

FALL MEETING

TEXAS BRANCH
AMERICAN SOCIETY FOR
MICROBIOLOGY

October 1-3, 1981

EI TROPICANO HOTEL
SAN ANTONIO, TEXAS

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ACKNOWLEDGEMENTS

Sincere appreciation is extended to Armand Guarino, Dean of the School of Biomedical Sciences and of the School of Allied Health Sciences, and the following sustaining members who generously contributed toward defraying expenses incurred in advertising, programming or conducting this meeting. Their contributions and support are important factors in the success of this meeting and warrant our heartfelt thanks.

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All members of the Texas Branch, ASM, and guests at this meeting are urged to support the sustaining members and to visit their exhibits in the North American Room.

THURSDAY

October 1, 1981

REGISTRATION

3:00 - 7:00 p.m. in the Mall Area

EXECUTIVE MEETING

TEXAS BRANCH, ASM OFFICERS AND INVITED GUESTS

3:00 - 7:00 p.m. in the Fiesta Room

SYMPOSIUM

7:30 - 10:30 p.m. in the River Room

SEXUALLY TRANSMITTED DISEASES

Introduction and Convener

Joel B. Baseman

Department of Microbiology

The University of Texas Health Science Center
at San Antonio

Molecular-Biological Approaches for the
Study of Treponema pallidum

Michael V. Norgard

Department of Microbiology

The University of Texas Health Science Center
at Dallas

Immunoregulatory Effects of Immune Complexes
in Experimental Syphilis

Robert E. Baughn

Department of Dermatology

Baylor College of Medicine

and

Research Service, Houston VA Hospital

COFFEE BREAK 8:30 - 9:00

Gonococcal Surface Antigens as Analyzed
by Lymphocyte-Hybridoma Technology

Kenneth H. Johnson
Department of Microbiology
The University of Texas Health Science Center
at Dallas

Host-Free Activities of Chlamydia

Thomas P. Hatch
Department of Microbiology
The University of Texas
Austin, Texas

PANEL DISCUSSION

FRIDAY MORNING

October 2, 1981

Lanai Room

GENERAL MICROBIOLOGY SESSION 1

Convener: Mary Pat Moyer, Departments of Surgery and Microbiology, The University of Texas Health Science Center at San Antonio

- 8:30 MS 2 Phage Infection of Temperature Sensitive Mutants of E. coli. J. Armstrong-Major** and W.S. Champney, Division of Allied Health and Life Sciences, University of Texas at San Antonio.
- 8:45 Physical and Genetic Studies of Transposon Tn5 Mutagenized Specialized Lambda Transducing Phage. Mary E. Treat** and James R. Johnson, Microbiology Section of the Department of Biology, Texas A & M University, College Station, Texas.
- 9:00 Properties of Hybrid Aspartate Transcarbamoylases Formed with Native Subunits from Divergent Bacteria. M.S. Shanley**, K.F. Foltermann, G.A. O'Donovan, and J.R. Wild, Department of Biochemistry and Biophysics, Texas A & M University, College Station, Texas.
- 9:15 DNA:DNA Homology between Haemophilus somnus and a few select members of the genera Haemophilus, Pasteurella, Escherichia, and Micrococcus. Herbert F. Gonzalez** and Douglas P. Bingham, West Texas State University, Department of Biology, Canyon, Texas.

9:30 - 10:00 COFFEE BREAK
North American Room - Visit the Exhibits

GENERAL MICROBIOLOGY SESSION 1 - Continued

- 10:00 A Host-Range Variant of Autographa Californica Nuclear Polyhedrosis Virus: Characterization of Growth Kinetics and DNA Structure. Deann M. Gerwig and S. L. Bilimoria*, Department of Biological Sciences, Texas Tech University.
- 10:15 Radiation-Sensitive Mutants of the Nematode Caenorhabditis elegans. Philip S. Hartman, Department of Biology, Texas Christian University, Fort Worth, Texas.
- 10:30 Effect of chloramphenicol upon repressor synthesis of phage P22. Shin-ichi Tokuno*, Irene Olivarez and Agustin Calderin, Department of Biology, Texas A & I University, Kingsville, Texas.
- 10:45 Effect of Chloramphenicol upon P22 viral DNA synthesis. Agustin Calderin* and Shin-ichi Tokuno, Department of Biology, Texas A & I University, Kingsville, Texas.

