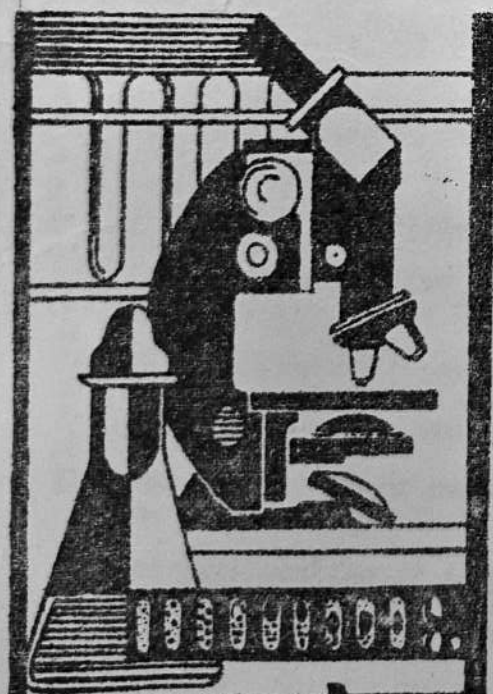


PROGRAM

TEXAS BRANCH

OF

THE AMERICAN SOCIETY FOR MICROBIOLOGY



I. M. LEWIS
FOUNDER

FALL MEETING

November 10-11, 1967

The Galvez Hotel

Galveston, Texas

FRIDAY AFTERNOON
GENERAL MICROBIOLOGY SESSION

Student Presentation

1:00 p.m.

Grecian Room

Presiding: Robert C. Wood

1. Effects of selected phytohormones on the growth of Escherichia coli. Lynn M. Little** and B. Dwain Vance, North Texas State University, Denton.
2. Isolation of a trehalase from Streptomyces hygroscopicus. Ann E. Hey** and A. D. Elbein, Rice University, Houston.
3. Regulation of glucose metabolism in Aspergillus niger by fatty acids. Robert T. Ehrlich** and Harold L. Lewis, Texas Technological College, Lubbock.
4. Reversal of inhibition of endogenous respiration of Cunninghamella echinulata by lauric acid. James C. Ramsey** and Harold L. Lewis, Texas Technological College, Lubbock.
5. Phospholipid composition of the electron transport fraction of Azotobacter vinelandii. B. A. Schlech** and Peter Jurtshuk, The University of Texas, Austin.
6. Effect of P A D and metal on the particulate L-malate flavoprotein dehydrogenase of Azotobacter vinelandii. A. J. Bednarz** and Peter Jurtshuk, The University of Texas, Austin.
7. Cell free studies of ergot alkaloid biosynthesis. J. A. Anderson and F. L. Cavender**, Texas Technological College, Lubbock.

COFFEE BREAK

Refreshment courtesy of W. H. Custin & Co.

8. Suppression of clavine alkaloid synthesis by INH. John A. Anderson and Joan Chen**, Texas Technological College, Lubbock.
9. The effects of temperature and anaerobic cultivation on the aliphatic hydrocarbon content of Vibrio marinus. Howard J. Schneider**, E. O. Bennett and John Oro, The University of Houston, Houston.
10. The production of nutritious protein from a petroleum sulfonate. Harold K. Speidel** and E. O. Bennett, The University of Houston, Houston.
11. Differentiation of Aerobacter-Klebsiella isolated from sugarcane. W. J. Nunez** and A. R. Colmer, North Texas State University, Denton, and Louisiana State University, Baton Rouge, Louisiana.

*Denotes person presenting paper.

**Person presenting paper is a student.

FRIDAY AFTERNOON

MEDICAL SESSION

1:00 P.M.

Terrace Room

Presiding: William J. Mandy

1. A statistical analysis of microbial contamination in clean rooms utilized by lunar spacecraft. Gerald J. Tritz*, U.S. Public Health Service, CDC, Cape Kennedy, Florida.
2. Use of a nitrogen deficient medium for the differential isolation of Klebsiella and Enterobacter from feces. Charles Eller and Fitzroy P. Edwards*, USAF School of Aerospace Medicine, Brooks AFB.
3. Two hour antibiotic sensitivity test. Walter Sellers*, Jerome P. Schmidt and Robert J. Ball, USAF School of Aerospace Medicine, Brooks AFB.
4. Observations on keratinolytic activity of species of Corynebacterium. M.E. McBride*, R.G. Freeman and C. Wand, Baylor University College of Medicine, Houston.
5. Effect of serum lipoproteins from infected chick embryos on oxygen uptake of brain tissue. Marjorie S. Sharp* and Sanders T. Lyles, Texas Christian University, Fort Worth.
6. Influence of antibacterial drugs on the mouse cecum. D.C. Savage*, The University of Texas, Austin.
7. Vibrio cholerae bacteriocins. T.O. McDonald* and E.W. Gardner, Jr., Texas Christian University, Fort Worth.

