

ANTICANCER RESEARCH

International Journal of Cancer Research and Treatment

ISSN: 0250-7005

Volume 38, Number 12, December 2018

Contents

Reviews

- Targeted Therapies for Pancreatic Cancer and Hurdles Ahead. M. ASLAN, R. SHAHBAZI, K. ULUBAYRAM, B. OZPOLAT (*Ankara, Turkey; Houston, TX, USA*) 6591

- Application of Artificial Intelligence-based Technology in Cancer Management: A Commentary on the Deployment of Artificial Neural Networks. G.V. SHERBET, W.L. WOO, S. DLAY (*Huntington Beach, CA, USA; Newcastle upon Tyne, UK*) 6607

- Does Transdermal Testosterone Increase the Risk of Developing Breast Cancer? A Systematic Review. R. GERA, S. TAYEH, H. EL-HAGE CHEHADE, K. MOKBEL (*London, UK*) 6615

Experimental Studies

- Potent Antitumor T-Cell Memory Is Generated by Curative Viral Oncolytic Immunotherapy But Not Curative Chemotherapy. Y. GAO, I. BERGMAN (*Pittsburgh, PA, USA*) 6621

- Cytolytic Activity (CYT) Score Is a Prognostic Biomarker Reflecting Host Immune Status in Hepatocellular Carcinoma (HCC). H. WAKIYAMA, T. MASUDA, Y. MOTOMURA, Q. HU, T. TOBO, H. EGUCHI, K. SAKAMOTO, M. HIRAKAWA, H. HONDA, K. MIMORI (*Oita; Fukuoka, Japan*) 6631

- Evaluation of the Usefulness of FDG-PET/CT for Nodal Staging of Breast Cancer. P. ORSARIA, A. CHIARAVALLOTTI, E. CAREDDA, P.V. MARCHESE, B. TITKA, L. ANEMONA, I. PORTARENA, O. SCHILLACI, G. PETRELLA, L. PALOMBI, O.C. BUONOMO (*Rome, Italy*) 6639

