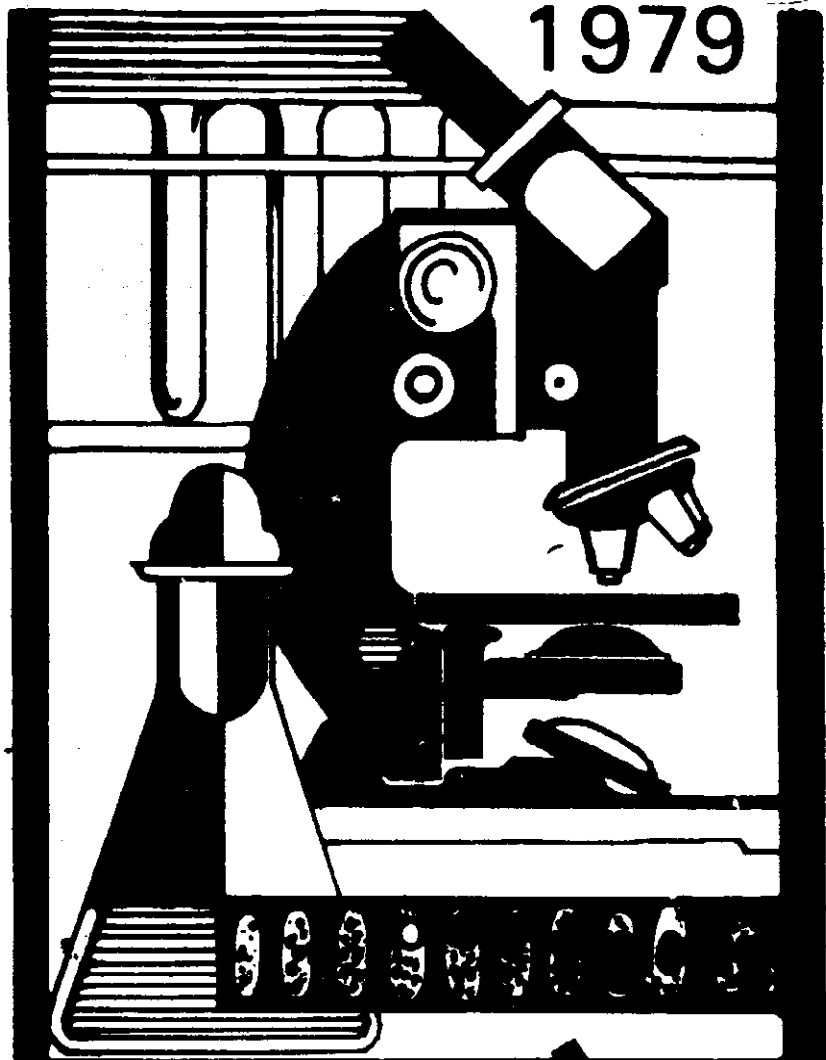


# Fall Meeting

1979



**I. M. LEWIS**

Texas Branch

American Society for Microbiology

SUPPORT YOUR SUSTAINING MEMBERS AND VISIT  
THEIR EXHIBITS IN TIMES SQUARE EASTSIDE

#### ACKNOWLEDGEMENTS

The following sustaining members have generously supported this meeting by donations towards the costs of meeting expenses such as the coffee breaks and mixer. We sincerely appreciate their support.

Scimetrics  
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Other companies whose donations for support of this meeting are received after program printing will be thanked individually during the Business Meeting, Saturday, November 3, 1979, at 11:15.

THURSDAY, NOVEMBER 1, 1979

Registration: 3:00 - 7:00 p.m. - Hotel Lobby

Symposium: MICROBIAL SYSTEMS FOR DETECTING MUTAGENS  
AND POTENTIAL CARCINOGENS

Place: Times Square Westside

Time: 7:30 - 10:00 p.m.

Convenor: Thomas S. Matney  
University of Texas Health Science Center  
Graduate School of Biomedical Sciences  
at Houston

7:30 p.m. MOLECULAR PROBES FOR DNA-REACTIVE CHEMICALS

Roger R. Hewitt  
University of Texas System Cancer Center  
M. D. Anderson Hospital and Tumor Inst.