COFFEE BREAK

Refreshments courtesy of W. H. Curtin & Co.

8. The effects of pre-existing cholera antibody upon the serological response of cholera vaccination. W.F. Verwey*, Y. Watanabe, J.C. Guckian, E.K. Byerly, P. Phillips, S. Rocha and E. Bridgeforth, The University of Texas Medical Branch, Galveston.
9. Antibody response in bats to bacteriophage ØX 174. Betty A. Hatten*, Rae Allen and S. Edward Sulkin, The University of Texas Southwestern Medical School, Dallas.
10. Duration of prophylactic effect of statolon against mengovirus in mice. Jerome P. Schmidt* and Frank F. Pindak, USAF School of Aerospace Medicine, Brooks AFB.
11. Effect of statolon treatment on survival time of mice infected with mengovirus. Frank F. Pindak* and Jerome P. Schmidt, USAF School of Aerospace Medicine, Brooks AFB.
12. Newcastle disease virus characterization following selected adsorption procedures. G.E. Welch*, C.F. Hall and L.C. Grumbles, Texas A & M University, College Station.
13. The relationship of RE-virus to the avian tumor group. Henry Bose*, The University of Texas, Austin.
14. Observation on a parasitic nematode inhabiting the subcutaneous tissues of laboratory mice. Adam Ewert*, The University of Texas Medical Branch, Galveston.

FRIDAY AFTERNOON

I. M. LEWIS LECTURE

"THE ONTOGENY OF THE IMMUNE RESPONSE"

Dr. Dennis W. Watson

Professor and Head
Department of Microbiology
The University of Minnesota Medical School
Minneapolis, Minnesota

A native of Canada, Dr. Dennis Watson received his early university training at the University of Toronto, but subsequently migrated to the University of Wisconsin to obtain his doctoral degree. In addition to teaching and research positions with the University of Wisconsin and The Rockefeller Institute, Dr. Watson was for a time associated with Connaught Laboratories in Toronto. Unfortunately for Canada, however, he eventually settled at the University of Minnesota Medical School, where for many years he has held an appointment as Professor of Microbiology. He is currently head of the department there.

Dr. Watson is a notable example of the "brain drain" from our friendly neighbors. His contributions to the understanding of infection and resistance are multiple and of fundamental significance. The honors and awards bestowed on him have been numerous, not the least of which is the fact that he is currently the elected Vice-President of the ASM, and thus, as custom has it, will be our next President.

FRIDAY EVENING

COCKTAIL HOUR

The Galvez Club

6:30 p.m.

Courtesy of Scientific Products Co.

BUFFET DINNER

7:30 p.m.

The Terrace Room

Following the dinner, Branch members are welcome to continue their social activities in THE GALVEZ CLUB, at their own risk and expense. Entertainment and music will be provided by JOHNNY GARCIA AND HIS TRIO.

SATURDAY MORNING

MEDICAL SESSION

Student Presentation

8:30 a.m.

Grecian Room

Presiding: John E. Evans

1. Bacteriological problems associated with inhalation therapy. Benita Mays**, Jay P. Sanford, A.D. Pierce and S. Edward Sulkin, The University of Texas Southwestern Medical School Dallas.
2. The effect of a new solidifying agent for bacteriological medium on the inhibitory activity of antibiotics. S.E. Logan**, H.D. Speidel and E.O. Bennett, The University of Houston, Houston.
3. Cysticercus-induced rat sarcomas: Transplantability of *in vitro* cultured tumor cells. Lawrence A. Falk, Jr.***, Paul N. Morgan and Carl E. Duff, The University of Arkansas Medical Center, Little Rock, Arkansas.
4. Alteration of lipid components of *Staphylococcus aureus*-infected chick embryos. R.I. Walker**, M.S. Sharp, S.P. Larsen and S.T. Lyles, Texas Christian University, Fort Worth.
5. Studies on a membrane antigen of a staphylococcal L-form. Dorothy C. Dannis** and Judith H. Marston, Baylor University College of Medicine, Houston.
6. Induction of an anti-globulin factor in young rabbits. M.E. Woolsey** and W.J. Mandy, The University of Texas, Austin.
7. Radiochemical assay for the effect of interferon on rabiesvirus-directed RNA synthesis in normal and actinomycin-treated BHK21 cells. William E. Stewart II** and S. Edward Sulkin, The University of Texas Southwestern Medical School, Dallas.

