

# ANTICANCER RESEARCH

## International Journal of Cancer Research and Treatment

ISSN: 0250-7005

**Volume 38, Number 9, September 2018**

### Contents

#### Reviews

Directed Therapies in Anaplastic Lymphoma Kinase-rearranged Non-small Cell Lung Cancer. R.L. MILLETT, J.M. ELKON, I.A. TABBARA ( <i>Washington, DC, USA</i> ) .....	4969
Whole Lung Irradiation in Patients with Osteosarcoma and Ewing Sarcoma. L. RONCHI, M. BUWENGE, A. CORTESI, I. AMMENDOLIA, R. FRAKULLI, M.E. ABATE, A. ARCELLI, C.M. DONATI, G. MACCHIA, A.G. MORGANTI, S. CAMMELLI ( <i>Bologna; Meldola; Campobasso, Italy</i> ) .....	4977
Metastatic Spinal Cord Compression: Unraveling the Diagnostic and Therapeutic Challenges. S. BOUSSIOS, D. COOKE, C. HAYWARD, F.S. KANELLOS, A.K. TSIOURIS, A.A. CHATZIANTONIOU, N. ZAKYNTHINAKIS-KYRIAKOU, A. KARATHANASI ( <i>Kent; Leicester, UK; Ioannina, Greece</i> ) .....	4987
Radiation-induced Demyelination and Remyelination in the Central Nervous System: A Literature Review. L. HELSON ( <i>East Winsdor, NJ, USA</i> ) .....	4999

#### Experimental Studies

Effects of Biguanides on Growth and Glycolysis of Bladder and Colon Cancer Cells. M.A. LEA, H. KIM, C. desBORDES ( <i>Newark, NJ; Brooklyn, NY, USA</i> ) .....	5003
Pax-5 Inhibits Breast Cancer Proliferation Through MiR-215 Up-regulation. N. LEBLANC, J. HARQUAIL, N. CRAPOULET, R.J. OUELLETTE, G.A. ROBICHAUD ( <i>Moncton, Canada</i> ) .....	5013