**Student Presentation

*Staff or Faculty Presentation

FRIDAY MORNING

October 2, 1981

River Room

MEDICAL MICROBIOLOGY SESSION 1

Convener: John Alderete, Department of Microbiology,
The University of Texas Health Science
Center at San Antonio

- 8:30 Lack of Virulence of Bovine Type III Streptococcus agalachae strains correlates with reduced in vitro production of extracellular type specific antigen. D.C. Straus*², M.K. Yeung¹, D.L. Durham¹ and S.J. Mattingly¹, ¹Department of Microbiology, University of Texas Health Science Center at San Antonio and ²Texas Tech University Health Sciences Center, Lubbock, Texas.
- 8:45 Clinical Correlation of Teichoic Acid Antibodies with Invasive Staphylococcus aureus Disease as Determined by Two Different Antigenic Preparations. D.L. Cahall*, K.J. Johnson, R.A. Nemitz, and F.E. Conley, University of Texas Medical School at Houston, Department of Pathology and Laboratory Medicine.
- 9:00 Folic Acid is Required for the Synthesis of the rhamnose-containing Polysaccharide Layer of the Cell Wall of Streptococcus faecalis. Robert C. Wood. Department of Microbiology, University of Texas Medical Branch, Galveston, Texas 77550.
- 9:15 The Purification of Platelet β -Lysin. J.M. Rickaby* and G.T. Gooch, Texas Tech University & Texas Tech University School of Medicine.

9:30 - 10:00 COFFEE BREAK

North American Room - Visit the Exhibits

MEDICAL MICROBIOLOGY SESSION 1 - Continued

- 10:00 Studies on Membrane and Wall Teichoic Acids Associated with Virulent and Avirulent Serotype III Strains of Group B Streptococci. Timothy J. Nealon**, Terence I. Doran and Stephen J. Mattingly, Department of Microbiology, The University of Texas Health Science Center at San Antonio.
- 10:15 Association of Type and Group Specific Polysaccharides with the Cell Wall Peptidoglycan of Serotype III Group B Streptococcus. Maria K. Yeung**, Terence I. Doran and Stephen J. Mattingly, The University of Texas Health Science Center at San Antonio.
- 10:30 Comparative Study of the Cell Wall Proteins of the Five Serotypes of Group B Streptococci. Debra P. Krieg** and Stephen J. Mattingly, Department of Microbiology, The University of Texas Health Science Center at San Antonio.

**Student Presentation

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FRIDAY MORNING

October 2, 1981

South American Room

CLINICAL MICROBIOLOGY

Convener: Andy Paquet, Department of Biology,
Texas Christian University

- 8:30 Incidence of Unusual Enteric Pathogens in South Texas. Roy Almeida** and James H. Jorgensen, The University of Texas Health Science Center and Bexar County Hospital, San Antonio, Texas.
- 8:45 Urine Culture for Detection of Neisseria gonorrhoeae. Kay Buchanan**¹, Dennis Nave², Thomas Huber³, Robert P. Williams¹, ¹Baylor College of Medicine, ²University of Texas Medical School at Houston, ³Olin E. Teague Veterans Center, Temple, Texas.
- 9:00 Evaluation of an ELISA Assay for Cytomegalovirus. Susan Smith **¹, Ginger Flannery², Bruce Elliott³, David Moore⁴, and Thomas Huber⁵, ¹School of Public Health, University of Texas Science Center at Houston, ²City of Houston Health Department Laboratory, ³Texas Department of Health, ⁴Baylor College of Medicine, and ⁵Olin E. Teague Veterans Center, Temple, Texas.
- 9:15 Evaluation of an ELISA Assay for Rubella. Jo Ann Vitsura**¹, Ginger Flannery², David Moore³ and Thomas Huber⁴, ¹School of Public Health, University of Texas Health Science Center at Houston, ²City of Houston Health Department Laboratory, ³Baylor College of Medicine, ⁴Olin E. Teague Veterans Center, Temple, Texas.

