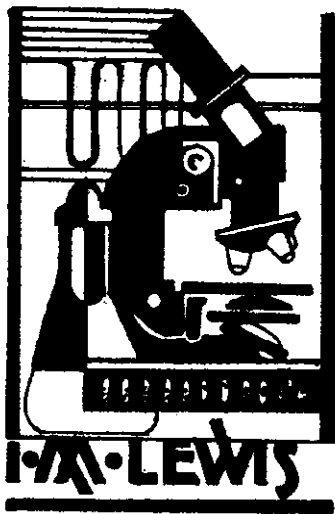


**1982  
SPRING  
MEETING**



TEXAS  
BRANCH  
AMERICAN  
SOCIETY FOR  
MICROBIOLOGY



## ACKNOWLEDGMENTS

We extend our appreciation to Dean Hugh Ayer and Vice President Howard Smith of North Texas State University for funds which helped defray many of the expenses incurred in setting up the meeting. We also are indebted to the following sustaining members for their contributions to the meeting fund.

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All attendees and their guests are urged to support the sustaining members and to visit their exhibits in the West Ballroom.

THURSDAY

April 29, 1982

REGISTRATION

Motel Lobby, 2:00-7:00 p.m.

Executive Meeting

(Texas Branch ASM Officers and Guests)

Maya Room, 3:00-7:00 p.m.

SYMPOSIUM I

East Ballroom

7:30-9:30 p.m.

Biological Functions and Clinical Aspects  
of Human Interferons

Convener: Dr. Y. C. Chen  
North Texas State University

Heterogeneity of Human Interferon

Dr. William E. Stewart, II  
Department of Medical Microbiology  
and Immunology  
University of South Florida,  
College of Medicine, Tampa

Effect of Human Interferon on Phosphorylation  
of Ribosomal Proteins

Drs. C. J. Gauntt and J. C. Lee  
Departments of Microbiology and Biochemistry  
University of Texas Health Science Center  
at San Antonio

Potentiation of the Antiviral and Anticellular  
Activities by Combined IFN- $\gamma$  and IFN- $\alpha$   
or IFN- $\beta$  Preparations

Dr. W. R. Fleischmann, Jr.  
Department of Microbiology  
University of Texas Medical Branch  
Galveston

THURSDAY - Continued

Interferon: The Current Clinical Status

Dr. Norwood Hill

President, The Wadley Institutes of  
Molecular Medicine  
Dallas, Texas

PANEL DISCUSSION

Mixer, West Ballroom - 9:30 p.m.

FRIDAY MORNING

April 30, 1982

Tiered Auditorium

SYMPOSIUM II

8:30 a.m. to Noon

The Role of Oxygen in Bacterial Metabolism

Convener: Dr. Roland Vela  
North Texas State University

Terminal Oxidases of Bacteria

Dr. Peter Jurtshuk  
University of Houston

Superoxide Dismutases

Dr. Larry Britton  
University of Texas, Austin

10:00 - 10:30 a.m. COFFEE BREAK  
(Visit the exhibits, West Ballroom)

In Vivo Protection of Nitrogenases  
from Oxygen

Dr. Stephen Bodmer  
University of Zurich, Switzerland

ROUND TABLE DISCUSSION  
(oxygen conversations)

FRIDAY MORNING

April 30, 1982

East Ballroom

SYMPOSIUM III

8:30 a.m. to Noon

Colonization and Virulence Factors

Convener: Dr. Joe Berry  
University of Texas, Austin

Introductory Remarks

Dr. Joe Berry

Factors Contributing to Virulence in

Urinary Tract Infections

Dr. Richard Hull  
Baylor College of Medicine

9:45 - 10:15 a.m. COFFEE BREAK  
(Visit the exhibits, West Ballroom)