*Contents continued on the back cover*

Identification of a Novel MicroRNA Panel Associated with Metastasis Following Radical Prostatectomy for Prostate Cancer. R.K. NAM, C.J.D. WALLIS, Y. AMEMIYA, T. BENATAR, A. SETH ( <i>Toronto, Canada</i> ) .....	5027
Establishment and Characterization of a Novel Human Clear-cell Sarcoma of Soft-tissue Cell Line, RSAR001, Derived from Pleural Effusion of a Patient with Pleural Dissemination. M. HAKOZAKI, H. TAMURA, Y. DOBASHI, A. YOSHIDA, K. KATO, T. TAJINO, H. YAMADA, Y. KANEUCHI, K. KATAHIRA, J. EZAKI, S. WAGURI, S. KONNO, S. WATANABE ( <i>Fukushima; Okayama; Saitama, Japan</i> ) .....	5035
Effect of Vitamin D on Paclitaxel Efficacy in Triple-negative Breast Cancer Cell Lines. C.A. WILHELM, Z.J. CLOR, J.L. KELTS ( <i>Flint, MI, USA</i> ) .....	5043
Novel Human NK Cell Line Carrying CAR Targeting EGFRvIII Induces Antitumor Effects in Glioblastoma Cells. T. MURAKAMI, T. NAKAZAWA, A. NATSUME, F. NISHIMURA, M. NAKAMURA, R. MATSUDA, K. OMOTO, Y. TANAKA, Y. SHIDA, Y.-S. PARK, Y. MOTOYAMA, I. NAKAGAWA, S. YAMADA, K. TAMURA, Y. TAKESHIMA, Y. TAKAMURA, T. WAKABAYASHI, H. NAKASE ( <i>Kashihara; Nagoya, Japan</i> ) .....	5049
Implication of BIS in the Migration and Invasion of A549 Non-small Cell Lung Cancer Cells. J. LEE, H.H. YUN, S. KIM, S.H. JI, H.-J. KUH, J.-H. LEE ( <i>Seoul, Republic of Korea</i> ) .....	5057
The Auricular VX2 Carcinoma Is a Suitable Animal Model for Identifying Biomarkers for HNSCC Therapy Response. M. BETTE, A. NOWAK-ROSSMANN, R. MANDIC ( <i>Marburg, Germany</i> ) .....	5067
<i>Trichomonas vaginalis</i> Inhibits HeLa Cell Growth Through Modulation of Critical Molecules for Cell Proliferation and Apoptosis. Z. ZHU, L. ZHAO, A. BRITTINGHAM, Q. BAI, M.R. WAKEFIELD, Y. FANG ( <i>Des Moines, IA; Columbia, MO, USA; Hefei, PR China</i> ) .....	5079
The Plasma Levels of the Angiogenic Cytokine Endocan Are Elevated in Patients with Multiple Myeloma. N. STEINER, R. HAJEK, S. SEVCIKOVA, B. BORJAN, G. UNTERGASSER, G. GÖBEL, E. GUNSLIUS ( <i>Innsbruck, Austria; Ostrava; Brno, Czech Republic</i> ) .....	5087
AS602801, an Anti-Cancer Stem Cell Drug Candidate, Suppresses Gap-junction Communication Between Lung Cancer Stem Cells and Astrocytes. K. KURAMOTO, M. YAMAMOTO, S. SUZUKI, T. SANOMACHI, K. TOGASHI, S. SEINO, C. KITANAKA, M. OKADA ( <i>Yamagata, Japan</i> ) .....	5093
Low Doses of the Anti-psychotic Drug Aripiprazole Have Strong P-gp-inhibitory Activity and Sensitize Anti-mitotic Drug-resistant Cancer Cells. J.Y. KIM, I.H. TAE, B.-M. LEE, H.S. KIM, S. YOON ( <i>Suwon, Republic of Korea</i> ) .....	5101
Inhibition of Human Neuroblastoma Cell Proliferation by N-acetyl-L-cysteine as a Result of Increased Sulfane Sulfur Level. H. JURKOWSKA, M. WRÓBEL ( <i>Krakow, Poland</i> ) .....	5109
Antiproliferative and Apoptotic Role of Novel Synthesized Cu(II) Complex with 3-(3-(4-fluorophenyl)Triaz-1-en-1-yl) Benzenesulfonamide in Common Cancer Models. Y. TULUCE, G. GORGISEN, I.M. GULACAR, I. KOYUNCU, M. DURGUN, S. AKOCAK, H. OZKOL, Z. KAYA ( <i>Van; Sanliurfa; Adiyaman, Turkey</i> ) .....	5115
Seminal Cell Free DNA Concentration Levels Discriminate Between Prostate Cancer and Benign Prostatic Hyperplasia. G. PONTI, M. MACCAFERRI, S. MICALI, M. MANFREDINI, R. MILANDRI, G. BIANCHI, G. PELLACANI, S. KALECI, J. CHESTER, A. CONTI, C. DEL PRETE, A. TOMASI ( <i>Modena, Italy</i> ) .....	5121
Prognostic Value of Serum Creatinine Levels in Patients with Epithelial Ovarian Cancer. J. LAFLEUR, K. HEFLER-FRISCHMUTH, C. GRIMM, R. SCHWAMEIS, L. GENSTHALER, E. REISER, L.A. HEFLER ( <i>Linz; Vienna, Austria</i> ) .....	5127