Contents continued on the back cover

Effect of Combined Epigenetic Treatments and Ectopic NIS Expression on Undifferentiated Thyroid Cancer Cells. M. MASSIMINO, E. TIRRÒ, S. STELLA, F. FRASCA, V. VELLA, L. SCIACCA, M.S. PENNISI, S.R. VITALE, A. PUMA, C. ROMANO, L. MANZELLA (<i>Catania; Enna, Italy</i>)	6653
Embryonal Origin of Metanephric Adenoma and its Differential Diagnosis. D.P. SARLOS, D. BANYAI, L. PETERFI, A. SZANTO, G. KOVACS (<i>Pecs, Hungary; Heidelberg, Germany</i>)	6663
Cell Harvesting Methods Affect Cellular Integrity of Adherent Cells During Apoptosis Detection. G. YAN, T. EFFERTH (<i>Mainz, Germany</i>)	6669
Expression of CK7 and CDKN2 in Cervical Intraepithelial Neoplasia and the Correlation with Clinical Outcome. T.M. DE LIMA, G.R.D.A. FOCCHI, B.C. DE ALMEIDA, P.N. BELFORT-MATTOS, T. HEINKE, N.M.D.G. SPECK (<i>Sao Paulo, Brazil</i>)	6673
Glutamine Deprivation Enhances Acetyl-CoA Carboxylase Inhibitor-induced Death of Human Pancreatic Cancer Cells. K. NISHI, M. SUZUKI, N. YAMAMOTO, A. MATSUMOTO, Y. IWASE, K. YAMASAKI, M. OTAGIRI, N. YUMITA (<i>Kumamoto; Yokohama, Japan</i>)	6683
Effects of Global O-GlcNAcylation on Galectin Gene-expression Profiles in Human Cancer Cell Lines. A.A. SHERAZI, K.A. JARIWALA, A.N. CYBULSKI, J.W. LEWIS, J. KARAGIANNIS, R.C. CUMMING, A.V. TIMOSHENKO (<i>London, ON, Canada</i>)	6691
AS602801, an Anticancer Stem Cell Candidate Drug, Reduces Survivin Expression and Sensitizes A2780 Ovarian Cancer Stem Cells to Carboplatin and Paclitaxel. M. YAMAMOTO, S. SUZUKI, K. TOGASHI, T. SANOMACHI, S. SEINO, C. KITANAKA, M. OKADA (<i>Yamagata, Japan</i>)	6699
Exosomal MicroRNA Expression Profiling in Patients with Lung Adenocarcinoma-associated Malignant Pleural Effusion. H. TAMIYA, A. MITANI, A. SAITO, T. ISHIMORI, M. SAITO, H. ISAGO, T. JO, Y. YAMAUCHI, G. TANAKA, T. NAGASE (<i>Tokyo, Japan</i>)	6707
Evaluation of a New Hydroxyapatite Nanoparticle as a Drug Delivery System to Oral Squamous Cell Carcinoma Cells. T. MURATA, T. KUTSUNA, K. KUROHARA, K. SHIMIZU, A. TOMEOKU, N. ARAI (<i>Mie, Japan</i>)	6715
Tumor-infiltrating Immune Cells in H&E-stained Sections of Colorectal Cancer Tissue as a Reasonable Immunological Biomarker. S. MATSUTANI, M. SHIBUTANI, K. MAEDA, H. NAGAHARA, T. FUKUOKA, Y. ISEKI, S. KASHIWAGI, H. TANAKA, K. HIRAKAWA, M. OHIRA (<i>Osaka, Japan</i>)	6721
Effects of Lidocaine and Ropivacaine on Gastric Cancer Cells Through Down-regulation of ERK1/2 Phosphorylation <i>In Vitro</i> . W. YANG, J. CAI, H. ZHANG, G. WANG, W. JIANG (<i>Beijing, PR China; Cardiff, UK</i>)	6729
Neutrophil Gelatinase-associated Lipocalin as a Theragnostic Marker in Perihilar Cholangiocarcinoma. A. NAIR, N. INGRAM, E.T. VERGHESE, I. WIJETUNGA, A.F. MARKHAM, J. WYATT, K.R. PRASAD, P.L. COLETTA (<i>Leeds, UK</i>)	6737
Analysis of Malignant Melanoma Cell Lines Exposed to Hypoxia Reveals the Importance of <i>PFKFB4</i> Overexpression for Disease Progression. S.E. TROJAN, M. PIOWWAR, B. OSTROWSKA, P. LAIDLER, K.A. KOCEMBA-PILARCZYK (<i>Cracow, Poland</i>)	6745
Naringenin Attenuated Prostate Cancer Invasion via Reversal of Epithelial-to-Mesenchymal Transition and Inhibited uPA Activity. K.-Y. HAN, P.-N. CHEN, M.-C. HONG, Y.-C. HSEU, K.-M. CHEN, L.-S. HSU, W.-J. CHEN (<i>Taichung, Taiwan, ROC</i>)	6753
Effect of Heparin–Protamine Treatment on Thyroid Cancer Cell Lines. A. FUSHIMI, H. TAKEYAMA, Y. MANOME (<i>Tokyo, Japan</i>)	6759

