

ANTICANCER RESEARCH

International Journal of Cancer Research and Treatment

ISSN: 0250-7005

Volume 42, Number 11, November 2022

Contents

Reviews

- Clinical Impact of Nutrition and Inflammation Assessment Tools in Gastric Cancer Treatment. T. AOYAMA, K. HARA, K. KAZAMA, Y. MAEZAWA (*Yokohama; Kanagawa; Tokyo, Japan*) 5167
- Management of Resistant Post-transplant Lymphoproliferative Disorder: CAR-T Is a New Option. J. STYCZYNSKI, J. SADLOK, T. STYCZYNSKI, A. MARJANSKA, M. RICHERT-PRZYGONSKA (*Bydgoszcz, Poland*) 5181

Experimental Studies

- Suppression of G Protein-coupled Estrogen Receptor 1 (GPER1) Enhances the Anti-invasive Efficacy of Selective ER β Agonists. V. SCHMITZ, G. BAUERSCHMITZ, J. GALLWAS, C. GRÜNDKER (*Göttingen, Germany*) 5187
- Candidate Oncogenes, *ARHGAP4*, *NOS3*, and *OR51B5*, for the Development of Scirrhus-type Gastric Cancer. T. SERA, T. SAKUMA, K. MARUO, G. TSUJIO, Y. YAMAMOTO, A. SUGIMOTO, S. KUSHIYAMA, S. TOGANO, K. KURODA, H. KASASHIMA, M. OHIRA, K. MAEDA (*Osaka, Japan*) 5195
- Inhibition of STAT3 Promotes Effector T Cell Infiltration But also Immunosuppression in the HCC Tumor Microenvironment. T. SASAKI, K. SHIGETA, S. KITAHARA, Y. SUZUKI, S. MATSUI, R. SEISHIMA, K. OKABAYASHI, D.G. DUDA, Y. KITAGAWA (*Tokyo; Sendai, Japan; Boston, MA, USA*)..... 5205
- Oral-recombinant Methioninase in Combination With Rapamycin Eradicates Osteosarcoma of the Breast in a Patient-derived Orthotopic Xenograft Mouse Model. N. MASAKI, Q. HAN, C. SAMONTE, N.F. WU, C. HOZUMI, J. WU, K. OBARA, Y. KUBOTA, Y. AOKI, M. BOUVET, R.M. HOFFMAN (*San Diego, CA; Cambridge, MA, USA; Tokyo; Narita, Japan*) 5217

