Contents

1217 Tumorigenicity of N-Nitrosohexamethyleneimine.  
C. M. Goodall, W. Lijinsky, and L. Tomatis.

1223 Soluble RNA Ethylase Activity of Normal and Neoplastic Mouse Tissues.  
R. L. Hancock.

1231 The Establishment of a Cell Line of Human Hormone-synthesizing Trophoblastic Cells in Vitro.  
Roland A. Pattillo and George O. Gey.

1237 Tyrosinase Activity in Serum from Normal and Melanoma-bearing Mice.  
I. Aravindakshan Menon and Herbert F. Haberman.

1242 Effect of Treatment with 1,3-Bis(2-chloroethyl)-1-nitrosourea or Cyclophosphamide on Spleen Colony-forming Units and Survival Time of Leukemic Mice.  
S. Vadlamudi, V. S. Waravdekar, J. N. Choudry, and A. Goldin.

1250 Heme Synthesis in Normal and Leukemic Leukocytes.  
Fumi-maro Takaku, Osamu Wada, Shigeru Sassa, and Kiku Nakao.

1256 Ultrastructural Alterations Caused by Cytostatic Sugar-Alcohol Derivatives.  
K. Lapis and I. Benedeczky.

1275 Symposium: Conference on Tumor-specific Antigens.

1276 Program.

1278 Guests.

1279 Introductory Remarks.  
Jack W. Milder.

1280 Experimental Tumor Immunology.  
Chandler A. Stetson (Chairman), Edward A. Boyse, Lloyd J. Old, Elisabeth Stockert, Naoya Shigeno, Gayla Geering, Herbert F. Oettgen.

1300 Search for Tumor-specific Antigens in Human Tumors of Possible Viral Origin.  
Chandler A. Stetson (Chairman), Eva Klein, George Klein, Jagadish S. Nadkarni, Jayshree J. Nadkarni, Hans Wigzell, Peter Clifford, Frank J. Rauscher, Jr., Wallace P. Rowe, Andrew M. Lewis, Jr., Wilbur Fiske Noyes.

1326 Antigens of Chemically Induced Tumors.  
George Klein (Chairman), Richmond T. Prehn.

1331 Search for Tumor-specific Antigens in Other Human Cancers.  

1357 Serologic Methods Applicable to the Study of Cell Antigens.  

1404 Other Approaches in Studying Tumor Antigens.  

1433 The Evaluation of the Immunologic Capability of Cancer Patients.  
Chester M. Southam (Chairman), Daniel G. Miller, John P. Merrill, Robert S. Schwartz.

1457 Miscellaneous.  
M. M. Sigel, R. A. Fugmann.

1460 Book Reviews.

Special Announcement: Availability of Reprints of Cover Photographs.
SYMPOSIUM

Sponsored by the
American Cancer Society

CONFERENCE ON TUMOR-SPECIFIC ANTIGENS

Held at the
Westchester Country Club
Rye, New York
November 13-15, 1967
PROGRAM

List of Guests ................................................................. 1278
Introductory Remarks ...................................................... 1279

Jack W. Müller.

Experimental Tumor Immunology
Chandler A. Stetson, Chairman

Genetic Origin of Tumor Antigens ........................................ 1280
Edward A. Boyse, Lloyd J. Old, Elisabeth Stockert, and Naoya Shigeno.
Serologic Approaches to the Study of Cancer in Animals and in Man. 1288
Lloyd J. Old, Edward A. Boyse, Gayla Geering, and Herbert F. Oettgen.

Search for Tumor-specific Antigens in Human Tumors of Possible Viral Origin
Chandler A. Stetson, Chairman

Surface IgM-kappa Specificity on a Burkitt Lymphoma Cell in Vivo and in Derived Culture Lines. 1300
Eva Klein, George Klein, Jagadish S. Nadkarni, Jayshree J. Nadkarni, Hans Wigzell, and Peter Clifford.
Virologic Studies in Human Leukemia and Lymphoma: The Herpes-type Virus. 1311
Frank J. Rauscher, Jr.
Serologic Surveys for Viral Antibodies in Cancer Patients. 1319
Wallace P. Rowe and Andrew M. Lewis, Jr.
Verrucae: Virus Structure, Localization of Antigens, and Comparison with the Shope Papilloma. 1321
Wilbur Fiske Noyes.
Summary: Experimental Tumor Immunology; and Search for Tumor-specific Antigens in Human Tumors of Possible Viral Origin. 1325
Chandler A. Stetson.