8:00 BACTERIAL TEST SYSTEMS

Eugene P. Goldschmidt  
University of Houston

8:30-9:00 Coffee Break - Times Square Eastside

9:00 ASPERGILLUS NIDULANS, AN ORGANISM DETECTING A  
RANGE OF GENETIC END-POINTS

Barry R. Scott  
University of Texas System Cancer Center

9:30 METABOLIC ACTIVATION OF CHEMICAL CARCINOGENS

David L. Busbee  
Director of the Genetics Center  
North Texas State University

FRIDAY MORNING, NOVEMBER 2, 1979

GENERAL AND CLINICAL MICROBIOLOGY - SESSION I

Room: Barclay Square - Astor Place Combined

- 9:00 The effect of excission repair on the induction of premutational lesions by chemical agents. M. Inman, M. A. Butler and T. S. Matney\* - University of Texas Graduate School of Biomedical Sciences at Houston
- 9:15 Mutagenicity screening of some antiviral agents and common drugs in the Salmonella/Microsome assay. R. L. Morrow\*, L. B. Allen and E. F. Harris - Texas College of Osteopathic Medicine, Fort Worth
- 9:30 Purification of triacylglycerol lipase from Pseudomonas aeruginosa by affinity chromatography. L. K. Morrison\* and P. D. Keyser - Texas College of Osteopathic Medicine, Fort Worth
- 9:45 An effective vaccine for Bovine Brucellosis which does not interfere with present screening tests. T. L. Foster\* and J. H. Brewer - Science Research Center, Hardin-Simmons University, Abilene
- 10:00 Detection of enzymes and DNA binding proteins following electrophoresis in SDS-polyacrylamide gels. A. Rosenthal\* - Texas Christian University
- 10:15 Coffee Break - Times Square Eastside
- 10:45 Assessment of immediate hypersensitivity in humans utilizing KCL extracts of cavine hair. R. E. Paque\* and T. J. Ncalon - The University of Texas Health Science Center at San Antonio
- 11:00 Gentamicin: An evaluation of various serum assay methods. R. P. Thiboutot\*, O. Van Duyn, D. J. Flournoy and L. Allen - University of Oklahoma Health Science Center and Veterans Administration Medical Center, Oklahoma City

\*person presenting; \*\*student presentation

- 11:15 Colistin activity against Candida tropicalis and Candida parapsilosis. D. G. Johnson\* and D. J. Flournoy - Veterans Administration Medical Center, Oklahoma City
- 11:30 Presence of gentamicin and amikacin-resistant gram-negative bacteria in sinkdrains. F. A. Perryman\*\* and D. J. Flournoy - University of Oklahoma Health Sciences Center and Veterans Administration Medical Center, Oklahoma City
- 12:00 Executive Board Meeting - Mardi Gras (1st floor)

#### GENERAL MICROBIOLOGY - SESSION II

Room: Barclay Square - Astor Place Combined

- 1:00 Some effects of environment and nutrition on aerial bundle development in Phaeococcus exophialae. C. R. Cooper\*\*, J. L. Harris and I. L. Roth - University of Pittsburgh at Johnstown, Pa., University of Georgia, and University of Texas at Austin
- 1:15 Carotenoids of a dematiaceous fungus. P. A. Geis\*\* and P. J. Szanislo - University of Texas, Austin
- 1:30 A particulate non-specific alkaline phosphatase in the yeast Saccharomyces cerevisiae. J. K. Mitchell\*\*, W. Fonzi, and D. Opheim - Texas A & M University, College Station
- 1:45 Coffee Break - Times Square Eastside
- 2:15 Light-induced genomic and division synchrony in Rhodopseudomonas sphaeroides. T. B. Campbell\*\* and D. R. Lueking - Texas A & M University, College Station
- 2:30 Characteristics of rat repetitive DNA sequence insert in PBR 322 plasmid. J. S. Sevall and J. Oyervides\*\* - Texas Tech University, Lubbock

\*person presenting; \*\*student presentation

GENERAL MICROBIOLOGY - SESSION II continued

- 2:45 Isolation and characterization of specialized methionine transducing phage. C. J. Liljestrand\*\*  
M. E. Love and J. R. Johnson - Texas A & M  
University, College Station
- 3:00 Cytomegalovirus interactions with quinoline derivatives. H. Lund\*\*, D. Speelman and T. Albrecht - University of Texas Medical Branch, Galveston

MEDICAL MICROBIOLOGY - SESSION I

Room: Times Square Westside

- 8:30 Passive protection against X-irradiation without leukocyte recovery using Zymosan-primed and Endotoxin-injected mice. P. D. Addison\*\* and Joe Berry - University of Texas at Austin
- 8:45 Toxic Pseudomonas aeruginosa exoproducts in the lungs of acute respiratory failure patients: Demonstration by immunofluorescence. K. E. Crowe\*\*, D. E. Woods, J. A. Bass, W. G. Johanson, Jr., and D. C. Straus - The University of Texas Health Science Center at San Antonio
- 9:00 Rapid identification of fluorescent Pseudomonas species by videofluorometry. D. C. Shelly\*\*, J. M. Quarles and I. M. Warner - Texas A & M University, College Station
- 9:15 Effect of proteases on adherence of Pseudomonas aeruginosa to mammalian cells. D. E. Woods\*\*, D. C. Straus, W. G. Johanson, Jr., and J. A. Bass - University of Texas Health Science Center at San Antonio
- 9:30 Purified Type I Klebsiella pneumoniae pili: Adherence to mammalian cells. R. C. Fader\*\* and C. P. Davis - University of Texas Medical Branch, Galveston
- 9:45 Coffee Break - Times Square Eastside
- 10:15 Natural killer cells in patients with idiopathic rheumatoid arthritis. C. W. Suits\*\* and E. F. Harris - Texas College of Osteopathic Medicine, Fort Worth
- 10:30 Functional alterations in alveolar macrophages pre-exposed to the plasticizer Di (2-ethylhexyl) phthalate. M. B. Bally\*\*, H. G. Shertzer and D. J. Opheim - Texas A & M University, College Station

