



# Cancer Research

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## Contents

Volume 31 / Number 11 / November 1971

- 1523** A Review of Isozymes in Cancer.  
*Wayne E. Criss.*
- 1543** The Effect of Age at Exposure to a Sublethal Dose of Fast Neutrons on Tumorigenesis in Male Rat.  
*T. J. Castanera, D. C. Jones, D. J. Kimeldorf, and V. J. Rosen.*
- 1550** Inhibition of Chemically Induced Neoplasia by Immunization with an Antigenic Carcinogen-Protein Conjugate.  
*Richard M. Peck and Evelyn B. Peck.*
- 1555** Urinary Polyamines in Cancer Patients.  
*Diane H. Russell, Carl C. Levy, Stephen C. Schimpff, and Inez A. Hawk.*
- 1559** Stimulation or Suppression of Metastases with Graded Doses of Tumor Cells.  
*Romain R. Vanwijck, Elizabeth A. Godrick, Howard G. Smith, Jonathan Goldweitz, and Richard E. Wilson.*
- 1564** Cartesian Diver Studies on Respiration and Glycolysis of High and Low Sarcoma Lines.  
*J. D. Lutton and M. J. Kopac.*
- 1570** Genotype-dependent Modification of Sarcoma 37 Growth in Castrated Mice.  
*George L. Wolff.*
- 1573** Cross-linking of DNA by Alkylating Agents and Effects on DNA Function in the Chick Embryo.  
*Jerome J. McCann, Timothy M. Lo, and D. A. Webster.*
- 1580** Induction of Tyrosine Aminotransferase and Amino Acid Transport in Morris Hepatomas and in Adult and Neonatal Rat Liver.  
*Robert D. Reynolds, David F. Scott, Van R. Potter, and Harold P. Morris.*
- 1590** Comparison of Local Cellular Reaction to Tumor Grafts in Mice Treated with Some Plant Polysaccharides.  
*Reiko Tokuzen.*
- 1594** Normal and Cancerous Tissue Transplantation in Allogeneic and Syngeneic *Xenopus laevis*.  
*Irandokht Hadji-Azimi and Michail Fischberg.*
- 1600** The Uptake of Tritiated Methotrexate by an Experimental Glioma.  
*Charles H. Tator.*
- 1606** Leukemia L1210 Therapy Trials with Anti-leukemia Serum and *Bacillus Calmette-Guérin*.  
*Arnold E. Reif and Chung-Ai H. Kim.*
- 1613** Differing Responses to Radiation of Murine Bone Marrow Stem Cells in Relation to the Cell Cycle.  
*John T. Chaffey and Samuel Hellman.*
- 1616** Sensitivity to Nitrogen Mustard as a Function of Transport Activity and Proliferative Rate in L5178Y Lymphoblasts.  
*Gerald J. Goldenberg, Roger M. Lyons, Judy A. Lepp, and Candice L. Vanstone.*
- 1620** The Role of Phosphohydrolases in the Mechanism of Resistance of Neoplastic Cells to 6-Thiopurines.  
*M. K. Wolpert, S. P. Damle, J. E. Brown, E. Szynger, K. C. Agrawal, and A. C. Sartorelli.*
- 1627** Pharmacology of 6-Thioguanine in Man.  
*G. A. LePage and J. P. Whitecar, Jr.*
- 1632** Lysosomal and Nonlysosomal Enzyme Activities of Morris Hepatomas.  
*Raymond J. Shamberger, Motoo Hozumi, and Harold P. Morris.*
- 1640** Amino Acid Requirements *in Vitro* of Human Leukemic Cells.  
*Takao Ohnuma, Judith Waligunda, and James F. Holland.*
- 1645** Studies on the Carcinogenicity of the Glucuronides of *N*-Hydroxy-2-acetylaminofluorene and *N*-2-Fluorenylhydroxylamine in the Rat.  
*Charles C. Irving and Ralph Wiseman, Jr.*
- 1649** Cytotoxicity of Sesquiterpene Lactones.  
*Kuo-Hsiung Lee, Eng-Shang Huang, Claude Piantadosi, Joseph S. Pagano, and T. A. Geissman.*
- 1655** Concomitant Immunity and Specific Depression of Immunity by Residual or Rejected Syngeneic Tumor Tissue.  
*Jan Vaage.*
- 1663** Transcription of Walker 256 Carcinosarcoma Chromatin.  
*Nina C. Kostraba and T. Y. Wang.*
- 1669** The Effects of DL-*p*-Fluorophenylalanine and L-3-Nitrotyrosine on the Growth and Biochemistry of the Taper Liver Tumor.  
*S. J. MacLean and R. E. Huber.*
- 1673** Serum and Urinary Protein Alterations in C57BL/10 Lymphoma-bearing Mice.  
*Bob G. Sanders, Ray L. Teplitz, and Kay L. Wiley.*
- 1682** Antigenic Cross-reactivity between Primary Spontaneous Mouse Mammary Tumors and Their Transplantable Ascites Tumors.  
*Reiko Furuse Irie.*
- 1690** Transitional Cell Hyperplasia in the Bladders of Dogs Fed DL-Tryptophan.  
*J. L. Radomski, E. M. Glass, and William B. Deichmann.*