Colonization Factors of Enterotoxigenic

E. coli

Drs. Dolores and Doyle Evans  
University of Texas Medical School at Houston

ROUND TABLE DISCUSSION

FRIDAY AFTERNOON

APRIL 30, 1982

Tiered Auditorium

GENERAL MICROBIOLOGY SESSION I

Convener: Dr. Gordon Dorn  
The Wadley Institutes of Molecular Medicine  
Dallas, Texas

1:30 Cytochrome Oxidase Studies on Bacillus  
spp. J. K. Liu\*\* and Peter Jurtshuk, Jr.  
Department of Biology, University of  
Houston, Houston, Texas

1:45 Localization of the sn - glycerol-3-  
phosphate acyltransferase in  
Rhodopseudomonas sphaeroides.  
Cynthia L. Cooper\*\* and Donald R.  
Lueking, Department of Biology, Texas  
A&M University, College Station, Texas

2:00 Metabolic "flip" in E. coli cultures.  
Terry Johnson\*\* and Roland Vela,  
Department of Biological Sciences,  
North Texas State University, Denton,  
Texas

2:15 Soil Substrate for Azotobacter Growth.  
Frances Wu\*\* and Roland Vela,  
Department of Biological Sciences,  
North Texas State University,  
Denton, Texas

\*\*Student Presentation

\*Staff Presentation

2:30 -- 3:00 COFFEE BREAK  
Visit the Exhibits - West Ballroom



GENERAL MICROBIOLOGY SESSION I - **Continued**

- 3:00 Isolation and Characterization of a Glycerol Kinase Specialized Transducing Phage.  
G. W. Stearns, II\*\*, J. Rheiner, T. Bunch, W. E. Prater and J. R. Johnson,  
Department of Biology, Texas A&M University, College Station, Texas
- 3:15 The Enhanced Lysogenization by Chloramphenicol in Phage P22.  
Shin-ichi Tokuno\*, Department of Biology, Texas A&I University, Kingsville, Texas
- 3:30 Prostaglandin F<sub>2α</sub> Production by Rabbit Alveolar Macrophages. Richard L. Ziprin\*,  
Veterinary Toxicology Laboratory USDA, College Station, Texas

\*\*Student Presentation

\*Staff or Faculty Presentation

FRIDAY AFTERNOON

April 30, 1982

East Ballroom

CLINICAL MICROBIOLOGY SESSION

Convener: Dr. Elizabeth Harris  
Texas College of Osteopathic Medicine  
Fort Worth, Texas

- 1:30 A New Mouse Model for Lung Cancer -  
Effect of Vitamin Therapy. R. C.  
Moyer\*<sup>1</sup>, D. G. Morrison<sup>2</sup>, W. Rogers<sup>3</sup>  
and M. P. Moyer<sup>3</sup>, <sup>1</sup>Biology Department  
Trinity University, San Antonio, Texas;  
<sup>2</sup>Baylor College of Medicine, Houston,  
Texas; <sup>3</sup>Department of Surgery, University  
of Texas Health Science Center, San  
Antonio, Texas
- 1:45 A Historical Summary of Mycobacterial  
Cultures at the Veterans Administration  
Medical Center in Oklahoma City (1960-  
1980). Kenneth M. Cunningham\*,  
D. J. Flournoy\*<sup>1</sup>, and Paul P. Omondi<sup>2</sup>,  
Clinical Microbiology Section,  
Veterans Administration Medical Center<sup>1</sup>,  
and School of Public Health, Univ. of  
Oklahoma Health Sciences Center<sup>2</sup>,  
Oklahoma City, Oklahoma.
- 2:00 A Survey of Clinical Microbiology in  
Oklahoma Hospitals. D. J. Flournoy\*<sup>1</sup>  
and S.M.H. Qudri<sup>2</sup>, Clinical Microbiology  
Sections, Veterans Administration Medical  
Center<sup>1</sup> and Oklahoma Memorial Hospital<sup>2</sup>,  
Oklahoma City, Oklahoma

\*\*Student Presentation

\*Staff Presentation

CLINICAL MICROBIOLOGY SESSION - Continued

- 2:15 Culture and Transformation of  
Gastronintestinal Epithelial Cells.  
Mary Pat Moyer\*, Carey P. Page, and Rex  
C. Moyer. Departments of Surgery and  
Microbiology, The University of Texas  
Health Science Center at San Antonio,  
and The Thorman Cancer Research Laboratory  
Trinity University, San Antonio, Texas.

