**CONTENTS**

**Advances in Brief**


9. **MCF-10A Cells Infected with the int-2 Oncogene Induce Angiogenesis in the Chick Chorioallantoic Membrane and in the Rat Mesentery.** Mario Costa, Romano Danesi, Cristina Agen, Antonello Di Paolo, Fulvio Basolo, Silvia Del Bianchi, and Mario Del Tacc.

12. **X-Irradiation, Phorbol Esters, and H2O2 Stimulate Mitogen-activated Protein Kinase Activity in NIH-3T3 Cells through the Formation of Reactive Oxygen Intermediates.** Mary Ann Stevenson, Stephanie Sue Pollock, C. Norman Coleman, and Stuart K. Calderwood.


21. **Potent Mammary Carcinogenicity in Female CD Rats of a Fijord Region DioI-Epoxyd of Benzo(l)phenanthrene Compared to a Bay Region DioI-Epoxyd of Benzo(a)pyrene.** Stephen S. Hecht, Karam El-Bayoumy, Abraham Rivenson, and Shantu Amin.

25. **Progression of Basal Cell Carcinoma through Loss of Chromosome 9q and Inactivation of a Single p53 Allele.** Peter van der Riet, Debra Karp, Evam Farmer, Qingyi Wei, Lawrence Grossman, Kaori Tokino, J. Michael Ruppert, and David Sidransky.


41. **Alterations of (CA)n DNA Repeats and Tumor Suppressor Genes in Human Gastric Cancer.** Nikolai M. Mironov, M. Anne-Marie Aguelon, Galina I. Potapova, Yasufumi Omori, Oleg V. Gorbunov, Anatoliy A. Klimenko, and Hiroshi Yamashiki.


**Regular Articles**

**Biochemistry and Biophysics**


55. **Decrease of Fucosylated Serum Cholinesterase in Relation to High Risk Groups for Hepatocellular Carcinomas.** Takashi Ohkura, Toshikazu Hada, Kazuya Higashino, Toru Ohue, Naohisa Kojibe, Norio Koida, and Katsuko Yamashita.


69. **Effect of Tumoxifen on Carbamol-triggered Intracellular Calcium Responses in Chicken Granulosa Cells.** Paul Morley and James F. Whitfield.

75. **Inhibition of Microtubules and Cell Cycle Arrest by a New 1-Deaza-7,8-dihydropyridine Antitumor Drug, C1 980, and by Its Chiral Isomer, C1 980A, Conception de Ines, Daniel Neylandery, Isabel Barasoa in, Vincent Peyrot, Patrick Garcia, Claudette Briand, Gregory A. Rener, and Carroll Temple, Jr.**

85. **Tn Antigen Is Expressed on Leukosialin from T-Lymphoid Cells.** Mizue Inoue, Hiroshi Nakada, Nobuhiko Tanaka, and Ikua Yamashina.

**Carcinogenesis**

89. **CYP1A2-catalyzed Conversion of Dietary Heterocyclic Amines to Their Proximate Carcinogens Is Their Major Route of Metabolism in Humans.** Alan R. Boobis, Anthony M. Lyn, Stephen Murray, Rafael de la Torre, Anna Solans, Magí Farré, Jorde Segura, Nigel J. Gooderham, and Donald S. Davies.

95. **Mechanism of the Antiproliferative Effect of Milk Mineral and Other Calcium Supplements on Colon Epithelium.** Mirjam A. P. Goers, Denise S. M. L. Ternmont, and Roelof Van der Meer.


**Clinical Investigations**

109. **Clinical Pharmacology of 1-β-α-Arabinofuranosylcytosine-5'-stearlyphosphate, an Orally Administered Long-Acting Derivative of Low-Dose 1-β-α-Arabinofuranosylcytosine.** Takamori Ueda, Ken-ichi Kamiya, Yoshimasa Urasaki, Sugako Wataya, Yasukazu Kawai, Hiroshi Tsutani, Masatoshi Sugiyama, and Toru Nakamura.

Identification, Characterization, and Biological Activity of Soma-
lotostatin Receptors in Human Neuroblastoma Cell Lines. Mario Maggi, Elisabetta Baldi, Giovanna Finetti, Francesco Franceschelli, Alessandro Brocchi, Rosvana Lanzillotti, Mario Serio, Maria Gabriella Camboni, and Carol J. Thiele.


Inhibitory Effects of Somatostatin Analogue RC-160 and Bombe-

Ongoing Activity of RNA Polymerase II Confers Preferential Re-


Immunology


Comparison of Two Antibody-based Methods for Elimination of Breast Cancer Cells from Human Bone Marrow. Arne T. Myklebust, Aslak Godal, Siri Juell, Anne Pharo, and Øystein Fodstad.

Molecular Biology and Genetics

Low Incidence of Point Mutations Detected in the p53 Tumor Suppressor Gene from Chemically Induced Rat Renal Mesenchymal Tumors. Christopher M. Weghorst, Konstantin H. Dragnev, Gregory S. Buzard, Kerri L. Thorne, Gary F. Vandeborne, Kimberly A. Vincent, and Jerry M. Rice.

Developmentally Regulated Expression of Two Novel Platelet-de-
dived Growth Factor α-Receptor Transcripts in Human Teratocarci-


p53 Gene Abnormalities Are Closely Related to Hepatoviral Infections and Occur at a Late Stage of Hepatocarcinogenesis. Tadahisa Teramoto, Kazuhiro Satonaka, Sohei Kitazawa, Takahiro Fujimori, Kozaburo Hayashi, and Sakan Maeda.

Telomere Shortening in Renal Cell Carcinoma. Christer Mehl, Börje Ljungberg, and Göran Roos.

Retinoblastoma Protein Expression Is Frequently Altered in Chronic Lymphocytic Leukemia. Steven M. Kornblau, Nancy Chen, Auro del Giglio, Susan O’Brien, and Albert B. Deisseroth.


Tumor Biology

Subcellular Localization of the bcl-2 Protein in Malignant and Normal Lymphoid Cells. Daphne de Jong, Frans A. Prins, David Y. Mason, John C. Reed, Gertjan B. van Ommen, and Philip M. Kluin.

Role of Activated Protein C in Facilitating Basement Membrane Invasion by Tumor Cells. Hiroshi Kobayashi, Nobuhiko Moniwa, Junko Gotoh, Motoi Sugimura, and Toshikihoro Terao.


Complementary DNA Cloning and Characterization of Truncated Form of c-kit in Human Colon Carcinoma Cells. Minoru Toyota, Yuji Itoh, Fumio Itoh, Akinori Takaoka, Kozoh Imai, and Akira Yachi.

Meeting Reports


291 E-Cadherin and α-Catenin Expression in Human Esophageal Cancer. Takatoshi Kadowaki, Hitoshi Shiozaki, Masatoshi Inoue, Shigeyuki Tamura, Hiroshi Oka, Yuichiro Doki, Keisuke Ihara, Shigeo Matsui, Takashi Iwazawa, Akira Nagafuchi, Shoichiro Tsukita, and Takesada Mori.


Letter to the Editor


Announcements

New Schedule for Annual Meetings of AACR Beginning in 1994
New Privileges and Responsibilities of Corresponding Membership
Broadening of Associate Membership
AACR Special Conferences in Cancer Research
Recent Deaths
Calendar of Events

Instructions for Authors

Available in the back of this issue:
Employment Register Forms and Instructions
New Guidelines and Application Forms for AACR Membership

Also available in the back of this issue:
Advance Registration Form for the 85th Annual Meeting
Guidelines for Submitting Disks to AACR Publications

Author Index