

ANTICANCER RESEARCH

International Journal of Cancer Research and Treatment

ISSN: 0250-7005

Volume 31, Number 9, September 2011

Contents

Experimental Studies

Gankyrin, A Biomarker for Epithelial Carcinogenesis, Is Overexpressed in Human Oral Cancer. J. LI, T.J. KNOBLOCH, L.A. KRESTY, Z. ZHANG, J.C. LANG, D.E. SCHULLER, C.M. WEGHORST (Columbus, OH; Miami, FL, USA)	2683
Expression of Selenium-containing Proteins in Human Colon Carcinoma Tissue. V. YAGUBLU, J.R. ARTHUR, S.N. BABAYEVA, F. NICOL, S. POST, M. KEESE (Mannheim; Frankfurt Main, Germany; Aberdeen, UK; Baku, Azerbaijan)	2693
Pomegranate Extract Induces Cell Cycle Arrest and Alters Cellular Phenotype of Human Pancreatic Cancer Cells. V. NAIR, Z. DAI, M. KHAN, H.P. CIOLINO (Austin, TX; Rockville, MD, USA)	2699
6-Thioguanine Inhibition of Parathyroid Hormone-related Protein Expression Is Mediated by GLI2. R.W. JOHNSON, A.R. MERKEL, S. DANILIN, M.P. NGUYEN, G.R. MUNDY, J.A. STERLING (Nashville, TN, USA)	2705
The mTOR Inhibitor RAD001 Sensitizes Tumor Cells to the Cytotoxic Effect of Carboplatin in Breast Cancer <i>In Vitro</i> . H. LIU, C. ZANG, J.-H. SCHEFE, S. SCHWARZLOSE-SCHWARCK, A.-C. REGIERER, E. ELSTNER, C.-O. SCHULZ, C. SCHOLZ, K. POSSINGER, J. EUCKER (Berlin, Germany)	2713
Histone Deacetylase Inhibitors Reverse CpG Methylation by Regulating DNMT1 through ERK Signaling. S. SARKAR, A.L. ABUJAMRA, J.E. LOEW, L.W. FORMAN, S.P. PERRINE, D.V. FALLER (Boston, MA, USA)	2723

