

9-1953

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:

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|-----------------------|---|
| Thomas Francis, Jr. | Professor of Epidemiology and Chairman Department School 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. LoGrippe, 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

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|------------------|---|--|
| 9:00 a.m. | 1. The Initiation of Cellular Infection by Viruses | Alfred Gottschalk, The Walter and Eliza Hall Institute of Medical Research, Royal Melbourne Hospital, Melbourne, Australia |
| 9:40 a.m. | 2. Mechanisms of Penetration by Viruses | Alfred D. Hershey, Carnegie Institution of Washington, Cold Spring Harbor, Long Island, N. Y. |
| 10:00 a.m. | 3. Physical Factors in Virus Penetration | Theodore T. Puck, University of Colorado, Denver, Colorado |
| 10:20 a.m. | General Discussion | |
| 10:40-10:50 a.m. | —Intermission | |
| 10:50 a.m. | 4. The Development and Maturation of Viruses | Salvador E. Luria, University of Illinois, Urbana, Illinois |
| 11:20 a.m. | 5. Incomplete Forms of Viruses | Preben von Magnus, State Serum Institute, Copenhagen, Denmark |
| 11:50 a.m. | 6. Combination Forms of Virus Induced by Double Infection | George K. Hirst, The Public Health Research Institute of the City of New York, N. Y. |
| 12:20 p.m. | General Discussion | |
| 12:40 p.m. | Luncheon | |

1st Afternoon Session

Moderator: JOHN G. KIDD,
Cornell University Medical College, New York, N. Y.

Mechanisms of Virus and Rickettsial Infections

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| 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 Pennsyl- vania, 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 Uni-
versity 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 In-
stitutes 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

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| 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

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| 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

Some results of the Application of Electron Microscopy to Medicine. The Edsel B. Ford Lecture. James Hillier, Ph.D., Research Physicist, R.C.A. Laboratories, Princeton, N. J.