CONTENTS†

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

3301 Editorial. P. N. Magee
Perspectives in Cancer Research


BASIC SCIENCES

*3307 Effects of Inhibitors of Plasminogen Activator, Serine Proteases, and Collagenase IV on the Invasion of Basement Membranes by Metastatic Cells. Renuei Reich, Erik W. Thompson, Yukihide Iwamato, George R. Martin, James R. Deason, George C. Fuller, and Ruth Minkin.

3313 Inhibition by Dietary Ethanol of Experimental Colonic Carcinogenesis Induced by High-Dose Azoxy methane in F344 Rats. Stanley R. Hamilton, Ock Soon Sohn, and Emerich S. Fiala.

*3319 Increased Growth Inhibition and DNA Lesions in Human Colon Adenocarcinoma Cells Treated with Methotrexate or 5-Fluorodeoxyuridine followed by Calmodulin Inhibitors. Ulf Lönn and Sigrid Lönn.

*3324 Role of Protein Kinase C in Phosphorylation of Vinculin in Al lant. C. Fuller, and Ruth M. Miskin.

*3325 Induction of Sister Chromatid Exchanges and Chromosomal Aberrations by Busulfan in Philadelphia Chromosome-positive Chronic Myeloid Leukemia and Normal Bone Marrow. Reinhard Bercher and Gabriele Prescher.

*3330 Zinc Metabolism in Ehrlich Cells: Properties of a Metallothionein-like Zinc-binding Protein. Alan J. Kraker, Glenn Krakower, C. Frank Shaw III, David H. Petering, and Justine S. Garvey.


3347 Motility and Tumorcidal Activity of Interleukin-2-stimulated Lymphocytes. Stuart Ratner and Gloria H. Heppner.

3350 Invasiveness in Hepatocyte and Fibroblast Monolayers and Metastatic Potential of T-Cell Hybridomas in Mice. Geertje la Rivière, Cor A. Schipper, John G. Collard, and Ed Roos.

3355 cis-Diamminedichloroplatinum(II)-resistant Sublines Derived from Two Human Ovarian Tumor Cell Lines. Peter J. K. Kuppen, Hanneke Schuitemaker, Laura J. van’t Veer, Anna E. de Bruijn, Allan T. van Oosterom, and Peter I. Glazer.


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


3478 Site-specific Metastasis of Mouse Melanomas and a Fibrosarcoma in the Brain or Meninges of Syngeneic Animals. Gabriele Schackert and Isaiah J. Fidler.


3502 Hormonal Regulation of CA125 Tumor Marker Expression in Human Ovarian Carcinoma Cells: Inhibition by Glucocorticoids. Beth Y. Karlan, Waheeda Amin, Scott E. Casper, and Bruce A. Littlefield.

3507 Fibrin-Fibronectin Compounds in Human Ovarian Tumor Ascites and Their Possible Relation to the Tumor Stroma. Olaf Wilhelm, Reimar Hafer, Eva Coppenrath, MaryAnn Pflanz, Manfred Schmitt, Rudolf Babic, Reinhold Linkz, Wolfgang Gössner, and Henner Graeff.

CLINICAL AND EPIDEMIOLOGICAL INVESTIGATIONS


3515 Prediagnostic Serum Hormones and the Risk of Prostate Cancer. Abraham Nomura, Lance K. Heilbrun, Grant N. Stemmermann, and Howard L. Judd.


3544 Rare Events as Clues to Cancer Etiology: The Eighteenth Annual Symposium of the Princess Takamatsu Cancer Research Fund. Robert W. Miller.

3549 Announcements

Exciting Programs Scheduled for AACR’s New Series of Meetings

Future Annual Meetings of the AACR

Collected Perspectives

Calendar of Events

3550 Erratum


3551 Author Index

NOTE: Application for membership in the American Association for Cancer Research available in the back of this issue.
Cancer Research
VOLUME 48 • NUMBER 12

CONTENTS Arranged by Subject Category

Editorial. P. N. Magee.
Perspectives in Cancer Research


BASIC SCIENCES

Biochemistry and Biophysics

Role of Protein Kinase C in Phosphorylation of Vinculin in Adriamycin-resistant HL-60 Leukemia Cells. Angelo Aquino, Kathleen D. Hartman, Marian C. Knode, Steven Grant, Kuo-Ping Huang, Chien-Hua Niu, and Robert I. Glazer.


