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Selection of Recent Articles

Proteomic Profiling to Identify Prognostic Biomarkers in Heart Failure. P.A. SCOTT, B. ZEIDAN, L.L. NG, M. ZEB, J.A. ROSENGARTEN, S. GARBIS, N.P. CURZEN, J.M. MORGAN, P.A. TOWNSEND (*Southampton; Leicester, UK; Athens, Greece*)

Diverging *In Vitro* Antibody Isotype Switching Preference in B-Lymphocytes from C57BL/6 and FVB Mice. A.G. PUTHIYAVEETIL, B. OKYERE, C.M. REILLY, D. CAUDELL (*Blacksburg, VA, USA*)

The Zebrafish- Danio rerio – Is a Useful Model for Measuring the Effects of Small-molecule Mitigators of Late Effects of Ionizing Irradiation. M.W. EPPERLY, N. BAHARY, M. QUADER, V. DEWALD, J.S. GREENBERGER (*Pittsburgh, PA, USA*)

Breast Cancer: Mechanisms Involved in Action of Phytoestrogens and Epigenetic Changes. A. DAGDEMIR, J. DURIF, M. NGOLLO, Y.-J. BIGNON, D. BERNARD-GALLON (*Clermont-Ferrand, France*)

Positron-emission Tomography (PET) Imaging Agents for Diagnosis of Human Prostate Cancer: Agonist vs. Antagonist Ligands. P.K. NANDA, B.E. WIENHOFF, T.L. ROLD, G.L. SIECKMAN, A.F. SZCZODROSKI, T.J. HOFFMAN, B.E. ROGERS, C.J. SMITH (*Columbia; St. Louis, MO, USA*)

In Vivo Models for Defining Molecular Subtypes of the Primitive Neuroectodermal Tumor Genome: Current Challenges and Solutions. J.D. LARSON, D.A. LARGAESPADA (*Minneapolis, MN, USA*)

Effects of Minocycline on Hematopoietic Recovery After Whole-body Irradiation. S. MEHROTRA, M.J. PECAUT, D.S. GRIDLEY (*Loma Linda, CA, USA*)

Sequential Changes in the Expression of Wnt- and Notch-related Genes in the Vagina and Uterus of Ovariectomized Mice after Estrogen Exposure. T. NAKAMURA, S. MIYAGAWA, Y. KATSU, T. SATO, T. IGUCHI, Y. OHTA (*Yamagata; Okazaki; Sapporo; Yokohama; Tottori, Japan*)

Catecholamines Reduce Dose-dependent Oedema Formation and Inflammatory Reaction in an Isolated Rat Lung Model. C. DACHO, A. DACHO, A. GEISLER, C. HAUSER, K. NOWAK, G. BECK (*Heidelberg; Essen; Wiesbaden, Germany*)

Biocompatibility of Membranes with Unrestricted Somatic Stem Cells. C. NAUJOKS, F.P. VON BECK, F. LANGENBACH, M. HENTSCHEL, K. BERR, M. HOFER, R. DEPPRICH, N. KÜBLER, J. HANDSCHEL (*Düsseldorf, Germany*)

Evaluation of Aortic Valve Stenosis Using a Hybrid Approach of Doppler Echocardiography and Inert Gas Rebreathing. K. HAMM, F. TRINKMANN, F. HEGGEMANN, J. GRUETTNER, G. SCHMID-BINDERT, M. BORGGREFE, D. HAGHI, J. SAUR (*Mannheim, Germany*)

Acclimatization of Mice to Different Cage Types and Social Groupings with Respect to Fecal Secretion of IgA and Corticosterone Metabolites. C.J. BUNDGAARD, O. KALLIOKOSKI, K.S. ABELSON, J. HAU (*Copenhagen, Denmark*)

Exploring Anticarcinogenic Agents in a Rat Hepatocarcinogenesis Model – Focus on Selenium and Statins. L. BJÖRKHEM-BERGMAN, L. EKSTRÖM, L.C. ERIKSSON (*Stockholm, Sweden*)