Differential Mechanism of Action of 3,4',7-O-trimethylquercetin in Three Types of Ovarian Cancer Cells. A.H.M.Z. ASHRAF, S.H. AFROZE, K. YAMAUCHI, D.C. ZAWIEJA, T.J. KEUHL, L. WEISER ERLANDSON, M.N. UDDIN ( <i>Killeen; Temple, TX, USA; Gifu, Japan</i> ) .....	5131
Extracellular Vesicles Derived from Hypoxic Colorectal Cancer Cells Confer Metastatic Phenotype to Non-metastatic Cancer Cells. E. ENDZELIŅŠ, A. ĀBOLS, A. BUŠS, E. ZANDBERGA, M. PALVIAINEN, P. SILJANDER, A. LINĒ ( <i>Riga, Latvia; Helsinki, Finland</i> ) .....	5139
Aging-related Repositioned Drugs, Donepezil and Sildenafil Citrate, Increase Apoptosis of Anti-mitotic Drug-resistant KBV20C Cells Through Different Molecular Mechanisms. J.Y. KIM, J.Y. SON, B.-M. LEE, H.S. KIM, S. YOON ( <i>Suwon, Republic of Korea</i> ) .....	5149
Association of Matrix Metalloproteinase-8 Genotypes with the Risk of Bladder Cancer. T.-H. TSAI, Y.-M. WANG, W.-S. CHANG, C.-W. TSAI, H.-C. WU, H.-M. HSU, Y.-C. WANG, H.-T. LI, C.-L. GONG, D.-T. BAU, C.-Y. LI ( <i>Taichung, Taiwan, ROC</i> ) .....	5159
Benzyl Isothiocyanate Induces Apoptotic Cell Death Through Mitochondria-dependent Pathway in Gefitinib-resistant NCI-H460 Human Lung Cancer Cells <i>In Vitro</i> . Y.-P. HUANG, Y.-W. JIANG, H.-Y. CHEN, Y.-T. HSIAO, S.-F. PENG, Y.-C. CHOU, J.-L. YANG, T.-C. HSIA, J.-G. CHUNG ( <i>Taichung; Taipei, Taiwan, ROC</i> ) .....	5165
SNX-2112 Induces Apoptosis and Autophagy of Nara-H Cells. N. FUKUOKA, O. NAKAMURA, Y. YAMAGAMI, H. NISHIMURA, Y. ISHIBASHI, T. YAMAMOTO ( <i>Kagawa, Japan</i> ) .....	5177
Cell Subpopulations Overexpressing p75NTR Have Tumor-initiating Properties in the C6 Glioma Cell Line. W.-H. YANG, C.-Y. CHENG, M.-F. CHEN, T.-C. WANG ( <i>Chiayi; Taoyuan, Taiwan, ROC</i> ) .....	5183
Potential Oncogenic Role and Prognostic Implication of MicroRNA-155-5p in Oral Squamous Cell Carcinoma. H. KIM, J.M. YANG, S.-H. AHN, W.-J. JEONG, J.-H. CHUNG, J.H. PAIK ( <i>Seongnam; Seoul, Republic of Korea</i> ) ...	5193
Fluoxetine Inhibits DNA Repair and NF-κB-modulated Metastatic Potential in Non-small Cell Lung Cancer. J.-Y. WU, S.-S. LIN, F.-T. HSU, J.-G. CHUNG ( <i>Taichung; Hualien, Taiwan, ROC</i> ) .....	5201
Biomarkers of Oxidative Stress Associated with the Risk of Potentially Malignant Oral Disorders. T. SENGHORE, Y.-F. LI, F.-C. SUNG, M.-H. TSAI, C.-H. HUA, C.-S. LIU, R.-J. HUANG, C.-C. YEH ( <i>Taipei; Taichung, Taiwan, ROC; Banjul, Gambia</i> ) .....	5211
Shift of Keratin Expression Profile in End-stage Kidney Increases the Risk of Tumor Development. D.P. SARLOS, L. PETERFI, A. SZANTO, G. KOVACS ( <i>Pecs, Hungary; Heidelberg, Germany</i> ) .....	5217
Studies of Correlations Between Single Nucleotide Polymorphisms of DNA Repair Genes and Endometrial Cancer in Polish Women. B. SMOLARZ, M.M. MICHALSKA, D. SAMULAK, L. WÓJCIK, H. ROMANOWICZ ( <i>Lodz; Kalisz; Poznan, Poland</i> ) .....	5223
<b>Clinical Studies</b>	
Efficacy and Safety Data of Osimertinib in Elderly Patients with NSCLC Who Harbor the EGFR T790M Mutation After Failure of Initial EGFR-TKI Treatment. H. FURUTA, T. UEMURA, T. YOSHIDA, M. KOBARA, T. YAMAGUCHI, N. WATANABE, J. SHIMIZU, Y. HORIO, H. KURODA, Y. SAKAO, Y. YATABE, T. HIDA ( <i>Nagoya, Japan</i> ) .....	5231
Impact of Interval Between Neoadjuvant Chemoradiation and Surgery Upon Morbidity and Survival of Patients with Squamous Cell Carcinoma of Thoracic Esophagus. T. FURUKAWA, Y. HAMAI, J. HIHARA, M. EMI, I. YAMAKITA, Y. IBUKI, T. KUROKAWA, M. OKADA ( <i>Hiroshima, Japan</i> ) .....	5239