Zinc Metabolism in Ehrlich Cells: Properties of a Metallothionein-like Zinc-binding Protein. Alan J. Kraker, Glenn Krakower, C. Frank Shaw III, David H. Petering, and Justine S. Garvey.


Fibrin-Fibronectin Compounds in Human Ovarian Tumor Ascites and Their Possible Relation to the Tumor Stroma. Olaf Wilhelm, Marline Bunni, Marion T. Doig, Henry Donato, V. Kesavan, and David G. Priest.

Inhibition by Dietary Ethanol of Experimental Colon Carcinogenesis Induced by High-Dose Azoxy methane in F344 Rats. Stanley R. Hamilton, Ock Soon Sohn, and Emeric S. Fiala.


Metabolism of the Z and E Isomers of N-Nitroso-N-methyl-(2-oxopropyl)amine by Rat Hepatocytes. James G. Farrelly, Mary L. Stewart, David W. Farnsworth, and Joseph E. Saavedra.

Cytidine 5'-Triphosphate-dependent Dolichol Kinase and Dolichol Phosphatase Activities and Levels of Dolichyl Phosphate in Microsomal Fractions from Highly Differen tiated Human Hepatomas. Ivan Eggen, Johan Ericsson, and Orjan Tollbohm.


Immunology


Motility and Tumorcidal Activity of Interleukin-2-stimulated Lymphocytes. Stuart Ratner and Gloria H. Hoppner.


Molecular Biology and Genetics


Preclinical Pharmacology and Experimental Therapeutics

Increased Growth Inhibition and DNA Lesions in Human Colon Adenocarcinoma Cells Treated with Methotrexate or 5-Fluorodeoxyuridine followed by Calmodulin Inhibitors. Ulf Lönö and Sigrid Lönö.

Modification of Photodynamic Therapy-induced Hypoxia by Flusol-DA (20%) and Carbogen Breathing in Mice. Victor H. Fingar, Thomas S. Mang, and Barbara W. Henderson.


Tumor Biology

Effects of Inhibitors of Plasminogen Activator, Serine Proteases, and Collagenase IV on the Invasion of Basement Membranes by Metastatic Cells. Reuven Reich, Erik W. Thompson, Yukihide Iwamoto, George R. Martin, James R. Deason, George C. Fuller, and Ruth Miskin.

Polyamine Metabolism and Interconversion in NIH 3T3 and ras-transfected NIH 3T3 Cells. Rajabu Pakala, Miriam Kreisel, and Uriel Bachrach.

cis-Diaminedichloroplatinum(II)-resistant Sublines Derived from Two Human Ovarian Tumor Cell Lines. Peter J. K. Kuppen, Hanneke Schuitemaker, Laura J. van't Veer, Ernst A. de Bruijn, Allan T. van Oosterom, and Peter I. Schrier.
3405 Invasiveness in Hepatocyte and Fibroblast Monolayers and Metastatic Potential of T-Cell Hybridomas in Mice. Geertje la Rivière, Cor A. Schipper, John G. Collard, and Ed Roos.

3411 Flow Cytometric Analysis of DNA Ploidy in Canine Mammary Tumors. Gerard R. Rutteman, Cees J. Cornelisse, Nel J. Dijkshoorn, Jan Poortman, and Wim Misdorp.


*3435 Induction of Sister Chromatid Exchanges and Chromosomal aberrations by Busulfan in Philadelphia Chromosome-positive Chronic Myeloid Leukemia and Normal Bone Marrow. Reinhard Becher and Gabriele Prescher.


3478 Site-specific Metastasis of Mouse Melanomas and a Fibrosarcoma in the Brain or Meninges of Syngeneic Animals. Gabriele Shackert and Isaiah J. Fidler.

*3502 Hormonal Regulation of CA125 Tumor Marker Expression in Human Ovarian Carcinoma Cells: Inhibition by Glucocorticoids. Beth Y. Karlan, Waheeda Amin, Scott E. Casper, and Bruce A. Littlefield.

CLINICAL AND EPIDEMIOLOGICAL INVESTIGATIONS

Clinical


NOTE: Application for membership in the American Association for Cancer Research available in the back of this issue.