THURSDAY, JULY 25, 2013

14:00  Registration

17:00-17:30  Opening Session  Hall A

Uzia Galil, Israel
Eddy Karniel, Israel
Philippe Froguel, France, UK
Hans-Ulrich Häring, Germany
Eliezer Shalev, Israel

17:30-18:30  Plenary Session  Hall A

Chair: Derek LeRoith, USA, Israel

Challenges in Implementing Personalized Oncology Treatment
David Sidransky, USA

18:30-20:00  Welcome Reception and Poster Viewing
FRIDAY, JULY 26, 2013

07:15       Registration

08:30-10:30  Plenary Session

08:30        The Road Towards Personalized Diabetes Medicine
              Philippe Froguel, France, UK

09:00        Type 2 Diabetes – An Interaction Between Genes and Environment
              Ulf Smith, Sweden

09:30        Personalized Medicine Program within the German Diabetes Research Center: Attempts to Stratify Prevention and Therapy of Type 2 Diabetes
              Hans-Ulrich Häring, Germany

10:00        Fatty Liver: Molecular Targets for Personalized Therapy
              Morris White, USA

10:30-11:00  Coffee Break Sponsored by Novo Nordisk & Poster Viewing

11:00-13:00  Parallel Sessions

11:00-13:00  Diabetes / Obesity

Chair: Ulf Smith, Sweden & Francesco Beguinot, Italy

11:00        Personalized Medicine and Type 2 Diabetes: Lesson from Epigenetics
              Francesco Beguinot, Italy

11:30        Differences in Risk Factors for Coronary Heart Disease among Diabetic and Nondiabetic Individuals from a Population with High Rates of Diabetes: The Strong Heart Study
              Jiaqiong Xu, USA
11:45  N-Acetyl-Cysteine (NAC) Supplementation for the treatment of diabetes: Biomarkers for Redox State Must be Identified
Tovit Rosenzweig, Israel

12:00  Predictive, Preventive and Personalized Medicine (PPPM) as a Strategic Avenue and Global Tool for Advancing T1D-related Care: Fundamental, Applied and Affiliated Issues
Sergey Suchkov, Russia

12:15  Round Table Discussion –Tailoring Therapy in Diabetes and Obesity
Moderator: Alan Shuldiner, USA;
Participants:
Derek LeRoith, USA, Israel
Ulf Smith, Sweden
Francesco Beguinot, Italy
Hans-Ulrich Häring, Germany
Eddy Karnieli, Israel

11:00-13:00  Oncology  Hall B

Chairs: Yehuda G. Assaraf, Israel & Ingolf Cascorbi, Germany

11:00  Pharmacogenetic Role of EGFR and its Ligands in Locally Advanced Rectal Cancer Patients Treated with Neoadjuvant Chemoradiotherapy
Juliana Salazar, Spain

11:15  Molecular-Guided Therapy for the Treatment of Patients with Neuroblastoma
Giselle Sholler, USA

11:30  DNA Methylation Biomarkers in Blood for Monitoring Disease Progression in Cancer Patients
Annette Leisse, Germany

11:45  Gastric Lymphoma Cancer Prediction of Antibiotics Treatment Via Artificial Neural Networks Algorithm
Jiann-Shing Shieh, Taiwan

12:00  Combination of Markers in Early Detection of Prostate (Case Study)
Radka Fuchsova, Czech Republic

12:15  A Clinical Service Using The Ampliseq™ Cancer Panel Reveals Mutations With Possible Clinical Implications in the ATM, GNAS, KRAS, ABL1 and ERBB2 Genes
Aviad Zick, Israel

12:30  Genetic Studies in The Prevention of Pathological Processes of Female Genital Mutilation
Vera Ogryzkova, Russia