Contents continued on the back cover

Protein-bound Polysaccharide-K (PSK) Induces Apoptosis and Inhibits Proliferation of Promyelomonocytic Leukemia HL-60 Cells. N. HIRAHARA, M. FUJIOKA, T. EDAMATSU, A. FUJIEDA, F. SEKINE, T. WADA, T. TANAKA (<i>Izumo; Tokyo, Japan</i>).....	2733
Clioquinol Suppresses Cyclin D1 Gene Expression through Transcriptional and Post-transcriptional Mechanisms. J. ZHENG, D.M. BENBROOK, H. YU, W.-Q. DING (<i>Oklahoma City, OK, USA; Wuhan, PR China</i>)	2739
Prognostic Relevance of Disseminated Tumor Cells in the Bone Marrow of Patients with Primary Breast Cancer – Results of a Standardized Follow-Up. C. SCHINDLBECK, G. PFAB, J. JUECKSTOCK, U. ANDERGASSEN, H. SOMMER, W. JANNI, K. FRIESE, B. RACK (<i>Traunstein; Munich; Duesseldorf, Germany</i>).....	2749
Modulation of Cisplatin Cytotoxicity due to its Combination with Bortezomib and the Nature of its Administration. Z. AL-EISAWI, P. BEALE, C. CHAN, J.Q. YU, F. HUQ (<i>Sydney, NSW, Australia</i>)	2757
Prognostic Significance of Thymidylate Synthase Expression in the Adjuvant Chemotherapy after Resection for Pulmonary Metastases from Colorectal Cancer. K. KAIRA, T. OKUMURA, Y. OHDE, T. TAKAHASHI, H. MURAKAMI, H. KONDO, T. NAKAJIMA. N. YAMAMOTO (<i>Shizuoka, Japan</i>)	2763
<i>In Vitro</i> and <i>In Vivo</i> Anticancer Activity of (+)-Spongistatin 1. Q. XU, K.-C. HUANG, K. TENDYKE, J. MARSH, J. LIU, D. QIU, B.A. LITTLEFIELD, K. NOMOTO, O. ATASOYLU, C.A. RISATTI, J.B. SPERRY, A.B. SMITH III (<i>Andover, MA; Philadelphia, PA, USA</i>).....	2773
Interaction of Dacarbazine and Imexon, <i>In Vitro</i> and <i>In Vivo</i> , in Human A375 Melanoma Cells. B.K. SAMULITIS, R.T. DORR, H.-H.S. CHOW (<i>Tucson, AZ, USA</i>)	2781
Acquired Drug Resistance to Vascular Endothelial Growth Factor Receptor 2 Tyrosine Kinase Inhibitor in Human Vascular Endothelial Cells. T. ARAO, K. MATSUMOTO, K. FURUTA, K. KUDO, H. KANEDA, T. NAGAI, K. SAKAI, Y. FUJITA, D. TAMURA, K. AOMATSU, F. KOIZUMI, K. NISHIO (<i>Osaka-Sayama; Tokyo, Japan</i>)	2787
SDF1 β Expression in Renal Cell Carcinoma Correlates with Grading and Infiltration by CD8 ⁺ T-Cells. T.C. WEHLER, C. GRAF, K. ALTHERR, T. ZIMMERMANN, W. BRENNER, J.W. THÜROFF, S. BIESTERFELD, I. GOCKEL, M. THEOBALD, P.R. GALLE, C.C. SCHIMANSKI (<i>Mainz; Duesseldorf, Germany</i>).....	2797
Activation of the Wnt/Beta-catenin Signaling Pathway during Oral Carcinogenesis Process Is Not Influenced by the Absence of Galectin-3 in Mice. J.M. SANT'ANA, R. CHAMMAS, F.-T. LIU, S. NONOGAKI, S.V. CARDOSO, A.M. LOYOLA, P.R. DE FARIA (<i>Uberlândia; São Paulo, Brazil; Sacramento, CA, USA</i>).....	2805
Anti- <i>MDR1</i> siRNA Restores Chemosensitivity in Chemoresistant Breast Carcinoma and Osteosarcoma Cell Lines. J. PEREZ, C. BARDIN, C. RIGAL, B. ANTHONY, R. ROUSSEAU, A. DUTOUR (<i>Lyon; Villeurbanne, France</i>).....	2813
Gallic Acid Induces G ₀ /G ₁ Phase Arrest and Apoptosis in Human Leukemia HL-60 Cells through Inhibiting Cyclin D and E, and Activating Mitochondria-dependent Pathway. R.-D. YEH, J.-C. CHEN, T.-Y. LAI, J.-S. YANG, C.-S. YU, J.-H. CHIANG, C.-C. LU, S.-T. YANG, C.-C. YU, S.-J. CHANG, H.-Y. LIN, J.-G. CHUNG (<i>Kaohsiung; Taichung, Taiwan, ROC</i>)	2821
Correlation between Expression of Metallothionein and Expression of Ki-67 and MCM-2 Proliferation Markers in Non-small Cell Lung Cancer. B. WERYNSKA, B. PULA, B. MUSZCZYNSKA-BERNHARD, A. PIOTROWSKA, A. JETHON, M. PODHORSKA-OKOLOW, P. DZIEGIEL, R. JANKOWSKA (<i>Wroclaw; Poznan, Poland</i>)	2833