Screening Patients with Esophageal Cancer to Determine Eligibility for Adjuvant Treatment Trials. T.A. HEJLEH, L. ABUSHAHIN, J. KEECH, B.G. ALLEN, K.R. PAREKH, M. FURQAN, M. IANNETTONI, G.K.D. ZAMBA, S.L. MOTT, G. CLAMON ( <i>Iowa City, IA; Greenville, NC, USA; Amman, Jordan</i> ) .....	5247
Radiation Therapy for Positive Surgical Margins in Women $\geq 70$ Years with Stage I, Estrogen Receptor-positive Breast Cancer. M. ZHOU, P. PEDDI, Q.D. CHU ( <i>New Orleans; Shreveport, LA, USA</i> ) .....	5253
Prophylactic Cranial Irradiation for Patients with Small Cell Lung Cancer in Germany: Pattern of Care Survey. C. EZE, O. ROENGVORAPHOJ, M. DANTES, R. ABDO, L. KÄSMANN, N. SCHMIDT-HEGEMANN, C. BELKA, F. MANAPOV ( <i>Munich, Germany</i> ) .....	5261
Neoadjuvant Chemotherapy with Docetaxel, Cisplatin and S-1 for Resectable Advanced Esophageal Cancer. K. HAYATA, T. OJIMA, M. NAKAMORI, M. NAKAMURA, M. KATSUDA, J. KITADANI, A. TAKEUCHI, H. TABATA, S. MARUOKA, H. YAMAUE ( <i>Wakayama, Japan</i> ) .....	5267
Synovial Sarcoma of the Thyroid Gland, Diagnostic Pitfalls and Clinical Management. C. OWEN, A. CONSTANTINIDOU, A.B. MIAH, K. THWAY, C. FISHER, C. BENSON, S. ZAIDI, C. MESSIOU, W.T.A. VAN DER GRAAF, R.L. JONES ( <i>London, UK; Nicosia, Cyprus</i> ) .....	5275
Influence of Sorafenib, Sunitinib and Capecitabine on the Antioxidant Status of the Skin. H. FUSS, J. LADEMANN, S. JUNG ( <i>Bad Saarow; Berlin, Germany</i> ) .....	5283
Significance of Additional Gastrectomy Including Endoscopic Submucosal Dissection Scar for Gastric Cancer. R. ISHIDA, S. KANAJI, R. MAEHARA, H. HASEGAWA, M. YAMAMOTO, Y. MATSUDA, K. YAMASHITA, T. MATSUDA, T. OSHIKIRI, Y. SUMI, T. NAKAMURA, S. SUZUKI, Y. KAKEJI ( <i>Kobe, Japan</i> ) .....	5289
Radiological Features of IDO1 $^+$ /PDL1 $^+$ Lung Adenocarcinoma: A Retrospective Single-institution Study. K. TAKADA, G. TOYOKAWA, T. TAGAWA, M. SHIMOKAWA, K. KOHASHI, A. HARO, A. OSOEGAWA, Y. ODA, Y. MAEHARA ( <i>Fukuoka, Japan</i> ) .....	5295
Evaluation of Periodontal Space Widening in Patients with Antiresorptive Drug-related Osteonecrosis of the Jaws (ARONJ) on Panoramic Radiographs. A.T. ASSAF, V. AMBERG, R. SMEETS, J. WIKNER, H. HANKEN, J. SEMMUSCH, F. EWALD, A. RASHAD, R.E. FRIEDRICH ( <i>Hamburg, Germany</i> ) .....	5305
Are Non-dysplastic Crypts with Corrupted Shapes the Initial Recordable Histological Event in the Development of Sporadic Conventional Adenomas? C.A. RUBIO, P.T. SCHMIDT ( <i>Stockholm, Sweden</i> ) .....	5315
Fibrinogen and Neutrophil-to-lymphocyte Ratio Predicts Survival in Patients with Advanced Hypopharyngeal Squamous Cell Carcinoma. T. KUWAHARA, H. TAKAHASHI, D. SANO, M. MATSUOKA, H. HYAKUSOKU, T. HATANO, Y. HIRAGI, N. ORIDATE ( <i>Kanagawa, Japan</i> ) .....	5321
Preoperative Low Weight Affects Long-term Outcomes Following Curative Gastrectomy for Gastric Cancer. S. KOMATSU, T. KOSUGA, T. KUBOTA, K. OKAMOTO, H. KONISHI, A. SHIOZAKI, H. FUJIWARA, E. OTSUJI ( <i>Kyoto, Japan</i> ) .....	5331
The Impact of Local Intervention Combined with Targeted Therapy on Metastatic Renal Cell Carcinoma. J.-R. LI, Y.-C. OU, C.-K. YANG, S.-S. WANG, C.-S. CHEN, H. HO, C.-L. CHENG, C.-R. YANG, C.-C. CHEN, S.-C. WANG, C.-Y. LIN, S.-C. HUNG, C.-Y. HSU, K.-Y. CHIU ( <i>Taichung; Nantou, Taiwan, ROC</i> ) .....	5339
Impact of Lymph Node Yield on Outcome of Patients with Head and Neck Cancer and pN0 Neck. S. MERZ, N. TIMMESFELD, B.A. STUCK, S. WIEGAND ( <i>Marburg; Leipzig, Germany</i> ) .....	5347

