



CONTENTS

Advances in Brief

- 2007 **Insulin-like Growth Factor I Overexpression in Human Pancreatic Cancer: Evidence for Autocrine and Paracrine Roles.** Uwe Bergmann, Hitoshi Funatomi, Munehiro Yokoyama, Hans G. Beger, and Murray Korc.
- 2012 **Noninvasive Detection of Elevated Glutathione Levels in MCF-7 Cells Resistant to 4-Hydroperoxycyclophosphamide.** Michael P. Gamcsik, Kevin K. Millis, and O. Michael Colvin.
- 2017 **Acetylation Polymorphism and Prevalence of Colorectal Adenomas.** Nicole M. Probst-Hensch, Robert W. Haile, Sue Ann Ingles, Matthew P. Longnecker, Chun-Ya Han, Bruce K. Lin, David B. Lee, Gordon T. Sakamoto, Harold D. Frankl, Eric R. Lee, and Henry J. Lin.
- 2021 **Metallothionein Null Cells Have Increased Sensitivity to Anti-cancer Drugs.** Yukihiro Kondo, Elizabeth S. Woo, Anna E. Michalska, K. H. Andy Choo, and John S. Lazo.
- 2024 **Neoplastic Reversion Accomplished by High Efficiency Adenoviral-mediated Delivery of an Anti-ras Ribozyme.** M. Feng, G. Cabrera, Jessy Deshane, Kevin J. Scanlon, and David T. Curiel.
- 2029 **Identification of a Sister Gene to P-Glycoprotein.** Sarah Childs, Richard Lin Yeh, Elias Georges, and Victor Ling.
- 2035 **Adenomatous Polyposis Coli Gene Mutations in Ulcerative Colitis-associated Dysplasias and Cancers versus Sporadic Colon Neoplasms.** Lila Tarmin, Jing Yin, Noam Harpaz, Marc Kozam, Jeroen Noordzij, Lilian B. Antonio, Hai-Yan Jiang, Olivia Chan, Karina Cymes, and Stephen J. Meltzer.
- 2039 **p16 Gene Alterations in Nasopharyngeal Carcinoma.** Kwok-Wai Lo, Dolly P. Huang, and Kin-Mang Lau.
- 2044 **Frequent Homozygous Deletions of D13S218 on 13q14 in B-Cell Chronic Lymphocytic Leukemia Independent of Disease Stage and Retinoblastoma Gene Inactivation.** Elizabeth W. Newcomb, Anju Thomas, Alexander Selkirk, Seung Y. Lee, and Milan Potmesil.
- 2048 **Ret Gene Silencing Is Associated with Raf-1-induced Medullary Thyroid Carcinoma Cell Differentiation.** Eleanor B. Carson, Martin McMahon, Stephen B. Baylin, and Barry D. Nelkin.
- 2053 **No CDKN2 Mutations in Neuroblastomas.** Christian P. Beltinger, Peter S. White, Erik P. Sulman, John M. Maris, and Garrett M. Brodeur.

Regular Articles

Biochemistry and Biophysics

- 2056 **Transforming Growth Factor β Isoform-specific Differences in Interactions with Type I and II Transforming Growth Factor β Receptors.** Guo-Hao K. Zhou, Gwendolyn L. Sechrist, Sumudra Periyasamy, Michael G. Brattain, and Kathleen M. Mulder.
- 2063 **Photosensitization by 3,3'-Dihexyloxycarbocyanine Iodide: Specific Disruption of Microtubules and Inactivation of Organelle Motility.** Christopher Lee, Samuel S. Wu, and Lan Bo Chen.

