

ANTICANCER RESEARCH

International Journal of Cancer Research and Treatment

ISSN: 0250-7005

Volume 39, Number 5, May 2019

Contents

Reviews

Clinical Impact of Sarcopenia on Gastric Cancer. K. KUWADA, S. KURODA, S. KIKUCHI, R. YOSHIDA, M. NISHIZAKI, S. KAGAWA, T. FUJIWARA (<i>Okayama, Japan</i>)	2241
NEK2 Is an Effective Target for Cancer Therapy With Potential to Induce Regression of Multiple Human Malignancies. T. KOKURYO, Y. YOKOYAMA, J. YAMAGUCHI, N. TSUNODA, T. EBATA, M. NAGINO (<i>Nagoya, Japan</i>)	2251
Clinical Outcomes of Recombinant Human-soluble Thrombomodulin Treatment for Disseminated Intravascular Coagulation in Solid Tumors. S. KASHIWAGI, Y. ASANO, K. TAKAHASHI, M. SHIBUTANI, R. AMANO, S. TOMITA, K. HIRAKAWA, M. OHIRA (<i>Osaka, Japan</i>)	2259
¹¹ Boron Delivery Agents for Boron Proton-capture Enhanced Proton Therapy. K. HIDEGHÉTY, S. BRUNNER, A. CHEESMAN, E.R. SZABÓ, R. POLANEK, D. MARGARONE, T. TÓKÉS, K. MOGYORÓSI (<i>Szeged, Hungary; Prague, Czech Republic</i>)	2265

Experimental Studies

Intraductal Adaptation of the 4T1 Mouse Model of Breast Cancer Reveals Effects of the Epithelial Microenvironment on Tumor Progression and Metastasis. H.I. ATIYA, A. DVORKIN-GHEVA, J. HASSELL, S. PATEL, R.L. PARKER, A. HARTSTONE-ROSE, J. HODGE, D. FAN, A.F. RAMSDELL (<i>Columbia; Charleston, SC; Raleigh, NC, USA; Hamilton, ON, Canada</i>)	2277
--	------

