

# ANTICANCER RESEARCH

## International Journal of Cancer Research and Treatment

ISSN: 0250-7005

Volume 39, Number 10, October 2019

### Contents

#### *Reviews*

- Chemoprevention of Prostate Cancer by Natural Agents: Evidence from Molecular and Epidemiological Studies. KEFAH MOKBEL, U. WAZIR, KINAN MOKBEL (*London, UK*) ..... 5231
- Therapeutic Application of Diverse Marine-derived Natural Products in Cancer Therapy. C.W. YUN, H.J. KIM, S.H. LEE (*Seoul; Cheonan, Republic of Korea*) ..... 5261
- Triple-Negative Breast Cancer: The Progress of Targeted Therapies and Future Tendencies. C. DAMASKOS, A. GARMPI, K. NIKOLETTOS, M. VAVOURAKIS, E. DIAMANTIS, A. PATSOURAS, P. FARMAKI, A. NONNI, D. DIMITROULIS, D. MANTAS, E.A. ANTONIOU, N. NIKOLETTOS, K. KONTZOGLU, N. GARMPI (*Athens; Alexandroupolis, Greece*) ..... 5285

#### *Experimental Studies*

- Inhibition of PAR-1 Receptor Signaling by Enoxaparin Reduces Cell Proliferation and Migration in A549 Cells. A. ALTURKISTANI, N. GHONEM, V.-A. POWER-CHARNITSKY, A. PINO-FIGUEROA, M.M. MIGLIORE (*Boston; Weston, MA; Kingston, RI, USA*) ..... 5297
- MiR-221 Is Specifically Elevated in PC3 Cells and its Deletion Reduces Adhesion, Motility and Growth. D.A. DART, S. KOUSHYAR, B.E. LANNING, W. JIANG (*Cardiff; London, UK*) ..... 5311
- Akt Pathway Inhibition of the Solenopsin Analog, 2-Dodecylsulfanyl-1,-4,-5,-6-tetrahydropyrimidine. N.E. UKO, O.F. GÜNER, J.P. BOWEN, D.F. MATESIC (*Atlanta, GA; Santa Rosa, CA, USA*) ..... 5329

