CONTENTS†

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

Perspectives in Cancer Research

BASIC SCIENCES


2332 Inhibitory Effects of Estrogen and Castration on the Early Stage of Pancreatic Carcinogenesis in Fischer Rats Treated with Azaserine. Chiyi Sumi, Daniel S. Longnecker, B. D. Roebuck, and T. Brinck-Johnsen.


2383 Differential Tumorigenicity of 3T3 Cells Transformed in Vitro with Polyoma Virus and in Vitro Selection for High Tumorigenicity. Eliezer Halachmi and Isaac P. Witz.


2398 Points of Action of Estrogen Antagonists and a Calmodulin Antagonist within the MCF-7 Human Breast Cancer Cell Cycle. Elizabeth A. Musgrove, Alan E. Wakeling, and Robert L. Sutherland.

2405 Down-Regulation of a M, 90,000 Heat Shock Cognate Protein during Granulocyctic Differentiation in HL-60 Human Leukemia Cells. Yuji Yufu, Junji Nishimura, Hiroyuki Takahara, Hiroshi Ideguchi, and Hajime Nawata.

2409 Immunotherapy of Murine Hepatic Metastases with Lymphokine-activated Killer Cells Expanded in Serum-free Media and Recombinant Interleukin 2. Rene Lautreniere, Knut Borkenhagen, Laurette D. Bryant, and Shirley Huchcroft.


2442 Methylazoxoproparazine, the Active Metabolite Responsible for the Anticancer Activity of Procarbazine against L1210 Leukemia. Diane Shomin Swaffar, Michael G. Horstman, John-Yan Jaw, Boyd.


† The CONTENTS arranged by Subject Category can be found immediately following these CONTENTS.


SC-1, a Functional Human Monoclonal Antibody against Auto-logous Stomach Carcinoma Cells. H. Peter Vollmers, Rosemary O'Connor, Justus Müller, Thomas Kirchner, and Hans Konrad Müller-Hermelink.

Effects of Reciprocal Changes of Diets Differing in Fat Content on Pulmonary Metastasis from the 13762 Rat Mammary Tumor. Ellen B. Katz and Elizabeth S. Boylan.

Heparin-binding Growth Factor Gene Expression and Receptor Characteristics in Normal Rat Prostate and Two Transplantable Rat Prostate Tumors. Per-Erik Mansson, Pamela Adams, Mikio Kan, and Wallace L. McKeehan.


CLINICAL AND EPIDEMIOLOGICAL INVESTIGATIONS

Hepatitis B Virus, Aflatoxins, and Hepatocellular Carcinoma in Southern Guangxi, China. Fu-Sun Yeh, Mimi C. Yu, Chi-Chun Mo, Si Luo, Myron J. Tong, and Brian E. Henderson.


NOTE: AACR forms available in the back of this issue—
• Application for Active and Corresponding Membership
• Application for Associate Membership

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

Erratum

Author Index
Cancer Research
VOLUME 49 • NUMBER 9

CONTENTS Arranged by Subject Category

Perspectives in Cancer Research


**BASIC SCIENCES**

**Biochemistry and Biophysics**


**2374** Specific Inhibitors of Tyrosine-specific Protein Kinases: Properties of 4-Hydroxyxanthamidamamide Derivatives in Vitro. Tadayoshi Shiraiishi, M. Koji Owada, Masaaki Tatsuka, Takashi Yamashita, Kiyoshi Watanabe, and Takeo Kakunaga.

**2405** Down-Regulation of a M, 90,000 Heat Shock Cognate Protein during Granulocytic Differentiation in HL-60 Human Leukemia Cells. Yuji Yufu, Junji Nishimura, Hiroiyo Takahira, Hiroshi Ideguchi, and Hajime Nawata.


**2442** Methyloxyprocarbazine, the Active Metabolite Responsible for the Antitumor Activity of Procarbazine against L1210 Leukemia. Diane Shomin Swaffar, Michael G. Horstman, John-Yan Jaw, Brian D. Thrall, Gary G. Meadows, W. Graydon Harker, and Garold S. Yost.

**Carcinogenesis**

**2332** Inhibitory Effects of Estrogen and Castration on the Early Stage of Pancreatic Carcinogenesis in Fischer Rats Treated with Azaserine. Chiyo Sumi, Daniel S. Longnecker, B. D. Roebuck, and T. Brinck-Johnsen.


**Endocrinology**


**Immunology**


**2409** Immunotherapy of Murine Hepatic Metastases with Lymphokine-activated Killer Cells Expanded in Serum-free Media and Reombinant Interleukin 2. Rene Lafreniere, Knut Borkenhagen, Laurette D. Bryant, and Shirley Huchcroft.

**2465** A Novel Marker for Basal (Stem) Cells of Mammalian Stratified Squamous Epithelia and Squamous Cell Carcinomas. John Samuel, Antoine A. Noujaim, David J. Willans, Grazyna S. Brzezinska, Deborah M. Haines, and B. Michael Longenecker.

**Molecular Biology and Genetics**


**Preclinical Pharmacology and Experimental Therapeutics**

**2327** Sensitivity of Human Melanoma Cells to L-Dopa and DL-Buthionine(S,R)-sulfoximine. Eleanor P. W. Kable, Diane Favier, and Peter G. Parsons.

**2351** Stimulation by Localized Tumor Hyperthermia of Reductive Bioactivation of 2-Nitroimidazole Benznidazole in Mice. Michael I. Walton, Norman M. Blechen, and Paul Workman.

**2390** Lack of in Vitro Synergy between Etoposide and cis-Diaminedichloroplatinum(II). Chun-Ming Tsai, Adi F. Gazdar, David J. Venzon, Seth M. Steinberg, Robert L. Dedrick, James L. Mulshine, and Barnett S. Kramer.

* Indicates studies using human-derived material.


Tumor Biology


Differential Tumorigenicity of 3T3 Cells Transformed in Vitro with Polyoma Virus and in Vivo Selection for High Tumorigenicity. Eliezer Halachmi and Isaac P. Witz.

Points of Action of Estrogen Antagonists and a Calmodulin Antagonist within the MCF-7 Human Breast Cancer Cell Cycle. Elizabeth A. Musgrove, Alan E. Wakeling, and Robert L. Sutherland.

SC-1, a Functional Human Monoclonal Antibody against Autologous Stomach Carcinoma Cells. H. Peter Vollmers, Rosemary O'Connor, Justus Müller, Thomas Kirchner, and Hans Konrad Müller-Hermelink.

Effects of Reciprocal Changes of Diets Differing in Fat Content on Pulmonary Metastasis from the 13762 Rat Mammary Tumor. Ellen B. Katz and Elizabeth S. Boylan.

Heparin-binding Growth Factor Gene Expression and Receptor Characteristics in Normal Rat Prostate and Two Transplantable Rat Prostate Tumors. Per-Erik Mannson, Pamela Adams, Mikio Kan, and Wallace L. McKeehan.

Clinical and Epidemiological Investigations


Hepatitis B Virus, Aflatoxins, and Hepatocellular Carcinoma in Southern Guangxi, China. Fu-Sun Yeh, Mimi C. Yu, Chi-Chun Mo, Si Luo, Myron J. Tong, and Brian E. Henderson.

Announcements

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

Erratum


Author Index