



## CONTENTS

### Advances in Brief

---

- 3449 Elk-1 Proteins Are Phosphoproteins and Activators of Mitogen-activated Protein Kinase.** Veena N. Rao and E. Shyam P. Reddy.
- 3455 Immunobead-PCR: A Technique for the Detection of Circulating Tumor Cells Using Immunomagnetic Beads and the Polymerase Chain Reaction.** Jennifer E. Hardingham, Dusan Kotasek, Belinda Farmer, Ross N. Butler, Jing-Xian Mi, Robert E. Sage, and Alexander Dobrovic.
- 3459 Multimeric Forms of Tyr-Ile-Gly-Ser-Arg (YIGSR) Peptide Enhance the Inhibition of Tumor Growth and Metastasis.** Motoyoshi Nomizu, Keizo Yamamura, Hynda K. Kleinman, and Yoshihiko Yamada.
- 3462 Canventol Inhibits Tumor Promotion in CD-1 Mouse Skin through Inhibition of Tumor Necrosis Factor  $\alpha$  Release and of Protein Isoprenylation.** Atsumasa Komori, Masami Suganuma, Sachiko Okabe, Xianglong Zou, Marcus A. Tius, and Hirota Fujiki.
- 3465 Accumulation of Wild Type p53 Protein in Human Astrocytomas.** Mari-Paz Rubio, Andreas von Deimling, David W. Yandell, Otmar D. Wiestler, James F. Gusella, and David N. Louis.
- 3468 Analysis of the Anti-p53 Antibody Response in Cancer Patients.** Sylvie Labrecque, Naftaly Naor, David Thomson, and Greg Matlashewski.
- 3472 Transcriptional Control of Estrogen Receptor in Estrogen Receptor-negative Breast Carcinoma.** Ronald J. Weigel and Ellen C. deConinck.

### Perspectives in Cancer Research

---

- 3475 Gap Junction Function and Cancer.** James W. Holder, Eugene Elmore, and J. Carl Barrett.

### Regular Articles

---

#### *Carcinogenesis*

- 3486 Polycyclic Aromatic Hydrocarbon-DNA Adducts in Human Lung and Cancer Susceptibility Genes.** P. G. Shields, E. D. Bowman, A. M. Harrington, V. T. Doan, and A. Weston.
- 3493 Chemoprevention of Colon Carcinogenesis by Organosulfur Compounds.** Bandaru S. Reddy, Chinthalapally V. Rao, Abraham Rivenson, and Gary Kelloff.
- 3499 Transient Intervention with Oltipraz Protects against Aflatoxin-induced Hepatic Tumorigenesis.** Mary G. Bolton, Alvaro Muñoz, Lisa P. Jacobson, John D. Groopman, Yulia Y. Maxuitenko, B. D. Roebuck, and Thomas W. Kensler.
- 3505 Induction of Cell Proliferation in the Forestomach of F344 Rats Following Subchronic Administration of Styrene 7,8-Oxide and**

**Butylated Hydroxyanisole.** Sergio Cantoreggi, Daniel R. Dietrich, and Werner K. Lutz.

#### *Clinical Investigations*

- 3509 Phase I Trial of Cyclophosphamide, Doxorubicin, and 5-Fluorouracil plus Interferon- $\alpha$ 2b in Patients with Advanced Breast Cancer.** Joseph A. Sparano, Scott Wadler, Leonard Liebes, Nicholas J. Robert, Edward L. Schwartz, and Janice P. Dutcher.

#### *Endocrinology*

- 3513 Glucocorticoid Receptor Expression during Differentiation of Human Promyelocytic Leukemia Cells.** Matthias Zeiner and Ulrich Gehring.

#### *Experimental Therapeutics*

- 3518 Potentiation of a Three Drug Chemotherapy Regimen by Radiation.** Jason A. Koutcher, Alan A. Alfieri, Robert L. Stolfi, Mary L. Devitt, Joseph R. Colofiore, L. Dee Nord, and Daniel S. Martin.
- 3524  $^{186}\text{Re}$ -labeled Monoclonal Antibody E48 Immunoglobulin G-mediated Therapy of Human Head and Neck Squamous Cell Carcinoma Xenografts.** Martijn Gerretsen, Gerard W. M. Visser, Marijke van Walsum, Chris J. L. M. Meijer, Gordon B. Snow, and Guus A. M. S. van Dongen.
- 3530 Increased Expression of Cytosolic Glutathione S-Transferases in Drug-resistant L5178Y Murine Lymphoblasts: Chemical Selectivity and Molecular Mechanisms.** Gerald L. Stelmack and Gerald J. Goldenberg.
- 3536 Human Pharmacokinetics of a New *Vinca* Alkaloid S 12363 with Use of a Monoclonal Antibody-based Radio- or Enzyme Immunoassay.** E. Lelievre, J. Guillaudeux, H. Cardona, A. Bourguignat, F. Lokiec, P. Solere, C. Lucas, and C. Sauveur.
- 3541 Main Drug-metabolizing Enzyme Systems in Human Breast Tumors and Peritumoral Tissues.** Nicolas Albin, Liliane Massaad, Caroline Toussaint, Marie-Christine Mathieu, Jackie Morizet, Orlando Parise, Alain Gouyette, and Guy G. Chabot.
- 3547 Dissociation between Bulk Damage to DNA and the Antiproliferative Activity of Teniposide (VM-26) in the MCF-7 Breast Tumor Cell Line: Evidence for Induction of Gene-specific Damage and Alterations in Gene Expression.** David A. Gewirtz, Michael S. Orr, Frank A. Fornari, Joyce K. Randolph, Jack C. Yalowich, Mary K. Ritke, Lawrence F. Povirk, and Roderick T. Bunch.