*Contents continued on the back cover*

Induction of Metastasis by Low-dose Gemcitabine in a Pancreatic Cancer Orthotopic Mouse Model: An Opposite Effect of Chemotherapy. N. SUGISAWA, K. MIYAKE, T. HIGUCHI, H. OSHIRO, Z. ZHANG, J.H. PARK, K. KAWAGUCHI, S.P. CHAWLA, M. BOUVET, S.R. SINGH, M. UNNO, R.M. HOFFMAN (San Diego; Santa Monica, CA; Frederick, MD, USA; Sendai, Japan) .....	5339
Pilot Study on the Utility of Circulating HER2/Neu Levels in the Serum of Breast Cancer Patients. S. MORGAN, Y. AMEMIYA, E. SLODKOWSKA, F.-I. LU, C. PARRA-HERRAN, S. NOFECH-MOZES, M. TRUDEAU, E. OLKHOV-MITSEL, A. SETH, W.M. HANNA (Toronto, ON, Canada) .....	5345
ANO7 rs77559646 Is Associated With First-line Docetaxel Treatment Response in Metastatic Castration-resistant Prostate Cancer. E. KAIKKONEN, O. ETTALA, I. NIKULAINEN, P. TAIMEN, I. LEHTINEN, P.J. BOSTRÖM, P.-L. KELLOKUMPU-LEHTINEN, J. SCHLEUTKER (Turku; Pori; Tampere, Finland) ...	5353
Promoter Methylation Down-regulates B-cell Translocation Gene 1 Expression in Breast Carcinoma. H.Y. WOO, S.-I. DO, S.H. KIM, S.Y. SONG, H.-S. KIM (Seoul, Republic of Korea) .....	5361
FOXP3 Inhibitory Peptide P60 Increases Efficacy of Cytokine-induced Killer Cells Against Renal and Pancreatic Cancer Cells. M.F. SETIAWAN, O. RUDAN, A. VOGT, M.A. GONZALEZ-CARMONA, B. LANGHANS, R. SCHMIDT-WOLF, F. GAROFANO, C.P. STRASSBURG, J.J. LASARTE, N. CASARES, T. LOZANO, H. WEIHER, I.G.H. SCHMIDT-WOLF (Bonn; Rheinbach, Germany; Pamplona, Spain) .....	5369
The Association of MMP-11 Promoter Polymorphisms With Susceptibility to Lung Cancer in Taiwan. G.-L. CHEN, S.-C. WANG, W.-C. HUANG, W.-S. CHANG, C.-W. TSAI, H.-T. LI, T.-C. SHEN, T.-C. HSIA, D.-T. BAU (Taichung; Taipei, Taiwan, ROC) .....	5375
Aberrant DNA Hypermethylation Silenced LncRNA Expression in Gastric Cancer. K.-W. TSAI, C.-Y. TSAI, N.-H. CHOU, K.-C. WANG, C.-H. KANG, S.-C. LI, Y.-H. LAO, H.-T. CHANG (Kaohsiung; Pingtung, Taiwan, ROC) .....	5381
Monitoring of Heat Shock Response and Phenotypic Changes in Hepatocellular Carcinoma After Heat Treatment. R. ZAIMOKU, T. MIYASHITA, H. TAJIMA, H. TAKAMURA, A. HARASHIMA, S. MUNESUE, Y. YAMAMOTO, I. NINOMIYA, S. FUSHIDA, K. HARADA (Kanazawa, Japan) .....	5393
Synthetic Tubulysin Derivative, Tubugi-1, Against Invasive Melanoma Cells: The Cell Death Triangle. D. DRAČA, S. MIJATOVIĆ, T. KRAJNOVIĆ, G.N. KALUDEROVIĆ, L.A. WESSJOHANN, D. MAKSIMOVIĆ-IVANIĆ (Belgrade, Serbia; Halle, Germany) .....	5403
Low-dose Docetaxel Enhanced the Anticancer Effect of Temsirolimus by Overcoming Autophagy in Prostate Cancer Cells. S. INAMURA, H. ITO, M. TAGA, K. TSUCHIYAMA, H. HOSHINO, M. KOBAYASHI, O. YOKOYAMA (Fukui, Japan) .....	5417
Nicotinamide N-Methyltransferase and Its Precursor Substrate Methionine Directly and Indirectly Control Malignant Metabolism During Progression of Renal Cell Carcinoma. S. HOLSTEIN, S. VENZ, H. JUNKER, R. WALTHER, M.B. STOPE, U. ZIMMERMANN (Greifswald, Germany) .....	5427
Immunohistochemical Analysis of Transcription Factors and Markers of Epithelial–Mesenchymal Transition (EMT) in Human Tumors. J. GHULAM, C. STUERKEN, D. WICKLEIN, R. PRIES, B. WOLLENBERG, U. SCHUMACHER (Hamburg; Lübeck, Germany) .....	5437
Aberrant Methylation of Tumor Suppressive miRNAs in Bile from Patients With Pancreaticobiliary Diseases. K. OHTSUBO, K. MIYAKE, S. ARAI, K. FUKUDA, N. YANAGIMURA, C. SUZUKI, S. OTANI, Y. ADACHI, A. TANIMOTO, A. NISHIYAMA, K. YAMASHITA, S. TAKEUCHI, K. NOTOHARA, K. YOSHIMURA, S. YANO (Kanazawa; Chuo; Kurashiki, Japan) .....	5449
Apatinib Reverses Paclitaxel-resistant Lung Cancer Cells (A549) Through Blocking the Function of ABCB1 Transporter. Q. ZHANG, Y. SONG, X. CHENG, Z. XU, O.A. MATTHEW, J. WANG, Z. SUN, X. ZHANG (Zhengzhou, PR China; Rochester, MN, USA) .....	5461

