CONTENTS†

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

Editorial

1 Message from the New Editor-in-Chief. Carlo M. Croce. Review


BASIC SCIENCES

*10 Establishment of Continuous Cultures of T-Cell Acute Lymphoblastic Leukemia Cells at Diagnosis. Ruth Gjerset, Alice Yu, and Martin Haas.

*15 Dose-dependent Effects of Hydralazine on Microcirculatory Function and Hyperthermic Response of Murine FSAll Tumors. Joachim Kalmus, Paul Okuniety, and Peter Vaupel.

*20 Differentiation of U-937 Histiocytic Lymphoma Cells towards Mature Neutrophilic Granulocytes by Dibutyryl Cyclic Adenosine-3’5’-monophosphate. Debra L. Laskin, Andrew J. Beavis, Andrea A. Sirak, Sean M. O’Connell, and Jeffrey D. Laskin.


*44 Allelic Losses of Chromosomes 9, 11, and 17 in Human Bladder Cancer. Yvonne C. Tsai, Peter W. Nichols, Alan L. Hiti, Zipporia Williams, Donald G. Skinner, and Peter A. Jones.


*78 Preservation of Steroid Hormone Receptors in Organ Cultures of Human Breast Carcinomas. Rafael Mira-y-Lopez and Liliana Osowski.


113 Morphology and Anatomic Localization of Renal Micro-neoplasms and Proximal Tubule Dysplasias Induced by Four Different Estrogens in the Hamster. Stanley Goldfarb and Thomas D. Pugh.


138 Selective Delivery of Boron by the Melanin Precursor Analogue p-Boronophenylalanine to Tumors Other Than Melanoma. Jeffrey A. Codere, John D. Glass, Ralph G. Fairchild, Peggy L. Mieca, Irwin Fand, and Darrel D. Joel.

142 Experimental Induction of Neoplasia in the Accessory Sex Organs of Male Lobund-Wistar Rats. Dennis M. Hoover, Kevin L. Best, Brian K. McKenney, Roy N. Tamura, and Blake L. Neubauer.

† The CONTENTS arranged by Subject Category can be found immediately following these CONTENTS.
**147** Karyometric Marker Features in Normal-appearing Glands Adjacent to Human Colonic Adenocarcinoma. Marluce Bibbo, Fabrizio Michelassi, Peter H. Bartels, Harvey Dytch, Christopher Bania, Enrique Lerma, and Anthony G. Montag.


**159** Enhancement of Monoclonal Antibody Uptake in Human Colon Tumor Xenografts following Irradiation. H. Kalofonos, G. Rowlinson, and A. A. Epenetos.

**164** Cytogenetic Profile of in Vitro Spontaneously Transformed and Chemical Tumor-derived Cell Lines Related to the Mouse Lung Alveologenic Carcinoma. Irit Markus and Garry J. Smith.

**CLINICAL AND EPIDEMIOLOGICAL INVESTIGATIONS**


**197** Relationship between Dihydropyrimidine Dehydrogenase Activity and Plasma 5-Fluorouracil Levels with Evidence for Circadian Variation of Enzyme Activity and Plasma Drug Levels in Cancer Patients Receiving 5-Fluorouracil by Protracted Continuous Infusion. Barry E. Harris, Ruiling Song, Seng-jaw Soong, and Robert B. Diasio.


**211** Announcements

- Eighty-first 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

**212** Errata


**213** Instructions for Authors

**219** Author Index

---

NOTE: AACR forms available in the back of this issue—

- 1990 Employment Register Forms and Instructions
- Application for Associate Membership
- Advance Registration Form for the 81st Annual Meeting
Cancer Research

VOLUME 50 • NUMBER 1

CONTENTS Arranged by Subject Category

Editorial

1 Message from the New Editor-in-Chief. Carlo M. Croce.

Review


BASIC SCIENCES

Biochemistry and Biophysics

*58 Immunoaffinity Purification of Human O'-Alkylguanine-DNA Alkyltransferase Using Newly Developed Monoclonal Antibodies. Thomas P. Brent, Mathew von Wronska, Charles N. Pegram, and Darell D. Bigner.

Carcinogenesis


113 Morphology and Anatomic Localization of Renal Micronoepithelia and Proximal Tubule Dysplasias Induced by Four Different Estrogens in the Hamster. Stanley Goldfarb and Thomas D. Pugh.


164 Cytogenetic Profile of in Vitro Spontaneously Transformed and Chemical Tumor-derived Cell Lines Related to the Mouse Lung Alveologenic Carcinoma. Irit Markus and Garry J. Smith.

Endocrinology


78 Preservation of Steroid Hormone Receptors in Organ Cultures of Human Breast Carcinomas. Rafael Mira-y-Lopez and Liliana Ossowski.

Immunology


*159 Enhancement of Monoclonal Antibody Uptake in Human Colon Tumor Xenografts following Irradiation. H. Kalofonos, G. Rowlinson, and A. A. Epenetos.

Molecular Biology and Genetics

*44 Allelic Losses of Chromosomes 9, 11, and 17 in Human Bladder Cancer. Yvonne C. Tsai, Peter W. Nichols, Alan L. Hiti, Zippora Williams, Donald G. Skinner, and Peter A. Jones.


Preclinical Pharmacology and Experimental Therapeutics

15 Dose-dependent Effects of Hydralazine on Microcirculatory Function and Hyperthermic Response of Murine FSS1 Tumors. Joachim Kalms, Paul Okunieff, and Peter Vaupel.


*138 Selective Delivery of Boron by the Melanin Precursor Analogue p-Boronophenylalanine to Tumors Other Than Melanoma. Jeffrey A. Codere, John D. Glass, Ralph G. Fairchild, Peggy L. Micca, Irwin Fand, and Darrel D. Joel.

Tumor Biology

*10 Establishment of Continuous Cultures of T-Cell Acute Lymphoblastic Leukemia Cells at Diagnosis. Ruth Gjerset, Alice Yu, and Martin Haas.

*20 Differentiation of U-937 Histiocytic Lymphoma Cells towards Mature Neutrophilic Granulocytes by Dibutylryl Cyclic Adenosine-3',5'-monophosphate. Debra L. Laskin, Andrew J. Beavis, Andrea A. Sirak, Sean M. O'Connell, and Jeffrey D. Laskin.


142 Experimental Induction of Neoplasia in the Accessory Sex Organs of Male Lobund-Wistar Rats. Dennis M. Hoover, Kevin L. Best, Brian K. McKenney, Roy N. Tamura, and Blake L. Neubauer.

CLINICAL AND EPIDEMIOLOGICAL INVESTIGATIONS

Clinical


197 Relationship between Dihydroprymidine Dehydrogenase Activity and Plasma 5-Fluorouracil Levels with Evidence for Circadian Variation of Enzyme Activity and Plasma Drug Levels in Cancer Patients Receiving 5-Fluorouracil by Protracted Continuous Infusion. Barry E. Harris, Ruiling Song, Seng-jaw Soong, and Robert B. Diasio.


Epidemiological