Evaluation of Anticancer Activities of Benzo[c]phenanthridine Alkaloid Sanguinarine in Oral Squamous Cell Carcinoma Cell Line. H. TSUKAMOTO, S. KONDO, Y. MUKUDAI, T. NAGUMO, A. YASUDA, Y. KURIHARA, T. KAMATANI, S. SHINTANI (<i>Tokyo, Japan</i>)	2841
Interaction of Radiation and Pemetrexed on a Human Malignant Mesothelioma Cell Line <i>In Vitro</i> . D. YOSHIDA, T. EBARA, Y. SATO, T. KAMINUMA, T. TAKAHASHI, T. ASAO, T. NAKANO (<i>Maebashi, Gunma, Japan</i>).....	2847
Antitumor Therapeutic Effects of Cytosine Deaminase and Interferon- β Against Endometrial Cancer Cells Using Genetically Engineered Stem Cells <i>In Vitro</i> . B.-R. YI, N.-H. KANG, K.-A. HWANG, S.U. KIM, E.-B. JEUNG, K.-C. CHOI (<i>Cheongju, Chungbuk, Republic of Korea; Vancouver, BC, Canada</i>)	2853
Determination of Clofarabine Triphosphate Concentrations in Leukemia Cells Using Sensitive, Isocratic High-performance Liquid Chromatography. T. YAMAUCHI, R. NISHI, T. UEDA (<i>Fukui, Japan</i>)	2863
<i>H-ras</i> Up-regulates Expression of BNIP3. W. KALAS, E. SWIDEREK, A. RPAK, M. KOPIJ, J. RAK, L. STRZADALA (<i>Wroclaw, Poland; Montreal, QC, Canada</i>)	2869
<i>K-ras</i> Mutations in Lung Tumors from NNK-treated Mice with Lipopolysaccharide-elicited Lung Inflammation. P. KEOHAVONG, B. KAHKONEN, E. KINCHINGTON, J. YIN, J. JIN, X. LIU, J.M. SIEGFRIED, Y.P. DI (<i>Pittsburgh, PA, USA</i>)	2877
Prediction of Synergistic Antitumour Effect of Gefitinib and Radiation <i>In Vitro</i> . H.Q. LIN, H. MERIATY, A. KATSIFIS (<i>Lucas Heights, NSW, Australia</i>)	2883
Methylation of the Homeobox Gene, <i>HOPX</i> , Is Frequently Detected in Poorly Differentiated Colorectal Cancer. Y. HARADA, K. KIJIMA, K. SHINMURA, M. SAKATA, K. SAKURABA, K. YOKOMIZO, Y. KITAMURA, A. SHIRAHATA, T. GOTO, H. MIZUKAMI, M. SAITO, G. KIGAWA, H. NEMOTO, K. HIBI (<i>Yokohama, Japan</i>)	2889
Etodolac Improves 5-FU Sensitivity of Head and Neck Cancer Cells through Inhibition of Thymidylate Synthase. S. MURATA, M. ADACHI, M. KIOI, S. TORIGOE, K. IJICHI, Y. HASEGAWA, T. OGAWA, M.K. BHAYANI, S.Y. LAI, K. MITSUDO, I. TOHNAI (<i>Yokohama; Nagoya; Nagakute, Aichi, Japan; Houston, TX, USA</i>).....	2893
Down-regulation of Expression of Interleukin-6 and its Receptor Results in Growth Inhibition of MCF-7 Breast Cancer Cells. X.-P. JIANG, D.C. YANG, R.L. ELLIOTT, J.F. HEAD (<i>Baton Rouge, LA, USA</i>)	2899
Comparison of μ CT, MRI and Optical Reflectance Imaging for Assessing the Growth of GFP/RFP-expressing Tumors. L. ABOU-ELKACEM, F. GREMSE, S. BARTH, R.M. HOFFMAN, F. KIESSLING, W. LEDERLE (<i>Aachen, Germany; San Francisco; San Diego, CA, USA</i>).....	2907
Panipenem Does Not Alter the Pharmacokinetics of the Active Metabolite of Irinotecan SN-38 and Inactive Metabolite SN-38 Glucuronide (SN-38G) in Rats. A. KATO, J. UEYAMA, F. ABE, K. HOTTA, I. TSUKIYAMA, T. OSHIMA, F. KONDO, H. SAITO, T. HASEGAWA (<i>Aichi-gun; Nagoya, Aichi; Kanazawa, Ishikawa, Japan</i>)	2915
 <i>Clinical Studies</i>	
* Review: CT and MR Imaging of the Adrenal Glands in Cortisol-secreting Tumors. F. LUMACHI, P. MARCHESI, D. MIOTTO, R. MOTTA (<i>Padova, Italy</i>).....	2923
Cryotreatment against Metastatic Renal Cell Bone Tumour Reduced Multiple Lung Metastases. H. NISHIDA, T. SHIRAI, K. HAYASHI, A. TAKEUCHI, Y. TANZAWA, A. MIZOKAMI, M. NAMIKI, H. TSUCHIYA (<i>Kanazawa, Japan</i>)	2927