9:30 - 10:00 COFFEE BREAK

North American Room-- Visit the Exhibits

CLINICAL MICROBIOLOGY - Continued

- 10:00 Evaluation of the Necessity for Routine Terminal Subcultures of Bac Tec Blood Culture Bottles. Ernest D. Adams, Jr., Maj., USAF, BSC and Ferne K. McCleskey*, Wilford Hall USAF Medical Center, Lackland AFB, Texas.
- 10:15 Occurrence of Fecal Contamination in Mexican Foods. L.V. Wood* and M.L. DuPont, Program in Infectious Diseases, University of Texas Medical School, Houston, Texas.
- 10:30 Susceptibility of Pseudomonas aeruginosa to Azlocillin, Cefotaxime, Cefsulodin, and Moxalactam. Paul M. Southern, Jr., University of Texas Health Science Center at Dallas, Department of Pathology.
- 10:45 PADAC, A New Chromogenic Cephalosporin for Rapid Beta-Lactamase Testing. James H. Jorgensen and Sharon A. Crawford*, University of Texas Health Science Center at San Antonio.
- 11:00 A Proposed Method of Mosquito-borne Encephalitis Surveillance Using the Aedes albopictus Cell Line I. Susceptibility of Aedes albopictus Cells and Culex quinquefasciatus Mosquitoes to Infection with Laboratory Strains. Elton Ray Collins* and Ronald W. Johns, Texas Department of Health, Medical Virology Branch, Austin, Texas.
- 11:15 A Proposed Method of Mosquito-borne Encephalitis Surveillance Using the Aedes albopictus Cell Line II. Serological Detection of Infected Aedes albopictus Cell Cultures. Ronald W. Johns* and Elton Ray Collins, Texas Department of Health, Medical Virology Branch, Austin, Texas.

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FRIDAY AFTERNOON

October 2, 1981

South American Room

GENERAL MICROBIOLOGY SESSION II

Convener: A. Joanne Bednarz-Prashad, Program in Infectious Diseases, The University of Texas Health Science Center at Houston.

- 1:00 Hydroxyl Radical Production in Streptococcus faecalis. S.L. Nichols** and L.N. Britton, Department of Microbiology, University of Austin.
- 1:15 Isolation and Characterization of a Carotenoprotein Complex from Corynebacterium poinsettiae. R.A. Meckell** and A.S. Kester, Department of Biol. Sci., North Texas State University, Denton, Texas.
- 1:30 Isolation and Characterization of the Pigment-Lipid Complex from Membranes of Xanthomonas campestris (Juglandis). Lawrence Aririatin** and A.S. Kester, Department of Biol. Sci., North Texas State University, Denton, Texas.
- 1:45 A Rapid Method for Detection and Quantitation of Initial Products from the Microbial Oxidation of Naphthalene. L.P. Wackett** and D.T. Gibson, The University of Texas at Austin.

