CONTENTS†

Asterisks * preceding page numbers refer to studies using human-derived material.

Perspectives in Cancer Research

6977 Oncological Applications of Somatostatin Analogues. Andrew V. Schally.

BASIC SCIENCES

*6986 Characterization of Triptorexin Transport in Human Lymphoblastoid Cells and Development of Impaired Influx as a Mechanism of Resistance to Lipophilic Antifolate. David W. Fry and Judith A. Besserer.

*6992 Preferential Clonogenic Deficit of CD8-positive T-Lymphocytes Infiltrating Human Solid Tumors. Sylvia Miescher, Michael Stocek, Liang Qiao, Catherine Barras, Laurent Barrelet, and Vladimir von Fiedler.

6999 Loss of Growth Factor Dependence and Conversion of Transforming Growth Factor-β1 Inhibition to Stimulation in Metastatic H-ras-transformed Murine Fibroblasts. Lois C. Schwarz, Marie-Claude Gingras, Grant Goldberg, Arnold H. Greenberg, and Jim A. Wright.

7004 Differential Extraction of Tumor-specific Antigens from Two Ultraviolet Light-induced Murine Fibrosarcomas with the Use of 1-Butanol. William J. Simcik, Margaret L. Kripke, Tasi-Ling Sheu, and Stephen J. LeGrue.


7038 Oxidation of Retinol to Retinoic Acid as a Requirement for Biological Activity in Mouse Embryos. Michael J. Conway.


7048 Tumor Progression in Sencar Mouse Skin as a Function of Initiator Dose and Promoter Dose, Duration, and Type. M. Winnann Ewing, Claudio J. Conti, Francis H. Kruszewski, Thomas J. Slaga, and John DiGiovanni.


*7082 M, 85,000 Membrane Protein Specifically Expressed in Adriamycin-resistant Human Tumor Cells. Hirofumi Hamada, Etsuko Okochi, Masahiko Watanabe, Tomoko Oh-hara, Yoshikazu Sugimoto, Hironori Kawabata, and Takashi Tsuruo.

7088 Selective inhibition of Methylbenzylxilatosamine-induced Formation of Esophageal O6-Methylguanine by Dietary Ellagic Acid in Rats. David H. Barch and Colleen C. Fox.


7102 Role of Hypovolemic Hemoconcentration in Dose-dependent Flow Decline Observed in Murine Tumors after Intraperitoneal Administration of Glucose or Mannitol. Peter W. Vaupel and Paul G. Okunieff.


*7115 Consistent Involvement of Only 71 of the 329 Chromosomal Bands of the Human Genome in Primary Neoplasia-associated Rearrangements. Felix Mitelman and Sverre Heim.


7126 Four-Day Duration of Tumor Promoter Exposure Required to Transform JB6 Promotion-sensitive Cells to Anchorage Independence. L. David Dion, Thomas D. Gindhart, and Nancy H. McKenzie.

7132 Differences in the DNA Adducts Formed in Cultured Rabbit and Rat Dermal Fibroblasts by Benzo(a)pyrene and (-)-Benzo(a)-pyrene-7,8-diol. Kroum Alexandrov, Maria Sala, and Margarita Rojas.

† The CONTENTS arranged by Subject Category can be found immediately following these CONTENTS.
A Cell Surface Glycoprotein Expressed by Colorectal Carcinomas Including Poorly Differentiated, Noncancerous Biliary Antigen-Producing Colorectal Tumors. Ronald R. Salem, Barbara C. Wolf, Henry F. Sears, Peter Thomas, Brenda Bollinger, Norman Zamcheck, Calvin A. Saravis, Lan Bo Chen, and Glenn Steele, Jr.


Tissue Distribution and Cellular Location of the Antigens Recognized by Human Monoclonal Antibodies 16.88 and 28A32. James J. Starling, Richard J. Cote, Philip Marder, Michael J. Borowitz, and David A. Johnson.