Disruption of Epigenetic Silencing in Human Colon Cancer Cells Lines Utilizing a Novel Supercritical CO <sub>2</sub> Extract of Neem Leaf ( <i>Azadirachta indica</i> ). Z. QIU, K. ANDRIJAUSKAITE, J. MORRIS, M.J. WARGOVICH ( <i>San Antonio, TX, USA</i> ) .....	5473
Antitumor Activity of Rivoceranib Against Canine Mammary Gland Tumor Cell Lines. J.-H. LEE, Q. LI, J.-H. AN, H.-K. CHAE, J.-W. CHOI, B.-J. KIM, W.-J. SONG, H.-Y. YOUN ( <i>Seoul; Seongnam, Republic of Korea; Salt Lake City, UT, USA</i> ).....	5483
Therapeutic Efficacy and Radiobiological Effects of Boric Acid-mediated BNCT in a VX2 Multifocal Liver Tumor-bearing Rabbit Model. Y.-H. HUNG, Y.-C. LIN, Y.-T. LIN, G.-W. SHIH, J.-W. LIAO, K.-S. CHEN, H.-M. LIU, Y.-W. CHEN, Y.-J. CHUANG, C.-M. YANG, J.-J. PEIR, C.-H. YANG, F.-I. CHOU ( <i>Hsinchu; Taichung; Taipei, Taiwan, ROC</i> ) .....	5495
MLH1 Is a Prognostic Biomarker for Serous Ovarian Cancer Treated With Platinum- and Taxane-based Chemotherapy. N. KAWASHIMA, H. YOSHIDA, M. MIWA, K. FUJIWARA ( <i>Saitama, Japan</i> ).....	5505
Protective Role of Fucoidan on Cisplatin-mediated ER Stress in Renal Proximal Tubule Epithelial Cells. H.J. KIM, Y.M. YOON, J.H. LEE, S.H. LEE ( <i>Seoul; Cheonan, Republic of Korea</i> ).....	5515
Association of Polymorphisms in the Genes of Angiotensinogen and Angiotensin Receptors With Risk for Basal Cell Carcinoma. J. PAPAGGELOPOULOS, A. ANGELOPOULOU, D. AVGOUSTIDIS, N. KORONELLOS, S. DERKA, S. VASSILIOU, C. YAPIJAKIS ( <i>Athens, Greece</i> ) .....	5525
Expression of Immune Checkpoint Receptors on T-Cells and Their Ligands on Leukemia Blasts in Childhood Acute Leukemia. S.H. KANG, H.J. HWANG, J.W. YOO, H. KIM, E.S. CHOI, S.-H. HWANG, Y.-U. CHO, S. JANG, C.-J. PARK, H.J. IM, J.J. SEO, N. KIM, K.-N. KOH ( <i>Seoul; Daejeon, Republic of Korea</i> ) .....	5531
Linking Infection and Prostate Cancer Progression: Toll-like Receptor 3 Stimulation Rewires Glucose Metabolism in Prostate Cells. M.C. MAGNIFICO, A. MACONE, M. MARANI, A. BOUZIDI, G. GIARDINA, S. RINALDO, F. CUTRUZZOLÀ, A. PAONE ( <i>Rome, Italy</i> ).....	5541
<i>Clinical Studies</i>	
Improved Survival With Higher Pre-diagnosis Cardiorespiratory Fitness in Men Who Developed Digestive System Cancers: A Prospective Pilot Study. B. VAINSELBOIM, Z. CHEN, J. MYERS ( <i>Palo Alto, CA; Valhalla, NY, USA</i> ) .....	5551
Sunitinib First-line Treatment in Metastatic Renal Cell Carcinoma: Costs and Effects. R.-L. VUORINEN, N. PAUNU, T. TURPEENNIEMI-HUJANEN, T. REUNAMO, A. JEKUNEN, V. KATAJA, H. SINTONEN, T. PURMONEN, P.-L. KELLOKUMPU-LEHTINEN ( <i>Tampere; Oulu; Turku; Vaasa; Kuopio; Helsinki, Finland</i> ) .....	5559
Impact of Extravasated Platelet Activation and Podoplanin-positive Cancer-associated Fibroblasts in Pancreatic Cancer Stroma. T. MIYASHITA, H. TAJIMA, R. GABATA, M. OKAZAKI, H. SHIMBASHI, Y. OHBATAKE, K. OKAMOTO, S. NAKANUMA, S. SAKAI, I. MAKINO, J. KINOSHITA, H. HAYASHI, K. NAKAMURA, H. TAKAMURA, I. NINOMIYA, S. FUSHIDA, J.W. HARMON, T. OHTA ( <i>Kanazawa, Japan; Baltimore, MD, USA</i> ) .....	5565
Decreased H3K27me3 Expression Is Associated With Merkel Cell Polyomavirus-negative Merkel Cell Carcinoma, Especially Combined With Cutaneous Squamous Cell Carcinoma. M. MATSUSHITA, T. IWASAKI, L.O. WARDHANI, S. KUWAMOTO, D. NONAKA, K. NAGATA, M. KATO, Y. KITAMURA, K. HAYASHI ( <i>Yonago; Fukuoka, Japan; Surakarta, Indonesia; London; Manchester, UK</i> ) .....	5573
Clinical Evaluation of Dynamic Monitoring of Neutrophil-to-lymphocyte and Platelet-to-lymphocyte Ratios in Primary Endocrine Therapy for Advanced Breast Cancer. K. TAKADA, S. KASHIWAGI, Y. ASANO, W. GOTO, K. TAKAHASHI, M. SHIBUTANI, R. AMANO, T. TAKASHIMA, S. TOMITA, K. HIRAKAWA, M. OHIRA ( <i>Osaka, Japan</i> ).....	5581