2:00 - 2:30 COFFEE BREAKS

North American Room - Visit the Exhibits

GENERAL MICROBIOLOGY SESSION 2 - Continued

- 2:30 Cytochrome Composition of Bordetella pertussis Strains. L.A. Fletcher** and L.N. Britton, Department of Microbiology, University of Texas, Austin, Texas.
- 2:45 Colonial Variation of Neisseria gonorrhoeae. A.H. Gonzalez**, Joel Escamilla, and G.R. Vela, Department of Biological Sciences, North Texas State University.
- 3:00 Wild Birds as Possible Hosts and Vectors of Mammalian Strains of Chlamydia psittaci. Mark C. Johnson, Texas A & M University, College Station, Texas, Department of Veterinary Microbiology and Parasitology.
- 3:15 Characteristics of Tumor-Associated Bacteria. Elizabeth F. Harris* and Rebecca L. Morrow, Department of Microbiology and Immunology, Texas College of Osteopathic Medicine, Fort Worth, Texas.
- 3:30 Desiccation Resistance of the Filtrable Cells of Azotobacter. Roland Vela* and Jesus G. Lopez, North Texas State University and Universidad de Granada.

**Student Presentation

*Staff or Faculty Presentation

FRIDAY AFTERNOON

October 2, 1981

River Room

MEDICAL MICROBIOLOGY SESSION 3

Convener: Eppie Rael, Department of Biological Sciences, University of Texas at El Paso.

- 1:00 Effects of Iron Limitation on Vibrio parahaemolyticus. C.R. Andrus** and Shelley M. Payne, Department of Microbiology, University of Texas at Austin.
- 1:15 The Effect of Iron on Growth, Siderophore Production, and Expression of Outer Membrane Proteins of Vibrio cholerae. Suzanne P. Sigel** and Shelley M. Payne, Department of Microbiology, University of Texas at Austin.
- 1:30 Detection of Antibody-Dependent Cell-Mediated Cytotoxicity in Experimentally Induced Shigellosis. Donna M. Jansen*, Steve Kohl and Herbert L. DuPont, University of Texas Medical School, Program in Infectious Diseases and Clinical Microbiology, Houston, Texas.
- 1:45 An Investigation of the Genetic Possibilities for Salmonella Toxin Synthesis. Clifford W. Houston* and Johnny W. Peterson, The University of Texas Medical Branch, Department of Microbiology, Galveston, Texas.

2:00 - 2:30 COFFEE BREAK

North American Room - Visit the Exhibits

MEDICAL MICROBIOLOGY SESSION 2 - Continued

- 2:30 Role of a Salmonella Cytotoxic Factor in the Pathogenesis of Salmonellosis. Felix C.W. Koo*, Clifford W. Houston, and Johnny W. Peterson, Department of Microbiology, The University of Texas Medical Branch, Galveston, Texas.
- 2:45 The Effect of Lactobacillus on the Toxicogenicity of Various Enterotoxigenic E. Coli Strains Using the Ligated Rabbit Ileal Loop Assay. Luther Winans, Science Research Center, Abilene, Texas.
- 3:00 Partial Purification and Characterization of Proteases from Aeromonas Hydrophila. James B. Reeves* and Esther L. Wright, Department of Microbiology and Immunology, Texas College of Osteopathic Medicine, Camp Bowie at Montgomery, Fort Worth, Texas.

**Student Presentation

*Staff or Faculty Presentation

FRIDAY AFTERNOON

October 2, 1981

Lanai Room

MEDICAL MICROBIOLOGY SESSION 3

Convener: Gary Aron, Department of Biology,
Southwest Texas State University

- 1:00 Resistance in Coxsackievirus B3 (CVB3) to
Mutant-Inoculated Mice to Induction of Myocarditis
by Wild Type CVB3 is Due to Altered T
Lymphocyte Response(s). R.J. Gudvangen*,
T.J. Nealon, R.E. Paque, P.S. Duffey & C.J.
Gauntt, University of Texas Health Science
Center at San Antonio.
- 1:15 Human Leukocyte Interferon Alters
Phosphorylation of Ribosomal Proteins. J.C.
Lee¹ and C.J. Gauntt^{2*}, Departments of
Biochemistry¹ and Microbiology^{2*}, University
of Texas Health Science Center at San Antonio.
- 1:30 The Effect of Macrophage Depletion on the
Induction and Expression of Coxsackievirus-
Induced Myocarditis. Ronald E. Paque* and
Charles J. Gauntt, Department of Microbiology,
The University of Texas Health Science Center
at San Antonio.
- 1:45 Effect of Pokeweed Antiviral Protein on Macro-
molecular Synthesis in Herpes Simplex Virus
Type 1 Infected Cells. Gelna J. Teltow**,
James D. Irvin and Gary M. Aron, Department
of Biology, Southwest Texas State University.