#### *Immunology*

- 3555 Interleukin 2 Protects Hairy Leukemic Cells from Lymphokine-activated Killer Cell-mediated Cytotoxicity.** Zvi Reiter and Milton W. Taylor.
- 3561 Enhanced Expression of HLA Molecules and Stimulation of Autologous Human Tumor Infiltrating Lymphocytes Following Transduction of Melanoma Cells with  $\gamma$ -Interferon Genes.** Masahiro Ogasawara and Steven A. Rosenberg.

- 3569 Evidence for *in Situ* Amplification of Cytotoxic T-Lymphocytes with Antitumor Activity in a Human Regressive Melanoma.** Andreas Mackensen, Laurent Ferradini, Guislaine Carcelain, Frederic Triebel, Florence Faure, Sophie Viel, and Thierry Hercend.

### ***Molecular Biology and Genetics***

- 3574 Mutations of the p53 Gene Do Not Occur in Testis Cancer.** Hong-Qi Peng, David Hogg, David Malkin, Denis Bailey, Brenda L. Gallie, Mohammed Bulbul, Michael Jewett, Janet Buchanan, and Paul E. Goss.
- 3579 Elevated Levels of Transforming Growth Factor  $\alpha$  and Epidermal Growth Factor Receptor Messenger RNA Are Early Markers of Carcinogenesis in Head and Neck Cancer.** Jennifer Rubin Grandis and David J. Tweardy.
- 3585 Reduction of E-Cadherin Levels and Deletion of the  $\alpha$ -Catenin Gene in Human Prostate Cancer Cells.** Ronald A. Morton, Charles M. Ewing, Akira Nagafuchi, Shoichiro Tsukita, and William B. Isaacs.
- 3591 Use of Yeast in the Study of Anticancer Drugs Targeting DNA Topoisomerases: Expression of a Functional Recombinant Human DNA Topoisomerase II $\alpha$  in Yeast.** Robin A. Wasserman, Caroline A. Austin, L. Mark Fisher, and James C. Wang.

### ***Tumor Biology***

- 3597 Amphiregulin, Epidermal Growth Factor Receptor, and Estrogen Receptor Expression in Human Primary Breast Cancer** Susan LeJeune, Russell Leek, Elizabeth Horak, Gregory Plowman, Michael Greenall, and Adrian L. Harris
- 3603 Biological Properties and Growth in SCID Mice of a New Myelogenous Leukemia Cell Line (KBM-5) Derived from Chronic**

**Myelogenous Leukemia Cells in the Blastic Phase.** Miloslav Beran, Pavel Pisa, Susan O'Brien, Razelle Kurzrock, Michael Siciliano, Ann Cork, Borje S. Andersson, Vipin Kohli, and Hagop Kantarjian.

- 3611 The Integrin  $\alpha_6\beta_4$  on TA3/Ha Mammary Carcinoma Cells Is Involved in Adhesion to Hepatocytes.** Hans Kemperman, Yvonne Wijnands, Diana de Rijk, and Ed Roos.
- 3618 Stimulation of Urokinase-type Plasminogen Activator Expression by Blockage of E-Cadherin-dependent Cell-Cell Adhesion.** Uwe H. Frixen and Yoshikuni Nagamine.
- 3624 Transfection of Human Astrocytoma Cells with Glial Fibrillary Acidic Protein Complementary DNA: Analysis of Expression, Proliferation, and Tumorigenicity.** James T. Rutka and Sherri Lynn Smith.
- 3632 Increased Expression of Sialyl Lewis<sup>x</sup> Antigen Correlates with Poor Survival in Patients with Colorectal Carcinoma: Clinicopathological and Immunohistochemical Study.** Shoji Nakamori, Masao Kameyama, Shingi Imaoka, Hiroshi Furukawa, Osamu Ishikawa, Yo Sasaki, Toshiyuki Kabuto, Takeshi Iwanaga, Yoshifumi Matsushita, and Tatsuro Irimura.
- 3638 Transforming Growth Factor- $\beta$ 1 Interferes with the Proliferation-inducing Activity of Stem Cell Factor in Myelogenous Leukemia Blasts through Functional Down-regulation of the *c-kit* Proto-oncogene Product.** Sven de Vos, Marion A. Brach, Yoshinobu Asano, Wolf-Dieter Ludwig, Peter Bettelheim, Hans-Jürgen Gruss, and Friedhelm Herrmann.
- 3643 Subcellular Localization of Blood Group Le<sup>b</sup> Carbohydrate Antigen (MSN-1-reactive Antigen) in Endometrial Cancer Cells.** Nobuyuki Susumu, Hayato Kawakami, Daisuke Aoki, Hiroshi Hirano, and Shiro Nozawa.

### **3649 Announcements**

New Schedule for Annual Meetings of the  
AACR Beginning in 1994  
New Privileges and Responsibilities of  
Corresponding Membership  
Broadening of Associate Membership  
Call for Nominations for Association  
Awards  
Call for Nominations for Honorary  
Membership  
Call for Suggestions for Association  
Officers and Directors  
AACR Special Conferences in Cancer  
Research  
Recent Death  
Calendar of Events

**AACR forms available in the back  
of this issue:**

**Application for Active and  
Corresponding Membership**

**Application for Associate  
Membership**

**Also available in the back  
of this issue:**

**Guidelines for Submitting Disks to  
AACR Publications**

### **3652 Errata**

L. Wang *et al.*, 53: 717-720, 1993.  
D. M. Skrincosky *et al.*, 53: 2667-2675,  
1993.  
B. Davies *et al.*, 53: 2087-2091, 1993.

### **3653 Author Index**