PROGRAM PLANNING COMMITTEE

Chairman
David M. Goldenberg

Committee Members
Frank H. DeLand
K. Robert McIntire

PROGRAM

SESSION I
Radiolabeled Antibodies and Tumor Markers

Chairperson: David Pressman

An Introduction to the Radioimmunodetection of Cancer
David M. Goldenberg 2957

The Development and Use of Radiolabeled Antitumor Antibodies
David Pressman 2960

Factors Influencing Localization of Labeled Antibodies in Tumors
William F. Bale, M. Angeles Contreras, and Edgar D. Grady 2965

Historical Development and Potential Uses of Tumor Antigens as Markers of Human Cancer Growth
Phil Gold and Joseph Shuster 2973

Diagnostic Significance of Tumor Markers
Sabine U. von Kleist 2977

SESSION II
Carcinoembryonic Antigen and α-Fetoprotein Radioimmunodetection

Chairperson: K. Robert McIntire

Immunological Considerations in the Use of Goat Antibodies to Carcinoembryonic Antigen for the Radioimmunodetection of Cancer
F. James Primus and David M. Goldenberg 2979

Radioimmunodetection of Cancer with Radioactive Antibodies to Carcinoembryonic Antigen
David M. Goldenberg, E. Edmund Kim, Frank H. DeLand, Sidney Bennett, and F. James Primus 2984

Radioimmunodetection of Gastrointestinal Neoplasms with Antibodies to Carcinoembryonic Antigen

Lymphoscintigraphy with Radionuclide-labeled Antibodies to Carcinoembryonic Antigen
Frank H. DeLand, E. Edmund Kim, and David M. Goldenberg 2997

Use of Isotopic Immunoglobulin in Therapy
S. E. Order, J. L. Klein, D. Ettinger, P. Alderson, S. Siegelman, and P. Leichner 3001

Radioimmunodetection of Cancer with Radiolabeled Antibodies to α-Fetoprotein
E. Edmund Kim, Frank H. DeLand, M. Owens Nelson, Sidney Bennett, Guy Simmons, Elliot Alpert, and David M. Goldenberg 3008

Localization of Radioiodinated Antibody to α-Fetoprotein in Hepatoma Transplanted in Rats and a Case Report of α-Fetoprotein Antibody Treatment of a Hepatoma Patient

SESSION III
Other Markers for Radioimmunodetection

Chairperson: Kenneth D. Bagshawe

Preliminary Therapeutic and Localization Studies with Human Chorionic Gonadotrophin
K. D. Bagshawe, F. Searle, J. Lewis, P. Brown, and P. Keep 3016

Localization of 131I-labeled Antibodies in Human Renal Cell Carcinomas and in a Mouse Hepatoma and Correlation with Tumor Detection by Photoscanning
Isolation of Prostatic Acid Phosphatase-binding Immunoglobulin G from Human Sera and Its Potential for Use as a Tumor-localizing Reagent

Lawrence D. Papsidero, John W. Wojcieszyn, Julius S. Horoszewicz, Susan S. Leong, Gerald P. Murphy, and T. Ming Chu

SESSION IV
Radiolabeling

Chairperson: William C. Eckelman

Radiolabeling of Antibodies
William C. Eckelman, Chang H. Paik, and Richard C. Reba

Radiolabeling of Affinity-purified Goat Anti-Carcinoembryonic Antigen Immunoglobulin G with Technetium-99m
William A. Pettit, Frank H. DeLand, Sidney J. Bennett, and David M. Goldenberg

SESSION V
Imaging in Radioimmunodetection

Chairperson: Frank H. DeLand

Imaging Approach in Radioimmunodetection
Frank H. DeLand, E. Edmund Kim, Guy Simmons, and David M. Goldenberg

Imaging Techniques for the Radioimmunodetection of Cancer
F. David Rollo and James A. Patton

Theoretical Limitations in the Immunodiagnostic Imaging of Cancer with Computed Tomography and Nuclear Scanning
S. David Rockoff, David J. Goodenough, and K. Robert McIntire

SESSION VI
Other Detection Methods

Chairperson: Peter J. Ell

Radioisotope Section Scanning
P. J. Ell and O. Khan

Radiocolloid Lymphoscintigraphy in Neoplastic Disease
Güneş N. Ege

Ultrasound as a Useful Imaging Modality for Tumor Detection and Staging
Carol A. Mittelstaedt

Potential Pathological Application of Immunocytochemical Methods to the Detection of Micrometastases
J. P. Sloane, M. G. Ormerod, and A. M. Neville

SESSION VII
Summation and Perspectives

Chairperson: Norman Zamcheck

Tumor Markers for Radioimmunodetection of Cancer
K. Robert McIntire

Concluding Remarks
Norman Zamcheck and Glenn Steele, Jr.