2:30 - 3:00 COFFEE BREAK

Visit the exhibits, West Ballroom

- 3:00 Comparison of IFA Text and Eliza for  
Anaplasma marginal Serology in Cattle/  
R. F. Teclaw, R. M. Nordgren, and  
G. G. Wagner, Center for Tropical  
Animal Health, Texas A&M University,  
College Station, Texas.
- 3:15 Clinical Laboratory Evaluation of A Rapid,  
Automated Urine Screening Device.  
Loraine Vienn\*, Charles Stager\*,  
and James Davis\*, Department of Pathology,  
The Methodist Hospital, Ben Taub General  
Hospital, and Baylor College of Medicine,  
Houston, Texas.
- 3:30 Development of An Agar Diffusion Method  
for Determining Tobramycin Potency.  
H. Dunton and R. L. Abshire, Alcon  
Laboratories, Inc., R&D Microbiology,  
Fort Worth, Texas
- 3:45 A Validation Model for CFR Microbiological  
Turbidimetric Assays. D. A. Heinle,  
R. L. Abshire, and B. A. Schlech,  
Alcon Laboratories, Inc., R&D Microbiology,  
Fort Worth, Texas

\*\*Student Presentation

\*Staff or Faculty Presentation

FRIDAY AFTERNOON

April 30, 1982

East Ballroom

4:30 p.m.

Introduction of the I. M. Lewis Lecturer

by

Johnny W. Peterson

President, Texas Branch, ASM

I. M Lewis Lecture:

Interferons: Natural Body Products That Can  
Cure and/or Cause Disease

Dr. William E. Stewart, II

Department of Medical Microbiology and  
Immunology

University of South Florida

College of Medicine, Tampa

Mixer - Light Refreshments

6:00 p.m. - West Ballroom

SATURDAY MORNING

May 1, 1982

Tiered Auditorium

GENERAL MICROBIOLOGY SESSION II

Convener: Dr. Thomas Chrzanowski  
University of Texas, Arlington  
Arlington, Texas

8:30 Cross-immunity studies with the Eimeria species in the rat. Richard Huey\*\*, Department of Veterinary Microbiology and Parasitology, Texas A&M University, College Station, Texas.

8:45 Identification of the Two Major Pigment Complexes of Xanthomonas campestris (Juglandis). L. E. Aririatu\*\*, and A. S. Kester, Department of Biological Sciences, North Texas State University, Denton, Texas.

9:00 Rhizobium nodulation of legume root explants. Evelyn Rials\*\* and R. D. Humphrey, Department of Biology, Prairie View A&M University, Prairie View, Texas.

9:15 A System for Evaluating the Sterilization Effectiveness of Ultraviolet Radiation. R. L. Abshire and B. A. Schlech, Alcon Laboratories, Inc., R&D Microbiology, Fort Worth, Texas.

9:30 - 10:00 COFFEE BREAK

Visit the Exhibits - West Ballroom

\*\*Student Presentation

\*Staff Presentation

GENERAL MICROBIOLOGY SESSION II - Continued

- 10:00 Susceptibilities of Selected Strains of Microorganisms to Low-Intensity Ultraviolet Radiation. R. L. Abshire and B. A. Schlech, Alcon Laboratories, Inc., R&D Microbiology, Fort Worth Texas
- 10:15 Degradation of Wheat-Straw Lignocellulose by Species of Fusarium. J. B. Sutherland\*<sup>1</sup>, A. L. Pometto, III<sup>2\*</sup>, and D. L. Crawford<sup>2</sup>, Department of Biological Sciences, Texas Tech University, Lubbock, Texas<sup>1</sup>, and Department of Bacterology and Biochemistry<sup>2</sup>, University of Idaho, Moscow, Idaho
- 10:30 Microbial Growth Associated with Granular Activated Carbon (GAC) in a Pilot Water Treatment Facility. D. P. Wilcox\*, K. L. Dickson, K. R. Johansson, Institute of Applied Sciences and Department of Biological Sciences, North Texas State University, Denton, Texas