Clinical Studies

Individual Genetic Variation Might Predict Acute Skin Reactions in Women Undergoing Adjuvant Breast Cancer Radiotherapy. D. OLIVA, M. NILSSON, M. STRANDÉUS, B.-Å. ANDERSSON, L. SHARP, N. LAYTRAGOON-LEWIN, F. LEWIN (<i>Jönköping; Linköping; Stockholm, Sweden</i>)	6763
Chronic Inflammation as a Potential Predictive Factor of Nivolumab Therapy in Non-small Cell Lung Cancer. M. SVATON, M. ZEMANOVA, J. SKRICKOVA, L. JAKUBIKOVA, V. KOLEK, J. KULTAN, L. KOUBKOVA, A. BEJCKOVA, F. SALAJKA, M. HRNCIARIK, B. MELICHAR, D. VRANA, M. KONECNY, R. CHLOUPKOVA, M. PESEK (<i>Pilsen; Prague; Brno; Olomouc, Czech Republic</i>)	6771
Relationship Between Preoperative Erythrocyte Sedimentation Rate and Survival After Surgery in Patients with Colorectal Cancer. N. SHIBUYA, M. ISHIZUKA, K. TAKAGI, Y. IWASAKI, H. HACHIYA, T. AOKI, K. KUBOTA (<i>Tochigi, Japan</i>)	6783
Ursolic Acid Promotes the Sensitization of rhTRAIL-resistant Triple-negative Breast Cancer. J.M. MANOUCHEHRI, M. KALAFATIS (<i>Cleveland, OH, USA</i>)	6789
Palliative Radiotherapy as a Treatment for Carcinoma Invasion of the Sacrum: An Observational Case Series Study. F. AMPIL, G. SANGSTER, G. CALDITO, T. RICHARDS, Y. NGO, D. KIM, Q. CHU (<i>Shreveport, LA, USA</i>)	6797
Chemotherapy in Patients with Hereditary Angioedema. C. MORELLI, V. FORMICA, S. PELLICORI, A. MENIGHI, M.D. GUARINO, R. PERRICONE, M. ROSELLI (<i>Rome; Milan, Italy</i>)	6801
Neoadjuvant Chemotherapy Versus Chemoradiotherapy for Patients with Esophageal Squamous Cell Carcinoma. Y. NAKASHIMA, H. SAEKI, Q. HU, Y. TSUDA, Y. HISAMATSU, K. ANDO, E. OKI, Y. MAEHARA (<i>Fukuoka, Japan</i>)	6809
Outcomes of Stereotactic Body Radiotherapy for Hepatocellular Carcinoma with Severe Cirrhosis and Ineligibility for Transplant. V. VALAKH, S. GRESSWELL, A. KIRICHENKO (<i>Pittsburgh, PA, USA</i>)	6815
Contribution of MMP2 Promoter Genotypes to Oral Cancer Susceptibility, Recurrence and Metastasis in Taiwan. C.-W. TSAI, H.-M. HSU, Y.-C. WANG, W.-S. CHANG, L.-C. SHIH, K.-T. SUN, Y.-W. HUNG, Y.-C. YANG, C.-L. GONG, D.-T. BAU (<i>Taichung, Taiwan, ROC</i>)	6821
LC3A, LC3B and Beclin-1 Expression in Gastric Cancer. A. GIATROMANOLAKI, M.I. KOUKOURAKIS, I. GEORGIOU, M. KOUROUPI, E. SIVRIDIS (<i>Alexandroupolis, Greece</i>)	6827
Whole-Brain Radiotherapy (WBRT) for Brain Metastases: Does the Interval Between Imaging and Treatment Matter? H.C. HANSEN, S. JANSSEN, C. THIEME, A. PERLOV, S.E. SCHILD, D. RADES (<i>Lübeck; Hannover, Germany; Scottsdale, AZ, USA</i>)	6835
Prognostic Factors and a Survival Score in Patients Irradiated for Metastatic Epidural Spinal Cord Compression from Urothelial Carcinoma Cancer of the Bladder. D. RADES, L. SONDERMANN, L. MOTISI, S. JANSSEN, J. CACICEDO, S.E. SCHILD (<i>Lübeck; Hannover, Germany; Vizkaya, Spain; Scottsdale, AZ, USA</i>)	6841
Expression of Metallothionein I/II and Ki-67 Antigen in Graves' Disease. P. DOMOSLAWSKI, B. PULA, M. OLBROMSKI, B. WOJTCZAK, T. LUKIENCZUK, M. PODHORSKA-OKOLOW, P. DZIEGIEL (<i>Wroclaw, Poland</i>)	6847
Prognostic Significance of 14-3-3 ϵ , Aldo-keto Reductase Family 1 B10 and Metallothionein-1 in Hepatocellular Carcinoma. C.-Y. WU, Y.-J. JAN, B.-S. KO, Ya-Ju WU, Yi-Ju WU, J.-Y. LIOU (<i>Taichung; Taipei; Chiayi; Zhunan, Taiwan, ROC</i>)	6855
SMARCB1/INI1 Is Diagnostically Useful in Distinguishing α -Fetoprotein-producing Gastric Carcinoma from Hepatocellular Carcinoma. K. MOCHIZUKI, M. KAWAI, T. ODATE, I. TAHARA, T. INOUE, K. KASAI, T. NAKAZAWA, T. KONDO (<i>Chuo, Japan</i>)	6865

