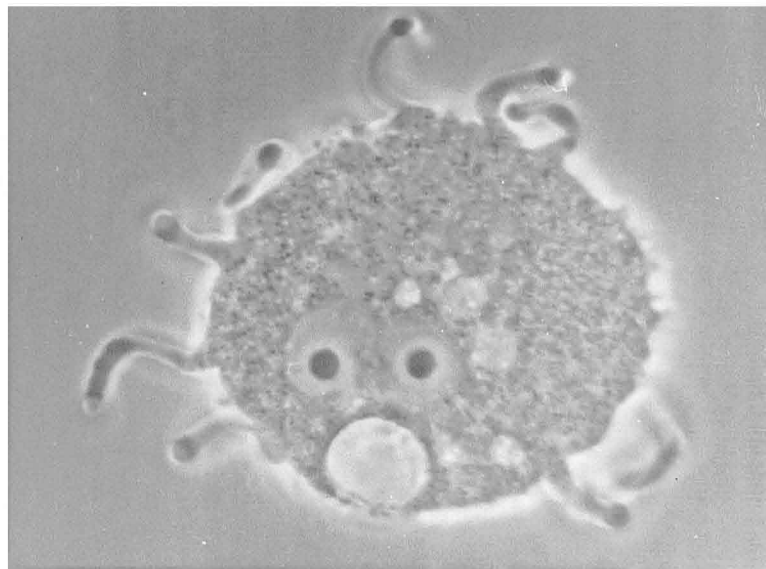


ACANTHAMOEBA CONFERENCE

Columbus, Ohio
June 14 - 16, 1978



Sponsors

THE OHIO STATE UNIVERSITY
Department of Microbiology
College of Biological Sciences
Graduate School

WRIGHT STATE UNIVERSITY
Department of Biological Chemistry
School of Medicine
College of Science & Engineering

CONFERENCE PROGRAM

Wednesday, June 14 (General Sherman Room)

- 1:00 - 8:00 p.m. Registration
 7:00 p.m. Welcome - Robert M. Pfister, Chairman, Department of Microbiology, The Ohio State University
 7:20 p.m. "The Biochemistry of motility in Acanthamoeba"
 EDWARD D. KORN, National Heart Institute
 Bethesda, Maryland
 8:30 p.m. Reception

Thursday, June 15 (General Sherman Room)

- 8:30 a.m. "Biochemical Studies of Acanthamoeba with Emphasis on the Cell Surface"
 ANN R. STEVENS, Veteran's Administration Hospital, Gainesville, Florida
 9:30 a.m. "Turnover and Phase Behavior of Membranes in Acanthamoeba"
 JOHN E. THOMPSON, University of Waterloo
 Waterloo, Ontario, Canada
 10:30 a.m. Coffee Break
 11:00 a.m. "Translational control of protein synthesis during development of Acanthamoeba castellanii"
 HELGA JANTZEN, Heidelberg University,
 Heidelberg, West Germany
 12:00 noon Lunch
 1:30 p.m. "An Appraisal of the Current Knowledge of Acanthamoebiasis"
 EDDY WILLAERT, Veteran's Administration Hospital, Gainesville, Florida; Prince Leopold Institute of Tropical Medicine, Antwerp, Belgium
 2:30 p.m. Coffee Break
 3:00 p.m. "Acanthamoebic Infections: Clinico-Neuropathological Features"
 A. JULIO MARTINEZ, University of Pittsburgh, Pittsburgh, Pennsylvania
 6:30 p.m. Banquet/Business Meeting ()

Friday, June 16

Contributed Papers

- 8:30 a.m. Session 1 "Differentiation" ()
Session 2 "Pathology" ()
 9:45 a.m. Coffee Break
 10:15 a.m. Contributed Papers (continued)
 12:00 noon Lunch
 1:45 p.m. Session 3 "General Biochemistry, Cell Biology and Genetics" ()

SESSION 1
"Differentiation"

Chairman: ROBERT J. NEFF, Department of Molecular Biology, Vanderbilt University,
Nashville, Tennessee

