

FALL MEETING

TEXAS BRANCH

AMERICAN SOCIETY FOR MICROBIOLOGY

OCTOBER 3 - 5, 1985

EL TROPICANO HOTEL

110 LEXINGTON

(512) 223-9461

TEXAS BRANCH OF THE AMERICAN SOCIETY FOR MICROBIOLOGY

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THURSDAY EVENING    October 3, 1985

7:30 9:30 p.m.    "PRACTICAL APPLICATIONS OF IDIOTYPES"

River Room

Speaker:    Ronald Kennedy, Ph.D.  
             Department of Microbiology and Immunology  
             Southwest Foundation for Biomedical Research  
             "Anti-idiotypic antibodies as an experimental  
vaccine for type B viral hepatitis"

Discussant:    Keith Krollick, Ph.D.  
                 Department of Microbiology  
                 The University of Texas Health Science Center  
at San Antonio  
                 "Alternative Approaches for the Use of  
Idiotypes"

Designations are as follows throughout the program:

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\* Presenter

\*\* Student presenter

FRIDAY MORNING

October 4, 1985

MEDICAL SESSION I: 8:30 - 11:30 AM River Room

CONVENOR: Henry R. Bose, Jr.  
Department of Microbiology  
The University of Texas at Austin

8:30 Polypeptide conservation among human and simian herpesviruses. Julia Hilliard\* and David Katz. Southwest Foundation for Biomedical Research, San Antonio

8:45 Differentiation of human and simian herpes viral antibodies by a competition enzyme immunoassay using detergent solubilized antigen. David Katz\* and Julia Hilliard. Southwest Foundation for Biomedical Research, San Antonio

9:00 Comparison of anti-idiotypic reagents which recognize a monoclonal antibody to hepatitis B surface antigen. Michael R. Schick\* and Ronald C. Kennedy. The University of Texas Health Science Center at San Antonio and Southwest Foundation for Biomedical Research, San Antonio

9:15 HTLV-III env gene product synthetic peptides. Gordon R. Dreesman\*, Richard D. Henkel, Patrick Kanda, Daniel Pauletti and Ronald C. Kennedy. Southwest Foundation for Biomedical Research, San Antonio

9:30 - 10:00 COFFEE BREAK Hemisfair Room  
VISIT THE EXHIBITS!!

10:00 Virulence determinants in the coxsackievirus B3 genome. C. Gauntt\* and S. Tracy. The University of Texas Health Science Center at San Antonio and German Primate Center Goettingen FRG

10:15 Alterations in severity of coxsackievirus B3 - induced murine myocarditis by natural killer cells. Elmer K. Godeny\*\* and Charles J. Gauntt. The University of Texas Health Science Center at San Antonio

10:30 Identification and characterization of the proteins encoded by the oncogene of avian reticuloendotheliosis virus and its cellular homolog. Norbert K. Herzog\*\* and Henry R. Bose, Jr. Department of Microbiology, The University of Texas at Austin

10:45 Induction of IFN mRNA in NAMALVA, lymphoblastoid cells. M. Mahmoudi\*\*, G. R. Vela, A.P. Bollon, and K. Oster. Department of Biological Sciences, North Texas State University, Denton

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LUNCH.....VISIT THE EXHIBITS!!

FRIDAY MORNING      October 4, 1985

MEDICAL SESSION II: 8:30 AM Lanai Room

Convenors: Wendell Winters  
Department of Microbiology  
The University of Texas Health Science Center at  
San Antonio

8:30 Isolation of DNA and translation of messenger RNA from the hemoprotozoan parasite Babesia microti. Christine L. Tetziassae, David N. McMurray, Allison R. Ficht, and Scott W. Bearden. Departments of Medical Microbiology and Biochemistry, Texas A & M University College of Medicine, College Station

8:45 Wasting marmoset syndrome: epidemiological, immunological and microbiological characteristics. Sharon A. Edlund[1], Frank J. Stein[2], and David N. McMurray[1]. Departments of Medical Microbiology and Immunology[1] and Veterinary Anatomy[2], Texas A & M University, College Station

9:00 Comparative virulence of human isolates of Campylobacter jejuni and C. coli in chicken embryos. Leanne H. Field, Virginia L. Headley\*, Shelley M. Payne, and L. Joe Berry. Department of Microbiology, The University of Texas at Austin

9:15 Characterization of a cytolytic factor produced by Aeromonas hydrophila. Joanne Rose\*, Clifford Houston, J.D. Dixon, and Alexander Kurosky. Departments of Microbiology and Human Biological Chemistry and Genetics, University of Texas Medical Branch, Galveston

9:30 Modes of action of the antibiotics rifampicin and tetracycline on Bacterioides fragilis. Ali O. Azghanie\* and Robert Fuerst. Microbiology Research Laboratory, Department of Biology, Texas Women's University, Denton

9:45 - 10:15 COFFEE BREAK      Hemisfair Room  
VISIT THE EXHIBITS!!