Amentoflavone Induces Cell-cycle Arrest and Apoptosis in MCF-7 Human Breast Cancer Cells via Mitochondria-dependent Pathway. J.-S. PEI, C.-C. LIU, Y.-N. HSU, L.-L. LIN, S.-C. WANG, J.-G. CHUNG, D.-T. BAU, S.-S. LIN (*TaoYuan; Taichung, Taiwan, ROC*)

Amino Acid Chloramine Damage to Proliferating Cell Nuclear Antigen in Mammalian Cells. S.A. SALAMA, R.M. SNAPKA (*Columbus, OH, USA; Cairo, Egypt*)

The Effect of Insulin-like Growth Factor II in the Regulation of Tumour Cell Growth *In Vitro* and Tumourigenesis *In Vivo*. M. HALJE, M. NORDIN, D. BERGMAN, W. ENGSTRÖM (*Uppsala, Sweden*)

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A Selection of Recent Papers

Metastatic Biomarker Discovery Through Proteomics. L.T. BRINTON, T.A. BRENTNALL, J.A. SMITH, K.A. KELLY (*Charlottesville, VA; Seattle, WA, USA*)

Genetically Engineered Fusion Proteins for Treatment of Cancer. U.H. WEIDLE, B. SCHNEIDER, G. GEORGES, U. BRINKMANN (*Penzberg, Germany*)

Identification of Differentially Expressed Proteins from Primary vs. Metastatic Pancreatic Cancer Cells Using Subcellular Proteomics. K.Q. MCKINNEY, J.-G. LEE, D. SINDRAM, M.W. RUSSO, D.K. HAN, H.L. BONKOVSKY, S.-I. HWANG (*Charlotte, NC; Farmington, CT, USA*)

Review: Are we Missing the Target? – Cancer Stem Cells and Drug Resistance in Non-small Cell Lung Cancer. S. GOTTSCHLING, P.A. SCHNABEL, F.J.F. HERTH, E. HERPEL (*Heidelberg, Germany*)

Identification of Markers Associated with Highly Aggressive Metastatic Phenotypes Using Quantitative Comparative Proteomics. M.G. TERP, R.R. LUND, O.N. JENSEN, R. LETH-LARSEN, H.J. DITZEL (*Odense, Denmark*)

Review: Breast Cancer and Metastasis: On the Way Toward Individualized Therapy. A.P. TRAPÉ, A.M. GONZALEZ-ANGULO (*Houston, TX, USA*)

In Silico Functional Profiling of Individual Prostate Cancer Tumors: Many Genes, Few Functions. I.P. GORLOV, J. BYUN, C.J. LOGOTHETIS (*Houston, TX, USA*)

Expression of Signal-induced Proliferation-associated Gene 1 (SIPA1), a RapGTPase-activating Protein, Is Increased in Colorectal Cancer and Has Diverse Effects on Functions of Colorectal Cancer Cells. K. JI, L. YE, A.-M. TOMS, R. HARGEST, T.A. MARTIN, F. RUGE, J. JI, W.G. JIANG (*Cardiff, UK; Beijing, PR China*)

Single Nucleotide Polymorphisms of Genes for EGF, TGF- β and TNF- α in Patients with Pancreatic Carcinoma. L. ZHANG, G. WU, F. HERRLE, M. NIEDERGETHMANN, M. KEESE (*Frankfurt; Heidelberg, Germany; Xiamen, P.R. China*)

Diagnostic MicroRNA Markers to Screen for Sporadic Human Colon Cancer in Blood. F.E. AHMED, N.C. AMED, P.W. VOS, C. BONNERUP, J.N. ATKINS, M. CASEY, G.J. NUOVO, W. NAZIRI, J.E. WILEY, R.R. ALLISON (*Greenville, Goldsboro, NC; Columbus, OH, USA*)

MGMT Hypermethylation and MDR System in Glioblastoma Cancer Stem Cells. V. CALDERA, M. MELLAI, L. ANNOVAZZI, O. MONZEGLIO, A. PIAZZI, D. SCHIFFER (*Pavia; Novara, Italy*)

