International Symposium: The Leukemias: Etiology And Pathophysiology

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International Symposium

THE LEUKEMIAS: ETIOLOGY AND PATHOPHYSIOLOGY
March 8, 9, and 10, 1956

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 Leukemias: Etiology and Pathophysiology. This symposium will be held at the Henry Ford Hospital, March 8, 9, and 10, 1956, in the Clinic Auditorium. The preliminary program follows and has been prepared with the help of the advisory members.

Advisory Members:

Frank H. Bethell The Thomas Henry Simpson Memorial Institute for Medical Research, Ann Arbor, Michigan
Sidney Farber The Children's Hospital, Boston, Massachusetts
Howard R. Bierman City of Hope Medical Center, Duarte, California
Joseph H. Burchenal Memorial Center for Cancer and Allied Diseases, New York
Carl V. Moore School of Medicine, Washington University, St. Louis, Missouri

Local Members:

John W. Rebuck, Chairman
Raymond W. Monto, Secretary
Wolf W. Zuelzer

PRELIMINARY PROGRAM
First Morning Session

8:50 A.M. Remarks of Welcome
Robin C. Buerki, Executive Director, Henry Ford Hospital

8:55 Announcements
John W. Rebuck

Chairman: Wolf W. Zuelzer, Detroit
The Leukemic Cell, Its Structure and Antigenicity

9:00 Electron Microscopy of Leukocytes
Marcel C. Bessis, Paris

9:30 Discussion Designated
Q. B. DeMarsh, Seattle

9:40 Phase Microscopy of Leukocytes
Sven Moeschlin, Solothurn, Switzerland
10:10 Discussion Designated
   Oliver P. Jones, Buffalo

10:20 General Discussion

10:30 Intermission

10:40 Antigenicity of Leukocytic Fractions
   Stuart C. Finch, New Haven

11:00 Leukocytic Agglutinins
   John J. Butler, Rochester, N. Y.

11:20 Discussion Designated
   James L. Tullis, Jamaica Plain, Mass.

11:30 General Discussion

12:30 Luncheon

First Afternoon Session
   Chairman: Howard R. Bierman, Duarte, California

**Genetic and Environment Factors in the Transmission of Leukemia**

2:00 P.M. Lessons from Transplantation of Leukemia in Animals
   Jacob Furth, Boston

2:20 Genetic and Non-Genetic Factors in the Induction of Leukemia
   Arthur Kirschbaum, Houston

2:40 The Viral Etiology of Mouse Leukemia
   Ludwik Gross, Bronx

3:00 Discussion Designated
   Lloyd W. Law, Bethesda, Maryland

3:10 General Discussion

3:20 Intermission

3:30 Environmental Factors in Human Leukemia
   L. J. Witts, Oxford, England

   Radiation Biology of Leukocytes

4:00 Radiation Injury and Regeneration in Lymphoid Tissues
   Henry S. Kaplan, San Francisco

4:20 Cytocidal Action of X-Rays on Lymphocytes According To Time-Lapse
   Cinemicrography and Unstained Cell Counts
   Robert Schrek, Hines, Illinois

4:40 Discussion Designated
   Leon O. Jacobson, Chicago

4:50 General Discussion
First Evening Session

6:30 P.M. Dinner — Hotel Statler
Chairman: Carl V. Moore, St. Louis

The Leukemias, Their Scope Maurice N. Richter, New York
The Malignant Lymphomas Lawrence Berman, Detroit

Second Morning Session
Chairman: M. M. Wintrobe, Salt Lake City, Utah
Leukocytic Physiology

9:00 A.M. Cultivation of Leukemic Cells in the Cartesian Diver
Jorgen Kieler, Copenhagen

9:30 Discussion Designated
E. E. Osgood, Portland, Ore.