No Renal Toxicity After Repeated Treatment with Pressurized Intraperitoneal Aerosol Chemotherapy (PIPAC) in Patients with Unresectable Peritoneal Metastasis. V. LARBRE, M. ALYAMI, F. MERCIER, N. VANTARD, I. BONNEFOY, M.-A. OPSOMER, L. VILLENEUVE, N. BAKRIN, C. RIOUFOL, O. GLEHEN, V. KEPENEKIAN (<i>Pierre-Bénite; Lyon, France; Riyadh, Saudi Arabia; Montreal, Canada</i>)	6869
A Matched-Pair Study Comparing Surgery Plus Neoadjuvant Radio-Chemotherapy and Surgery Alone for High Rectal Cancers. D. RADES, R.P. VOGELSGANG, M. TREDER, ST. JANSSEN, S.E. SCHILD, N.H. HOLLÄNDER, I. GÖGENUR (<i>Lübeck; Hannover, Germany; Køge; Naestved, Denmark; Scottsdale, AZ, USA</i>)....	6877
Prognostic Significance of Survivin Expression and Combined Analysis with Cancer Stem Cell and Epithelial–Mesenchymal Transition-related Markers in Patients with Rectal Cancer Undergoing Preoperative Chemoradiotherapy. J. KIM, S. AHN, KY. KIM, M.S. CHO, K.H. KIM, R.-A. LEE, E.M. NAM (<i>Seoul; Seongnam, Republic of Korea</i>)	6881
Comparison of PD-L1 Assays in Non-small Cell Lung Cancer: 22C3 pharmDx and SP263. D. FUJIMOTO, D. YAMASHITA, J. FUKUOKA, Y. KITAMURA, K. HOSOYA, H. KAWACHI, Y. SATO, K. NAGATA, A. NAKAGAWA, R. TACHIKAWA, N. DATE, I. SAKANOUE, H. HAMAKAWA, Y. TAKAHASHI, K. TOMII (<i>Kobe; Nagasaki, Japan</i>)	6891
Outcomes After Radiotherapy Alone for Metastatic Spinal Cord Compression in Patients with Oligometastatic Breast Cancer. D. RADES, A. PANZNER, S. JANSSEN, J. DUNST, T. VENINGA, N.H. HOLLÄNDER, S.E. SCHILD (<i>Lübeck; Hannover; Kiel, Germany; Tilburg, Netherlands; Naestved, Denmark; Scottsdale, AZ, USA</i>)	6897
Predicting Pathological Complete Regression with Haematological Markers During Neoadjuvant Chemoradiotherapy for Locally Advanced Rectal Cancer. J.H. LEE, C. SONG, S.-B. KANG, H.S. LEE, K.-W. LEE, J.-S. KIM (<i>Seongnam; Seoul, Republic of Korea</i>)	6905
A Phase II Study of Tri-weekly Low-dose Nab-paclitaxel Chemotherapy for Patients with Advanced Gastric Cancer. S. SATO, C. KUNISAKI, Y. TANAKA, K. SATO, H. MIYAMOTO, N. YUKAWA, Y. FUJII, J. KIMURA, R. TAKAGAWA, M. TAKAHASHI, T. KOSAKA, H. AKIYAMA, Y. SAIGUSA, M. TAGURI, T. YAMANAKA, I. ENDO (<i>Yokohama; Yokosuka, Japan</i>)	6911
Management of Pleural Effusion After Mediastinoscopic Radical Esophagectomy. J. HAMADA, H. KONISHI, A. SHIOZAKI, H. FUJIWARA, K. SHODA, T. KOSUGA, T. KUBOTA, K. OKAMOTO, T. ARITA, R. MORIMURA, Y. MURAYAMA, H. IKOMA, Y. KURIU, M. NAKANISHI, E. OTSUJI (<i>Kyoto, Japan</i>)	6919
Liposomal Cytarabine–Daunorubicin (CPX-351) Extravasation: Case Report and Literature Review. G. HOWELL, C. OLIAI, G. SCHILLER (<i>Los Angeles, CA, USA</i>).....	6927
Radiation Therapy for Anal Squamous Cell Carcinoma: A Retrospective Multicenter Study. H.K. KOH, K. KIM, W.I. JANG, C.H. SONG, A.R. CHANG, H.J. PARK, K.S. KIM, J.H. CHANG, M.-S. KIM (<i>Seoul; Seongnam-si; Busan, Republic of Korea</i>)	6931
Efficacy of Enteral Access in Patients with Esophageal Squamous Cell Carcinoma Under Neoadjuvant Therapy. C.-H. HUANG, T.-F. WANG, Y.-F. WU, Y.-T. CHENG, S.-F. LO, T.-C. HSIEH, T.-C. PENG (<i>Hualien, Taiwan, ROC</i>)	6939
Distinct Clinical Courses of Epithelial Ovarian Cancer with Mutations in <i>BRCA1</i> 5' and 3' Exons. K.J. EOH, H.S. PARK, J.S. PARK, S.-T. LEE, J.W. HAN, J.-Y. LEE, S. KIM, S.W. KIM, Y.T. KIM, E.J. NAM (<i>Seoul, Republic of Korea</i>)	6947
ABSTRACTS OF THE 6TH INTERNATIONAL CONFERENCE ON ADVANCES IN HEMATOLOGY AND ONCOLOGY (ICAHO2018) 4-5 August, 2018 (Coeur d'Alene, ID, USA)	6955