Carcinogenesis

- 2070 **Ultraviolet Radiation Induction of Squamous Cell Carcinomas in p53 Transgenic Mice.** Gang Li, Vincent C. Ho, Ken Berean, and Victor A. Tron.
- 2075 **Radiation-induced G₁ Arrest Is Selectively Mediated by the p53-WAF1/Cip1 Pathway in Human Thyroid Cells.** Hiroyuki Namba, Takeshi Hara, Tomoo Tukazaki, Kiyoshi Migita, Naofumi Ishikawa, Kunihiko Ito, Shigenobu Nagataki, and Shunichi Yamashita.
- 2081 **Inhibition of N-Methyl-N'-nitro-N-nitrosoguanidine-induced Carcinogenesis by (-)-Epigallocatechin Gallate in the Rat Glandular Stomach.** Tetsuro Yamane, Toshio Takahashi, Katsuya Kuwata, Kazuhiko Oya, Masao Inagake, Yoshitaka Kitao, Masami Suganuma, and Hirota Fujiki.
- 2085 **Induction of c-fos and c-jun Proto-oncogene Expression by Asbestos Is Ameliorated by N-Acetyl-L-Cysteine in Mesothelial Cells.** Yvonne M. W. Janssen, Nicholas H. Heintz, and Brooke T. Mossman.

Clinical Investigations

- 2090 **Phase I Clinical and Pharmacokinetic Study of 3'-Deamino-3'-(2-methoxy-4-morpholinyl)doxorubicin (FCE 23762).** Paul A. Vasey, Donald Bissett, Margherita Strolin-Benedetti, Italo Poggese, Massimo Breda, Lynn Adams, Peter Wilson, Maria A. Pacciarini, Stan B. Kaye, and Jim Cassidy.
- 2097 **Analysis of Topoisomerase I/DNA Complexes in Patients Administered Topotecan.** Deepa Subramanian, Eric Kraut, Albert Staubus, Donn C. Young, and Mark T. Muller.
- 2104 **Prostate-specific Antigen Is a New Favorable Prognostic Indicator for Women with Breast Cancer.** He Yu, Maurizia Giai, Eleftherios P. Diamandis, Dionyssios Katsaros, Donald J. A. Sutherland, Michael A. Levesque, Riccardo Roagna, Riccardo Ponzoni, and Piero Sismondi.

Epidemiology

- 2111 **Infection with Helicobacter pylori Strains Possessing cagA Is Associated with an Increased Risk of Developing Adenocarcinoma of the Stomach.** Martin J. Blaser, Guillermo I. Perez-Perez, Harry Kleanthous, Timothy L. Cover, Richard M. Peek, P. H. Chyou, Grant N. Stemmermann, and Abraham Nomura.

Experimental Therapeutics

- 2116 **Topoisomerase I-related Parameters and Camptothecin Activity in the Colon Carcinoma Cell Lines from the National Cancer Institute Anticancer Screen.** François Goldwasser, Insoo Bae, Monica Valenti, Keila Torres, and Yves Pommier.
- 2122 **Drug-induced Apoptosis Is Not Necessarily Dependent on Macromolecular Synthesis or Proliferation in the p53-negative Human Prostate Cancer Cell Line PC-3.** Markus M. Borner, Charles E. Myers, Oliver Sartor, Yoshitatsu Sei, Toshiyuki Toko, Jane B. Trepel, and Erasmus Schneider.
- 2129 **Cytoplasmic Localization of a Mutant M_r 160,000 Topoisomerase II α Is Associated with the Loss of Putative Bipartite Nuclear Localization Signals in a Drug-resistant Human Lung Cancer Cell Line.** Shelagh E. L. Mirski and Susan P. C. Cole.

- 2135 **Effects of Retinoic Acid and γ -Interferon on Expression of Retinoic Acid Receptor and Cellular Retinoic Acid-binding Protein in Breast Cancer Cells.** Martin Widschwendter, Günter Daxenbichler, Otto Dapunt, and Christian Marth.
- 2177 **Spreading and Focal Contact Formation of Human Melanoma Cells in Response to the Stimulation of Both Melanoma-associated Proteoglycan (NG2) and α 4 β 1 Integrin.** Joji Iida, Alexandra M. L. Meijne, Robert C. Spiro, Ed Roos, Leo T. Furcht, and James B. McCarthy.