9:40 General Discussion

9:50 Newer Concepts of Leukopoiesis as Revealed by
Combined Leukopheretic and Isotopic Techniques
Charles G. Craddock, Jr., Fort Ord, California

10:10 Intermission

10:20 Endocrine Influences on Leukocytes
Albert S. Gordon, New York

10:40 Discussion Designated
Thomas F. Dougherty, Salt Lake City

10:50 General Discussion

11:00 Leukocytic Resistance
Edoardo Storti, Modena, Italy

11:30 General Discussion

12:30 Luncheon

Second Afternoon Session
Chairman: L. J. Witts, Oxford, England

Metabolism of Amino and Nucleic Acids in the Leukemias

2:00 P.M. Amino Acid Metabolism In Leukemia
H. Waisman, Madison, Wisconsin

2:20 Urinary Amino Acid Excretion in Leukemia
J. Awapara, Houston

2:40 The Free Amino Constituents of the Formed Elements
of the Blood in Leukemia
George Rouser, Duarte, Calif.
3:00 General Discussion
3:10 Intermission
3:20 Metabolic Stability of PNA and DNA in Human Leukemic Leukocytes and the Function of Lymphocytes
L. D. Hamilton, New York
3:40 Urinary Uric Acid and Non Uric Acid Purine Excretion in Leukemia
I. Krakoff, New York
4:00 Nuclease Inhibitors
R. W. Vilter, Cincinnati
4:20 Studies on Cysteine Metabolism in Leukemia
A. S. Weisberger, Cleveland
4:40 General Discussion

Second Evening Session
8:00 P.M. Round Table—Henry Ford Hospital Auditorium
Present Status of New Clinical Agents and Combinations in Treatment of the Leukemias
Chairman: Frank H. Bethell, Ann Arbor

Joseph H. Burchenal, New York
William Dameshek, Boston
C. A. Doan, Columbus
M. M. Wintrobe, Salt Lake City

Third Morning Session
Chairman: Sidney Farber, Boston

Further Biochemical Considerations in the Leukemias
9:00 A.M. Immunologic Studies of Protein Synthesis in Leukemia
H. C. Hopps, Oklahoma City
9:20 Biochemical and Enzymatic Characteristics of Normal and Leukemic Leukocytes
W. N. Valentine, Los Angeles
9:40 Metabolism of PGA and CF in Leukemic Cells
R. R. Ellison, New York
10:00 Designated Discussion
R. J. Rossiter, London Ont., Canada
10:10 General Discussion
10:20 Intermission
10:30  Lactic Acid Production By the Human Polymorphonuclear Leukocyte  
   S. P. Martin, Durham, N.C.

10:50  General Discussion

11:00  Diagnostic and Nosological Problems at the Borderline of Leukemia  
   F. G. J. Hayhoe, Cambridge, England

11:30  General Discussion

12:30  Luncheon

Third Afternoon Session
Chairman: Joseph H. Burchenal
Memorial Center for Cancer and Allied Diseases, New York

**Nucleic Acids as the Target for Chemotherapy:**  
**Mechanisms of Drug Action and Resistance**

2:00 P.M.  The Specific Action of Azaserine and Other Anti-Carcinogens  
   on Enzymes Concerned with Purine Biosynthesis  
   John M. Buchanan, Cambridge, Mass.

2:20  Biosynthesis of Nucleic Acids and Neoplasia  
   David A. Goldthwait, Cleveland

2:40  Nucleic Acids and Related Derivatives as Targets for Chemotherapy  
   George B. Brown, New York

3:00  Studies on Resistance to Folic Acid Antagonists  
   Charles Nichol, New Haven

3:20  General Discussion

3:30  Intermission

3:40  Nutritional and Metabolic Variations in Drug Resistant Bacteria  
   Dorris J. Hutchison, New York

4:00  Nucleotide Metabolism and Cancer Chemotherapy  
   Howard E. Skipper, Birmingham, Ala.

4:20  Antagonists of Nucleic Acid Derivatives  
   George Hitchings, Tuckahoe, New York

4:40  Anti-Cancer Agents and Nucleic Acid Metabolism of  
   Isolated Human Leukocytes  
   Richard J. Winzler, Chicago

5:00  General Discussion