Antigens of Chemically Induced Tumors
George Klein, Chairman

Tumor-specific Antigens of Putatively Nonviral Tumors. 1326
Richmond T. Prehn.

Search for Tumor-specific Antigens in Other Human Cancers
George Klein, Chairman

Cellular Location of Carcinoembryonic Antigens of the Human Digestive System. 1331
Phil Gold, Michael Gold, and Samuel O. Freedman.
Myelin as a Locus for Radioantibody Absorption in Vivo in Brain and Brain Tumors. 1335
Eugene D. Day.
Production of Embryonal Serum α-Globulin by Hepatomas: Review of Experimental and Clinical Data. 1344
G. I. Abelev.
The “Abnormality” of Myeloma Proteins. 1351
Henry G. Kunkel.
Summary: Antigens of Chemically Induced Tumors; and Search for Tumor-specific Antigens in Other Human Cancers. 1354
George Klein.

Serologic Methods Applicable to the Study of Cell Antigens
Ernest Witebsky, Chairman

The Possible Use of Complement for the Detection of Cell Surface Antigens. 1357
Hans J. Müller-Eberhard.
The Role of Cellular Antigens in Complement-induced Cytocidal, Immune Adherence, and Phagoeyotic Reactions. 1361
Robert A. Nelson, Jr.
The Study of Normal and Malignant Cell Antigens by Mixed Agglutination.
Richard S. Metzgar and Samuel R. Oleinick. ........................................ 1366

Robert C. Mellors. ........................................................................... 1372

Agglutination, Cytotoxicity, and Gel Diffusion Technics in Studies on Cell and Tissue Antigens.
Felix Milgrom. .................................................................................. 1382

Cell-associated Hypersensitivity Studied in Vitro.
John R. David. ................................................................................... 1387

Cell-associated Immune Reactions.
Baruj Benacerraf. .............................................................................. 1392

Summary: Serologic Methods Applicable to the Study of Cell Antigens.
Ernest Witebsky. ................................................................................ 1399

Other Approaches in Studying Tumor Antigens
Abraham G. Osler, Chairman

The Use of Tolerance to Reduce the Complexity of Reactions to Antigen Mixtures.
R. E. Billingham and Willys K. Silvers. .......................................... 1404

The Use of Enhancement in Studying Tumor Antigens.
J. R. Batchelor. .................................................................................. 1410

Human Histocompatibility Antigens in Normal and Neoplastic Tissues.
J. J. van Rood, A. van Leeuwen, A. Schippers, and H. Balner. ........ 1415

Bases for the Recognition of Antigenicity.
G. J. V. Nossal and A. Abbot. ....................................................... 1423

Summary: Other Approaches in Studying Tumor Antigens.
Abraham G. Osler. ............................................................................. 1430

The Evaluation of the Immunologic Capability of Cancer Patients
Chester M. Southam, Chairman

The Immunologic Status of Patients with Nonlymphomatous Cancer.
Chester M. Southam. ....................................................................... 1433

The Immunologic Capability of Patients with Lymphoma.
Daniel G. Miller. ............................................................................... 1441

The Immunologic Capability of Uremic Patients.
John P. Merrill. ................................................................................ 1449

Are Immunosuppressive Anticancer Drugs Self-defeating?
Robert S. Schwartz. .......................................................................... 1452

Summary: Evaluation of Immunologic Capability of Cancer Patients.
Chester M. Southam. ....................................................................... 1455

Miscellaneous

Studies on Immunoglobulins Reactive with Tumor Cells and Antigens.
M. M. Sigel and R. A. Fugmann. .................................................... 1457