Serum Carcinoembryonic Antigen Levels Before the First Curative Hepatectomy for Metastatic Colorectal Cancer Is a Predictor of Recurrence. H. KAWAHARA, S. YOSHIDA, Y. TOHYAMA, S. YANAGISAWA, T. MISAWA, K. YANAGI (Chiba; Tokyo, Japan) .....	5351
Evaluation of the Prognostic Stage in the 8th Edition of the American Joint Committee on Cancer in Patients with Breast Cancer and Internal Mammary Lymph Node Metastasis. J.H. JOO, S.S. KIM, B.H. SON, S.D. AHN, J.H. JUNG, E.K. CHOI, S.H. AHN, J.W. LEE, H.J. KIM, B.S. KO (Suwon; Seoul, Republic of Korea) .....	5357
Complete Remission and Long-time Survival (17 years) of a Patient with a Diffuse Large B-cell Lymphoma Under <i>Viscum album</i> Extracts After Resistance to R-CHOP: A Case Report. J. GUTSCH, P.G. WERTHMANN, A. ROSENWALD, G.S. KIENLE (Herdecke; Freiburg; Würzburg, Germany) .....	5363
Role of Neoadjuvant Radio-chemotherapy for the Treatment of High Rectal Cancer. M. TREDER, S. JANSEN, N.H. HOLLÄNDER, S.E. SCHILD, D. RADES (Lübeck; Hannover, Germany; Naestved, Denmark; Scottsdale, AZ, USA) .....	5371
Clinicopathological Stratification and Long-term Follow-up of Patients with Periampullary Carcinomas. R.B. SCHMUCK, C. BROKAT, A. ANDREOU, M. FELSENSTEIN, F. KLEIN, B. SINN, J. PRATSCHKE, M. BAHRA (Berlin, Germany; Baltimore, MD, USA) .....	5379
Efficacy of Axitinib as Second-line Treatment in Locally Advanced and Metastatic Renal Cell Carcinoma. K. UEDA, S. SUEKANE, T. HIRANO, N. OGASAWARA, K. CHIKUI, K. UEMURA, M. NAKIRI, K. NISHIHARA, M. MATSUO, T. IGAWA (Kurume, Japan) .....	5387
Predicting Response to Standard First-line Treatment in High-grade Serous Ovarian Carcinoma by Angiogenesis-related Genes. M. MENDIOLA, A. REDONDO, V. HEREDIA-SOTO, J. HERRANZ, A. BERJÓN, A. HERNÁNDEZ, M. MIGUEL-MARTÍN, R. CRESPO, J. BARRIUSO, P. CRUZ, L. YÉBENES, A. PELÁEZ-GARCÍA, B. CASTELO, A. RAMÍREZ DE MOLINA, J. FELIU, D. HARDISSON (Madrid, Spain; Manchester, UK) .....	5393
Image-guided Interstitial Brachytherapy in the Management of Metastasized Anal Squamous Cell Carcinoma. C. HEINZE, J. OMARI, M. OTHMER, P. HASS, M. SEIDENSTICKER, R. DAMM, J. RICKE, M. PECH, M.J. POWERSKI (Magdeburg; Munich, Germany; Gdansk, Poland) .....	5401
Real Clinical Practice of Using Afatinib Therapy in NSCLC Patients with an Acquired EGFR T790M Mutation. K. MIYAZAKI, T. TAMURA, T. KABURAGI, K. SAITO, M. INAGAKI, T. YAMASHITA, H. ICHIMURA, T. NAWA, T. ENDO, K. HAYASHIHARA, M. KIMURA, K. KURISHIMA, H. NAKAMURA, K. FURUKAWA, N. KIKUCHI, H. SATOH, N. HIZAWA (Ryugasaki; Kasama; Tsuchiura; Hitachi; Mito; Tokai; Tsukuba; Ami-machi, Japan) .....	5409
Cholecystectomy Patients with High Plasma Level of Catalase Have Significantly Lower Analgesia Requirement: A Prospective Study of Two Different Cholecystectomy Techniques with Special Reference to Patients with Cancer. I. SAIMANEN, V. KUOSMANEN, J. KÄRKKÄINEN, T. SELANDER, S. ASPINEN, A. HOLOPAINEN, T. RANTANEN, M. ESKELINEN (Kuopio, Finland) .....	5417
Single-centre Experience of Use of Radium 223 with Clinical Outcomes Based on Number of Cycles and Bone Marrow Toxicity. S. DADHANIA, R. ALONZI, S. DOUGLAS, A. GOGBASHIAN, R. HUGHES, D. DALILI, N. VASDEV, J. ADSHEAD, T. LANE, C. WESTBURY, N. ANYAMENE, P. OSTLER, P. HOSKIN, A. SHARMA (Northwood; Stevenage, UK) .....	5423
Outcome of Patients with Metastatic Castration-resistant Prostate Cancer After PSA Progression with Abiraterone Acetate. S.-C. HUNG, S.-S. WANG, J.-R. LI, M.-C. CHEN, C.-K. YANG, C.-S. CHEN, H.-C. HO, K.-Y. CHIU, C.-L. CHENG, C.-H. CHANG, Y.-C. OU (Taichung; Nantou, Taiwan, ROC) .....	5429