Contents continued on the back cover

Differential Prognostic Relevance of Promoter DNA Methylation of <i>CDO1</i> and <i>HOPX</i> in Primary Breast Cancer. Y. TANAKA, Y. KOSAKA, M. WARAYA, K. YOKOTA, H. HARADA, T. KAIDA, M. KIKUCHI, N. MINATANI, H. NISHIMIYA, H. KATOH, N. SENGOKU, M. WATANABE, K. YAMASHITA (<i>Sagamihara, Japan</i>)	2289
Death Receptor 6 (DR6) Is Overexpressed in Astrocytomas. S. STEGMANN, J.-M. WERNER, S. KUHL, G. RÖHN, B. KRISCHEK, P. STAVRINOU, R. GOLDBRUNNER, M. TIMMER (<i>Cologne, Germany</i>)	2299
Hyperthermia Suppresses Post - <i>In Vitro</i> Proliferation and Tumor Growth in Murine Malignant Melanoma and Colon Carcinoma. T. MANTSO, S. VASILEIADIS, E. LAMPRI, S. BOTAITIS, S. PERENTE, C. SIMOPOULOS, K. CHLICHLIA, A. PAPPA, M.I. PANAYIOTIDIS (<i>Newcastle Upon Tyne; Edinburgh, UK; Alexandroupolis; Ioannina, Greece</i>)	2307
The Pathological Significance and Prognostic Roles of Thrombospondin -1, and -2, and 4N1K-peptide in Bladder Cancer. Y. NAKAMURA, Y. MIYATA, K. TAKEHARA, A. ASAI, K. MITSUNARI, K. ARAKI, T. MATSUO, K. OHBA, H. SAKAI (<i>Nagasaki, Japan</i>)	2317
MCM5 Expression Is Associated With the Grade of Malignancy and Ki-67 Antigen in LSCC. K. NOWINSKA, U. CIESIELSKA, A. PIOTROWSKA, K. JABLONSKA, A. PARTYNASKA, M. PAPROCKA, T. ZATONSKI, M. PODHORSKA-OKOLOW, P. DZIEGIEL (<i>Wroclaw, Poland</i>)	2325
Hypoxia Induced by Vascular Damage at High Doses Could Compromise the Outcome of Radiotherapy. E. KJELLSSON LINDBLOM, A. DASU, I. TOMA-DASU (<i>Stockholm; Linköping; Uppsala, Sweden</i>)	2337
Correlation of Expression of CHI3L1 and Nogo-A and their Role in Angiogenesis in Invasive Ductal Breast Carcinoma. A. RUSAK, K. JABLONSKA, A. PIOTROWSKA, J. GRZEGRZOLKA, A. WOJNAR, P. DZIEGIEL (<i>Wroclaw, Poland</i>)	2341
Activation of Hedgehog Signaling in Aggressive Hepatic Hemangioma in Newborns and Infants. D. WENDLING-KEIM, C. VOKUHL, C. WALZ, L. RIEDER, R. GRANTZOW, D. VON SCHWEINITZ, R. KAPPLER, M. BERGER (<i>Munich; Kiel, Germany</i>)	2351
Promoter Methylation Down-regulates Osteoprotegerin Expression in Ovarian Carcinoma. J.-Y. KIM, S.H. KIM, H.-S. KIM (<i>Seoul; Goyang, Republic of Korea</i>)	2361
Diallyl Trisulfide Enhances Benzo[a]pyrene-induced <i>CYP1A1</i> Expression and Metabolic Activation in Hepatic HepG2 Cells. S. UNO, M. SAKAI, Y. FUJINARI, T. HOSONO, T. SEKI, M. MAKISHIMA (<i>Tokyo; Kanagawa, Japan</i>)	2369
Lapatinib Inhibits Amphiregulin-induced BeWo Choriocarcinoma Cell Proliferation by Reducing ERK1/2 and AKT Signaling Pathways. L.V. PIRES, Y. YI, J.-C. CHENG, L. SCHNEIDER PIZZOLATO, E. CORDERO, P.C.K. LEUNG, I.S. BRUM (<i>Porto Alegre, RS, Brazil; Vancouver, BC, Canada</i>)	2377
Nonsteroidal Anti-inflammatory Drugs Modulate Gene Expression of Inflammatory Mediators in Oral Squamous Cell Carcinoma. D.M. ANTUNES, M.F.S.D. RODRIGUES, D.M. GUIMARÃES, C.M.E. DUARTE, L. MIGUITA, L. CORRÊA, A.P.L. DE OLIVEIRA, K.P.S. FERNANDES, F.D. NUNES (<i>São Paulo; Grosso do Sul, Brazil</i>)	2385
The Epigenetic Modifier 5-Aza-2-deoxycytidine Triggers the Expression of <i>CD146</i> Gene in Prostate Cancer Cells. P. DUDZIK, S.E. TROJAN, B. OSTROWSKA, G. ZEMANEK, J. DULIŃSKA-LITEWKA, P. LAIDLER, K.A. KOCEMBA-PILARCZYK (<i>Cracow, Poland</i>)	2395
Cold Atmospheric Plasma Induces HMGB1 Expression in Cancer Cells. Y. YOON, B. KU, K. LEE, Y.J. JUNG, S.J. BAEK (<i>Seoul; Seongnam, Republic of Korea</i>)	2405