Molecular Biology and Genetics

- 2140 **Identification of a New Immunoglobulin Superfamily Protein Expressed in Blood Vessels with a Heparin-binding Consensus Sequence.** Marie E. Beckner, Henry C. Krutzsch, Mary L. Stracke, Sonya T. Williams, Jorge A. Gallardo, and Lance A. Liotta.
- 2150 **Characterization of Chromosome 9 in Human Ovarian Neoplasia Identifies Frequent Genetic Imbalance on 9q and Rare Alterations Involving 9p, Including *CDKN2*.** David C. Schultz, Lisa Vanderveer, Kenneth H. Buetow, Matthew P. Boente, Robert F. Ozols, Thomas C. Hamilton, and Andrew K. Godwin.
- 2158 **Coexpression of Multiple Estrogen Receptor Variant Messenger RNAs in Normal and Neoplastic Breast Tissues and in MCF-7 Cells.** Ulrich Pfeffer, Emanuela Fecarotta, and Giorgio Vidali.
- 2166 **Loss of Heterozygosity at 11p15 in Malignant Glioma.** Yukihiko Sonoda, Masayoshi Iizuka, Jun Yasuda, Reiko Makino, Tetsuya Ono, Takamasa Kayama, Takashi Yoshimoto, and Takao Sekiya.
- 2169 **Detailed Deletion Mapping of Chromosome 6q in Borderline Epithelial Ovarian Tumors.** Kerry J. Rodabaugh, Gayle Blanchard, William R. Welch, Debra A. Bell, Ross S. Berkowitz, and Samuel C. Mok.
- 2186 **Involvement of CD45 in Adhesion and Suppression of Apoptosis of Mouse Malignant T-Lymphoma Cells.** Kenji Hanaoka, Naoya Fujita, Sang-Han Lee, Hiroyuki Seimiya, Mikihiro Naito, and Takashi Tsuruo.
- 2191 **Carcinoembryonic Antigen and Other Glycoconjugates Act as Ligands for Galectin-3 in Human Colon Carcinoma Cells.** David W. Ohannesian, Dafna Lotan, Peter Thomas, J. Milburn Jessup, Minoru Fukuda, Hans-Joachim Gabius, and Reuben Lotan.
- 2200 **Down-Regulation of Interleukin 6 Receptor α Chain in Interleukin 6 Transduced Melanoma Cells Causes Selective Resistance to Interleukin 6 but not to Oncostatin M.** Anna Silvani, Giuliana Ferrari, Giacomo Paonessa, Carlo Toniatti, Giorgio Parmiani, and Mario P. Colombo.
- 2206 **Isolation and Sequence Analysis of Human Cadherin-6 Complementary DNA for the Full Coding Sequence and Its Expression in Human Carcinoma Cells.** Yutaka Shimoyama, Masahiro Gotoh, Takeo Terasaki, Masaki Kitajima, and Setsuo Hirohashi.

Tumor Biology

- 2173 **Recombinant Human Interleukin 4 Has Antiproliferative Activity on Human Tumor Cell Lines Derived from Epithelial and Non-epithelial Histologies.** Max S. Topp, Christos A. Papadimitriou, Florian Eitelbach, Michael Koenigsmann, Elisabeth Oelmann, Birgit Koehler, Dorothea Oberberg, Birgit Reufi, Harald Stein, Eckhard Thiel, and Wolfgang E. Berdel.
- 2212 **Nerve Growth Factor Stimulates Clonal Growth of Human Lung Cancer Cell Lines and a Human Glioblastoma Cell Line Expressing High-Affinity Nerve Growth Factor Binding Sites Involving Tyrosine Kinase Signaling.** Elisabeth Oelmann, Lydia Sreter, Irmela Schuller, Hubert Serve, Michael Koenigsmann, Bertram Wiedenmann, Dorothea Oberberg, Birgit Reufi, Eckhard Thiel, and Wolfgang E. Berdel.

2220 Announcements

Future Annual Meetings of the AACR
 Call for Nominations for AACR Awards
 Workshop on Histopathobiology of Cancer
 Workshop on Methods in Clinical Cancer
 Research
 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**

2223 Author Index