2:00 - 2:30 COFFEE BREAK

North American Room - Visit the Exhibits

MEDICAL MICROBIOLOGY SESSION 3 - Continued

- 2:30 Association of Mouse Immune Interferon with its Inhibitor. E.J. Lefkowitz** and W.R. Fleischmann, Jr., University of Texas Medical Branch, Galveston, Texas, Department of Microbiology.
- 2:45 Modification of Pyruvate Kinase Kinetics During Viral Transformation of Mammalian Cells. Michael B. Openshaw, Caroline King**, and Y.C. Chen, Department of Biological Sciences, North Texas State University, Denton, Texas.
- 3:00 Interferon-Induced Inhibition of Cellular Transformation by RNA Tumor Virus. Janya Siripont**, M.P. Langford, G.J. Stanton, and Y.C. Chen, Department of Biological Sciences, North Texas State University, Denton, Texas and Department of Microbiology, University of Texas Medical Branch, Galveston, Texas.
- 3:15 Interferon Production in a Matrix Perfusion Cell Culture System. Janie M. Strand** and John M. Quarles, Department of Medical Microbiology & Immunology, College of Medicine, Texas A & M University, College Station, Texas.
- 3:30 Mechanism of Action of Potentiation of Antiviral Effect by Combined Immune and Fibroblast Interferons. L.A. Schwarz** and W.R. Fleischmann, Jr. Department of Microbiology, University of Texas Medical Branch, Galveston, Texas.

**Student Presentation

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FRIDAY AFTERNOON

October 2, 1981

4:30 p.m.

River Room

Introduction of the American Society
for Microbiology Foundation Lecturer

Johnny W. Peterson
President, Texas Branch, ASM

Foundation for Microbiology Lecture

BIOCHEMICAL ASPECTS OF GONOCOCCAL VIRULENCE

Stephen A. Morse
Department of Microbiology
and Immunology
University of Oregon Health Science Center
Portland, Oregon

6:00 p.m.

Mixer - Light Refreshments - Poolside Area

SATURDAY MORNING

October 3, 1981

South American Room

MEDICAL MICROBIOLOGY SESSION 4

Convener: Shelly Payne, Department of Microbiology, University of Texas at Austin.

- 8:30 Protective Effect of Mouse Serum on Killing of Neisseria gonorrhoeae by Human Serum. Ming-Jer Ding**, Philip Wyde and Robert P. Williams, Baylor College of Medicine.
- 8:45 Human Antibody Response Against Outer Membrane Proteins of Haemophilus influenzae Type b. P.A. Gulig**, G.H. McCracken, Jr., K.H. Johnston, and E.J. Hansen, The University of Texas Health Science Center at Dallas.
- 9:00 Detection of Mycoplasma pneumoniae Proteins Which Selectively Bind to Host Cells. Duncan C. Krause** and Joel B. Baseman, Department of Microbiology, University of Texas Health Science Center at San Antonio.
- 9:15 Mannose-Resistant Agglutination of Rat Erythrocytes, Spleen Cells, and Bladder Epithelial Cells by an E. coli 06 Urinary Pathogen. Rita M. Gander** and Virginia L. Thomas, University of Texas Health Science Center at San Antonio.