Prediction of Response to Stereotactic Radiosurgery for Brain Metastases Using Convolutional Neural Networks. Y.J. CHA, W.I. JANG, M.-S. KIM, H.J. YOO, E.K. PAIK, H.K. JEONG, S.-M. YOUN ( <i>Seoul; Daejeon, Republic of Korea</i> ) .....	5437
Primary Tumor Score Based on Tumor Depth and Length Predicts Prognosis in Esophageal Squamous Cell Carcinoma. T. ARIGAMI, Y. UCHIKADO, I. OMOTO, K. SASAKI, Y. KITA, T. OWAKI, S. YANAGITA, S. MORI, H. KURAHARA, H. OKUMURA, K. MAEMURA, S. NATSUGOE ( <i>Kagoshima, Japan</i> ) .....	5447
Demographical Profile and Spectrum of Multiple Malignancies in Children and Adults with Neurocutaneous Disorders. A. MARJANSKA, A. JATCZAK-GACA, A. WOJTKIEWICZ, M. WYSOCKI, J. STYCZYNSKI ( <i>Bydgoszcz, Poland</i> ) .....	5453
Dynamic Contrast-enhanced Magnetic Resonance Imaging for Patients with Breast Cancer Receiving First-line Bevacizumab and Paclitaxel. K. NAKATSUKASA, Y. OUCHI, K. SAKAGUCHI, M. GOTO, E. KONISHI, T. TAGUCHI ( <i>Kyoto, Japan</i> ) .....	5459
Clinicopathological Characteristics of Ovarian Metastasis from Colorectal and Pancreatobiliary Carcinomas Mimicking Primary Ovarian Mucinous Tumor. C.K. PARK, H.-S. KIM ( <i>Seongnam; Seoul, Republic of Korea</i> ) ....	5465
Tumor Size-driven Dose of Intraoperative Radiotherapy for Breast Cancer: 18 Gy Versus 21 Gy. E. BONZANO, L. BELGIOIA, P. FREGATTI, D. FRIEDMAN, S. AGOSTINELLI, F. CAVAGNETTO, M. BEVEGANI, R. CORVÒ, M. GUENZI ( <i>Genoa, Italy</i> ) .....	5475
Recurrence Rates and Characteristics of Phyllodes Tumors Diagnosed by Ultrasound-guided Vacuum-assisted Breast Biopsy (VABB). H.-L. PARK, Y.C. PYO, K.Y. KIM, J.S. PARK, J.-E. SHIN, H.-R. KIM, B. YANG, J.-Y. KIM, J.Y. SHIM, E.-A. SHIN, S.-M. NOH ( <i>Seoul, Republic of Korea</i> ) .....	5481
TTF-1 Expression Predicts the Merit of Additional Antiangiogenic Treatment in Non-squamous Non-small Cell Lung Cancer. A. TAKEUCHI, T. OGURI, Y. YAMASHITA, K. SONE, S. FUKUDA, O. TAKAKUWA, T. UEMURA, K. MAENO, K. FUKUMITSU, Y. KANEMITSU, H. OHKUBO, M. TAKEMURA, Y. ITO, A. NIIMI ( <i>Nagoya, Japan</i> ) .....	5489
The Combination of Neutrophil-to-lymphocyte Ratio and Serum Carbohydrate Antigen 19-9 Level as a Prognostic Indicator in Patients with Recurrent Pancreatic Cancer. T. SAKAMOTO, H. SAITO, E. UCHINAKA, M. MORIMOTO, M. AMISAKI, N. TOKUYASU, S. HONJO, K. ASHIDA, Y. FUJIWARA ( <i>Yonago, Japan</i> ) .....	5497
The Radiological Differentiation of Hypervasculär Intrahepatic Cholangiocarcinoma from Hepatocellular Carcinoma with a Focus on the CT Value on Multi-phase Enhanced CT. S. SANO, Y. YAMAMOTO, T. SUGIURA, Y. OKAMURA, T. ITO, R. ASHIDA, K. OHGI, T. ARAMAKI, Y. NAKANUMA, K. UESAKA ( <i>Shizuoka, Japan</i> ) .....	5505
Serum Asunaprevir and Daclatasvir Concentrations and Outcomes in Patients with Recurrent Hepatitis C Who Have Undergone Living Donor Liver Transplantation. N. HARADA, T. YOSHIZUMI, T. IKEGAMI, S. ITOH, N. FURUSHO, M. KATO, S. SHIMODA, T. FUKUHARA, Y. SOEJIMA, Y. MAEHARA ( <i>Fukuoka; Osaka, Japan</i> ) .....	5513
Iterative Cytoreductive Surgery and Hyperthermic Intraperitoneal Chemotherapy for Recurrent Peritoneal Metastases. A. SOMMARIVA, M. TONELLO, C. CONA, P. PILATI, C.R. ROSSI ( <i>Padua, Italy</i> ) .....	5521
A Combination of Findings Obtained from Pre- and Postoperative Imaging Predict Recovery of Urinary Continence After Non-nerve-sparing Laparoscopic Radical Prostatectomy. T. ONISHI, S. SEKITO, T. TERABE, T. SHIBAHARA ( <i>Ise, Japan</i> ) .....	5525