Synthesis of ⁶⁸ Ga-Labeled Biopolymer-based Nanoparticle Imaging Agents for Positron-emission Tomography. Z. KÖRHEGYI, D. RÓZSA, I. HAJDU, M. BODNÁR, I. KERTÉSZ, K. KEREKES, S. KUN, J. KOLLÁR, J. VARGA, I. GARAI, G. TRENCSÉNYI, J. BORBÉLY (<i>Debrecen, Hungary</i>)	2415
Perfluorooctanoic Acid Enhances Invasion of Follicular Thyroid Carcinoma Cells Through NF-κB and Matrix Metalloproteinase-2 Activation. P. SAEJIA, K. LIRDPRAPAMONGKOL, J. SVASTI, N.M. PARICHARTTANAKUL (<i>Bangkok, Thailand</i>)	2429
Investigation of Caspase 9 Gene Polymorphism in Patients With Non-small Cell Lung Cancer. S. ERCAN, S. ARINC, S.G. YILMAZ, C. ALTUNOK, F. YAMAN, T. ISBIR (<i>Istanbul, Turkey</i>)	2437
Platelet Depletion/Transfusion as a Lethal Factor in a Colitis-associated Cancer Mouse Model. A. ANGELOU, E. ANTONIOU, A. PIKOULI, J. WANG, M. VENTIN, S. BUETTNER, M. FAATEH, G. THEODOROPOULOS, G.C. ZOGRAFOS, S. THEOCHARIS, A.E. PAPALOIS, E. PIKOULIS, G.A. MARGONIS (<i>Athens, Greece; Baltimore, MD, USA; Udine, Italy; Nicosia, Cyprus</i>)	2443
<i>TP53</i> Tumor-suppressor Gene Plays a Key Role in IGF1 Signaling Pathway Related to the Aging of Human Melanocytes. H. KO, M.-M. KIM (<i>Busan, Republic of Korea</i>)	2447
Protective Effect of Melatonin on Cisplatin-induced Ototoxicity in Rats. J.G. DE ARAUJO, L.S.M. SERRA, L. LAUAND, S.A.S. KÜCKELHAUS, A.L.L. SAMPAIO (<i>Brasilia, Brazil</i>)	2453
Clinical Studies	
Prognostic Impact of Proximal <i>Versus</i> Distal Localization in Extremity Long Bone Osteosarcomas. K. BERNER, Ø.S. BRULAND (<i>Oslo, Norway</i>)	2459
Treatment of Metastatic Castration-resistant Prostate Cancer With Abiraterone and Enzalutamide Despite PSA Progression. D.J. BECKER, A.D. IYENGAR, S.R. PUNEKAR, J. NG, A. ZAMAN, S. LOEB, K.D. BECKER, D. MAKAROV (<i>New York; Brooklyn, NY, USA</i>)	2467
Annexin A2 and S100A10 as Candidate Prognostic Markers in Epithelial Ovarian Cancer. M.V. CHRISTENSEN, C. HØGDALL, S.G. JENSEN, N. LOKMAN, C. RICCIARDELLI, I.J. CHRISTENSEN, P. CHRISTIANSEN, J. BRASK, M.A. KARLSEN, T.K. NISSEN, K.M. JOCHUMSEN, E. HØGDALL (<i>Copenhagen; Odense, Denmark; Adelaide, Australia</i>)	2475
An Exploratory Randomized Phase II Trial Comparing CDDP Plus S-1 With Bevacizumab and CDDP Plus Pemetrexed With Bevacizumab Against Patients With Advanced Non-squamous Non-small Cell Lung Cancer. K. KAIRA, H. IMAI, R. SOUMA, R. SAKURAI, Y. MIURA, N. SUNAGA, N. KASAHARA, Y. TSUKAGOSHI, Y. KOGA, S. KITAHARA, M. KOTAKE, K. MINATO, I. NARUSE, Y. FUKUSHIMA, T. HISADA, T. ISHIZUKA (<i>Gunma; Saitama; Fukui, Japan</i>)	2483
Usefulness of 18-FDG PET/CT in Detecting Malignancy in Intraductal Papillary Mucinous Neoplasms of the Pancreas. Y.-I. YAMASHITA, H. OKABE, H. HAYASHI, K. IMAI, S. NAKAGAWA, Y. NAKAO, T. YUSA, R. ITOYAMA, T. YAMA, N. UMESAKI, K. ARIMA, T. MIYATA, A. CHIKAMOTO, H. BABA (<i>Kumamoto, Japan</i>)	2493
Radioablation of Hepatic Metastases from Renal Cell Carcinoma With Image-guided Interstitial Brachytherapy. J. OMARI, C. HEINZE, R. DAMM, P. HASS, A. JANITZKY, J.J. WENDLER, M. SEIDENSTICKER, J. RICKE, M.J. POWERSKI, M. PECH (<i>Magdeburg; Munich, Germany; Gdansk, Poland</i>)	2501
Percutaneous Irreversible Electroporation as First-line Treatment of Locally Advanced Pancreatic Cancer. C. MÅNSSON, R. BRAHMSTAEDT, P. NYGREN, A. NILSSON, J. URDZIK, B.-M. KARLSON (<i>Uppsala, Sweden</i>)	2509