\*person presenting; \*\*student presentation

MEDICAL MICROBIOLOGY - SESSION I continued

- 10:45 Rapid separation of immunoglobulins in human serum by vertical rotor ultracentrifugation. J. McMillion\*\* and J. M. Quarles - Texas A & M University, College Station
- 11:00 Surgical site contamination during canine hysterectomy and an equine carpal surgery. M. F. Blankenstein\*\* - Department of Allied Health and Life Sciences, University of Texas at San Antonio
- 11:15 Listeria monocytogenes cell walls stimulate non-specific immunity. L. Vanderslice\*\* and A. Paquet, Jr. - Texas Christian University
- 11:30 Beta-lysin: Protein component of normal sera: Its bactericidal effect on Escherichia coli. S. Hubbard\*\*, G. T. Gooch, J. F. Fralick and C. L. Baugh - Texas Tech University, Lubbock
- 12:00 Executive Board Meeting - Mardi Gras (1st floor)

MEDICAL MICROBIOLOGY - SESSION II

Room: Times Square Westside

- 1:00 Opsonophagocytic studies with type III group B Streptococcus. D. L. Durham\*\*, T. I. Doran, S. J. Mattingly and D. C. Straus - University of Texas Health Science Center at San Antonio
- 1:15 Hemodialysis culture model for studying the antigenicity of Streptococcal soluble products. J. Henderson\*\* and J. M. Quarles - Texas A & M University, College Station
- 1:30 Studies of virulence in the Coxsackie virus B-3 murine model for myocarditis using ts mutants and revertant viruses. P. T. Gomez, G. J. Lipotich\*\*, T. J. Nealon, R. E. Paque and C. J. Gaunt. University of Texas Health Science Center at San Antonio

\*person presenting; \*\*student presentation



MEDICAL MICROBIOLOGY - SESSION II continued

- 1:45 Studies on the mechanism(s) of resistance in adolescent mice surviving challenge with a ts mutant of Coxsackie virus B-3 (CVB3) against induction of myocarditis by the myocarditic parental CVB3. C. J. Gaunt\*, G. J. Lipotich, D. T. Barr, P. S. Duffey and R. E. Paque - University of Texas Health Science Center at San Antonio
- 2:00 Coffee Break - Times Square Eastside
- 2:30 In vitro studies of the mechanism of induction of myocarditis by Coxsackie virus B-3 using adolescent murine endothelial cells and myocytes in tissue culture. M. L. Hague\*, R. E. Paque and C. J. Gaunt - University of Texas Health Science Center at San Antonio
- 2:45 Effect of 2-M.E. serum factor and macrophages on polyclonal stimulation of murine lymphocytes. P. S. Duffey\*, C. L. Gross and C. P. Barbe - University of Texas Health Science Center at San Antonio
- 3:00 Hemagglutination of urinary pathogens: A quantitative assay for the interaction between human erythrocytes and <sup>3</sup>H-labeled Escherichia coli. C. Green\*† and V. Thomas - University of Texas Health Science Center at San Antonio
- 3:15 Urinary tract infections: Quantitation of antibacterial antibodies in urine by radioimmunoassay. J. Ratner\*, V. Thomas, B. Sanford and M. Forland - University of Texas Health Science Center at San Antonio

\*person presenting; \*\*student presentation

FRIDAY, NOVEMBER 2, 1979

4:15 p.m. I. M. LEWIS LECTURE

Room: Times Square Westside

Introduction: B. G. Foster

"DRINKING WATER AND HEALTH"