Age as a Predictor of Treatment Outcome in Metastatic Testicular Germ Cell Tumors. A. TERBUCH, F. POSCH, T. BAUERNHOFER, M. PICHLER, H. PEINSITH, J. SZKANDERA, J. RIEDL, G.C. HUTTERER, K. PUMMER, R. PARTL, K.S. KAPP, H. STÖGER, M. STOTZ, A. GERGER ( <i>Graz, Austria; Houston, TX, USA</i> ) ...	5589
Bilateral Asynchronous Renal Cell Carcinoma With Lung Metastases: A Case Report of a Patient Treated Solely With High-dose Intravenous and Subcutaneous <i>Viscum album</i> Extract for a Second Renal Lesion. M. REYNEL, Y. VILLEGAS, H. KIENE, P.G. WERTHMANN, G.S. KIENLE ( <i>Lima, Peru; Freiburg, Germany</i> ) .....	5597
The Clinical Outcomes of Hemicortical Extracorporeal Irradiated Autologous Bone Graft After Tumor Resection of Bone and Soft Tissue Sarcoma. T. NAKAMURA, T. FUJIWARA, Y. TSUDA, A. ABUDU, Y. NOMOTO, A. TAKADA, Y. TOYOMASU, T. HAGI, K. ASANUMA, A. SUDO ( <i>Tsu, Japan; Birmingham, UK</i> ) .....	5605
Factors that Influence Chemotherapy Treatment Rate in Patients With Upper Limb Osteosarcoma. D.J. RESTREPO, M.T. HUAYLLANI, D. BOCZAR, A. SISTI, A.C. SPAULDING, S.L. MORAN, T. AUNG, S. BAGARIA, O.J. MANRIQUE, A.J. FORTE ( <i>Jacksonville, FL; Rochester, MN, USA; Regensburg, Germany</i> ) .....	5611
Incidence and Pattern of Spread of Lymph Node Metastasis in Patients With Low-grade Serous Ovarian Cancer. M. Wafa, E.I. BRAICU, M.Z. MUALLEM, R. RICHTER, E. TAUBE, J. SEHOULI, J.P. GRABOWSKI ( <i>Berlin, Germany</i> ) .....	5617
Cyclo-oxygenase-2 Expression Is Associated With Lymph Node Metastasis in Oropharyngeal Squamous Cell Carcinoma Under the New TNM Classification. M. SEKIMIZU, H. OZAWA, S. SAITO, Y. IKARI, N. NAKAHARA, S. NAKAMURA, K. YOSHIHAMA, F. ITO, Y. WATANABE, Y. IMANISHI, K. KAMEYAMA, K. OGAWA ( <i>Tokyo; Kawasaki, Japan</i> ) .....	5623
Pelvic Exenteration as Potential Cure and Symptom Relief in Advanced and Recurrent Gynaecological Cancer. S. SOEDA, S. FURUKAWA, T. SATO, M. UEDA, N. KAMO, Y. ENDO, M. KOJIMA, S. NOMURA, M. KATAOKA, S. FUJITA, H. ENDO, T. TAKAHASHI, T. WATANABE, H. YAMADA, K. FUJIMORI ( <i>Fukushima; Natori, Japan</i> ) .....	5631