Clinical Outcome of Patients With Malignant Tumors Associated With Mature Cystic Teratomas of the Ovary: A Retrospective Multicenter Italian Study. A. GADDUCCI, D. GIULIANI, S. COSIO, A. LISSONI, A.M. FERRERO, F. LANDONI (<i>Pisa; Milan; Turin, Italy</i>)	2513
The Utility of Optical Instrument “ORALOOK®” in the Early Detection of High-risk Oral Mucosal Lesions. T. MORIKAWA, A. KOSUGI, T. SHIBAHARA (<i>Chiba, Japan</i>)	2519
Survival Rates According to Tumour Location in Patients With Surgically-treated Oral and Oropharyngeal Squamous Cell Carcinoma. P. JEHN, J. DITTMANN, R. ZIMMERER, R. STIER, M. JEHN, N.-C. GELLRICH, F. TAVASSOL, S. SPALTHOFF (<i>Hannover, Germany</i>)	2527
Role of Amino Acid Transporter Expression as a Prognostic Marker in Patients With Surgically Resected Colorectal Cancer. H. OGAWA, K. KAIRA, Y. MOTEGI, T. YOKOBORI, T. TAKADA, R. KATOH, K. OSONE, R. TAKAHASHI, C. KATAYAMA, T. OYAMA, Y. KANAI, T. YAO, T. ASAOKA, H. KUWANO, K. SHIRABE (<i>Gunma; Saitama; Osaka; Tokyo, Japan</i>)	2535
Comparison of Clinical Outcomes of Gastrojejunal Bypass and Gastrectomy in Patients With Metastatic Gastric Cancer. D. MATSUBARA, H. KONISHI, T. KUBOTA, T. KOSUGA, K. SHODA, A. SHIOZAKI, H. FUJIWARA, K. OKAMOTO, E. OTSUJI (<i>Kyoto, Japan</i>)	2545
Quantification of Bone Metastasis of Castration-resistant Prostate Cancer After Enzalutamide and Abiraterone Acetate Using Bone Scan Index on Bone Scintigraphy. S. KADOMOTO, H. YAEGASHI, K. NAKASHIMA, M. IIJIMA, S. KAWAGUCHI, T. NOHARA, K. SHIGEHARA, K. IZUMI, Y. KADONO, K. NAKAJIMA, A. MIZOKAMI (<i>Kanazawa, Japan</i>)	2553
Association Between Formalin Fixation Time and Programmed Cell Death Ligand 1 Expression in Patients With Non-small Cell Lung Cancer. H. KAWACHI, D. FUJIMOTO, D. YAMASHITA, J. FUKUOKA, Y. KITAMURA, K. HOSOYA, Y. SATO, K. NAGATA, A. NAKAGAWA, R. TACHIKAWA, N. DATE, I. SAKANOUE, H. HAMAKAWA, Y. TAKAHASHI, K. TOMII (<i>Kobe; Nagasaki, Japan</i>)	2561
Diagnosis-specific WBRT-30-CRC Score for Estimating Survival of Patients Irradiated for Brain Metastases from Colorectal Cancer. D. RADES, H.C. HANSEN, S. JANSSEN, S.E. SCHILD (<i>Lübeck; Hannover, Germany; Scottsdale, AZ, USA</i>)	2569
Diagnostic Power of Selected Cytokines, MMPs and TIMPs in Ovarian Cancer Patients – ROC Analysis. G.E. BĘDKOWSKA, B. PISKÓR, E. GACUTA, M. ZAJKOWSKA, J. OSADA, M. SZMITKOWSKI, M. DĄBROWSKA, S. ŁAWICKI (<i>Białystok, Poland</i>)	2575
Neutrophil-to-Lymphocyte Ratio as a Prognostic Indicator in Patients With Unresectable Gastric Cancer. Y. MURAKAMI, H. SAITO, S. SHIMIZU, Y. KONO, Y. SHISHIDO, K. MIYATANI, T. MATSUNAGA, Y. FUKUMOTO, Y. FUJIWARA (<i>Yonago, Japan</i>)	2583
Small Lymphocytic Lymphoma: Analysis of Two Cohorts Including Patients in Clinical Trials of the German Chronic Lymphocytic Leukemia Study Group (GCLLSG) or in “Real-Life” Outside of Clinical Trials. S. SACHANAS, G.A. PANGALIS, A.-M. FINK, J. BAHLO, K. FISCHER, G. LEVIDOU, M.-C. KYRTSONIS, V. BARTZI, T.P. VASSILAKOPOULOS, C. KALPADAKIS, E. KOULIERIS, M. MOSCHOGIANNIS, X. YIAKOURIS, P. TSIRKINIDIS, M.K. ANGELOPOULOU, B. EICHHORST, M. HALLEK (<i>Athens; Karditsa; Heraklion, Greece; Cologne; Erlangen, Germany</i>)	2591
A Retrospective Head-to-head Comparison Between TiLoop Bra/TiMesh® and Seragyn® in 320 Cases of Reconstructive Breast Surgery. C. EICHLER, C. SCHULZ, F. THANGARAJAH, W. MALTER, M. WARM, K. BRUNNERT (<i>Cologne; Osnabrück, Germany</i>)	2599

