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 F1SAll Tumors. Joachim Kalmus, Paul Okunieff, and Peter Vaupehl.

*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 S. Sirak, Sean M. O'Connell, and Jeffrey D. Laskin.


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


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. Micca, 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.


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
A. Eighty-first Annual Meeting of the AACR
B. AACR Special Conferences in Cancer Research
C. Future Annual Meetings of the AACR
D. Collected Perspectives in Cancer Research
E. Recent Deaths
F. 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

Carcinogenesis

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.


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, Zipporah Williams, Donald G. Skinner, and Peter A. Jones.


*67 Growth Properties and Tumorigenesis of MCF-7 Cells Transfected with Isogenic Mutants of ras". Connie L. Sommers, Alex Papageorge, George Wilding, and Edward P. Gelmann.


Preclinical Pharmacology and Experimental Therapeutics

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


*138 Selective Delivery of Boron by the Melanin Precursor Analogue p-Boronophenylalanine to Tumors Other Than Melanoma. Jeffrey A. Codriner, 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 Histioytic 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.

* Indicates studies using human-derived material.


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 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, Rueling Song, Seng-jaw Soong, and Robert B. Diasio.


Epidemiological


* * *

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