- 1695** A Comparative Biochemical Study of Alkaline Phosphatases in Normal and Leukemic Mice.  
*H. Neumann, K. J. Wilson, R. Hauck-Granoth, and N. Haran-Ghera.*
- 1702** Chronological Appearance of Alkaline Phosphatase Activity in Virus-induced Thymic Lymphomas of C57BL/6 Mice.  
*K. J. Wilson, H. Neumann, and N. Haran-Ghera.*
- 1707** Symposium: Staging in Hodgkin's Disease.
- 1708** Program.
- 1710** List of Participants.
- 1711** Program Committee.
- 1712** Introduction.  
*Jack W. Milder.*
- 1713** The Need for a New Clinical Classification in Hodgkin's Disease: Keynote Address.  
*M. Vera Peters.*
- 1723** A Reappraisal of Clinical and Biological Signs in Staging of Hodgkin's Disease.  
*F. Teillet, M. Boiron, and J. Bernard.*
- 1730** Formal Discussion of F. Teillet *et al.*'s Paper, "A Reappraisal of Clinical and Biological Signs in Staging of Hodgkin's Disease."  
*Henry S. Kaplan.*
- 1731** Current Status of Lymphography.  
*Manuel Viamonte, Jr.*
- 1733** Hodgkin's Disease of the Bone Marrow.  
*Saul A. Rosenberg.*
- 1737** A Critique of the Value of Laparotomy and Splenectomy in the Evaluation of Patients with Hodgkin's Disease.  
*Saul A. Rosenberg.*
- 1741** The Possible Value of Mediastinoscopy in Staging Hodgkin's Disease.  
*Marshall E. Redding, Constantine E. Anagnostopoulos, and John E. Ultmann.*
- 1746** Peritoneoscopy in the Staging of Hodgkin's Disease.  
*V. T. DeVita, Jr., C. M. Bagley, Jr., B. Goodell, D. A. O'Kieffe, and N. P. Trujillo.*
- 1751** Summary of Informal Discussion on Staging Procedures in Hodgkin's Disease.  
*Maurice Tubiana.*
- 1755** Criteria for Involvement of Lymph Node, Bone Marrow, Spleen, and Liver in Hodgkin's Disease.  
*Robert J. Lukes.*
- 1768** Formal Discussion of Robert J. Lukes' Paper, "Criteria for Involvement of Lymph Node, Bone Marrow, Spleen, and Liver in Hodgkin's Disease."  
*Ronald F. Dorfman.*
- 1770** Relationship of Histological Findings to Survival in Hodgkin's Disease.  
*James J. Butler.*
- 1776** The Relationship of Histopathological Subtype to Clinical Stage of Hodgkin's Disease at Diagnosis.  
*Costan W. Berard, Louis B. Thomas, Lillian M. Axtell, Mary Kruse, Guy Newell, and Robert Kagan.*
- 1786** Relationship of Histology to Site in Hodgkin's Disease.  
*Ronald F. Dorfman.*
- 1794** Clinical and Biological Significance of Vascular Invasion in Hodgkin's Disease.  
*Henry Rappaport, Stephen B. Strum, George Hutchison, and Lawrence W. Allen.*
- 1799** Summary of Informal Discussion on Histological Criteria for Diagnosis of the Extent of Hodgkin's Disease.  
*Louis B. Thomas.*
- 1801** Prognostic Factors in 454 Cases of Hodgkin's Disease.  
*M. Tubiana, E. Attié, R. Flamant, R. Gérard-Marchant, and M. Hayat.*
- 1811** Contiguity and Progression in Hodgkin's Disease.  
*Henry S. Kaplan.*
- 1814** Prognostic and Therapeutic Implications of Staging in Extranodal Hodgkin's Disease.  
*Karl Musshoff.*
- 1828** Definition of Cure for Hodgkin's Disease.  
*Emil Frei, III, and Edmund A. Gehan.*
- 1834** Results of Radiation Therapy and Implications for the Clinical Staging of Hodgkin's Disease.  
*Ralph E. Johnson, Marilyn K. Glover, and Sandra K. Marshall.*
- 1838** Chemotherapeutic Implications of Staging in Hodgkin's Disease.  
*Vincent T. DeVita, Jr., and Paul P. Carbone.*
- 1845** Combined Radiotherapy and Chemotherapy of Lymphomas and Other Cancers.  
*Leon Stutzman.*
- 1851** Summary of Informal Discussion on the Prognostic and Therapeutic Implications of Staging in Hodgkin's Disease.  
*M. Vera Peters.*
- 1854** Epidemiological Considerations of Staging in Hodgkin's Disease.  
*Brian MacMahon.*
- 1858** Formal Discussion of Brian MacMahon's Paper, "Epidemiological Considerations of Staging in Hodgkin's Disease."  
*George Hutchison.*
- 1860** Report of the Committee on Hodgkin's Disease Staging Classification.  
*Paul P. Carbone (Chairman), Henry S. Kaplan, Karl Musshoff, David W. Smithers, and Maurice Tubiana.*
- 1862** Report of the Committee on Hodgkin's Disease Staging Procedures.  
*Saul A. Rosenberg (Chairman), Michel Boiron, Vincent T. DeVita, Jr., Ralph E. Johnson, Burton J. Lee, John E. Ultmann, and Manuel Viamonte, Jr.*
- 1864** Report of the Committee on Histopathological Criteria Contributing to Staging of Hodgkin's Disease.  
*Henry Rappaport (Chairman), Costan W. Berard, James J. Butler, Ronald F. Dorfman, Robert J. Lukes, and Louis B. Thomas.*