Portal Vein Embolization (PVE) Versus PVE with Haematopoietic Stem Cell Application in Patients with Primarily Non-resectable Colorectal Liver Metastases. V. TRESKA, J. FICHTL, J. LUDVIK, J. BRUHA, V. LISKA, I. TRESKOVA, R. KUCERA, O. TOPOLCAN, D. LYSAK, T. SKALICKY, J. FERDA ( <i>Pilsen, Czech Republic</i> ).....	5531
Impact of Primary Tumor Localization on the Efficacy of Bevacizumab in Metastatic Colorectal Cancer. F. JORDAN, N. GRUNDMANN, G. SCHENKIRSCH, B. MÄRKL, H. MESSMANN, M. ANTHUBER, C. SCHMID, M. TREPEL ( <i>Augsburg; Hamburg, Germany</i> ) .....	5539
Synchronous Laryngeal Squamous Cell Carcinoma and Intrahepatic Cholangiocarcinoma Present in an Obese Male with Poor Prognosis. P. JIANG, L. GU, Y. ZHOU, Y. ZHAO, J. LAI ( <i>Gainesville, FL; St. Louis, MO; Pittsburgh, PA, USA; Zhengzhou, PR China</i> ) .....	5547
ABSTRACTS OF THE 2018 SUMMIT ON NATIONAL & GLOBAL CANCER HEALTH DISPARITIES, Current Challenges & Future Directions ( <i>Seattle, WA, USA</i> ).....	5551
Book Reviews .....	5563
Announcements .....	5566