\*\*Student Presentation

\*Staff or Faculty Presentation

SATURDAY MORNING

May 1, 1982

East Ballroom

MEDICAL MICROBIOLOGY SESSION

Convener: Dr. David McMurray  
Texas A&M University  
College Station, Texas

- 8:30 Isolation of Nondissociating N. gonorrhoeae Colony Type T2 Cells. Anthony H. Gonzalez\*\*, and G. R. Vela, Department of Biological Science, North Texas State University, Denton, Texas.
- 8:45 Observations of Staphylococcal Adherence to Epithelial Cells. Cynthia L. Chappel\*\*, and R. Russell Martin, Baylor College of Medicine, Departments of Internal Medicine and Microbiology & Immunology, 1200 Moursund Avenue, Houston, Texas.
- 9:00 Immunological Studies of the Outer Membrane Proteins of Haemophilus influenzae Type b Using a Rat Model System. Paul A. Gulig\*\* and Eric J. Hansen, Department of Microbiology, University of Texas Health Science Center at Dallas.

\*\*Student Presentation  
\*Staff Presentation

MEDICAL MICROBIOLOGY SESSION - Continued

- 9:15 Post-phagocytic Detection of Mycobacterial Lipid Antigens by Immunocytochemical Techniques. Mark J. Tereletsky and William W. Barrow\*, Department of Microbiology and Immunology, Texas College of Osteopathic Medicine, Fort Worth, Texas.

9:30 - 10:00 COFFEE BREAK  
Visit the Exhibits - West Ballroom

- 10:00 Functional Analysis of IgD+ and IgD- B Lymphocytes From Adult and Neonatal Mice. Scott F. McFadden\*\* and Ellen S. Vitella\*, Department of Microbiology, University of Texas Health Science Center at Dallas. Dallas, Texas.

- 10:15 A Comparative Study with an Enzyme-linked Assay for Neisseria gonorrhoeae. David Maserang and Gary Cartwright, Texas Department of Health and Dallas County Health Department, Dallas, Texas.

- 10:30 Evaluation of the Lumac System for Measuring Bacteriologic ATP by Bioluminescence. E. D. Adams, Jr., Major, BSC, USAF, Ferne K. McCleskey\*, Microbiology - Wilford Hall USAF Medical Center, Lackland AFB, Texas

Visit the Exhibits - West Ballroom

\*\*Student Presentation

\*Staff or Faculty Presentation



MEDICAL MICROBIOLOGY SESSION - Continued

10:45 Exposure of Pharmacy Personnel to Mutagenic Anti-cancer Drugs. Tot V. Nguyen, Jef Theiss, Roger Anderson and Tom Matney\*, University of Texas Health Science Center School of Public Health and Graduate School of Biomedical Sciences, and University of Texas System Cancer Center, Department of Pharmacy, M.D. Anderson Hospital & Tumor Institute, Houston, Texas

\*\*Student Presentation

\*Staff or Faculty Presentation

BUSINESS MEETING

Saturday Morning

May 1, 1982

East Ballroom

11:30 a.m.

K. R. Johansson  
Department of Biological Sciences  
North Texas State University  
Denton, TX 76201

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1982



Texas Branch, ASM  
Spring Meeting  
Quality Inn  
Arlington, Texas

GOLDSCHWIDT, MILLICENT E 2-61  
3611 CLOVERDALE  
HOUSTON TX 77025

Registration:  
April 29, 1982, 2:00-7:00 p.m.  
April 30, 1982, 8:00 a.m.-4:00 p.m.  
May 1, 1982, 8:00-9:00 a.m.