Contents continued on the back cover

High Expression of <i>CD58</i> and <i>ALDH1A3</i> Predicts a Poor Prognosis in Basal-like Breast Cancer. Y. XIONG, H. MOTOMURA, S. TAMORI, A. OZAKI, C. ONAGA, Y. HARA, K. SATO, K. TAHATA, Y. HARADA, K. SASAKI, Y.-W. ZHENG, S. OHNO, K. AKIMOTO (<i>Chiba; Tokyo, Japan; Jiangsu, PR China</i>)	5223
Development of Novel Small Antitumor Compounds Inhibiting PD-1/PD-L1 Binding. Y. AKIYAMA, T. ASHIZAWA, A. IIZUKA, T. ANDO, Y. ISHIKAWA, R. KONDOU, H. MIYATA, C. MAEDA, A. KANEMATSU, T. SUGINO, K. YAMAGUCHI (<i>Shizuoka; Yokohama, Japan</i>)	5233
Luminophore Chemistry for Detection of Urinary Bladder Cancer – Comparison to Cytology and Urinary Rapid Tests (BTA stat [®] , NMP22 [®] BladderChek [®] and UBC [®] Rapid Test). T.H. ECKE, M. SCISLOWSKI, N. HASSAN, M. SAURA, S. HALLMANN, S. KOCH, S. VUOLLE, M. MALAKOUTIKHAH, K. KOPRA, H. HÄRMÄ (<i>Bad Saarow; Berlin; Brandenburg, Germany; Turku, Finland</i>)	5249
Loss of Heterozygosity of <i>BRCAl/2</i> as a Predictive Marker for Talazoparib Response. A.G. MIZRAHI, H. HAMAD, A. GUGENHEIM, B. NISMAN, A. KUZNETZ, I.B. DAVID, Y. GELFEND, S. COHEN, A. ZICK, K. SHEVA, H. NECHUSHTAN, T. PERETZ, A. MEIROVITZ (<i>Jerusalem; Be'er Sheva, Israel</i>)	5257
Pan-Aurora Kinase Inhibitor Danusertib Induces Apoptosis of Epstein–Barr Virus-transformed B-Cells Through Caspase and Endoplasmic Reticulum Stress Signaling. J.S. KIM, D.Y. HUR (<i>Busan, Republic of Korea</i>)	5265
The Contribution of Matrix Metalloproteinase-7 Promoter Genotypes to Hepatocellular Carcinoma Susceptibility. T.-C. YUEH, H.-Y. TSAO, W.-C. CHIEN, C.-W. TSAI, J.-S. PEI, M.-H. WU, C.-P. CHEN, C.-C. CHEN, Z.-H. WANG, M.-C. MONG, Y.-C. YANG, Y.-C. HUNG, D.-T. BAU, W.-S. CHANG (<i>Taichung; Taipei; Changhua; Taoyuan, Taiwan, ROC</i>)	5275
Significant Contribution of Interleukin-18 Genotypes to Childhood Acute Lymphocytic Leukemia Risk in Taiwanese. C.-C. CHEN, H.-E. TZENG, C.-C. KUO, S.N.S. LIM, P.-C. HSU, Y.-N. HSU, Y.-T. CHIN, W.-S. CHANG, C.-H. WANG, C.-W. TSAI, J.-S. PEI, D.-T. BAU (<i>Taoyuan; Taichung; Taipei, Taiwan, ROC</i>)	5283
Significance of Chr9p22.1-p21.3 Deletion in Cancer Development: A Pan-cancer <i>In Silico</i> Analysis. P.G. GONÇALVES, R.M. REIS, L.T. BIDINOTTO (<i>Barretos; Botucatu, SP, Brazil; Braga; Guimarães, Portugal</i>)	5291
Impact of Knowledge-based Plan Model Improvement on Plan Complexity and Deliverability in VMAT For Prostate Cancer: A Multi-institutional Study. M. TAMURA, Y. UEDA, J.-I. FUKUNAGA, T. KAMIMA, Y. SHIMIZU, Y. MURAKI, K. KUBO, K. NAKAMATSU, M. HOSONO, H. MONZEN (<i>Osaka; Fukuoka; Tokyo; Shizuoka, Japan</i>)	5305
Establishment and Characterisation of Human Clear Cell Sarcoma and Malignant Melanoma Cell Lines. M. ISHIGURO, T. FUKUSHIGE, H. IWASAKI, M. HAMASAKI (<i>Fukuoka, Japan</i>)	5315
Changes in Serum Trace Element Concentrations Before and After Surgery in Resectable Breast Cancer. E. TAKAHASHI, K. IMAI, M. FUKUYAMA, K. TERATA, H. NANJO, K. ISHIYAMA, Y. HIROSHIMA, M. YATSUYANAGI, C. KUDO, A. MORISHITA, A. WAKITA, S. TAKASHIMA, Y. SATO, K. NOMURA, Y. MINAMIYA (<i>Akita, Japan</i>)	5323
Role of Matrix Metalloproteinase-2 Genotypes in Taiwanese Patients With Colorectal Cancer. T.-C. YUEH, Y.-C. HUNG, H.-T. LEE, M.-D. YANG, Z.-H. WANG, Y.-C. YANG, T.-W. KE, J.-S. PEI, C.-W. TSAI, D.-T. BAU, W.-S. CHANG (<i>Taichung; Taipei; Taoyuan, Taiwan, ROC</i>)	5335
Engulfment and Cell Motility 1 (ELMO1) Regulates Tumor Cell Behavior and Predicts Prognosis in Colorectal Cancer. Y.-L. PARK, S.-B. CHO, S.-Y. PARK, H.-H. OH, E. MYUNG, C.-M. IM, S. SON, S. KIM, S.-Y. CHO, M.-W. CHUNG, J.-Y. HONG, K.-H. KIM, D.-S. MYUNG, W.-S. LEE, D. PARK, Y.-E. JOO (<i>Gwangju, Republic of Korea</i>)	5343