20-HETE-producing Enzymes Are Up-regulated in Human Cancers. A. ALEXANIAN, B. MILLER, R.J. ROMAN, A. SOROKIN (*Milwaukee, WI; Jackson, MS, USA*)

Unifying the Genomics-based Classes of Cancer Fusion Gene Partners: Large Cancer Fusion Genes are Evolutionarily Conserved. L.M. PAVA, D.T. MORTON, R. CHEN, G. BLANCK (*Tampa, FL, USA*)

The mRNA Expression of Inhibitors of DNA Binding 1 and 2 Is Associated with Advanced Tumour Stage and Adverse Clinical Outcome in Human Breast Cancer. U. WAZIR, W.G. JIANG, A.K. SHARMA, R.F. NEWBOLD, K. MOKBEL (<i>London; Cardiff, Wales, UK</i>)	2179
P14 ^{ARF} Is Down-regulated During Tumour Progression and Predicts the Clinical Outcome in Human Breast Cancer. U. WAZIR, W.G. JIANG, H. YASAEI, H. LINNE, R.F. NEWBOLD, K. MOKBEL (<i>London; Cardiff, Wales, UK</i>)	2185
Contribution of Immunohistochemical Profile in Assessing Histological Grade of Endometrial Cancer. G. CANLORBE, E. LAAS, S. BENDIFALLAH, E. DARAÏ, M. BALLESTER (<i>Paris, France</i>)	2191
Postoperative Radiotherapy for Uterine Cervical Cancer: Impact of Lymph Node and Histological Type on Survival. G. KASUYA, K. OGAWA, S. IRAHA, Y. NAGAI, M. HIRAKAWA, T. TOITA, Y. KAKINOHANA, W. KUDAKA, M. INAMINE, T. ARIGA, Y. AOKI, S. MURAYAMA (<i>Okinawa; Osaka, Japan</i>)	2199
Missense Polymorphisms in XIAP-Associated Factor-1 (<i>XAF1</i>) and Risk of Papillary Thyroid Cancer: Correlation with Clinicopathological Features. S.K. KIM, H.J. PARK, H. SEOK, H.S. JEON, J.W. KIM, J.-H. CHUNG, K.H. KWON, S.-H. WOO, B.W. LEE, H.H. BAIK (<i>Seoul; Anyang, Republic of Korea</i>)	2205
Relation Between Antibody to Hepatitis B Core Antigen and Survival after Curative Therapy for Non-B Non-C Hepatocellular Carcinoma. H. NISHIKAWA, Y. OSAKI, A. ARIMOTO, R. KITA, T. KIMURA (<i>Osaka, Japan</i>)	2211
Normalization of Serum p53 Antibody Levels in Patients after Curative Resection for Colorectal Cancer. H. KAWAHARA, K. WATANABE, H. ENOMOTO, Y. TOYAMA, T. AKIBA, K. YANAGA (<i>Chiba; Tokyo, Japan</i>)	2221
Prognostic Factors For Male Breast Cancer: Similarity to Female Counterparts. E. YU, L. STITT, O. VUJOVIC, K. JOSEPH, A. ASSOULINE, J. AU, J. YOUNUS, F. PERERA, P. TAI (<i>London, ON; Edmonton, AB; Regina, SK, Canada; Paris, France; Hong Kong, China</i>)	2227
Relationship Between Circulating Tumor Cells and Peripheral T-Cells in Patients with Primary Breast Cancer. I. GRUBER, N. LANDENBERGER, A. STAEBLER, M. HAHN, D. WALLWIENER, T. FEHM (<i>Tübingen; Freiburg, Germany</i>)	2233
Monitoring of Circulating Tumor Cells in Patients Undergoing Surgery for Hepatic Metastases from Colorectal Cancer. M. PESTA, J. FICHTL, V. KULDA, O. TOPOLCAN, V. TRESKA (<i>Prague, Czech Republic</i>)	2239
ABSTRACTS OF THE 23rd ANNUAL MEETING OF THE ITALIAN SOCIETY OF URO-ONCOLOGY (SIUrO). 9-11 June, 2013, Florence, Italy	2245
Errata	2343
Book Reviews	2345
Announcements	2351