- 1866 Summary of Informal Discussion on Biostatistical and Epidemiological Factors in Hodgkin's Disease.  
*David W. Smithers.*
- 1869 Summary of Papers Delivered at the Con-

- ference on Staging in Hodgkin's Disease (Ann Arbor).  
*David W. Smithers.*
- 1871 Announcements.

## COVER LEGEND

This month's cover features the Netherlands Cancer Institute and Professor Otto Mühlbock (b. 1906), one of its prominent staff members for many years. Educated at the University of Berlin as a chemist (Ph.D., 1927) and as a physician (M.D., 1933), Dr. Mühlbock specialized in gynecology and endocrinology and was an assistant to Dr. Ernst Laqueur in Amsterdam from 1935 to 1940. After the war, in 1946, he joined the staff of the Antoni van Leeuwenhoek Huis (The Netherlands Cancer Institute) in Amsterdam.

Dr. Mühlbock's scientific contributions have centered around the problem of hormones as carcinogenic agents. Work on ovarian tumors (with R. van Nie), hypophyseal tumors (with H. G. Kwa), and especially mammary tumors in mice served as models. Dr. Mühlbock, in collaboration with L. M. Boot and G. Röpcke, developed a system to induce mammary tumors in mice with isografts of pituitaries, thus demonstrating that these tumors can develop in the absence of an active virus. For comparative studies, he and W. van Ebbenhorst Tengbergen developed a number of inbred strains of mice of European origin. Mühlbock and P. Bentvelzen found that one of these, the GR strain, proved to be of special interest because of the mammary tumor virus (MTV) variant which is transmitted not only by milk but also by the genome. With A. Dux he demonstrated that the genetic resistance against MTV, located in the mammary gland, is associated with a diminished replication of the virus. Recently, this resistance has been shown to be related to a certain allele of the *H-2* locus.

