International Symposium: The Dynamics of Virus Infection

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International Symposium

THE DYNAMICS OF VIRUS INFECTION

October 21, 22, 23, 1953

The professional staff of The Henry Ford Hospital with the initial advice and support of The Board of Trustees and Dr. Robin C. Buerki, Executive Director, of the Henry Ford Hospital, is sponsoring an international symposium on the subject The Dynamics of Virus Infection. This symposium will be held at the Henry Ford Hospital, October 21, 22, and 23, 1953, in the new auditorium. The final program follows and has been prepared with the help of the advisory members, and looks to the future of virus disease.

Advisory Members:

Thomas Francis, Jr.  Professor of Epidemiology and Chairman Department of Public Health, University of Michigan

Joseph E. Smadel  Physician in Chief, Department of Virus and Rickettsial Diseases, Army Medical Service Graduate School, Washington, D. C.

John G. Kidd  Professor of Pathology, Cornell University, College of Medicine, New York

Frederick D. Stimpert  Director, Microbiological Research, Parke, Davis and Company, Detroit

Local Members:

Frank W. Hartman, Chairman

Gerald A. LoGripppo, Vice-Chairman

Philip J. Howard

D. Emerick Szilagyi

Edward L. Quinn, Secretary
Program

1st Morning Session

Moderator: THOMAS M. RIVERS,
The Hospital of the Rockefeller Institute for Medical Research,
New York, N. Y.

Mechanisms of Virus and Rickettsial Infections

Welcome

9:00 a.m. 1. The Initiation of Cellular Infection by Viruses

9:40 a.m. 2. Mechanisms of Penetration by Viruses

10:00 a.m. 3. Physical Factors in Virus Penetration

10:20 a.m. General Discussion

10:40-10:50 a.m.—Intermission

10:50 a.m. 4. The Development and Maturation of Viruses

11:20 a.m. 5. Incomplete Forms of Viruses

11:50 a.m. 6. Combination Forms of Virus Induced by Double Infection

12:20 p.m. General Discussion

12:40 p.m. Luncheon

Alfred Gottschalk,
The Walter and Eliza Hall Institute of Medical Research, Royal Melbourne Hospital, Melbourne, Australia

Alfred D. Hershey,
Carnegie Institution of Washington, Cold Spring Harbor, Long Island, N. Y.

Theodore T. Puck,
University of Colorado, Denver, Colorado

Salvador E. Luria,
University of Illinois, Urbana, Illinois

Preben von Magnus,
State Serum Institute, Copenhagen, Denmark

George K. Hirst,
The Public Health Research Institute of the City of New York, N. Y.
1st Afternoon Session

Moderator: John G. Kidd,
Cornell University Medical College, New York, N. Y.

Mechanisms of Virus and Rickettsial Infections

2:00 p.m. 1. Cellular Metabolism and Virus Growth
F. C. Bawden,
Rothamsted Experimental Station, Harpenden, Herts, England

2:30 p.m. 2. Plant Viruses and Proteins
Barry Commoner,
Washington University, St. Louis, Missouri

2:50 p.m. 3. Abortive Infection with Viruses
Mark H. Adams,
New York University College of Medicine, New York, N. Y.

3:10-3:20 p.m.—Intermission

3:20 p.m. 4. Metabolic Transformations in Virus Infected Cells
Seymour S. Cohen,
University of Pennsylvania, Philadelphia, Pennsylvania

3:45 p.m. 5. Intracellular Sites Important to the Development of Animal Viruses
W. Wilbur Ackerman,
University of Michigan School of Public Health, Ann Arbor, Michigan

4:10 p.m. 6. Enzymic Changes in Virus Synthesis
Earl A. Evans, Jr.,
The University of Chicago, Chicago, Illinois

4:40 p.m. General Discussion
2nd Morning Session

Moderator: ALBERT E. SABIN,
The Children's Hospital Research Foundation,
Department of Pediatrics, University of Cincinnati,
Cincinnati, Ohio

Ecology and Pathogenesis

9:00 a.m. 1. Ecology and Virus Reservoirs
Richard E. Shope,
The Rockefeller Institute
for Medical Research,
New York, N. Y.

9:40 a.m. 2. Ecologic Aspects of Transmission
and Pathogenesis with Special
Reference to Rickettsiae
J. Ralph Audy,
Scrub Typhus Research
Unit, Institute for Medi­
cal Research,
Kuala Lumpur, Malaya

10:10 a.m. 3. Maintenance of Yellows Type
Viruses in Plant and Insect
Reservoirs
Louis O. Kunkel,
The Rockefeller Institute
for Medical Research,
New York, N. Y.

10:40 a.m. 4. The Influence of Host and
Environment on Rickettsia
Winston H. Price,
The Johns Hopkins Uni­
versity School of Hygiene
and Public Health,
Baltimore, Maryland

11:10-11:20 a.m.—Intermission

11:20 a.m. 5. Pathogenic Mechanisms of
Virus Diseases
William McD. Hammon,
University of Pittsburgh
School of Public Health,
Pittsburgh, Pa.