Nonhepatic Cancer in Liver Cirrhosis: A Retrospective Study of Prevalence, Complication Rate after Specific Oncological Treatment, Follow-up and Prognostic Predictors of Outcome in 354 Patients with Cirrhosis. F. GUNDLING, H. SEIDL, F. SCHMIDTLER, N. LÖFFLER, I. STRASSEN, P. WOLF, C. PEHL, T. SCHMIDT, W. SCHEPP (<i>Munich; Vilsbiburg, Germany</i>)	2931
Serum 25-Hydroxyvitamin D and Prevention of Breast Cancer: Pooled Analysis. S.B. MOHR, E.D. GORHAM, J.E. ALCARAZ, C.J. KANE, C.A. MACERA, J. KELLOGG PARSONS, D.L. WINGARD, C.F. GARLAND (<i>La Jolla; San Diego, CA, USA</i>)	2939
Basic Clinical Parameters Predict Gefitinib Efficacy in Non-small Cell Lung Cancer. A. PIRCHER, E. ULSPERGER, R. HACK, H. JAMNIG, G. PALL, B. ZELGER, W. STERLACCI, W. HILBE, M. FIEGL (<i>Innsbruck; Vienna; Tyrol; Feldkirch, Austria</i>)	2949
Palladin is a Marker of Liver Metastasis in Primary Pancreatic Endocrine Carcinomas. E.B. HENDERSON-JACKSON, J. HELM, J. STROSBERG, N.A. NASIR, T.J. YEATMAN, L.K. KVOLS, D. COPPOLA, A. NASIR (<i>Tampa, FL, USA</i>)	2957
Elevated YB-1 Expression is a New Unfavorable Prognostic Factor in Non-Hodgkin's Lymphomas. K. SZCZURASZEK, A. HALON, V. MATERNA, G. MAZUR, T. WROBEL, K. KULICZKOWSKI, P. DONIZY, P.S. HOLM, H. LAGE, P. SUROWIAK (<i>Wroclaw, Poland; Berlin; Munich, Germany</i>).....	2963
The Efficacy of Gemcitabine as Salvage Treatment in Patients with Refractory Advanced Colorectal Cancer (CRC): A Single Institution Experience. M.W. SAIF, K. KALEY, R. PENNEY, S. HOTCHKISS, K.N. SYRIGOS, A.S. STRIMPAKOS (<i>New York, NY, USA</i>)	2971
RASSF1A Methylation is Predictive of Poor Prognosis in Female Breast Cancer in a Background of Overall Low Methylation Frequency. A. BUHMEIDA, A. MERDAD, J. EL-MAGHRABI, F. AL-THOBAITI, M. ATA, A. BUGIS, K. SYRJÄNEN, A. ABUZENADAH, A. CHAUDHARY, M. GARI, M. AL-QAHTANI, A. DALLOL (<i>Jeddah, Saudi Arabia; Turku, Finland</i>)	2975
Safety and Short-term Therapeutic Effects of Miriplatin–Lipiodol Suspension in Transarterial Chemoembolization (TACE) for Hepatocellular Carcinoma. K. OKABE, T. BEPPU, K. HARAOKA, Y. OH-UCHIDA, S. YAMAMURA, S. TOMIYASU, T. YAMANAKA, O. SANO, T. MASUDA, A. CHIKAMOTO, S. FUJIYAMA, H. BABA (<i>Kumamoto, Japan</i>)	2983
A Low-grade Myofibroblastic Sarcoma in the Abdominal Cavity. M. MIYAZAWA, Y. NARITAKA, A. MIYAKI, S. ASAKA, N. ISOHATA, K. YAMAGUCHI, M. MURAYAMA, T. SHIMAKAWA, T. KATSUBE, K. OGAWA, M. FUJIBAYASHI (<i>Tokyo, Japan</i>).....	2989
Preoperative Neutrophil to Lymphocyte Ratio as a Prognostic Predictor after Curative Resection for Non-small Cell Lung Cancer. M. TOMITA, T. SHIMIZU, T. AYABE, A. YONEI, T. ONITSUKA (<i>Miyazaki, Japan</i>)	2995
Lapatinib Enhances Herceptin-mediated Antibody-dependent Cellular Cytotoxicity by Up-regulation of Cell Surface HER2 Expression. T. MARUYAMA, K. MIMURA, S. IZAWA, A. INOUE, S. SHIBA, M. WATANABE, Y. KAWAGUCHI, M. INOUE, H. NOGATA, S. INOUE, H. FUJII, K. KONO (<i>Chuo; Kofu, Yamanashi, Japan</i>) ...	2999
Paclitaxel and Bevacizumab as First Line Combined Treatment in Patients with Metastatic Breast Cancer: The Hellenic Cooperative Oncology Group Experience with Biological Marker Evaluation. G. FOUNTZILAS, H.P. KOUREA, M. BOBOS, D. TELEVANTOU, V. KOTOULA, C. PAPADIMITRIOU, K.T. PAPAZISIS, E. TIMOTHEADOU, I. EFSTRATIOU, A. KOUTRAS, G. PENTHEROUDAKIS, C. CHRISTODOULOU, G. ARAVANTINOS, D. MILIARAS, K. PETRAKI, C.N. PAPANDREOU, P. PAPAKOSTAS, D. BAFALOUKOS, D. REPANA, E. RAZIS, D. PECTASIDES, A.M. DIMOPOULOS (<i>Thessaloniki; Patras; Athens; Ioannina; Larissa, Greece</i>)	3007