Dr. Mühlbock has served in many capacities in both international and Dutch organizations such as the UICC, UNESCO, the International Committee on Laboratory Animals, the International Agency

for Research on Cancer, and others. He is presently president of the European Association for Cancer Research and has been professor of experimental oncology at the University of Amsterdam since 1958. His 65th birthday was recently celebrated by a Symposium (held in May 1971) on "RNA Virus and Host Genome."

The Netherlands Cancer Institute was founded with the help of private funds in 1913 on the premise that the only way to conquer cancer is for clinical observation and basic research to be combined as closely as possible. Named after the 17th century Dutch scientist Antoni van Leeuwenhoek, it was begun as a research clinic with a limited number of beds, with the selection of cancer patients made in accordance with the research interests of the clinicians; for many years the emphasis was on research on mammary cancer. The large animal colony maintained at the Institute for the purpose of supplying mice as animal models still supplies the IARC of the WHO in Lyons. The Institute has no director, but rather a managing directory which handles all administrative and financial affairs. It now employs 390 clinical and laboratory workers. Having outgrown its original housing facilities in Amsterdam, construction of new facilities (sketch shown on the cover) on the outskirts of Amsterdam is underway and will be completed by 1976 or 1977. The cover also shows a 1967 photograph of Dr. Mühlbock and a backview photograph of the old Institute; the main building was erected as a military hospital during the French occupation by Napoleon and, as such, presents a rather foreboding appearance. Photographs and background information were kindly provided by Dr. L. M. Boot, whose cooperation is gratefully acknowledged.

# SYMPOSIUM

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## STAGING IN HODGKIN'S DISEASE

*Held at the  
Towsley Center for Continuing Education  
University of Michigan  
Ann Arbor, Michigan  
April 26-28, 1971*

# PROGRAM

List of Participants .....	1710
Program Committee .....	1711
Introduction.	
<i>Jack W. Milder</i> .....	1712
The Need for a New Clinical Classification in Hodgkin's Disease: Keynote Address.	
<i>M. Vera Peters</i> .....	1713

## Staging Procedures in Hodgkin's Disease

Maurice Tubiana, *Chairman*

A Reappraisal of Clinical and Biological Signs in Staging of Hodgkin's Disease.	
<i>F. Teillet, M. Boiron, and J. Bernard</i> .....	1723
Formal Discussion of F. Teillet <i>et al.</i> 's Paper, "A Reappraisal of Clinical and Biological Signs in Staging of Hodgkin's Disease."	
<i>Henry S. Kaplan</i> .....	1730
Current Status of Lymphography.	
<i>Manuel Viamonte, Jr.</i> .....	1731
Hodgkin's Disease of the Bone Marrow.	
<i>Saul A. Rosenberg</i> .....	1733
A Critique of the Value of Laparotomy and Splenectomy in the Evaluation of Patients with Hodgkin's Disease.	
<i>Saul A. Rosenberg</i> .....	1737
The Possible Value of Mediastinoscopy in Staging Hodgkin's Disease.	
<i>Marshall E. Redding, Constantine E. Anagnostopoulos, and John E. Ultmann</i> .....	1741
Peritoneoscopy in the Staging of Hodgkin's Disease.	
<i>V. T. DeVita, Jr., C. M. Bagley, Jr., B. Goodell, D. A. O'Kieffe, and N. P. Trujillo</i> .....	1746
Summary of Informal Discussion on Staging Procedures in Hodgkin's Disease.	
<i>Maurice Tubiana</i> .....	1751