12:45  To Be Advised
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<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker/Location</th>
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<tbody>
<tr>
<td>11:00-12:30</td>
<td>Can Nanotechnology Help in Managing a Personalized Approach to Cancer Pain? Organized by the University of Florence and the Tuscany Region</td>
<td>Hall C</td>
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<tr>
<td>11:00</td>
<td>Nanoparticles: From Synthesis to Biomedical Applications</td>
<td>J. Spadavecchia, France</td>
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<td>11:20</td>
<td>The Link between Nanotechnology and Personalized Medicine</td>
<td>Annarosa Arcangeli, Italy</td>
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<td>11:40</td>
<td>Molecular and Computational Strategies for Target Selection in Oncology</td>
<td>Enrico Bucci, Italy</td>
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<tr>
<td>12:00</td>
<td>Pharmacological Treatments for Cancer Pain</td>
<td>University of Florence representative - To Be Advised</td>
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<tr>
<td>12:20</td>
<td>Conclusion and Future Perspectives</td>
<td>G.F. Gensini, Italy</td>
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<tr>
<td>13:00-14:00</td>
<td>Lunch Break &amp; Poster Viewing</td>
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<tr>
<td>14:00-16:30</td>
<td>Parallel Sessions</td>
<td>Hall A</td>
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<tr>
<td>14:00-16:30</td>
<td>Oncology / Diagnostics</td>
<td>Hall A</td>
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<tr>
<td>Chair:</td>
<td>Raphael Catane, Israel</td>
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<tr>
<td>14:00</td>
<td>Molecular Analysis of Breast Cancer Tissue. How to Choose Between Products?</td>
<td>Raphael Catane, Israel</td>
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<tr>
<td>14:30</td>
<td>Bringing Genomics into Clinical Practice: Lessons from Oncotype DX in Breast, Colon, and Prostate Cancer</td>
<td>Steven Shak, USA</td>
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<tr>
<td>15:00</td>
<td>Merits of Intrinsic Subtyping With Prosigna (PAM 50) Nanostring in Breast Cancer Patients Outcome</td>
<td>Karl Sotlar, Germany</td>
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<td>15:30</td>
<td>New Developments in Mutation Analysis: Lessons from Breast Cancer</td>
<td>Neil Barth, USA</td>
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<tr>
<td>16:00</td>
<td>Round Table Discussion: Tailoring Diagnostic Panels to Clinical Needs</td>
<td>Moderator: Raphael Catane, Israel</td>
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<td>Time</td>
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<tr>
<td>14:00</td>
<td>Analysis of Genomic Data Affecting Personalization of Prostate Cancer Evaluation</td>
<td>Yelena Yesha, USA &amp; Yaacov Yesha, USA</td>
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<tr>
<td>14:30</td>
<td>Computational Techniques for Conversion of Clinical Data into Knowledge Base</td>
<td>Joshi Anupam, USA</td>
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<tr>
<td>15:00</td>
<td>From Genetic Testing to Personalized Approach in Patients</td>
<td>Tatiana Amirova, Russia</td>
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<td>15:30</td>
<td>Analyzing Big Data in HMO</td>
<td>Varda Shalev, Israel</td>
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<td>16:00</td>
<td>A Machine-learning Approach to Pharmacogenomics. Application to Therapy of Myastenia Gravis</td>
<td>Dimos Kapetis, Italy</td>
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<td>16:15</td>
<td>To Be Advised</td>
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**16:30-17:00** Coffee Break Sponsored by Novo Nordisk & Poster Viewing

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<tr>
<td>17:00</td>
<td>Implications of Induced Pluripotent Stem Cells for Personalized Medicine in Cardiology</td>
<td>Lior Gepstein, Israel</td>
<td>Hall A</td>
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<tr>
<td>17:30</td>
<td>Diabetes and Dementia: A Personalized Approach</td>
<td>Derek Leroith, USA, Israel</td>
<td>Hall A</td>
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</table>
SATURDAY, JULY 27, 2013

07:15  Registration

08:30-11:00  Parallel Sessions

08:30-11:00  Pharmacogenomics  Hall A

Chairs: Alan Shuldiner, USA & Norberto Krivoy, Israel

08:30  Pharmacogenomics: Real-world Challenges in Translation to Clinical Practice
      Alan Shuldiner, USA

09:00  Genetic Polymorphisms Predicting Methotrexate Blood Levels and Toxicity in Adult Non-Hodgkin's Lymphoma
      Norberto Krivoy, Israel

09:30  Exploitation of Epigenetic Changes to Distinguish Benign from Malignant Prostate Biopsies
      Arnold J. Willis, Aruba