10:15 Utilization of anion exchange chromatography and monoclonal antibodies to characterize multiple pili types of an O6 uropathogenic Escherichia coli isolate. Rita M. Gander\* and Virginia L. Thomas. Department of Microbiology The University of Texas Health Science Center at San Antonio

10:30 Effect of oxygen on the viability of a mucoid Pseudomonas aeruginosa and its non-mucoid revertant grown under batch and continuous culture conditions. Debra P. Kreige\*, Joseph A. Bass, and Stephen J. Mattingly. Department

of Microbiology, The University of Texas Health Science Center at San Antonio

10:45 Studies on the enterotoxin of Aeromonas hydrophila. Ashok K. Chopra\* and Clifford W. Houston. Department of Microbiology, The University of Texas Medical Branch at Galveston

11:00 Cloning and characterization of a gene encoding a trans-activator factor involved in phase variation of type 1 fimbriae expression in Escherichia coli. Cynthia S. Freitag[1], John M. Abraham[1], and Barry I. Eisenstein [1,2]. Departments of Microbiology[1] and Medicine[2], The University of Texas Health Science Center at San Antonio

11:15 Western blot analysis of secretory IgA response to Campylobacter antigens in patients with naturally occurring Campylobacter enteritis. D.K. Winsor, Jr.\*, J.J. Mathewson, and H.L. DuPont. The University of Texas Health Science Center at Houston

LUNCH.....VISIT THE EXHIBITS!!

FRIDAY MORNING    October 4, 1985

GENERAL SESSION: 8:30 AM Chula Vista Room

Convenor: Gerard O'Donovan  
Chairman, Biological Sciences  
North Texas State University, Denton

8:30    Activation properties of endospores and thermophilic bacteria. Harold F. Foerster\*. Life Science Program, Sam Houston State University, Huntsville

✓ 8:45    Impact of storms on heterotrophic activity of planktonic bacteria in a southwestern reservoir. James G. Hubbard\*\* and Thomas H. Chrzanowski. Department of Microbiology, The University of Texas at Arlington

✓ 9:00    Frequency of dividing cells as an indicator of growth rate in a Pseudomonas sp. Rhonda D. Crotty\*\* and T.H. Chrzanowski. Department of Biology, The University of Texas at Arlington

✓ 9:15    Effects of novobiocin on the biosynthesis of C45 and C50 carotenoids of Corynebacterium poinsettiae. Alan L. Campbell\*\* and A. Stephen Kester. Department of Biological Sciences, North Texas State University, Denton

9:30 - 10:00    COFFEE BREAK    Hemisfair Room  
VISIT THE EXHIBITS!!

10:00    Energy charge values of Azotobacter vinelandii: Myth and fact. David L.T. Smith\* and G. R. Vela. Department of Biological Sciences, North Texas State University, Denton

✓ 10:15    Visualization of soil azotobacter in situ by direct and indirect immunofluorescence. Gogu S. Reddy\*\* and G.R. Vela. Department of Biological Sciences, North Texas State University, Denton

✓ 10:30    Plasmids of Azotobacter vinelandii. Mauricio S. Maia\*\* and G.R. Vela. Department of Biological Sciences, North Texas State University, Denton

10:45    Isolation of Bacillus subtilis mutants specifically altered in transcription by a minor form of RNA polymerase. Elizabeth A. Weaver\*, Christine L. Truitt and William G. Haldenwang. Department of Microbiology, The University of Texas Health Science Center at San Antonio

11:00    Rifampin resistant and carbenicillin resistant mutants of Peptostreptococcus anaerobius. Shellye Gathings\*\* and Robert Fuerst. Microbiology Research

Laboratory, Department of Biology, Texas Women's University, Denton

LUNCH.....VISIT THE EXHIBITS!!