The Implementation of Minimally-invasive Esophagectomy Does Not Impact Short-term Outcome in a High-volume Center. K. SCHWAMEIS, A. BA-SSALAMAH, F. WRBA, P. BIRNER, G. PRAGER, M. HEJNA, R. SCHMID, R. ASARI, J. ZACHERL, S.F. SCHOPPMANN (<i>Vienna, Austria</i>)	2085
D-Dimer Elevation and Paresis Predict Thromboembolic Events During Bevacizumab Therapy for Recurrent Malignant Glioma. M. MISCH, M. CZABANKA, J. DENGLER, M. STOFFELS, G. AUF, P. VAJKOCZY, F. STOCKHAMMER (<i>Berlin; Göttingen, Germany</i>)	2093
Role of Marker Lesion when Applying Intravesical Instillations of IL-2 for Non-muscle-invasive Bladder Cancer Comparison of the Therapeutic Effects in Two Pilot Studies. W. DEN OTTER, R.J. VAN MOORSELAAR, J.J. JACOBS, R. TER HAAR, J.W. KOTEN, Z. DOBROWOLSKI, W. LIPCZYNSKI, V. PAŠUKONIENĖ, D. CHARACIEJUS, F. JANKEVIČIUS, R. EIDUKEVIČIUS, T.M. DE REIJE (<i>Amsterdam, Netherlands; Krakow, Poland; Vilnius, Lithuania</i>)	2099
Clinical Significances of Cancer Stem Cells Markers in Patients with Intrahepatic Cholangiocarcinoma who Underwent Hepatectomy. A. NANASHIMA, G. HATACHI, T. TSUCHIYA, H. MATSUMOTO, J. ARAI, T. ABO, G. MURAKAMI, T. TOMINAGA, K. TAKAGI, T. NAGAYASU (<i>Nagasaki, Japan</i>)	2107
A Trial of Autologous <i>Ex vivo</i> -expanded NK Cell-enriched Lymphocytes with Docetaxel in Patients with Advanced Non-small Cell Lung Cancer as Second- or Third-line Treatment: Phase IIa Study. Y.J. YANG, J.C. PARK, H.K. KIM, J.H. KANG, S.Y. PARK (<i>Daejeon; Suwon; Seoul, Republic of Korea</i>)	2115
Clinical Significance of Expression of Cancer/testis Antigen and Down-regulation of HLA Class-I in Patients with Stage I Non-small Cell Lung Cancer. T. HANAGIRI, Y. SHIGEMATSU, S. SHINOHARA, M. TAKENAKA, S. OKA, Y. CHIKAISHI, Y. NAGATA, T. BABA, H. URAMOTO, T. SO, S. YAMADA (<i>Kitakyushu, Japan</i>)	2123
KRAS Mutations in Patients with Colorectal Cancer As Detected by High-resolution Melting Analysis and Direct Sequencing. K. AKIYOSHI, Y. YAMADA, Y. HONMA, S. IWASA, K. KATO, T. HAMAGUCHI, Y. SHIMADA, H. TANIGUCHI, K. FURUTA (<i>Tokyo, Japan</i>)	2129
Synchronous Quadruple Primary Tumors of Thyroid, Breast, Pancreas, and Stomach: A Case Report. J.-S. KIM, C.-Y. CHUNG, H.-C. PARK, D.-S. MYUNG, S.-B. CHO, W.-S. LEE, J.-J. MIN, Y.-E. JOO (<i>Gwangju, Republic of Korea</i>)	2135
Evaluation of Current Prognostic and Predictive Markers in Breast Cancer: A Validation Study of Tissue Microarrays. A. BATISTATOU, D. TELEVANTOU, M. BOBOS, A.G. ELEFThERAKI, E. KOUVARAS, S. CHRISAFI, G.K. KOUKOULIS, V. MALAMOU-MITSI, G. FOUNTZILAS (<i>Ioannina; Thessaloniki; Athens; Larissa, Greece</i>)	2139
The Lynch Syndrome: A Management Dilemma. P. PALUMBO, C. AMATUCCI, B. PEROTTI, C. DEZZI, M. GIROLAMI, G. ILLUMINATI, A.M. ANGELICI (<i>Rome, Italy</i>)	2147
Radiation Therapy in the Treatment of HIV-related Kaposi's Sarcoma. V. DONATO, R. GUARNACCIA, J. DOGNINI, G. DE PASCALIS, C. CARUSO, R. BELLAGAMBA, A. MORRONE (<i>Rome, Italy</i>)	2153
Surgical Resection of Brain Metastases from Breast Cancer in the Modern Era: Clinical Outcome and Prognostic Factors. E. TABOURET, P. METELLUS, A. TALLET-RICHARD, D. FIGARELLA-BRANGER, E. CHARAFFE-JAUFFRET, P. VIENS, A. GONÇALVES (<i>Marseille, France</i>)	2159
Complete Necrosis of a Giant Cell Tumor with High Expression of PPAR γ : A Case Report. A. TAKEUCHI, N. YAMAMOTO, H. NISHIDA, H. KIMURA, H. IKEDA, H. TSUCHIYA (<i>Kanazawa, Japan</i>)	2169
Radiotherapy in the Management of Pancreatic Neuroendocrine Tumors (PNET): Experience at Three Institutions. M.W. SAIF, R. OVE, J. NG, S. RUSSO (<i>Boston, MA; New York, NY; Mobile, AL, USA</i>)	2175