Initial Experience With Radium-223 Chloride Treatment at the Kanazawa University Hospital. K. NAKASHIMA, T. MAKINO, S. KADOMOTO, H. IWAMOTO, H. YAEGASHI, M. IIJIMA, S. KAWAGUCHI, T. NOHARA, K. SHIGEHARA, K. IZUMI, Y. KADONO, S. MATSUO, A. MIZOKAMI (<i>Kanazawa; Ishikawa, Japan</i>)	2607
Efficacy and Safety of Enoxaparin for Prophylaxis of Postoperative Venous Thromboembolism After Esophagectomy: A Single-center Prospective Randomized Controlled Phase II Study. Y. TANAKA, A. YAMADA, S. HIRATA, H. TANAKA, T. SAKURATANI, N. MATSUHASHI, K. YAMAGUCHI, T. SHIMOKAWA, K. YOSHIDA (<i>Gifu; Wakayama, Japan</i>)	2615
A Case Report of Adult Pineoblastoma Occurring in a Pregnant Woman. F. CUCCIA, G. MORTELLARO, D. CESPUGLIO, V. VALENTI, G. DE GREGORIO, E. QUARTUCCIO, L. BLASI, N. FRANCaviglia, C. GALLO, A. LO CASTO, G. FERRERA (<i>Palermo, Italy</i>)	2627
Long-term Quality of Life of Melanoma Survivors Is Comparable to that of the General Population. P.J. HEINO, P.H. MYLLÄRI, T.A. JAHKOLA, H. SINTONEN, M.-L. LUOMA, P. RÄSÄNEN, R.P. ROINE (<i>Helsinki; Kuopio, Finland</i>)	2633
Clinical Usefulness of Perioperative C-reactive Protein/Albumin Ratio in Patients With Intrahepatic Cholangiocarcinoma: A Retrospective Single Institutional Study. Y. NAKAO, Y.-I. YAMASHITA, K. ARIMA, T. MIYATA, R. ITOYAMA, T. YUSA, N. UMEZAKI, T. YAMAO, S. NAKAGAWA, H. OKABE, K. IMAI, A. CHIKAMOTO, H. BABA (<i>Kumamoto, Japan</i>)	2641
The Role of Previous Therapies and Sites of Metastasis as Influencing Factors on Discordance of ER, PR and HER2 Status Between Primary and Metastasized Breast Cancer. C. VOGEL, W. MALTER, B. MORGENSTERN, S. LUDWIG, J.J. VEHRESCHILD, S. HAMACHER, P. MALLMANN, V. KIRN, F. THANGARAJAH (<i>Cologne, Germany</i>)	2647
Comparison of Minimally Invasive Surgery and Abdominal Surgery Among Patients With Cervical Cancer. D. RATIU, C. LUNCESCU, B. MORGENSTERN, C. EICHLER, B. GRÜTTNER, S. LUDWIG, P. MALLMANN, F. THANGARAJAH (<i>Cologne, Germany</i>)	2661
Prognosis of Early-stage Part-solid and Pure-solid Lung Adenocarcinomas. F. KINOSHITA, G. TOYOKAWA, T. MATSUBARA, Y. KOZUMA, N. HARATAKE, S. TAKAMORI, T. AKAMINE, F. HIRAI, T. TAKENAKA, T. TAGAWA, Y. MAEHARA (<i>Fukuoka; Hiroshima, Japan</i>)	2665
Influence of Postoperative Pneumonia on Esophageal Cancer Survival and Recurrence. A. TAMAGAWA, T. AOYAMA, H. TAMAGAWA, M. JU, K. KOMORI, Y. MAEZAWA, K. KANO, K. KAZAMA, M. MURAKAWA, Y. ATSUMI, S. SAWAZAKI, K. HARA, M. NUMATA, T. SATO, N. YUKAWA, M. MASUDA, Y. RINO (<i>Kanazawa, Japan</i>)	2671
Book Reviews	2679
Announcements	2681