FRIDAY AFTERNOON POSTER SESSION

1:00 - 2:00 Hemisfair Room

1. *Salmonella* cytotoxins: A component of the bacterial outer membrane J.C. Reitmeyer\*, J.W. Peterson, and K.J. Wilson. The University of Texas Medical Branch, Galveston
2. *Salmonella* cytotoxins: Purification and chemical characterization J.W. Peterson\* and F.C.W. Koo. The University of Texas Medical Branch, Galveston
3. *Salmonella* cytotoxins: Mechanism of action. K.J. Wilson\*\* and J.W. Peterson. The University of Texas Medical Branch, Galveston
4. *Pseudomonas aeruginosa* invasion of the scalded mouse. G.B. Stover\*, G.B. Hubbard, A.D. Mason, and A.T. McManus. U.S. Army Institute of Surgical Research, Ft. Sam Houston, San Antonio
- ✓ 5. Comparison of *Legionella* protein antigens. E Pearlman\*, N.C. Engleberg and B.I. Eisenstein. The University of Texas Health Science Center at San Antonio
6. Bacterial induction of urothelial hyperlasia and neoplasia C.D. Davis, M.S. Cohen, M.D. Anderson, M. Graber, and M.M. Warren. The University of Texas Medical Branch, Galveston
7. Influence of medium glucose concentration on sporulation of *Bacillus thuringiensis* var. kurstaki HD-1. G.R. Wilson\*[1] and C.L. Baugh[2] Department of Biology Texas A & M University, College Station[1] and Department of Biological Sciences, Texas Tech University, Lubbock[2]
8. Detection of human antibody to HTLV-III envelope glycoproteins by ELISA, Western transfer and a synthetic peptide ELISA. Richard D. Henkel\*, Ronald C. Kennedy and Gordon R. Dreesman. Southwest Foundation for Biomedical Research, San Antonio
9. Increase in the percentage of Lyt-1 helper T-lymphocytes in mesenteric lymph nodes of Balb-c mice infected with a vaccine strain of *Salmonella typhimurium*. Karin C. Loftin\*, Nilesh Ketecha and Herbert L. Dupont. Program in infectious diseases and clinical microbiology The University of Texas Health Science Center-Houston



I.M. LEWIS LECTURE AND PRESENTATION OF STUDENT AWARDS

2:10 - 3:30 FRIDAY AFTERNOON

River Room

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

2:10 - 2:30 Presentation of O.B. Williams and S.E. Sulkin  
Awards to Outstanding Student Papers

2:30 - 3:30 I.M. Lewis Lecture

Dr. Janet Butel, Dept. of Virology  
Baylor College of Medicine, Houston

"SV40: CHARTING THE PATH OF VIRAL TRANSFORMATION"

3:30 - 4:00 Pre Happy Hour on El Tropicano Patio

4:00 - 6:00 RIVERBOAT RIDE HAPPY HOURS

SATURDAY MORNING    October 5, 1985

SPECIAL SESSION:    8:30 - 9:30 AM

River Room

**CYSTIC FIBROSIS:  
CURRENT MICROBIOLOGICAL AND CLINICAL ASPECTS**

Speaker:    John A. Mangos  
             Professor and Chairman Department of Pediatrics  
             The University of Texas Health Science Center at  
             San Antonio and Chairman, Medical Addressory  
             Council, International Cystic Fibrosis Assoc'n

SATURDAY MORNING October 5, 1985

CLINICAL SESSION: River Room 9:30 AM

Convenor: Tim Neelon  
Department of Research Immunology  
San Antonio State Chest Hospital

9:30 Quantitative burn wound biopsy: A comparison of hand grinding and the Colworth Stomacher 80. A.T. McManus, C.H. Guymon\*, J.R. Henderson, and A.D. Mason, Jr., U.S. Army Institute of Surgical Research, Ft. Sam Houston, San Antonio

9:45 Systemic candidiasis after thermal injury. Robert C. Fader\*, Julie L. Cotter, Jane Unbehagen, and Hugo A. Linares. Divisions of Microbiology and Pathology, Shriners Burns Institute, Galveston

10:00 Effectiveness of silver-kaolin topical therapy in burns. Robert C. Fader\* and Hugo A. Linares. Divisions of Microbiology and Pathology, Shriners Burns Institute, Galveston