Influence of Sex Differences on the Progression of Cancer-induced Bone Pain. S. FALK, M. ULDALL, C. APPEL, M. DING, A.-M. HEEGAARD (<i>Copenhagen; Odense, Denmark</i>)	1963
Evaluation of E-Cadherin, Ki-67 and Lymphatic Vessel Invasion in Abdominal Metastases of Human Breast Cancer. M. DEBALD, C. KAISER, A. ABRAMIAN, H.U. SCHILDHAUS, P. LOCHER, M. WOLFGARTEN, W. KUHN, M. BRAUN (<i>Bonn; Wittlich; Munich, Germany</i>)	1971
Mitogen-inducible Gene-2 (MIG2) and Migfilin Expression Is Reduced in Samples of Human Breast Cancer. V. GKRETSI, V. PAPANIKOLAOU, L.C. ZACHARIA, E. ATHANASSIOU, C. WU, A. TSEZOU (<i>Larissa, Greece; Pittsburgh, PA, USA</i>)	1977
Characterization of Low Molecular Weight Protein Tyrosine Phosphatase Isoforms in Human Breast Cancer Epithelial Cell Lines. I. ALHO, L. COSTA, M. BICHO, C. COELHO (<i>Lisbon, Portugal</i>)	1983
Evaluation of Melphalan, Oxaliplatin, and Paclitaxel in Colon, Liver, and Gastric Cancer Cell Lines in a Short-term Exposure Model of Chemosaturation Therapy by Percutaneous Hepatic Perfusion. R.P. UZGARE, T.P. SHEETS, D.S. JOHNSTON (<i>Queensbury, NY, USA</i>)	1989
Human Lung Cancer-associated Fibroblasts Enhance Motility of Non-small Cell Lung Cancer Cells in Co-culture. S.-H. KIM, C. CHOE, Y.-S. SHIN, M.-J. JEON, S.-J. CHOI, J. LEE, G.-Y. BAE, H.-J. CHA, J. KIM (<i>Seoul, Republic of Korea</i>)	2001
Ex Vivo Expansion of Natural Killer Cells Using Cryopreserved Irradiated Feeder Cells. H.-J. BAEK, J.-S. KIM, M. YOON, J.-J. LEE, M.-G. SHIN, D.-W. RYANG, H. KOOK, S.-K. KIM, D. CHO (<i>Gwangju; Jeollanamdo; Yesan, Republic of Korea</i>)	2011
Effects of Two Disiloxanes ALIS-409 and ALIS-421 on Chemoprevention in Model Experiments. H. TOKUDA, T. MAOKA, N. SUZUKI, J. HOHMANN, A. VASAS, H. ENGI, I. MUCSI, U. OLSZEWSKI, G. HAMILTON, L. AMARAL, J. MOLNAR (<i>Kanazawa; Kyoto, Japan; Szeged, Hungary; Vienna, Austria</i>)	2021
Regulation of Target Genes of PAX3–FOXO1 in Alveolar Rhabdomyosarcoma. E.H. AHN (<i>Philadelphia, PA; Seattle, WA, USA</i>)	2029
Antifolate Response in Replication Arrest Mutants of <i>Saccharomyces cerevisiae</i> . K. DORNFELD (<i>Duluth, MN, USA</i>)	2037
Comparison of Antitumor Effects of Native and Recombinant Human Interferon- α on Non-small Cell Lung Cancer Cells. G. ŠANTAK, M. ŠANTAK, D. FORČIĆ (<i>Požega; Zagreb, Croatia</i>)	2043

