



CONTENTS

Advances in Brief

- 3077 **Suppression of Tumorigenicity of Human Prostate Cancer Cells by Introduction of Human Chromosome del(12)(q13).** Nathalie G. Bérubé, Marsha D. Speevak, and Mario Chevrette.
- 3082 **Effects of Hypoxia on Detoxicating Enzyme Activity and Expression in HT29 Colon Adenocarcinoma Cells.** P. J. O'Dwyer, K-S. Yao, P. Ford, A. K. Godwin, and M. Clayton.
- 3088 **Reversal of Multidrug Resistance by RU 486.** Donald J. Gruol, Michele C. Zee, Joseph Trotter, and Suzanne Bourgeois.
- 3092 **A Negative Regulatory Factor Is Missing in a Human Metastatic Breast Cancer Cell Line.** Denise M. Stover, Indira Carey, Richard J. Garzon, and Zandra E. Zehner.
- 3096 **Pharmacokinetics of the *in Vivo* and *in Vitro* Conversion of 9-Nitro-20(S)-camptothecin to 9-Amino-20(S)-camptothecin in Humans, Dogs, and Mice.** Hellmuth R. Hinz, Nicholas J. Harris, Ethan A. Natelson, and Beppino C. Giovanella.
- 3101 **Wilms' Tumor Suppressor Gene Expression in Rat and Human Mesothelioma.** Cheryl Walker, Fons Rutten, Xiaoquin Yuan, Harvey Pass, Daphne M. Mew, and Jeff Everitt.
- 3107 **Amplification and Overexpression of the Cyclin D1 Gene in Aggressive Human Hepatocellular Carcinoma.** Naoshi Nishida, Yoshihiro Fukuda, Toshiki Komeda, Ryuichi Kita, Takehiro Sando, Motonobu Furukawa, Masahiro Amenomori, Ichio Shibagaki, Kazuwa Nakao, Mituo Ikenaga, and Kanji Ishizaki.
- 3111 **Loss of Heterozygosity for 10q22-10qter in Malignant Melanoma Progression.** Rudolf A. Herbst, Jürgen Weiss, Alexander Ehnis, Webster K. Cavenee, and Karen C. Arden.
- 3115 **Uterotrophic Actions of Estradiol and Tamoxifen Are Associated with Inhibition of Uterine Insulin-like Growth Factor Binding Protein 3 Gene Expression.** Hung Huynh and Michael Pollak.
- 3120 **Inverse Relation of E-Cadherin and Autocrine Motility Factor Receptor Expression as a Prognostic Factor in Patients with Bladder Carcinomas.** Thomas Otto, Walter Birchmeier, Ulrich Schmidt, Axel Hinke, Jörg Schipper, Herbert Rübber, and Avraham Raz.
- 3124 **Recognition of Tyrosinase by Tumor-infiltrating Lymphocytes from a Patient Responding to Immunotherapy.** Paul F. Robbins, Mona El-Gamil, Yutaka Kawakami, and Steven A. Rosenberg.
- 3127 **A Common Region of Homozygous Deletion in Malignant Human Gliomas Lies between the *IFNA/ω* Gene Cluster and the *D9S171* Locus.** Koichi Ichimura, Esther E. Schmidt, Narihito Yamaguchi, C. David James, and V. Peter Collins.
- 3131 **Identification of a p53-dependent Negative Response Element in the *bcl-2* Gene.** Toshiyuki Miyashita, Masayoshi Harigai, Motoi Hanada, and John C. Reed.
- 3136 **Staurosporine Blocks Cell Progression through G₁ between the Cyclin D and Cyclin E Restriction Points.** Jianping Gong, Frank Traganos, and Zbigniew Darzynkiewicz.

Regular Articles

Biochemistry and Biophysics

- 3140 **Induction of Tamoxifen-4-hydroxylation by 2,3,7,8-Tetrachlorodibenzo-*p*-dioxin (TCDD), β -Naphthoflavone (BNF), and Phenobarbital (PB) in Avian Liver: Identification of P450 TCDD_{AA} as Catalyst of 4-Hydroxylation Induced by TCDD and β NF.** David Kupfer, Chitra Mani, Charis A. Lee, and Arleen B. Rifkind.