9:30 - 10:00 COFFEE BREAK

North American Room - Visit the Exhibits

MEDICAL MICROBIOLOGY SESSION 4 - Continued

- 10:00 Studies on the Permeability Factor of Pseudomonas aeruginosa. E.N. Ahanotu** and K.R. Johansson. Department of Biological Sciences, North Texas State University, Denton, Texas.
- 10:15 Experimental Sporotrichosis in Congenitally Athymic Mice. Cathy L. Dickerson**, Robert L. Taylor, and David J. Drutz, Department of Microbiology, The University of Texas Health Science Center at San Antonio, Texas.
- 10:30 Discrimination of the Humoral Immune Response During Acute and Convalescent Stages of Mycoplasma pneumoniae Infection. Debra K. Leith* and Joel B. Baseman, Department of Microbiology, University of Texas Health Science Center at San Antonio.
- 10:45 Klebsiella pneumoniae-Induced Pyelonephritis: The Effect of Piliation on Infectivity. Robert C. Fader* and C.P. Davis, Department of Microbiology, University of Texas Medical Branch at Galveston.
- 11:00 Phenotypic Changes in Colonial Opacity of Neisseria gonorrhoeae. Pinina Norrod*, Baylor College of Medicine.

**Student Presentation

*Staff or Faculty Presentation

SATURDAY MORNING

October 3, 1981

Lanai Room

MEDICAL MICROBIOLOGY SESSION 5

Convener: Gary Klimpel, Department of Microbiology
The University of Texas Medical Branch.

- 8:30 Cell-Mediated Immunity and Acquired Microbial Resistance in Zinc-Deficient Rats. Mirta A. Carlomagno*, Lezlee H. Graham and David N. McMurray, College of Medicine, Texas A & M University, College Station, Texas and Conicet, Argentina.
- 8:45 Generation of Cytotoxic Effector T Cells and the Production of Interferon by Alloantigen Stimulated Murine Bone Marrow Cells. Gary R. Klimpel*, Department of Microbiology, The University of Texas Medical Branch, Galveston, Texas.
- 9:00 Immunogenicity of Mycobacterial Lipid Antigens Complexed to Methylated Bovine Serum Albumin. William W. Barrow^{1*} and Patrick J. Brennan², Department of Microbiology and Immunology, Texas College of Osteopathic Medicine, Ft. Worth, Texas¹, National Jewish Hospital and Research Center, Denver, Colorado².
- 9:15 Effect of Protein-Calorie Malnutrition on Responses to BCG Vaccine. D.N. McMurray* and E.A. Yetley, Department of Medical Microbiology & Immunology, College of Medicine, Texas A & M University, College Station, Texas.

9:30 - 10:00 COFFEE BREAK

North American Room - Visit the Exhibits

MEDICAL MICROBIOLOGY SESSION 5 - Continued

- 10:00 The Effect of Sera from Syphilis Patients on Normal Human Lymphocytes Stimulated with Phytohemagglutinin or Pokeweed Mitogen. J. Measel and F. Lavender*, Department of Microbiology and Immunology, Texas College of Osteopathic Medicine, Fort Worth, Texas.
- 10:15 The Effect of Gold Sodium Thiomalate on Murine Bone Marrow Cells Treated with B and T Cell Mitogens. J. Measel* and F. Lavender, Department of Microbiology and Immunology, Texas College of Osteopathic Medicine, Fort Worth, Texas.
- 10:30 Guinea Pig Peritoneal Macrophages and Kupffer Cells Activated by Liposome-Delivered Muramyl Dipeptide. Janice M. Plummer*, Daniel E. Thor, Helen Cronenberger and Wayne Magee, Department of Microbiology, University of Texas Health Science Center at San Antonio.
- 10:45 Isolation of An Anti-Complement Factor from the Venom of a Mojave Rattlesnake. Eppie D. Rael* and Larry P. Jones, Department of Biol. Sciences, University of Texas at El Paso.
- 11:00 Absorbic Acid Deficiency, Phagocytosis and Killing of Actinomyces Viscosus. W.J. Masin**, M.C. Goldschmidt and L.R. Brown, University of Texas Health Science Center at Houston, Dental Branch: Dental Science Institute, and Department of Periodontology, Lackland AFB, San Antonio, Texas.
- 11:15 Phagocytic Human Colostral Cells and IgA Release. E.A. Weaver**, A.S. Goldman, R.M. Goldblum and C.P. Davis, University of Texas Medical Branch, The Departments of Microbiology and Pediatrics, Galveston, Texas.
- 11:30 Specificity of Xenoantiserum Which Inhibits Natural Killer Cells and Alloimmune Cytotoxic T Lymphocytes in In Vitro Assays. David A. Lawlor**¹ and Paula H. Saunders^{1,2}, Departments of Microbiology¹ and Surgery/Urology Division², University of Texas Health Science Center at San Antonio.