Intravascular Administration of Acridine Orange and Zoledronate in a Bone Metastasis Model of Breast Cancer. R. SHOJI, H. TSUCHIE, H. NAGASAWA, M. HONGO, Y. KASUKAWA, K. NOZAKA, D. KUDO, H. SAITO, K. ABE, S. IGARASHI, S. HARATA, F. KASAMA, N. MIYAKOSHI (<i>Akita, Japan</i>)	5357
The Activity of Vitamin C Against Ovarian Cancer Cells Is Enhanced by Hyperthermia. A. BIENKOWSKA-TOKARCZYK, A. MANDA-HANDZLIK, K. GAWRYCHOWSKI, U. DEMKOW, M. MAŁECKI (<i>Warsaw, Poland</i>)	5365
15-Prostaglandin Dehydrogenase Inhibition Enhances Colon Cancer Metastasis by Up-regulation of Epithelial-to-Mesenchymal Transition Genes. S.-H. KIM, S.E. SONG, H. BAIK, D.Y. HUR, M.S. KANG, K.B. BAE (<i>Busan, Republic of Korea</i>)	5385
Effects of Cyclooxygenase-2 in Canine Melanoma-derived Extracellular Vesicles on Tumor Microenvironment <i>In Vitro</i> . N.-H. KIM, J.-H. AN, J.-H. LEE, S.-M. PARK, K.-B. KIM, T.-H. KIM, Y.-I. OH, K.-W. SEO, H.-Y. YOUN (<i>Seoul; Chuncheon-si; Daegu, Republic of Korea</i>)	5397
Determination of Clonogenic Radiosensitivity of HeLa Cells in Early and Late G ₁ Phases. K. TOHYAMA, A. KAIDA, M. MIURA (<i>Tokyo, Japan</i>)	5407
<i>Clinical Studies</i>	
Prognostic Role of <i>Porphyromonas gingivalis</i> Gingipain Rgp and Matrix Metalloproteinase 9 in Oropharyngeal Squamous Cell Carcinoma. A.K. KYLMÄ, T. SORSA, L. JOUHI, H.K. MUSTONEN, H. MOHAMED, R. RANDÉN-BRADY, A. MÄKITIE, T. ATULA, J. HAGSTRÖM, C. HAGLUND (<i>Helsinki; Turku, Finland; Huddinge; Stockholm, Sweden; Al Bayda, Libya</i>)	5415
Lettermovir Prophylaxis for CMV Reactivation in Allogeneic Stem Cell Recipients: A Retrospective Single Center Analysis. K. KOCH, L. OSSWALD, I. MILLER, K. BRAITSCH, K. GÖTZE, F. BASSERMANN, P. HERHAUS, M. VERBEEK (<i>Munich, Germany</i>)	5431
Vascularized and Non-vascularized Fibula Grafts in Tumour Reconstruction: Single Centre Experience With Mid to Long-term Results. S.M. GORSKI, C. DONG, U. LENZE, M. HAUG, A.H. KRIEG (<i>Basel, Switzerland</i>)	5443
Impact of Routine Surveillance Imaging on Recurrence in Sinonasal Malignancies. K. KING, R. RAUCH, S. ROY, O. MENYOK, K. TATEBE, B. TAJUDEEN, P. PAPAGIANNPOULOS, P.S. BATRA, M. BHAYANI, S. AL KHUDARI, K. STENSON, M.J. JELINEK, M.J. FIDLER, N. JOSHI (<i>Chicago, IL, USA</i>)	5449
Effect of Palliative Care Decision on Use of Hospital Services in Pancreatic Cancer Patients: A Retrospective Study. S. MIINALAINEN, A. RISSANEN, R.-L. LESKELA, T. SAARTO, O. HIRVONEN, A. ANTTONEN (<i>Turku; Helsinki, Finland</i>)	5457
Initial Experience With Atezolizumab Plus Bevacizumab for Unresectable Hepatocellular Carcinoma: A Real-world Retrospective Study. S. TAKEDA, T. NAMISAKI, Y. TSUJI, Y. FUJIMOTO, K. MURATA, M. ENOMOTO, Y. FUJINAGA, N. NISHIMURA, K. KITAGAWA, H. TAKAYA, K. KAJI, T. INOUE, H. KAWARATANI, T. AKAHANE, A. MITORO, H. YOSHIJI (<i>Kashihara, Japan</i>)	5465
Molecular Characteristics and Immunogenomic Profiling of Cholangioblastic Variant of Intrahepatic Cholangiocarcinoma in a 68-year-old Patient. G. HUANG, L.N. HOWARD, E. ALONSOZANA, D. SILL, D. BOSE, J. LAI (<i>Clarksville; Baltimore, MD; Sacramento, CA, USA</i>)	5475
Rechallenge With Lenvatinib After Atezolizumab Plus Bevacizumab Treatment for Hepatocellular Carcinoma. S. KOMATSU, Y. YANO, M. KIDO, K. KURAMITSU, H. GON, K. FUKUSHIMA, T. URADE, S. SO, A. YAMAMOTO, T. GOTO, H. YANAGIMOTO, H. TOYAMA, Y. UEDA, Y. KODAMA, T. FUKUMOTO (<i>Kobe, Japan</i>)	5479