Diabetes Mellitus and/or Nonalcoholic Steatohepatitis-related Hepatocellular Carcinoma Showed Favorable Surgical Outcomes After Hepatectomy. J. LIANG, S.-I. ARIIZUMI, M. NAKANO, M. YAMAMOTO ( <i>Tokyo, Japan; Tianjin, PR China</i> ) .....	5639
The Predictive Role of Primary Tumour Sidedness in Metastatic Colorectal Cancer Treated With Targeted Agents. O. FIALA, P. OSTASOV, P. HOSEK, O. SOREJS, V. LISKA, T. BUCHLER, A. POPRACH, R. KUCERA, O. TOPOLCAN, J. SUSTR, M. SEDIVCOVA, J. FINEK ( <i>Pilsen; Prague; Brno, Czech Republic</i> ) .....	5645
A Single-centre, Retrospective, Observational Analysis of Fulvestrant for Recurrent/metastatic Breast Cancer According to Metastatic Site. H. OZAWA, A. SATA, R. FUKUI, A. BUN, T. HIGUCHI, Y. FUJIMOTO, Y. MIYAGAWA, M. IMAMURA, Y. MIYOSHI ( <i>Nishinomiya, Japan</i> ) .....	5653
Osteosarcoma of the Upper Extremities: A National Analysis of the US Population. M.T. HUAYLLANI, D.J. RESTREPO, D. BOCZAR, A. SISTI, A.C. SPAULDING, A.S. PARKER, R. SARABIA-ESTRADA, H. GUERRERO-CAZARES, S.L. MORAN, A.J. FORTE ( <i>Jacksonville, FL; Rochester, MN, USA</i> ) .....	5663
Survival Disparities in Male Patients With Breast Cancer. D.J. RESTREPO, D. BOCZAR, M.T. HUAYLLANI, A. SISTI, S.A. MCLAUGHLIN, A. SPAULDING, A.S. PARKER, R.E. CARTER, A.L. LEPPIN, A.J. FORTE ( <i>Jacksonville, FL; Rochester, MN, USA</i> ) .....	5669
Neutrophil-to-lymphocyte Ratio and Use of Antibiotics Associated With Prognosis in Esophageal Squamous Cell Carcinoma Patients Receiving Immune Checkpoint Inhibitors. J.-C. GUO, C.-C. LIN, C.-Y. LIN, M.-S. HSIEH, H.-Y. KUO, M.-Y. LIEN, Y.-Y. SHAO, T.-C. HUANG, C.-H. HSU ( <i>Taipei; Taichung, Taiwan, ROC</i> ) .....	5675
Comparison of the Utilities of Cryobiopsy and Forceps Biopsy for Peripheral Lung Cancer. S. NASU, N. OKAMOTO, H. SUZUKI, T. SHIROYAMA, A. TANAKA, Y. SAMEJIMA, T. KANAI, Y. NODA, S. MORITA, N. MORISHITA, K. UEDA, K. KAWAHARA, T. HIRASHIMA ( <i>Osaka, Japan</i> ) .....	5683