10:15 - 10:30 COFFEE BREAK

10:30 Zygomycosis due to Mucor circinelloides, a new agent of human fungal disease: clinical and mycological aspects. M.G. Rinaldi\*[1], R.J. Fetchick[2], S.H. Sun[3], and J.L. Harrison[3]. Department of Pathology, The University of Texas Health Science Center at San Antonio, and Clinical Microbiology Labs, Audie L. Murphy Memorial V.A. Hospital, San Antonio[1], Department of Medicine, Division of Infections Disease, The University of Texas Health Science Center at San Antonio ALMVAH[2] and Research Service ALMVAH[3]

10:45 Serotyping of isolates of Cryptococcus neoformans from AIDS patients. Anne W. Howell\* and Michael G. Rinaldi. Department of Pathology, The University of Texas Health Science Center at San Antonio

11:00 Neisseria cinerea: Is it being misidentified as Neisseria gonorrhoeae? Suzanne Sigel Barth\* Paula C. Tatsch, and Susan J. Gibson. Texas Department of Health Bureau of Laboratories, Austin

11:15 Efficacy of potato flake agar in the clinical isolation and identification of fungi. Teresa C. Hayes, Teresa Widish, and Michael G. Rinaldi. Department of Pathology, The University of Texas Health Science Center at San Antonio

11:30 Mycoses due to Candida lusitanae: a case report and review. Ted Hadfield, Michael Smith, Richard Winn and Michael Rinaldi. Wilford Hall USAF Medical Center and Audie L. Murphy V.A. Hospital, San Antonio

12:00 NOON BUSINESS MEETING: RIVER ROOM  
EVERYONE IS URGED TO ATTEND !!!

SATURDAY MORNING      October 5, 1985

MEDICAL SESSION III: Lanai Room    9:45 AM

Convenor: Julia Hilliard  
Southwest Foundation for Biomedical Research  
San Antonio

9:45      Novel properties of a murine alveolar macrophage cell line. Ronald J. Helmke, R. Lee Boyd, John A. Mangos. Department of Pediatrics, The University of Texas Health Science Center at San Antonio

10:00      Macrophage uptake and handling of radiolabeled glycopeptidolipid antigens associated with mycobacterium avium-intracellulare (MAI) complex. V.R. Khera\* and W.W. Barrow. Texas College of Osteopathic Medicine, Camp Bowie at Montgomery

10:15      Sensitivity of S. mutans to oral hygiene products: Diffusion studies. Wendell Winters\*, Saul Sepulveda, Grace Ramirez and Jill Brune. Department of Microbiology, The University of Texas Health Science Center at San Antonio

10:30 - 10:45    COFFEE BREAK

10:45      The specific uptake of human lactoferrin by Mycoplasma pneumoniae M-129. V.V. Tryon\* and J.B. Baseman. Department of Microbiology, The University of Texas Health Science Center at San Antonio

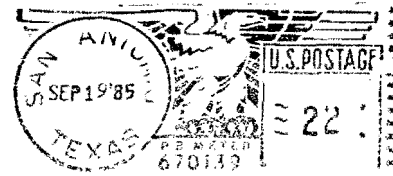
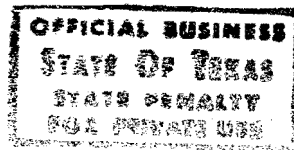
11:00      Fibronectin tetrapeptide is the target for syphilis spirochete cytoadherence. Denee Thomas\*, Joel Baseman, and John Alderete. Department of Microbiology, The University of Texas Health Science Center at San Antonio

11:15      Conidial wall-derived antigens of Coccidioides immitis. G.T. Cole\*[1], S.H. Sun[2], T.N. Kirkland[3], M. Starr[2], and L.M. Pope[1]. Department of Microbiology, The University of Texas at Austin[1], Audie L. Murphy V.A. Hospital San Antonio[2], and V.A. Hospital at San Diego[3]

11:30      Differentiation of virulent and asymptomatic strain of group B streptococci by growth in medium containing elevated levels of phosphate. John Maurer\* and Stephen J. Mattingly. Department of Microbiology, The University of Texas Health Science Center at San Antonio

12:00 NOON: BUSINESS MEETING in the RIVER ROOM  
EVERYONE IS URGED TO ATTEND!!!

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