**Student Presentation

*Staff or Faculty Presentation

SATURDAY MORNING

October 3, 1981

River Room

CLINICAL MICROBIOLOGY SYMPOSIUM*

TRENDS IN CLINICAL MICROBIOLOGY
FOR THE EARLY 1980's

8:30 Introduction and Overview

James H. Jorgensen, Ph.D.
Director of the Symposium
Departments of Pathology and Microbiology
University of Texas Health Science Center
at San Antonio

8:40 Methods for Isolation and Identification
of the Legionella Group

James Johnson, Ph.D.
Microbiology Laboratory, Audie Murphy
VA Hospital,
and University of Texas Health Science
Center at San Antonio

9:05 Laboratory Methods for Newly Recognized
Enteric Pathogens

Rodolfo Pruneda, Dr., P.H.
Chief of Microbiology
San Antonio, Texas

CLINICAL MICROBIOLOGY SYMPOSIUM - Continued

- 9:30 The Emerging Role of Antifungal Chemotherapy
Philip Craven, M.D. Division of Infectious Diseases,
Audie Murphy VA Hospital and University of
Texas Health Science Center at San Antonio

9:55 - COFFEE BREAK

North American Room - Visit the Exhibits

- 10:25 Impact of the Introduction of New Generation
Beta-Lactam Antibiotics Upon Susceptibility Testing

Patrick Murray, Ph.D. Co-Director, Clinical Micro-
biology Laboratory Barnes Hospital and Washington
University School of Medicine St. Louis, Missouri

- 10:50 A Direct Comparison of the Autobac MTS, Abbott
MS 2, and Vitek AMS Instruments

Michael Kelly, M.D. Chief of Clinical Microbiology
University of Texas Medical Branch Galveston,
Texas

- 11:15 New Ways of Performing Familiar but Unpopular
Antimicrobial Tests

Paul Southern, M.D. Parkland Hospital and
University of Texas Health Science Center at
Dallas

*Partial sponsorship for this symposium has been kindly
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SATURDAY MORNING

October 3, 1981

Fiesta Room

12:00

EXECUTIVE BUSINESS SESSION

FIRST TEXAS FUNGAL RESEARCH CONFERENCE

2:00 p.m. October 3rd
(Continued October 4th if needed)

Site of Conference to be announced
at this Fall Meeting

For additional information, contact
one of the following Directors:

Gary Cole, Ph.D.
Department of Botany
University of Texas at Austin
Austin, Texas 78712

Rebecca Cox, Ph.D.
Director, Research Immunology
State Chest Hospital
P. O. Box 23340
Highland Hills Station
San Antonio, Texas 78223

Milton Huppert, Ph.D.
Mycology Research Lab.
V.A. Hospital
San Antonio, Texas 78284

Charles J. Gauntt
Department of Microbiology
The University of Texas Health
Science Center at San Antonio
7703 Floyd Curl Drive
San Antonio, Texas 78284

Texas Branch, ASM
Fall Meeting
El Tropicano Hotel
110 Lexington Avenue
San Antonio, Texas

Registration:
October 1, 3:00-7:00 p.m.
October 2, 8:00-4:00 p.m.
October 3, 8:00-9:00 a.m.