Clinical Studies

Autologous Tumor Lysate-pulsed Dendritic Cell Immunotherapy for Pediatric Patients with Newly Diagnosed or Recurrent High-grade Gliomas. J.L. LASKY III, E.H. PANOSYAN, A. PLANT, T. DAVIDSON, W.H. YONG, R.M. PRINS, L.M. LIAU, T.B. MOORE (<i>Torrance; Los Angeles, CA, USA</i>)	2047
Prolonged Survival Patients with Breast Cancer-related Leptomeningeal Metastases. E. LE RHUN, S. TAILLIBERT, F. ZAIRI, D. PANNIER, T. BOULANGER, C. ANDRE, J.L. CAZIN, F. DUBOIS, J. BONNETERRE, M.C. CHAMBERLAIN (<i>Lille; Paris, France; Seattle, WA, USA</i>)	2057
VEGFR1 and NRP1 Endothelial Expressions Predict Distant Relapse after Radical Prostatectomy in Clinically Localized Prostate Cancer. M. TALAGAS, A. UGUEN, R. GARLANTEZEC, G. FOURNIER, L. DOUCET, E. GOBIN, P. MARCORELLES, A. VOLANT, M. DE BRAEKELEER (<i>Brest, France</i>)	2065
Transarterial Chemoembolization Using DEBIRI for Treatment of Hepatic Metastases from Colorectal Cancer. G. NARAYANAN, K. BARBERY, R. SUTHAR, G. GUERRERO, G. ARORA (<i>Miami, FL, USA</i>)	2077