PTX Treatment of Colon Cancer: Mode of Action Based on Tumor Marker and Cytokine Kinetics. A. MEIROVITZ, L. BAIDER, T. PERETZ, S. STEPHANOS, V. BARAK (<i>Jerusalem, Israel; Ulm, Germany</i>)	5487
Efficacy of Adjuvant Chemotherapy Following Curative Resection of Colorectal Cancer Liver Metastases. K. TAKEDA, Y. KIKUCHI, Y. SAWADA, T. KUMAMOTO, J. WATANABE, C. KUNISKI, T. MISUMI, I. ENDO (<i>Yokohama, Japan</i>).....	5497
Surgery, Limb Edema and Health-related Quality of Life: A Prospective Follow-up Study on Patients With Cutaneous Malignant Melanoma. P. HEINO, P. MYLLÄRI, T. JAHKOLA, M.-L. LUOMA, P. RÄSÄNEN, R.P. ROINE (<i>Helsinki; Kuopio, Finland</i>)	5507
Interleukin-18 (IL-18) Cytokine Serum Concentrations Correlate With Pain Scores and the Number of Analgesic Doses Following Surgery. M. ESKELINEN, I. SAIMANEN, T. SELANDER, A. HOLOPAINEN, S. ASPINEN, E. HÄMÄLÄINEN, M. ESKELINEN (<i>Kuopio, Finland</i>)	5521
Pre-and Postoperative Circulating Tumour DNA in Patients With Gastrointestinal Stromal Tumour – A Methodological Assessment Study. C.M. BRINCH, N. AGGERHOLM-PEDERSEN, T.S. POULSEN, W. SKOVRIDER-RUMINSKI, P. DE HEER, L. PENNINGA, A. KRARUP-HANSEN, E. HOGDALL (<i>Herlev; Aarhus; Copenhagen, Denmark</i>)	5527
Neoadjuvant Therapy for Patients With Non-small Cell Lung Cancer Complicated With Chest Wall Invasion. K. SATO, S. NAKAMURA, Y. KADOMATSU, H. UENO, T. KATO, N. OZEKI, K. FUKUMOTO, T.F. CHEN-YOSHIKAWA (<i>Nagoya, Japan</i>).....	5539
Association Between a High Gene Expression Variant of Chymase and Increased Risk for Basal Cell Carcinoma. S. CHARALAMPIDOU, I. GINTONI, D. AVGOUSTIDIS, V. PAPAKOSTA, D. VLACHAKIS, S. VASSILIOU, C. YAPIJAKIS (<i>Athens, Greece</i>)	5547
Clinical Significance of Early Recurrence After Curative Resection of Colorectal Cancer. N. YAMAUCHI, T. MATSUDA, R. SAWAD, H. HASEGAWA, K. YAMASHITA, H. HARADA, N. URAKAWA, H. GOTO, S. KANAJI, T. OSHIKIRI, Y. KAKEJI (<i>Kobe, Japan</i>)	5553
Distress Scores During a Course of Radiotherapy: A Pilot Study. C. DELIKANLI, S. JANSSEN, D. KEIL, S. TVILSTED, S.E. SCHILD, D. RADES (<i>Lübeck; Hannover, Germany; Køge, Denmark; Scottsdale, AZ, USA</i>).....	5561
Prognostic Significance of the Nodal Ratio and Number of Positive Nodes in Patients With Squamous Cell Carcinomas of the Head and Neck. I. REUTER, H.-H. MÜLLER, S. WIEGAND (<i>Marburg; Münster; Leipzig, Germany</i>)	5567
The Significance of Staging Laparoscopy in Detection of Radiologically Occult Peritoneal Carcinomatosis in Gastric Cancer With Gastric Outlet Obstruction: Consideration of The Optimal Treatment Approach. M. KOMATSU, T. KINOSHITA, E. AKIMOTO, M. YOSHIDA, D. TERAJIMA, H. NAGATA, T. HABU, T. OKAYAMA, Y. TAKABE, J. HARADA, M. YAMAGUCHI, M. YURA (<i>Kashiwa; Tokyo, Japan</i>).....	5571
Hispanic vs. Caucasian Race/Ethnicity in Adrenocortical Carcinoma Patients. A. PANUNZIO, S. TAPPERO, C.C. GARCIA, M. PICCINELLI, F. BARLETTA, R.-B. INCESU, Z. TIAN, A. TAFURI, D. TILKI, A. BRIGANTI, O. DE COBELLI, F.K.H. CHUN, C. TERRONE, F. SAAD, S.F. SHARIAT, I. BOURDEAU, M.A. CERRUTO, A. ANTONELLI, P.I. KARAKIEWICZ (<i>Verona; Genoa; Milan, Italy; Montreal, QC, Canada; Frankfurt am Main; Hamburg, Germany; Istanbul, Turkey; Vienna, Austria; New York, NY; Dallas, TX, USA; Amman, Jordan</i>)	5579
Neoadjuvant Modified Short-course Radiotherapy for Stage IV Rectal Cancer. H. DOI, M. FUJIWARA, N. BEPPU, H. YOKOYAMA, S. HARUI, A. SUGIHARA, H. YANAGI, Y. HISHIKAWA, N. YAMANAKA, N. KAMIKONYA (<i>Nishinomiya; Osaka-Sayama, Japan</i>)	5587