CLINICAL AND EPIDEMIOLOGICAL INVESTIGATIONS

Personal and Family History of Lung Disease as Risk Factors for Adenocarcinoma of the Lung. Anna H. Wu, Mimi C. Yu, Duncan C. Thomas, Malcolm C. Pike, and Brian E. Henderson.

Comparative Epidemiology of Cancer between the United States and Italy. Carlo La Vecchia, Randall E. Harris, and E. L. Wynder.


Prognostic Factors for Survival in Patients with Recurrent or Metastatic Renal Cell Carcinoma. Paul J. Elson, Robert S. Witte, and Donald L. Trump.


Letter to the Editor


Announcements

Eightieth Annual Meeting of the AACR
AACR Special Conferences in Cancer Research
Future Annual Meetings of the AACR
Collected Perspectives in Cancer Research
Recent Deaths
Calendar of Events

Acknowledgment to Reviewers

Author Index

Revised Statement of Ownership, Management and Circulation

NOTE: AACR forms available in the back of this issue—
• 1989 Employment Register Forms and Instructions
• Application for Associate Membership
• Advance Registration Form for the 80th Annual Meeting
Perspectives in Cancer Research

Oncological Applications of Somatostatin Analogues. Andrew V. Schally.

BASIC SCIENCES

Biochemistry and Biophysics


*7082 M, 85,000 Membrane Protein Specifically Expressed in Adriamycin-resistant Human Tumor Cells. Hirofumi Hamada, Etsuko Okochi, Masahiko Watanabe, Tomoko Oh-hara, Yoshikazu Sugimoto, Hiromi Kawabata, and Takashi Tsuruo.

*7159 Characterization of a Nuclear Antigen (Mr, 150,000) Associated with Cell Proliferation. Amitava Chatterjee, Egon Durban, and Harris Busch.


*7200 Nerve Growth Factor Receptors in Chromatin of Melanoma Cells, Proliferating Melanocytes, and Colorectal Carcinoma Cells in Vitro. Ewa M. Rakowicz-Szulczyńska, Meinhard Herlyn, and Hilary Koprowski.

Carcinogenesis

*7013 Flow Cytometric Analysis of 8-Methoxypsoralen-DNA Photoadducts in Human Keratinocytes. Xiao Yan Yang, Tom Dolohery, and Regina M. Santella.

7038 Oxidation of Retinol to Retinoic Acid as a Requirement for Biological Activity in Mouse Epidermis. Michael J. Connor.

7048 Tumor Progression in Sencar Mouse Skin as a Function of Initiator Dose and Promoter Dose, Duration, and Type. M. Winnann Ewing, Claudio J. Conti, Francis H. Kruszewski, Thomas J. Slaga, and John DiGiovanni.


7088 Selective Inhibition of Methylbenzylnitrosamine-induced Formation of Esophageal O^-Methylguanine by Dietary Ellagic Acid in Rats. David H. Barch and Colleen C. Fox.


7126 Four-Day Duration of Tumor Promoter Exposure Required to Transform JB6 Promotion-sensitive Cells to Anchorage Independence. L. David Dion, Thomas D. Gindhart, and Nancy H. Colburn.

* Indicates studies using human-derived material.

7132 Differences in the DNA Adducts Formed in Cultured Rabbit and Rat Dermal Fibroblasts by Benzo(a)pyrene and (-)Benzo(a)-pyrene-7,8-diol. Kroum Alexandrov, Maria Sala, and Margarita Rojas.


Endocrinology


Immunology

7004 Differential Extraction of Tumor-specific Antigens from Two Ultraviolet Light-induced Murine Fibrosarcomas with the Use of 1-Butanol. William J. Simcik, Margaret L. Kripke, Tasi-Ling Sheu, and Stephen J. LeGrue.


Molecular Biology and Genetics

*6992 Preferential Clonaligenic Deficit of CD8-positive T-Lymphocytes Infiltrating Human Solid Tumors. Sylvia Miescher, Michael Stoeck, Liang Qiao, Catherine Barras, Laurent Barrelet, and Vladimir von Flieden.