Carcinogenesis

- 3145 **Colocalized Alterations in Connexin32 and Cytochrome P450IIB1/2 by Phenobarbital and Related Liver Tumor Promoters.** Mark J. Neveu, Karlee L. Babcock, Elliot L. Hertzberg, David L. Paul, Bruce J. Nicholson, and Henry C. Pitot.
- 3153 **Dysregulation of Epidermal Growth Factor Receptor Expression in Premalignant Lesions during Head and Neck Tumorigenesis.** Dong M. Shin, Jae Y. Ro, Waun Ki Hong, and Walter N. Hittelman.
- 3160 **Epidermal Growth Factor Suppresses Insulin-like Growth Factor Binding Protein 3 Levels in Human Papillomavirus Type 16-immortalized Cervical Epithelial Cells and Thereby Potentiates the Effects of Insulin-like Growth Factor 1.** Joan R. Hembree, Chapla Agarwal, and Richard L. Eckert.
- 3167 **Protection by Galanin against Gastric Carcinogenesis Induced by N-Methyl-N'-nitro-N-nitrosoguanidine in Wistar Rats.** Hiroyasu Iishi, Masaharu Tatsuta, Miyako Baba, Hiroyuki Uehara, and Akihiko Nakaizumi.
- 3171 **Increased Formation of Oxidative DNA Damage, 8-Hydroxydeoxyguanosine, in Human Livers with Chronic Hepatitis.** Ryuya Shimoda, Makoto Nagashima, Michie Sakamoto, Naohito Yamaguchi, Setsuo Hirohashi, Jun Yokota, and Hiroshi Kasai.
- 3173 ***In Vivo* Enhancement of Genomic Instability in Minisatellite Sequences of Mouse C3H/10T $\frac{1}{2}$ Cells Transformed *in Vitro* by X-Rays.** Benoit Paquette and John B. Little.

Endocrinology

- 3179 **Functional Insulin and Insulin-like Growth Factor-1 Receptors Are Preferentially Expressed in Multiple Myeloma Cell Lines as Compared to B-Lymphoblastoid Cell Lines.** Gregory G. Freund, Donald T. Kulas, Barbara A. Way, and Robert A. Mooney.

Epidemiology

- 3186 **Fermented Dairy Products, Calcium, and Colorectal Cancer in the Netherlands Cohort Study.** Ellen Kampman, R. Alexandra Goldbohm, Piet A. van den Brandt, and Pieter van 't Veer.

Experimental Therapeutics

- 3191 **Mechanism of Action of the Antileukemic Xanthone Psorospermin: DNA Strand Breaks, Abasic Sites, and Protein-DNA Cross-Links.** Paskasari A. Permana, David K. Ho, John M. Cassidy, and Robert M. Snapka.
- 3196 **Metabolism of Bioreductive Antitumor Compounds by Purified Rat and Human DT-Diaphorases.** Howard D. Beall, R. Timothy Mulcahy, David Siegel, Robert D. Traver, Neil W. Gibson, and David Ross.

- 3202 **Transmembrane Orientation and Topogenesis of the Third and Fourth Membrane-spanning Regions of Human P-Glycoprotein (MDR1).** William R. Skach and Vishwanath R. Lingappa.
- 3210 **CGP 48664, a New S-Adenosylmethionine Decarboxylase Inhibitor with Broad Spectrum Antiproliferative and Antitumor Activity.** Urs Regenass, Helmut Mett, Jaroslav Stanek, Marcel Mueller, Debora Kramer, and Carl W. Porter.
- 3218 **Metabolism of 2',2'-Difluoro-2'-Deoxycytidine and Radiation Sensitization of Human Colon Carcinoma Cells.** Donna S. Shewach, Tina M. Hahn, Emily Chang, Larry W. Hertel, and Theodore S. Lawrence.
- 3224 **Synergistic Inhibition of T-Lymphoblastic Leukemic CCRF-CEM Cell Growth by Gallium and Recombinant Human α -Interferon through Action on Cellular Iron Uptake.** Christopher R. Chitambar, Janine P. Wereley, and Riaz-Ul-Haq.
- 3229 **An Antibody Which Specifically Recognizes Prelamin A but not Mature Lamin A: Application to Detection of Blocks in Farnesylation-dependent Protein Processing.** Michael Sinensky, Kelley Fantle, and Marguerite Dalton.
- 3260 **c-erbB-2/neu Overexpression Enhances Metastatic Potential of Human Lung Cancer Cells by Induction of Metastasis-associated Properties.** Dihua Yu, Shan-Shue Wang, Kim M. Dulski, Chun-Ming Tsai, Garth L. Nicolson, and Mien-Chie Hung.
- 3267 **Effects of Antisense Glial Fibrillary Acidic Protein Complementary DNA on the Growth, Invasion, and Adhesion of Human Astrocytoma Cells.** James T. Rutka, Sherri Lynn Hubbard, Kouzou Fukuyama, Kazuhito Matsuzawa, Peter B. Dirks, and Laurence E. Becker.
- 3273 **Allelic Loss in Locally Metastatic, Multisampled Prostate Cancer.** Wael A. Sakr, Jill A. Macoska, Philip Benson, David J. Grignon, Sandra R. Wolman, J. Edson Pontes, and John D. Crissman.
- 3278 **Characterization of Five New Cell Lines Derived from Human Primitive Neuroectodermal Tumors of the Central Nervous System.** Torsten Pietsch, Thorsten Scharmann, Christa Fonatsch, Dietmar Schmidt, Reinhard Öckler, Dorothee Freihoff, Steffen Albrecht, Otmar D. Wiestler, Paul Zeltzer, and Hansjörg Riehm.
- 3288 **Potential by Specific Short-Chain Fatty Acids of Differentiation and Apoptosis in Human Colonic Carcinoma Cell Lines.** Barbara G. Heerdt, Michele A. Houston, and Leonard H. Augenlicht.
- 3295 **A Dominated and Resistant Subpopulation Causes Regrowth after Response to 1,3-Bis(2-chloroethyl)-1-nitrosourea Treatment of a Heterogeneous Small Cell Lung Cancer Xenograft in Nude Mice.** Kristian Aabo, Henrik Roed, Lars L. Vindeløv, and Mogens Spang-Thomsen.
- 3300 **Enhancement of the Expression of Urokinase-Type Plasminogen Activator from PC-3 Human Prostate Cancer Cells by Thrombin.** Etsuo Yoshida, Elaine N. Verrusio, Hisashi Mihara, Doyeun Oh, and Hau C. Kwaan.
- 3305 **Expression of Carcinoembryonic Antigen and Nonspecific Cross-reacting 50-kDa Antigen in Human Normal and Cancerous Colon Mucosa: Comparative Ultrastructural Study with Monoclonal Antibodies.** Vladimir Baranov, Moorix Mo-Wai Yeung, and Sten Hammarström.