COFFEE BREAK

8. Simultaneous infections with two Sindbis virus mutants. M.G. Broome** and B.P. Sagik, The University of Texas, Austin.
9. Mathematical analysis of concomitant virus replication and heat inactivation. D.J.M. Purifoy**, J.A. Purifoy and B.P. Sagik, the University of Texas, Austin.
10. Transfection on Lysostaphin-treated *Staphylococcus aureus*. H.G. Riggs, Jr.** and E.D. Rosenblum, The University of Texas Southwestern Medical School, Dallas.
11. Some effects of lysogeny on *Mycobacterium smegmatis*. Anderson J. Ward**, Joseph H. Bates and Edwin A. Brosbe, The University of Arkansas School of Medicine and The Little Rock Veterans Administration Hospital, Little Rock, Arkansas.
12. A bacteriophage isolated by 4-nitroquinoline (N) oxide treatment of *E. subtilis* 168M. F. Kadlubar**, H. Hirokawa and I.C. Felkner, Southwestern Center for Advanced Studies, Dallas.
13. The effect of p-Fluorophenylalanine on MS-2. Wayne Wray** and Franklin R. Leach, The University of Texas M.D. Anderson Hospital and Tumor Institute, Houston.

SATURDAY MORNING

GENERAL MICROBIOLOGY SESSION

8:20 a.m.

Terrace Room

Presiding: Harold L. Lewis

1. Microbial oxidation of hydrocarbons using the Clark oxygen electrode. J.A. Buswell* and Peter Jurtshuk, The University of Texas, Austin.
2. Microbial degradation of aromatic hydrocarbons. David T. Gibson*, The University of Texas, Austin.
3. A new repressor mutant in the lactose control system of *E. coli*. Gary C. Chamness* and Clyde D. Willson, USAF School of Aerospace Medicine, Brooks AFB.
4. Mutations leading to initiation of gene activity in the tryptophan operon of *Salmonella*. G. Wuesthoff and R. Bauerle*, Southwest Center for Advanced Studies, Dallas.
5. The anthranilate synthetase-phosphoribosyl transferase complex in the tryptophan biosynthetic pathway of *Salmonella Typhimurium*. Derald Smith* and Ronald Bauerle, Southwest Center for Advanced Studies, Dallas.
6. Spontaneous recombination in a partially diploid derivative of *Escherichia coli* K-12. Thomas S. Matney*, Mary Ann Butler and Anne Greene, The University of Texas M.D. Anderson Hospital and Tumor Institute, Houston.
7. DNA synthesis in a conjugating *E. coli* K-12 Hfr donor. Joan Suit*, T.S. Matney, Theresa Barbee, Sandra Jetton and Billie White, The University of Texas M.D. Anderson Hospital and Tumor Institute, Houston.

COFFEE BREAK

8. Molecular heterogeneity in *Bacillus stearothermophilus* phage TP-84 DNA. W.N. Reese*, G.F. Saunders, Jane E. Bergendahl and M. Mandel, The University of Texas M.D. Anderson Hospital and Tumor Institute, Houston.
9. 5-Fluorouracil resistance in uracil and thymine requiring strains of *Bacillus subtilis*. Priscilla P. Saunders*, Gloria A. Schultz, R.E. Bass and G.F. Saunders, The University of Texas M.D. Anderson Hospital and Tumor Institute, Houston.
10. Morphology and ultrastructure of *Clostridium bifermentans* spore appendages. Diane P. Yolton*, Leodocia Pope, M. Glenn Williams and L.J. Rode, The University of Texas, Austin.
11. Mechanism of lysis by phosphate of water-stable spheroplasts of *Streptococcus faecalis*. Robert C. Wood* and Anne L. Kopecky, The University of Texas Medical Branch, Galveston.
12. Heterotrophic activity and carbon changes in an aquatic microcosm. Robert W. Gorden*, Texas Technological College, Lubbock.
13. Relationship of intracellular pH to caproic acid toxicity for *Aspergillus niger*. Harold L. Lewis*, Texas Technological College, Lubbock.
14. Fractionation of indole compounds on Sephadex G-10. John A. Anderson*, Texas Technological College, Lubbock.

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