The mTOR Inhibitor RAD001 Potentiates Autophagic Cell Death Induced by Temozolomide in a Glioblastoma Cell Line. E. JOSSET, H. BURCKEL, G. NOËL, P. BISCHOFF (<i>Strasbourg Cedex, France</i>)	1845
Identification of HLA Class I-binding Peptides Derived from Unique Cancer-associated Proteins by Mass Spectrometric Analysis. Y. KAMATA, A. KUHARA, T. IWAMOTO, K. HAYASHI, S. KOIDO, T. KIMURA, S. EGAWA, S. HOMMA (<i>Tokyo, Japan</i>)	1853
Antiproliferative and Apoptosis-inducing Activity of Curcumin against Human Gallbladder Adenocarcinoma Cells. M. ONO, T. HIGUCHI, M. TAKESHIMA, C. CHEN, S. NAKANO (<i>Fukuoka, Japan</i>)	1861
The Indole-3-carbinol Cyclic Tetrameric Derivative CTet Synergizes with Cisplatin and Doxorubicin in Triple-negative Breast Cancer Cell Lines. M. DE SANTI, L. GALLUZZI, A. DURANTI, M. MAGNANI, G. BRANDI (<i>Urbino, Italy</i>)	1867
Broussonflavonol B Restricts Growth of ER-negative Breast Cancer Stem-like Cells. M. GUO, M. WANG, X. ZHANG, H. DENG, Z.-Y. WANG (<i>Omaha, NE, USA</i>)	1873
Changes in CO ₂ Concentration Increase the Invasive Ability of Colon Cancer Cells. S. OBATA, T. GOI, T. NAKAZAWA, Y. KIMURA, K. KATAYAMA, A. YAMAGUCHI (<i>Fukui, Japan</i>)	1881
Blood Oxygen Level-dependent MRI for Evaluation of Early Response of Liver Tumors to Chemoembolization: An Animal Study. J.W. CHOI, H. KIM, H.-C. KIM, Y. LEE, J. KWON, R.-E. YOO, H.R. CHO, S.H. CHOI, J.W. CHUNG (<i>Seoul, Republic of Korea</i>)	1887
Increased Plasma Caveolin-1 Levels Are Associated with Progression of Prostate Cancer among Japanese Men. S. SUGIE, S. MUKAI, H. TSUKINO, Y. TODA, T. YAMAUCHI, I. NISHIKATA, Y. KURODA, K. MORISHITA, T. KAMOTO (<i>Miyazaki; Tenri, Nara, Japan</i>)	1893
Mutations in Adenosine Deaminase-like (ADAL) Protein Confer Resistance to the Antiproliferative Agents N ₆ -Cyclopropyl-PMEDAP and GS-9219. C.R. FREY, G. ANDREI, I. VOTRUBA, C. CANNIZZARO, B. HAN, W. FUNG, M. HUNG, X. LIU, R. GELEZIUNAS, P. FITEN, G. OPDENAKKER, R. SNOECK, T. CIHLAR (<i>Foster City, CA, USA; Leuven, Belgium; Prague, Czech Republic</i>)	1899
Angiogenesis of Lung Cancer Utilizes Existing Blood Vessels Rather than Developing New Vessels Using Signals from Carcinogenesis. H. URAMOTO, S. YAMADA, F. TANAKA (<i>Kitakyushu, Japan</i>)	1913
Expression of Bone Morphogenetic Protein-10 (BMP10) in Human Urothelial Cancer of the Bladder and its Effects on the Aggressiveness of Bladder Cancer Cells <i>In Vitro</i> . N. ZHANG, L. YE, L. WU, X. DENG, Y. YANG, W.G. JIANG (<i>Beijing; Xinjiang, P.R. China; Cardiff, UK</i>)	1917
Tumor-derived Tenascin-C Promotes the Epithelial– Mesenchymal Transition in Colorectal Cancer Cells. Y. TAKAHASHI, G. SAWADA, J. KURASHIGE, T. MATSUMURA, R. UCHI, H. UEO, M. ISHIBASHI, Y. TAKANO, S. AKIYOSHI, T. IWAYA, H. EGUCHI, T. SUDO, K. SUGIMACHI, H. YAMAMOTO, Y. DOKI, M. MORI, K. MIMORI (<i>Beppu; Suita, Japan</i>)	1927
<i>Thymidylate Synthase</i> Gene Copy Number as a Predictive Marker for Response to Pemetrexed Treatment of Lung Adenocarcinoma. D. KASAI, H. OZASA, T. OGURI, M. MIYAZAKI, T. UEMURA, O. TAKAKUWA, E. KUNII, H. OHKUBO, K. MAENO, A. NIIMI (<i>Nagoya, Japan</i>)	1935
Quercetin Inhibits Migration and Invasion of SAS Human Oral Cancer Cells through Inhibition of NF- κ B and Matrix Metalloproteinase-2/-9 Signaling Pathways. W.-W. LAI, S.-C. HSU, F.-S. CHUEH, Y.-Y. CHEN, J.-S. YANG, J.-P. LIN, J.-C. LIEN, C.-H. TSAI, J.-G. CHUNG (<i>Taichung, Taiwan, ROC</i>)	1941
Chemotherapeutic Alteration of VEGF, PDGF and PDGFR α/β Expression Under 5-FU vs. Docetaxel in HPV-transformed Squamous Cell Carcinoma Compared to HPV-negative HNSCC <i>In Vitro</i> . C. ADERHOLD, C. UMBREIT, A. FABER, A. SAUTER, J.U. SOMMER, R. BIRK, P. ERBEN, R.-D. HOFHEINZ, J. STERN-STRÄETER, K. HÖRMANN, J.D. SCHULTZ (<i>Mannheim, Germany</i>)	1951