Consistent Involvement of Only 71 of the 329 Chromosomal Bands of the Human Genome in Primary Neoplasia-associated Rearrangements. Felix Mitelman and Sverre Heim.

Preclinical Pharmacology and Experimental Therapeutics

Characterization of Trimetrexate Transport in Human Lymphoblastoid Cells and Development of Impaired Influx as a Mechanism of Resistance to Lipophilic Antifolates. David W. Fry and Judith A. Besserer.


Deferoxamine Inhibition of Human Neuroblastoma Viability and Proliferation. David L. Becton and Patty Bryles.

Tumor Biology

Loss of Growth Factor Dependence and Conversion of Transforming Growth Factor-β Inhibition to Stimulation in Metastatic H-ras-transformed Murine Fibroblasts. Lois C. Schwarz, Marie-Claude Gingras, Grant Goldberg, Arnold H. Greenberg, and Jim A. Wright.


Role of Hypovolemic Hemocentration in Dose-dependent Flow Decline Observed in Murine Tumors after Intraportal Administration of Glucose or Mannitol. Peter W. Vaupel and Paul G. Okunieff.


Glucocorticoid-induced Alterations of Morphology and Growth of Fibrosarcoma Cells Derived from 7,12-Dimethylbenz(a)-anthracene Rat Mammary Tumor. Martin Steffen, Ulrich Scherdin, Catharina Duvigneau, and Fritz Hölzel.


Relationship between Heat-Induced Vascular Damage and Thermosensitivity in Four Mouse Tumors. Yasumasa Nishimura, Yuta Shibamoto, Shiken Jo, Keizo Akuta, Masahiro Hiraoka, Masaji Takahashi, and Mitsuyuki Abe.


A Cell Surface Glycoprotein Expressed by Colorectal Carcinomas Including Poorly Differentiated, Noncarcinomaembrionic Antigen-producing Colorectal Tumors. Ronald R. Salem, Barbara C. Wolf, Henry F. Sears, Peter Thomas, Brenda Bollinger, Norman Zamcheck, Calvin A. Saravis, Lan Bo Chen, and Glenn Steele, Jr.


Tissue Distribution and Cellular Location of the Antigens Recognized by Human Monoclonal Antibodies 16.3B and 28A32. James J. Starling, Richard J. Cote, Philip Marder, Michael J. Borowitz, and David A. Johnson.

Virology

Isolation of a New Type of Human Papillomavirus (HPV52b) with a Transforming Activity from Cervical Cancer Tissue. Hajime Yajima, Tetsuo Noda, Ethel-Michele de Villiers, Akira Yajima, Kaichihiro Yamamoto, Kichihiro Noda, and Yoshiaki Ito.

Presence of Human Papillomavirus Type 16 Genome in Bladder Carcinoma in Situ of a Patient with Mild Immunodeficiency. Tadaichi Kitamura, Yoshiaki Yogo, Tetsuo Ueki, Shunichi Murakami, and Yoshio Aso.

Clinical and Epidemiological Investigations


Prognostic Factors for Survival in Patients with Recurrent or Metastatic Renal Cell Carcinoma. Paul J. Elson, Robert S. Witte, and Donald L. Trump.


Epidemiological

Personal and Family History of Lung Disease as Risk Factors for Adenocarcinoma of the Lung. Anna H. Wu, Mimi C. Yu, Duncan C. Thomas, Malcolm C. Pike, and Brian E. Henderson.
Comparative Epidemiology of Cancer between the United States and Italy. Carlo La Vecchia, Randall E. Harris, and E. L. Wynder.

Increasing Incidence of Hepatocellular Carcinoma Possibly Associated with Non-A, Non-B Hepatitis in Japan, Disclosed by Hepatitis B Virus DNA Analysis of Surgically Resected Cases. Michiie Sakamoto, Setsuo Hirohashi, Hitoshi Tsuda, Yoshinori Ino, Yukio Shimosato, Susumu Yamasaki, Masatoshi Makuuchi, Hiroshi Hasegawa, Masaaki Terada, and Yasuhiro Hosoda.