## Histological Criteria for Diagnosis of the Extent of Hodgkin's Disease

Louis B. Thomas, *Chairman*

Criteria for Involvement of Lymph Node, Bone Marrow, Spleen, and Liver in Hodgkin's Disease.	
<i>Robert J. Lukes</i> .....	1755
Formal Discussion of Robert J. Lukes' Paper, "Criteria for Involvement of Lymph Node, Bone Marrow, Spleen, and Liver in Hodgkin's Disease."	
<i>Ronald F. Dorfman</i> .....	1768
Relationship of Histological Findings to Survival in Hodgkin's Disease.	
<i>James J. Butler</i> .....	1770
The Relationship of Histopathological Subtype to Clinical Stage of Hodgkin's Disease at Diagnosis.	
<i>Costan W. Berard, Louis B. Thomas, Lillian M. Axtell, Mary Kruse, Guy Newell, and Robert Kagan</i> .....	1776
Relationship of Histology to Site in Hodgkin's Disease.	
<i>Ronald F. Dorfman</i> .....	1786
Clinical and Biological Significance of Vascular Invasion in Hodgkin's Disease.	
<i>Henry Rappaport, Stephen B. Strum, George Hutchison, and Lawrence W. Allen</i> .....	1794
Summary of Informal Discussion on Histological Criteria for Diagnosis of the Extent of Hodgkin's Disease.	
<i>Louis B. Thomas</i> .....	1799
Prognostic Factors in 454 Cases of Hodgkin's Disease.	
<i>M. Tubiana, E. Attié, R. Flamant, R. Gérard-Marchant, and M. Hayat</i> .....	1801

**Prognostic and Therapeutic Implications of Staging in Hodgkin's Disease**

**M. Vera Peters, *Chairman***

Contiguity and Progression in Hodgkin's Disease. <i>Henry S. Kaplan</i> .....	1801
Prognostic and Therapeutic Implications of Staging in Extranodal Hodgkin's Disease. <i>Karl Musshoff</i> .....	1814
Definition of Cure for Hodgkin's Disease. <i>Emil Frei, III, and Edmund A. Gehan</i> .....	1828
Results of Radiation Therapy and Implications for the Clinical Staging of Hodgkin's Disease. <i>Ralph E. Johnson, Marilyn K. Glover, and Sandra K. Marshall</i> .....	1834
Chemotherapeutic Implications of Staging in Hodgkin's Disease. <i>Vincent T. DeVita, Jr., and Paul P. Carbone</i> .....	1838
Combined Radiotherapy and Chemotherapy of Lymphomas and Other Cancers. <i>Leon Stutzman</i> .....	1845
Summary of Informal Discussion on the Prognostic and Therapeutic Implications of Staging in Hodgkin's Disease. <i>M. Vera Peters</i> .....	1851

**Other Considerations**

**David W. Smithers, *Chairman***

Epidemiological Considerations of Staging in Hodgkin's Disease. <i>Brian MacMahon</i> .....	1854
Formal Discussion of Brian MacMahon's Paper, "Epidemiological Considerations of Staging in Hodgkin's Disease." <i>George Hutchison</i> .....	1858
Report of the Committee on Hodgkin's Disease Staging Classification. <i>Paul P. Carbone (Chairman), Henry S. Kaplan, Karl Musshoff, David W. Smithers, and Maurice Tubiana</i> ..	1860
Report of the Committee on Hodgkin's Disease Staging Procedures. <i>Saul A. Rosenberg (Chairman), Michel Boiron, Vincent T. DeVita, Jr., Ralph E. Johnson, Burton J. Lee, John E. Ultmann, and Manuel Viamonte, Jr.</i> .....	1862
Report of the Committee on Histopathological Criteria Contributing to Staging of Hodgkin's Disease. <i>Henry Rappaport (Chairman), Costan W. Berard, James J. Butler, Ronald F. Dorfman, Robert J. Lukes, and Louis B. Thomas</i> .....	1864
Summary of Informal Discussion on Biostatistical and Epidemiological Factors in Hodgkin's Disease. <i>David W. Smithers</i> .....	1866
Summary of Papers Delivered at the Conference on Staging in Hodgkin's Disease (Ann Arbor). <i>David W. Smithers</i> .....	1869



# Cancer Research

The Journal of Cancer Research (1916–1930) | The American Journal of Cancer (1931–1940)

## 31 (11)

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