Diameter of External Carotid Arteries in Patients With Mandibular Osteoradionecrosis. N. ISHIBASHI, T. MAEBAYASHI, T. AIZAWA, M. SAKAGUCHI, M. OKADA ( <i>Tokyo, Japan</i> ) .....	5689
Conversion Hepatectomy for Huge Hepatocellular Carcinoma With Arterioportal Shunt After Chemoembolization and Lenvatinib Therapy. N. SATO, T. BEPPU, K. KINOSHITA, H. YUKI, K. SUYAMA, S. CHIYONAGA, T. MOTOHARA, Y. KOMOHARA, A. HARA, S. AKAHOSHI ( <i>Kumamoto, Japan</i> ) .....	5695
The Role of Metoprolol and Enalapril in the Prevention of Doxorubicin-induced Cardiotoxicity in Lymphoma Patients. P. GEORGAKOPOULOS, M. KYRIAKIDIS, A. PERPINIA, A. KARAVIDAS, S. ZIMERAS, N. MAMALIS, M. KOUVELA, A. CHARPIDOU ( <i>Athens; Piraeus; Samos, Greece</i> ).....	5703
Changing Trends in Mastectomy and Breast Reconstruction. Analysis of a Single-institution Experience Between 2004-2016. T. SUSINI, I. RENDA, M. GIANI, A. VALLARIO, J. NORI, E. VANZI, A. INNOCENTI, G.L. RUSSO, S. BIANCHI ( <i>Florence, Italy</i> ).....	5709
Clinical Significance of <i>PRKCI</i> Gene Expression in Cancerous Tissue in Patients With Gastric Cancer. I. HASHIMOTO, K. SAKAMAKI, N. OUE, Y. KIMURA, Y. HIROSHIMA, K. HARA, Y. MAEZAWA, K. KANO, T. AOYAMA, T. YAMADA, N. YAMAMOTO, T. OGATA, H. ITO, M. SHIOZAWA, S. MORINAGA, Y. RINO, W. YASUI, M. MASUDA, Y. MIYAGI, T. OSHIMA ( <i>Yokohama; Tokyo; Hiroshima, Japan</i> ).....	5715
Identification of the Risk Factors for Recurrence of Stage III Colorectal Cancer. K. NEKI, K. ETO, M. KOSUGE, M. OHKUMA, D. ITO, Y. TAKEDA, S. YATABE, H. SUGANO, K. YANAGA ( <i>Tokyo, Japan</i> ).....	5721
Chemotherapy-associated Acute Exacerbation of Interstitial Lung Disease Shortens Survival Especially in Small Cell Lung Cancer. S. NAKAO, K. YAMAGUCHI, S. SAKAMOTO, Y. HORIMASU, T. MASUDA, S. MIYAMOTO, T. NAKASHIMA, H. IWAMOTO, K. FUJITAKA, H. HAMADA, N. HATTORI ( <i>Hiroshima, Japan</i> ).....	5725
Patterns of Care After Surgery for Elderly Patients With Malignant Brain Tumors: Data from the National Health Insurance Service in South Korea. H.K. KOH, H. KIM, S. HONG ( <i>Seoul, Republic of Korea</i> ).....	5733
Cardiovascular Risk Factors and Timing of Anthracyclines and Trastuzumab Cardiac Toxicity. M.L. CANALE, A. CAMERINI, A. HUQI, A. LILLI, I. BISCEGLIA, I. PARRINI, C. LESTUZZI, J. DEL MEGLIO, S. DONATI, E. VENTURINI, A. SGAMBATO, L. TARANTINI, D. AMOROSO, G. CASOLO ( <i>Lido di Camaiore; Rome; Turin; Aviano; Cecina; Rionero in Vulture; Belluno, Italy</i> ) .....	5741
Long-term Outcome of 181 Patients With Liposarcomas of the Extremity and Truncal Wall. O. GOERTZ, A. PIEPER, H. LAUER, I. STRICKER, M. DADRAS, B. BEHR, M. LEHNHARDT, K. HARATI ( <i>Bochum; Berlin, Germany</i> ).....	5747
Risk Factors for Deterioration of Remnant Liver Function After Hepatic Resection for Hepatocellular Carcinoma. R. MARUKUCHI, K. FURUKAWA, R. IWASE, J. YASUDA, H. SHIOZAKI, S. ONDA, T. GOCHO, H. SHIBA, K. YANAGA ( <i>Tokyo, Japan</i> ).....	5755
Clinical Significance of Intraoperative Colonoscopy for Anastomotic Assessment in Rectal Cancer Surgery. N. SHIBUYA, T. MATSUDA, K. YAMASHITA, H. HASEGAWA, M. YAMAMOTO, S. KANAJI, T. OSHIKIRI, T. NAKAMURA, S. SUZUKI, Y. KAKEJI ( <i>Kobe, Japan</i> ) .....	5761
Treatment Strategy for Rectal Cancer Patients With Inguinal Lymph Node Metastasis. K. UETA, T. MATSUDA, K. YAMASHITA, H. HASEGAWA, J. MUKOHYAMA, M. YAMAMOTO, Y. MATSUDA, S. KANAJI, T. OSHIKIRI, T. NAKAMURA, S. SUZUKI, Y. KAKEJI ( <i>Kobe, Japan; New York, NY, USA</i> ) .....	5767
Serum $\gamma$ -Glutamyltransferase as a Prognostic Biomarker in Metastatic Castration-resistant Prostate Cancer Treated With Enzalutamide. K. TAKEMURA, M. ITO, Y. NAKANISHI, M. KATAOKA, K. SAKAMOTO, H. SUZUKI, K.-I. TOBISU, F. KOGA ( <i>Tokyo, Japan</i> ) .....	5773