Differential Activation of MAPK and PI3K/AKT/mTOR Pathways and IGF1R Expression in Gastrointestinal Stromal Tumors. M.J. RÍOS-MORENO, S. JARAMILLO, M. DÍAZ-DELGADO, M. SÁNCHEZ-LEÓN, I. TRIGO-SÁNCHEZ, J. POLO PADILLO, J. AMÉRIGO, R. GONZÁLEZ-CÁMPORA (<i>Seville; Badajoz; Almeria, Spain</i>)	3019
Correlation of Intensity of MT-I/II Expression with Ki-67 and MCM-2 Proteins in Invasive Ductal Breast Carcinoma. A. WOJNAR, B. PULA, A. PIOTROWSKA, A. JETHON, K. KUJAWA, C. KOBIERZYCKI, J. RYS, M. PODHORSKA-OKOLOW, P. DZIEGIEL (<i>Wroclaw; Poznan; Krakow, Poland</i>)	3027
Phase I Study of S-1 in Combination with Trastuzumab for HER2-positive Metastatic Breast Cancer. T. NAKAYAMA, S. MORITA, T. TAKASHIMA, S. KAMIGAKI, K. YOSHIDOME, T. ITO, T. TAGUCHI, J. SAKAMOTO, S. NOGUCHI (<i>Osaka; Kanagawa; Nagoya, Aichi, Japan</i>)	3035
Pathological Complete Response and Prognosis in Patients Receiving Neoadjuvant Paclitaxel and Trastuzumab with and without Anthracyclines for Stage II and III, HER2-positive Operable Breast Cancer: A Single-institute Experience. J. Horiguchi, T. OYAMA, D. TAKATA, N. ROKUTANDA, R. NAGAOKA, H. ODAWARA, H. TOKINIWA, K. TOZUKA, M. KIKUCHI, A. SATO, I. TAKEYOSHI (<i>Maebashi, Gunma, Japan</i>)	3041
Fertility-sparing Management of Grade 2 and 3 Endometrial Adenocarcinomas. M. KOSKAS, C. YAZBECK, F. WALKER, E. CLOUQUEUR, A. AGOSTINI, S. RUAT, J.P. LUCOT, E. LAMBAUDIE, D. LUTON, P. MADELENAT (<i>Paris; Lille; Marseille, France</i>)	3047
Effect of Glutathione-S-Transferase M1 and T1 Allelic Polymorphisms on HPV-induced Cervical Precancer Formation. J. CSEH, E. PÁZSIT, Z. ORSÓS, E. MAREK, A. HUSZÁR, S. BALOGH, I. EMBER, I. KISS (<i>Székesfehérvár; Miskolc; Pécs; Budapest, Hungary</i>)	3051
Gene Polymorphisms <i>MTHFR</i> C677T and A2756G as Predictive Factors in Adjuvant Chemotherapy for Stage III Colorectal Cancer. H. TAFLIN, Y. WETTERGREN, E. ODIN, G. CARLSSON, K. DERWINGER (<i>Gothenburg, Sweden</i>)	3057