- 8:30 a.m. Effect of Altered Growth Conditions on Adenylate Cyclase Activity and Cyst Formation in Acanthamoeba castellanii.
S.B. ACHAR, and R.A. WEISHAN, Department of Biological Chemistry,
Wright State University, Dayton, Ohio
- 8:45 DNA-dependent RNA Polymerases from Encysting Acanthamoeba castellanii: Catalytic Properties and Subunit Structures.
H.R. PAULE, S. DETKE, J. D'ALESSIO, and S.R. SPINDLER,
Department of Biochemistry, Colorado State University,
Fort Collins
- 9:00 The Effect of Berenil (Ganaseg) on the Growth of Acanthamoeba castellanii and A. culbertsoni. W.D. O'DELL, and C.F. VERCIO,
Department of Biology, University of Nebraska at Omaha
- 9:15 Induction of Differentiation with Deoxyadenosine. R.J. NEFF,
Department of Molecular Biology, Vanderbilt University,
Nashville, Tennessee
- 9:30 Influx of Thallium and Rubidium Ions and Their Influence on Growth and Encystment of Acanthamoeba castellanii. A. SOBOTA, and V.V. GLAZUNOV, Necki Institute of Experimental Biology, Warsaw, Poland
- 9:45 COFFEE BREAK
- 10:15 Drug-induced Encystment in Acanthamoeba castellanii: Problems and Models. T.J. BYERS, L.E. KING, and R.A. AKINS, Department of Microbiology and Developmental Biology Program, The Ohio State University, Columbus, Ohio
- 10:30 Cyanide Resistance in the Soil Amoeba, Acanthamoeba castellanii. L. HRYNIEWIECKA and J. JENEK, Department of Biochemistry, Poznań University, Poznań, Poland
- 10:45 Bioenergetics and Adenine Nucleotide Transport in Mitochondria of Acanthamoeba castellanii (Neff). J.W. MICHEJDA and L. HRYNIEWIECKA, Department of Biochemistry, Poznań University, Poznań, Poland
- 11:00 DISCUSSION
- 12:00 LUNCH

SESSION 2
"Pathology"

Chairman: GOVINDA S. VISVESVARA, Center for Disease Control, Public Health Service, Atlanta, Georgia

- 8:30 a.m. Cytopathic Effect in Vero Cell Culture in Relation to Virulence in Mice Within the Genus Acanthamoeba. J.F. DE JONCKHEERE, Laboratorium voor Hygiene, Katholieke Universiteit Leuven, Belgium
- 8:45 Experimental Acanthamoeba Infections in Mice Pretreated with Methylprednisolone or Tetracycline. S.M. MARKOWITZ, T. SOBIESKI, A.J. MARTINEZ, and R.J. DUMA, Departments of Medicine and Pathology, Medical College of Virginia, Virginia Commonwealth University, Richmond
- 9:00 Meningoencephalitis and Brain Abscess Due to a Free-living Amoeba. R.A. DUMA, W.B. HELWIG, and A.J. MARTINEZ, Medical College of Virginia, Richmond, and Department of Pathology, Riverside Hospital, Newport News, Virginia
- 9:15 Acanthamoeba Isolated From Human Feces. B. MOLET, Institut de Parasitologie, Strasbourg, France
- 9:30 The Spectrum of Disease Caused by Acanthamoeba spp. and the Susceptibility of Certain Isolates to Chemotherapeutic Agents. G.S. VISVESVARA, D.B. JONES, and G.R. HEALY, Parasitology Division, Center for Disease Control, Public Health Service, Atlanta, Georgia
- 9:45 COFFEE BREAK
- 10:15 Acanthamoeba Vectors for Pathogenic Bacteria. J.B. JADIN, Institut de Medecine Tropicale Prince Leopold, Antwerpen, Belgium
- 10:30 Isolation, Culture, etc. of Naegleria and Acanthamoeba (Movie) E. WILLAERT, and J.B. JADIN, Veteran's Administration Hospital, Gainesville, Florida and Institut de Medecine Tropicale Prince Leopold, Antwerpen, Belgium
- 11:00 Isolation of Acanthamoeba from Cultured Mammalian Cells. R.L. TYNDALL, E. WILLAERT, and A.R. STEVENS, Zoology Department, University of Tennessee, Knoxville and VA Hospital, Gainesville, Florida
- 11:15 DISCUSSION
- 12:00 LUNCH

12:00

LUNCH

SESSION 3

"General Biochemistry, Cell Biology, and Genetics"

Chairman: R. NEAL BAND, Department of Zoology, Michigan State University, East Lansing, Michigan

- 1:45 p.m. Erythromycin-, Chloramphenicol-, and Oligomycin-resistant Mutants of Acanthamoeba castellanii. J.J. SEILHAMER and T.J. BYERS, Developmental Biology Program and Department of Microbiology, The Ohio State University, Columbus, Ohio
- 2:00 Mitosis of Acanthamoeba (Movie). B. MOLET, Institut de Parasitologie, Strasbourg, France
- 2:15 Stereological Measurements on Phagocytosing Acanthamoeba. B. BOWERS and T.E. OLSZEWSKI, Laboratory of Cell Biology, National Heart, Lung and Blood Institute, NIH, Bethesda, Maryland
- 2:30 Electron Spin Resonance Studies of Microsomal Membranes from Acanthamoeba castellanii. K.P. PAULS and J.E. THOMPSON, Department of Biology, University of Waterloo, Canada
- 2:45 COFFEE BREAK
- 3:15 Isolation and Characterization of the Phagosome Membranes of Acanthamoeba castellanii. A.H. CHAGLA and B. BOWERS, Laboratory of Cell Biology, National Heart, Lung, and Blood Institute, NIH, Bethesda, Maryland
- 3:30 Calcium Binding at Plasma Membrane of Acanthamoeba castellanii. A. PRZELECKA, A. SOBOTA, B. HREBENDA, and A. JANOSSY, Necki Institute of Experimental Biology, Warsaw, Poland
- 3:45 DISCUSSION
- 5:00 CONFERENCE ENDS