Detection of Recurrence After Primary Treatment for Oropharyngeal Carcinoma. F. LANDSTRÖM, J. REIZENSTEIN, S. KRISTIANSOON (<i>Örebro, Sweden</i>)	5597
Clinicopathological Characterization of Primary Diffuse Large B-Cell Lymphoma of the Central Nervous System. H.YO. WOO, S.W. CHAE, S.-I. DO, K. NA (<i>Seoul, Republic of Korea</i>).....	5601
Potential Utility of the Mallampati Score for Prediction of Treatment Compliance and Safety Profiles of Patients With Head and Neck Cancer Undergoing Definitive Concurrent Chemoradiotherapy. P.-H. SU, C.-C. HSU, S.-W. HSUEH, C.-Y. HUNG, K.-Y. YEH, H.-M. WANG, C.-H. LU, Y.-C. LIN, J.T.-C. CHANG, W.-C. CHOU (<i>Keelung; Taoyuan; Taipei; Chiayi, Taiwan, ROC</i>).....	5609
Thyroglobulin Levels as a Predictor of Papillary Cancer Recurrence After Thyroid Lobectomy. J.-S. CHO, H.K. KIM (<i>Gwangju, Republic of Korea</i>).....	5619
A Survival Score for Very Elderly Patients With Brain Metastases Assigned to Stereotactic Radiosurgery or Fractionated Stereotactic Radiotherapy. D. RADES, C. DELIKANLI, O. BLANCK, S.E. SCHILD, S. JANSSEN (<i>Lübeck; Kiel; Hannover, Germany; Scottsdale, AZ, USA</i>)	5629
The Clinical Impact of Other Primary Cancer in Patients Who Received Curative Treatment for Esophageal Cancer. T. AOYAMA, Y. MAEZAWA, K. HARA, M. JU, K. KOMORI, H. TAMAGAWA, A. TAMAGAWA, K. KAZAMA, S. SAWAZAKI, I. HASHIMOTO, K. KANO, H. CHO, J. MORITA, K. SEGAMI, T. ISHIGURO, T. SATO, T. OSHIMA, N. YUKAWA, Y. RINO (<i>Yokohama; Tokyo, Japan</i>)	5635
Gustave Roussy Immune Score for Predicting Postoperative Complications and Non-cancer Death in Elderly Patients With Colon Cancer. T. TOMINAGA, T. NONAKA, S. OYAMA, Y. TAKAMURA, S. HASHIMOTO, T. SHIRAISHI, T. SAWAI, T. NAGAYASU (<i>Nagasaki, Japan</i>)	5643
Evaluating Neoadjuvant Chemotherapy for Lower Esophageal Squamous Cell Carcinoma by Measuring Esophageal Wall Thickness. H. SATO, K. NISHIKAWA, T. HAMAKAWA, C. KUSUNOKI, M. MIYAKE, A. MIYAMOTO, T. KATO, M. MANO, K. TAKAMI, M. HIRAO (<i>Suita; Sakai; Osaka; Izumisano, Japan</i>)	5655
Vater Papilla-preserving Strategy for Advanced Hepatocellular Carcinoma With Excessive Bile Duct Tumor Thrombus. K. YAMAMURA, T. BEPPU, K. INOUE, K. MATSUMURA, E. ODA, Y. NAGAYAMA, T. MOTOHARA, H. MIYAMOTO, Y. KOMOHARA, H. OKABE, T. MIYATA, T. ISIKO (<i>Kumamoto, Japan</i>)	5663
Corrigenda	5671