Evaluation of Oral Etoposide in Combination with Cisplatin for Patients with Recurrent Cervical Cancer: Long-term Follow-up Results of a Japanese Multicenter Study. Y. WATANABE, H. HOSHIAI, T. NAKANISHI, N. KAWAMURA, N. TANAKA, K. ISAKA, S. KAMIURA, M. OHMICHU, M. HATAE, K. OCHIAI (<i>Osaka; Nagoya; Chiba; Tokyo; Kagoshima, Japan</i>)	3063
Pleomorphic Ductal Carcinoma of the Male Breast: Report of a Rare Case and Review of Literature. R. CARUSO, R. PALMERI, S. RACCHIUSA, A. BONANNO, R. LUCIANÒ, M. SCARDIGNO, G. BRANCA, F. FEDELE (<i>Messina, Italy</i>)	3069
Neoadjuvant Chemoradiotherapy for Clinical Stage II-III Esophageal Squamous Cell Carcinoma. H. SAEKI, M. MORITA, Y. NAKASHIMA, H. SONODA, K. HASHIMOTO, A. EGASHIRA, E. OKI, T. OHGA, Y. KAKEJI, Y. MAEHARA (<i>Fukuoka, Japan</i>)	3073
Phase I Study of Neoadjuvant Chemoradiotherapy Consisting of S-1 and Cisplatin for Patients with Resectable Advanced Gastric Cancer (KOGC-01). T. TAKAHASHI, Y. SAIKAWA, H. TAKAISHI, H. TAKEUCHI, N. WADA, T. OYAMA, K. FUKUDA, J. FUKADA, O. KAWAGUCHI, N. SHIGEMATSU, Y. KITAGAWA (<i>Tokyo, Japan</i>)	3079
Feasibility Study of Triplet Combination Chemotherapy of Paclitaxel, Cisplatin and S-1 for Advanced Gastric Cancer. K. FUJITANI, H. HASEGAWA, M. HIRAO, Y. KUROKAWA, T. TSUJINAKA (<i>Osaka, Japan</i>)	3085

Evaluation of Kallikrein-related Peptidase 5 Expression and its Significance for Breast Cancer Patients: Association with Kallikrein-related Peptidase 7 Expression. M. TALIERI, M. DEVETZI, A. SCORILAS, P. PREZAS, A. ARDAVANIS, A. APOSTOLAKI, A. KARAMERIS (<i>Athens, Greece</i>)	3093
Sifneos Alexithymia Questionnaire in Assessment of General Alexithymia in Patients with Breast Disease and Breast Cancer: A Prospective Case–Control Study in Finland. M. ESKELINEN, P. OLLONEN (<i>Kuopio, Finland</i>)	3101
The Role of MonoTotal in the Primary Diagnosis, Prognosis and Follow-up of Patients with Non-small Cell Lung Cancer (NSCLC). M. PRAZAKOVA, J. VRZALOVA, J.M. AUGE, J. SAFRANEK, O. TOPOLCAN, R. FUCHSOVA, M. SPISAKOVA, S. SVOBODOVA, L. HOLUBEC JR., M. PESTA (<i>Prague; Pilsen, Czech Republic; Barcelona, Spain</i>)	3107
Erratum	3113
* Review (page 2923)	