Dr. Riley Housewright

National Academy of Sciences

6:30 - 8:00 p.m. MIXER

Place: Columbus Circle - Barclay-Astor Combined Rooms

Appetizers and Beer Free

Cash Bar for Mixed Drinks

SATURDAY, NOVEMBER 3, 1979

GENERAL AND MEDICAL MICROBIOLOGY - SESSION III

Room: Barclay Square - Astor Place

- 8:30 Regulation of c 1 gene activity of phage P22.  
S. Tokuno\* - Texas A & I University, Kingsville
- 8:45 Protease production by group B Streptococci.  
D. C. Straus\*, S. J. Mattingly, T. W. Milligan and  
T. I. Doran - University of Texas Health Science  
Center at San Antonio
- 9:00 Release of nascent type-specific antigen from  
serotype III group B Streptococci. T. I. Doran,  
S. J. Mattingly\*, and D. C. Straus - University  
of Texas Health Science Center at San Antonio
- 9:15 Antibody mediated phagocytosis of Enterobacteri-  
aceae. J. Measel\* and R. Vitalis - Texas College  
of Osteopathic Medicine and Kirksville College of  
Osteopathic Medicine
- 9:30 Coffee Break - Times Square Eastside
- 10:00 Preliminary studies of the effect of gold on  
lymphocytes. F. Lavender\* and J. Measel - Texas  
College of Osteopathic Medicine, Fort Worth
- 10:15 A comparison of the levels of protease from  
clinical strains of Pseudomonas aeruginosa.  
J. B. Reeves\* and W. M. Bell - Texas College  
of Osteopathic Medicine, Fort Worth
- 10:30 Proteolytic enzymes of substrate plasma in  
virally transformed cell cultures. L. S. Daley\*,  
M. B. Openshaw and Y. C. Chen. North Texas  
State University, Denton
- 11:15 \*\*\*\*\*BUSINESS MEETING\*\*\*\*\*  
Place: Times Square Westside

SATURDAY, NOVEMBER 3, 1979

Clinical Symposium: SYSTEMIC FUNGI AND THEIR DIAGNOSIS

Place: Times Square Westside

Convenor: Tom Rogers  
St. Lukes Hospital  
Houston, Texas

8:30 a.m. SPECIMEN PROCESSING, PLATING AND STAINING

Paula Vance  
Houston Health Department Laboratory

8:50 THE SYSTEMIC MYCOSES - CLINICAL ASPECTS AND  
LABORATORY IDENTIFICATION

Billy Cooper  
Baylor University Medical Center  
Dallas, Texas

9:30-10:00 Coffee Break - Times Square Eastside

10:00 SAPROPHYTIC FUNGI: NUISANCE - CONTAMINANT OF  
PATHOGEN

Shelley K. Stall  
Texas Department of Health, Laboratory  
Austin, Texas

10:30 SEROLOGICAL DIAGNOSIS OF FUNGAL INFECTIONS

Marcia McBride  
Texas Department of Health, Laboratory  
Austin, Texas

11:15 \*\*\*\*\*BUSINESS MEETING\*\*\*\*\*  
Place: Times Square Westside

## MEETING ABSTRACTS

If interested in submitting Abstracts for publication in the Texas Journal of Science, submit them on 8½ x 11" paper, double spaced with margins and a maximum of 250 words. The 250 words must include the title, authors, and institution. Abstracts are not to be submitted in national ASM style.

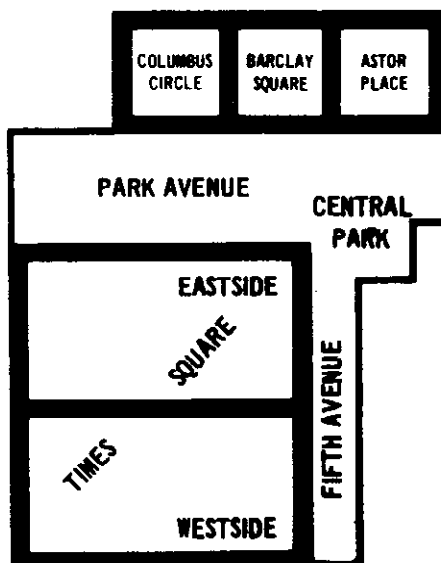
The abstracts should be given to the attendant at the registration tables. They will be passed on to Rex Moyer, Associate Editor of the Texas Journal of Science.

A \$10.00 charge per abstract will be billed by the Journal later with the galley proofs.

### LOCATION OF MEETING ROOMS - HILTON INN

All meetings and exhibits will be held on the second floor of the hotel which is reached via the lobby stairway or the elevator.

#### SECOND FLOOR



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Biology Department  
Texas Christian University  
Fort Worth, Texas 76129

Nov. 1-3, 1979  
Hilton Inn  
1701 Commerce  
Commerce at I-20  
Fort Worth, Tx  
(817) 335-7000

Registration:  
Hotel Lobby  
Nov. 1, 3-7 p.m.  
Nov. 2, 8:30-4 p.m.  
Nov. 3, 8:30-10 a.m.

— was Chapter of the E.P.S. —  
at meeting at ~~South~~ the  
Research Division of the DTSCC Science  
Park near Southville

Room