PROGRAM

SESSION I
Molecular Basis for Programming in Development

Chairperson: Joseph H. Coggin, Jr.

Introduction.

Norman G. Anderson and Joseph H. Coggin, Jr. ....................................................... 3384

Potential Regulatory Roles for RNA in Cellular Development.
Elizabeth Dickson and Hugh D. Robertson ................................................................. 3387

Selective Control of DNA Helix Openings during Gene Regulation.
John H. Frenster .............................................................................................................. 3394

Antigenically Active Nonhistone Chromatin Proteins in Cancer Cells.
Harris Busch, Lynn C. Yeoman, Rose K. Busch, John J. Jordan, Manchanahalli S. Rao, Charles W. Taylor, and
Benjamin C. Wu .............................................................................................................. 3399

SESSION II
Embryonic and Fetal Development

Chairperson: Joseph C. Daniel, Jr.

Continuity of a Rabbit Antigen between Generations.
Joseph C. Daniel, Jr. and John T. Milazzo ......................................................................... 3409

Participation of Teratocarcinoma Cells in Mouse Embryo Development.
R. L. Brinster .................................................................................................................... 3412

Characterization of Embryonic Antigens in the Plasma of Developing Chick Embryos.
Edwin M. Weller .............................................................................................................. 3415

Activation of Developmental Genes in Neoplastic Transformation.
William H. Fishman ........................................................................................................ 3423

SESSION III
Relationships between Shared Tumor and Fetal Products: Part I

Chairperson: Norman G. Anderson

The Effect of Exposure to Dibutyryl Cyclic Adenylic Acid on the Membrane Antigenicity of SV40 Tumor Cells.
W. H. Hannon, N. G. Anderson, and Joseph H. Coggin, Jr. .................................................. 3429

Angiogenesis Induction by Tumors, Embryonic Tissues, and Lymphocytes.
Robert Auerbach, Louis Kubai, and Younan Sidky ............................................................ 3435

Fetal Growth Modified by Natural and Induced Changes in Maternal Reactivity.
Edward J. Breyere ............................................................................................................ 3441

Fetal Antigens in Nonneoplastic Conditions.
L. Martin Jerry, Martin G. Lewis, Geoffrey Rowden, Arthur K. Sullivan, Renee Pitzele, and Teresa Law ........ 3446

The Significance of Embryonic Reexpression in Cancer.
Sir Peter Medawar and Ruth Hunt ...................................................................................... 3453

SESSION IV
Relationships between Shared Tumor and Fetal Products: Part II

Chairperson: Allyn H. Rule

Antigens Associated with Normal and Malignant Gastrointestinal Tissues.
David M. Goldenberg, Keshab D. Pant, and Howard L. Dahlman .................................. 3455
SESSION V

Antigenic Determinants of Colonic Cancers

Chairperson: L. R. Hines

Physical Characterization and Structural Studies of the Carcinoembryonic Antigen.
Marianne L. Egan, John E. Coligan, David G. Pritchard, William C. Schnute, Jr., and Charles W. Todd

Immunohistochemical Studies on Carcinoembryonic Antigen-reactive Glycoproteins from Carcinomas of the Colon and Breast Separated by Concanavalin A Affinity Chromatography.
Shashi R. Harvey, Ravinder N. Girotra, Takuma Nemoto, Frank Ciani, and T. Ming Chu

Biochemical Changes in Premalignant Intestines.
Josephine S. Salser, William J. Ball, Jr., and M. Earl Balis

SESSION VI

Tumor Antigens and Embryonic Antigens on Neoplasms

Chairperson: Peter Alexander

Expression of Early Fetal Antigens on Transformed Mouse Cells.
Linda R. Gooding

Gene Activation of Molecules with Carcinoembryonic Antigen Determinants in Fetal Development and in Adenocarcinoma of the Colon.
Allyn H. Rule and Mary E. Kirch

A Membrane Antigen Common to Human Cancer and Fetal Brain Tissues.
Reiko F. Irie, Kenji Irie, and Donald L. Morton

The Isolation and Characterization of Tumor-specific Antigens of Rodent and Human Tumors.
D. M. P. Thomson, P. Gold, S. O. Freedman, and J. Shuster

Cell Surface Alterations on Colon Adenocarcinoma Cells.
Barry D. Kahan, Lynne Rutzky, Byron Berlin, Joseph Tomita, Floyd Wiseman, Stephen LeGrue, Hans Noll, and Baldwin H. Tom

Cell Cycle Dependency of Tumor Antigens.
Kenneth H. Burk and Benjamin Drewinko

Biological and Biochemical Properties of Soluble Tumor-specific Transplantation Antigen of a Simian Virus 40-induced Neoplasm.
Ettore Appella, Lloyd W. Law, and Ole Henriksen