Immunology

- 3233 **Involvement of Very Late Activation Antigen 4 (VLA-4) and Vascular Cell Adhesion Molecule 1 (VCAM-1) in Tumor Necrosis Factor α Enhancement of Experimental Metastasis.** Hitoshi Okahara, Hideo Yagita, Kensuke Miyake, and Ko Okumura.

Molecular Biology and Genetics

- 3237 **Preferential Alternative Splicing in Cancer Generates a K-sam Messenger RNA with Higher Transforming Activity.** Hiroshi Itoh, Yutaka Hattori, Hiromi Sakamoto, Hideshi Ishii, Tatsuya Kishi, Hiroki Sasaki, Teruhiko Yoshida, Masashi Koono, Takashi Sugimura, and Masaaki Terada.

Tumor Biology

- 3242 **Expression of Interleukin 8 Correlates with the Metastatic Potential of Human Melanoma Cells in Nude Mice.** Rakesh K. Singh, Mordechai Gutman, Robert Radinsky, Corazon D. Bucana, and Isaiah J. Fidler.
- 3248 **Increased Expression of DNA Topoisomerase I Gene and Collateral Sensitivity to Camptothecin in Human Cisplatin-resistant Bladder Cancer Cells.** Shuji Kotoh, Seiji Naito, Akira Yokomizo, Joichi Kumazawa, Keizo Asakuno, Kimitoshi Kohno, and Michihiko Kuwano.
- 3253 **Bcl-2 Inhibits Chemotherapy-induced Apoptosis in Neuroblastoma.** Mukund Dole, Gabriel Nuñez, Audrea K. Merchant, Jonathan Maybaum, Christopher K. Rode, Craig A. Bloch, and Valerie P. Castle.

Meeting Report

- 3315 **Current Strategies of Cancer Chemoprevention: 13th Sapporo Cancer Seminar.** Charles W. Boone and Lee W. Wattenberg.

Letters to the Editor

- 3319 **Correspondence re: S. E. Dew *et al.*, Effects of Pharmacological Retinoids on Several Vitamin A-metabolizing Enzymes. *Cancer Res.*, 53: 2965-2969, 1993.** Lonnie E. Allen, Michael H. Green, and Joanne Balmer Green. Reply by Stephanie E. Dew, Sarah A. Wardlaw, and David E. Ong.

3321 Announcements

Future Annual Meetings of the AACR
New Privileges and Responsibilities of
Corresponding Membership
Broadening of Associate Membership
AACR Special Conferences in Cancer
Research
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**

3324 Author Index

Cancer Research

The Journal of Cancer Research (1916–1930) | The American Journal of Cancer (1931–1940)

54 (12)

Cancer Res 1994;54:3077-3323.

Updated version Access the most recent version of this article at:
<http://cancerres.aacrjournals.org/content/54/12.citation>

E-mail alerts [Sign up to receive free email-alerts](#) related to this article or journal.

Reprints and Subscriptions To order reprints of this article or to subscribe to the journal, contact the AACR Publications Department at pubs@aacr.org.

Permissions To request permission to re-use all or part of this article, use this link <http://cancerres.aacrjournals.org/content/54/12.citation>. Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.