Neoadjuvant Chemotherapy Enhances Local Postoperative Histopathological Tumour Stage in Borderline Resectable Pancreatic Cancer – A Matched-Pair Analysis. L. TIMMERMANN, N. ROSUMECK, F. KLEIN, J. PRATSCHKE, U. PELZER, M. BAHRA, T. MALINKA ( <i>Berlin, Germany</i> ).....	5781
Clinicopathological Features, Surgical Outcomes, Oncogenic Status and PD-L1 Expression of Pulmonary Pleomorphic Carcinoma. K. NAKANISHI, N. SAKAKURA, T. MATSUI, H. UENO, T. NAKADA, Y. OYA, J. SHIMIZU, T. HIDA, W. HOSODA, H. KURODA ( <i>Nagoya, Japan</i> ).....	5789
Concomitant Treatment of Malignant Brain Tumours With CBD – A Case Series and Review of the Literature. R. LIKAR, M. KOESTENBERGER, M. STULTSCHNIG, G. NAHLER ( <i>Klagenfurt am Wörthersee; Vienna, Austria</i> ).....	5797
Risk Factors for Poor Survival in Metastatic Castration-resistant Prostate Cancer Treated With Cabazitaxel in Japan. S. YASUOKA, T. YUASA, M. OGAWA, Y. KOMAI, N. NUMAO, S. YAMAMOTO, Y. KONDO, J. YONESE ( <i>Tokyo, Japan</i> ) .....	5803
Clinical Outcomes and the Role of Adjuvant Concurrent Chemoradiation Therapy in D2-resected LN-positive Young Patients ( $\leq 45$ Years) With Gastric Cancer. J.I. YU, D.H. LIM, J. LEE, W.K. KANG, S.H. PARK, J.O. PARK, H.Y. LIM, S.T. KIM, S. KIM, T.S. SOHN, J.H. LEE, J.Y. AN, M.G. CHOI, J.M. BAE, H.S. KIM, S. AHN ( <i>Seoul; Suwon, Republic of Korea</i> ) .....	5811
The Anatomical Pattern of the Proximal Jejunal Vein as a Prognostic Factor in Patients With Pancreatic Head Cancer Treated With Preoperative Chemoradiation Therapy. S. NISHIMURA, H. TAKAHASHI, H. AKITA, K. ASUKAI, S. HASEGAWA, D. YAMADA, H. WADA, H. HARA, N. SHINNO, H. USHIGOME, N. HARAGUCHI, K. SUGIMURA, K. YAMAMOTO, J. NISHIMURA, M. YASUI, T. OMORI, H. MIYATA, M. OHUE, M. YANO, M. SAKON, O. ISHIKAWA ( <i>Osaka, Japan</i> ) .....	5821
ABSTRACTS OF THE 2019 SUMMIT ON NATIONAL AND GLOBAL CANCER HEALTH DISPARITIES (SCHD19) 27-28 April, 2019 ( <i>Issaquah, WA, USA</i> ) .....	5831
ABSTRACTS OF THE 7 <sup>TH</sup> INTERNATIONAL CONFERENCE ON ADVANCES IN HEMATOLOGY AND ONCOLOGY (ICAHO2019), 29-30 June, 2019 ( <i>Issaquah, WA, USA</i> ) .....	5841