11:50 a.m. 6. Pathogenesis of Variola
A. W. Downie,
University of Liverpool
School of Hygiene,
Liverpool, England

12:20 p.m. General Discussion

12:40 p.m. Luncheon
2nd Afternoon Session

Moderator: JOHN PAUL,
Yale University School of Medicine, New Haven,
Connecticut

Mechanisms of Immunity

2:00 p.m. 1. Mechanism of Convalescent Immunity and How it may be Simulated
Jonas E. Salk,
University of Pittsburgh,
School of Medicine,
Pittsburgh, Pennsylvania

2:40 p.m. 2. Sites of Immune Barriers in Poliomyelitis
David Bodian,
The Johns Hopkins University School of Hygiene and Public Health,
Baltimore, Maryland

3:10-3:20 p.m.—Intermission

3:20 p.m. 3. Mechanism of Active Induced Immunity with Attenuated Living Vaccines
Karl Habel,
National Microbiological Institute, National Institutes of Health,
Bethesda, Maryland

3:50 p.m. 4. Practical Application of Living Virus Vaccines
Hilary Koprowski,
Viral Research,
Lederle Laboratories,
New York, N. Y.

4:20 p.m. General Discussion

6:30 p.m. Dinner
3rd Morning Session

Moderator: A. J. Rhodes,
The Hospital for Sick Children
Toronto, Canada

Methods of Virus and Rickettsial Diagnosis

9:00 a.m. 1. Early Diagnosis of Psittacosis
           Lymphogranuloma Group
           Karl F. Meyer,
           George Williams Hooper
           Foundation, University
           of California Medical
           Center,
           San Francisco, California

9:40 a.m. 2. Early Diagnosis of Pox Disease
           F. O. MacCallum,
           Central Public Health
           Laboratory,
           London, England

10:10 a.m. 3. Early Diagnosis by Tissue Culture
             Thomas H. Weller,
             The Children's Medical
             Center,
             Boston, Massachusetts

10:40 a.m. 4. Summary of Evaluation of Virus
             and Rickettsial Diagnosis
             Edwin H. Lennette,
             Viral and Rickettsial Dis-
             ease Laboratory, State of
             California Department of
             Public Health,
             Berkeley, California

11:10 a.m.-11:20 a.m.—Intermission

11:20 a.m. 5. Early Detection of Antigen as a
             Diagnostic Method
             John C. Snyder,
             Harvard University
             School of Public Health,
             Boston, Massachusetts

12:10 p.m. General Discussion

12:30 p.m. Luncheon
3rd Afternoon Session

Moderator: Gilbert Dalldorf,
Division of Laboratories and Research,
New York State Department of Health, Albany, N. Y.

Chemical Approaches to Prophylaxis and Therapy of Virus and Rickettsial Diseases

2:00 p.m. 1. Interference and Physical-Chemical Blockade
Frank L. Horsfall,
The Hospital of the Rockefeller Institute for Medical Research,
New York, N. Y.

2:30 p.m. 2. Nucleoprotein and Transforming Substances
Rollin D. Hotchkiss,
The Rockefeller Institute for Medical Research,
New York, N. Y.

3:00 p.m. 3. Nutritional Inhibitors
Aron F. Rasmussen, Jr.,
University of California Medical Center,
Los Angeles, California

3:30 p.m.-3:45 p.m.—Intermission

3:45 p.m. 4. Inhibitors of Virus and Rickettsial Multiplication
Dillworth W. Woolley,
The Rockefeller Institute for Medical Research,
New York, N. Y.

4:15 p.m. 5. Suppression of Growth by Clinical Antibiotics
I. William McLean, Jr.,
Microbiological Research, Parke, Davis & Company,
Detroit, Michigan

4:45 p.m. 6. Clinical Application and Mode of Action
Theodore E. Woodward,
University of Maryland School of Medicine,
Baltimore, Maryland

5:15 p.m. General Discussion
THE HENRY FORD HOSPITAL MEDICAL SOCIETY
PROGRAMS FOR THE FALL OF 1953

October 22, 1953, Thursday, 8:45 P.M. — Grand Ballroom — Hotel Statler
(Meeting in conjunction with International Virus Symposium)

Problems of Diagnosis in Virus Diseases.
Frank L. Horsfall, M.D., Hospital of the Rockefeller Institute of Medical Research.

November 10, 1953, Tuesday, 8:15 P.M. — Henry Ford Hospital Auditorium

Tissue Culture Techniques in Investigative Dermatology.
Clarence S. Livingood, M.D., Chief of Division of Dermatology, Henry Ford Hospital, and Funan Hu, M.D., Research Associate in Division of Dermatology, Henry Ford Hospital.

December 8, 1953, Tuesday, 8:15 P.M. — Henry Ford Hospital Auditorium