10:00  Successful Enterprise-wide Integration of Pharmacogenetics into Clinical Practice at a Large Multi-Specialty Group Practice
      Kathryn Teng, USA

10:15  Antibody-Proteases as Novel Tools for Predicting and Preventing Neurodegenerative Disorders
      Sergey Suchov, Russia

10:30  CLIPMERGE PGx: Clinical Implementation of Personalized Medicine through Electronic Health Records and Genomics - Pharmacogenomics
      Omri Gottesman, USA

10:45  The Thousand Dollar Genome: Is There a Duty to Re-contact?
      Reed Pyeritz, USA
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>08:30</td>
<td>Advances in Molecular Imaging of Cancer</td>
<td>Ora Israel, Israel</td>
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<tr>
<td>09:00</td>
<td>Patient-Specific Design of Drug Delivery Options for the Central Nervous System Based on Individual Medical Images</td>
<td>Andreas Linninger, USA</td>
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<tr>
<td>09:30</td>
<td>Rediscovering Diagnostic Imaging in the Next Generation of Personalized Medicine</td>
<td>Eliot L. Siegel, USA</td>
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<td>10:00</td>
<td>Quadrugnostic Nanoparticles for Delivery of Personalized Drug Combinations and Diagnostic Contrast Agents</td>
<td>Yoav D. Livney, Israel</td>
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<tr>
<td>10:20</td>
<td>Dual Energy CT - Analysis of Kidney Stones for Specific Patient Treatment</td>
<td>Reuven Shreiber, Israel</td>
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<tr>
<td>10:40</td>
<td>Integrating MRI Multivariate Markers with Cognitive Neuropsychological Scores for an Optimal Decisional Space in Predicting Alzheimer’s Disease</td>
<td>Malek Adjouadi, USA</td>
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<tr>
<td>11:00</td>
<td>Coffee Break &amp; Poster Viewing</td>
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<tr>
<td>11:30</td>
<td>Parallel Sessions</td>
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<tr>
<td>11:30</td>
<td>Oncology - Targeted Therapy</td>
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<tr>
<td>11:30</td>
<td>Insight from a Centralized Personalized Medicine Program in Cancer</td>
<td>Gad Rennert, Israel</td>
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<tr>
<td>12:00</td>
<td>Overcoming Cancer Multidrug Resistance: Towards Targeted Personalized Chemotherapy</td>
<td>Yehuda G. Assaraf, Israel</td>
</tr>
</tbody>
</table>
### 12:30 Real-Time Application of Companion Diagnostics for Personalizing Targeted Small Molecule Drug Conjugate (SMDC) Therapy
Christopher P. Leamon, USA

### 13:00 Identification of New Breast Cancer Drug Target Candidates by Direct Genome-scale Analysis of the Tumor Membrane Proteomes by Quantitative High-resolution Mass Spectrometry
Metodi Metodiev, United Kingdom

### 13:15 Haplotypes of Multidrug Resistance-Associated Protein 2 (MRP2) Affect the Pharmacokinetics of Tacrolimus in Kidney Transplant Recipients
Fatemeh Akhlaghi, USA

### 11:30-13:30 Information Technology - Big Data Hall B
Chairs: Naphtali Rishe, USA & Rémi Bastide, France

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<tr>
<td>11:30</td>
<td>Supervised Machine Learning in the Personalized Assessment of the Risk of Breast Cancer</td>
<td>Naphtali Rishe, USA</td>
<td>Hall B</td>
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<tr>
<td>12:00</td>
<td>Personalizing Medical Treatments Based on Ambient Information: Towards Interoperable Monitoring Applications</td>
<td>Rémi Bastide, France</td>
<td>Hall B</td>
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<tr>
<td>12:30</td>
<td>Privacy and Security Policies for Healthcare Solutions on the Cloud</td>
<td>Karuna Joshi, USA</td>
<td>Hall B</td>
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<tr>
<td>13:00</td>
<td>Network Integration Approaches Towards Personalized Medicine</td>
<td>Aryya Gangopadhyay, USA</td>
<td>Hall B</td>
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### 13:30-14:30 Lunch Break and Poster Viewing

### 14:30-17:00 Plenary Session Hall A
Chairs: Erwin Bottinger, USA & Eddy Karnieli, Israel

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<tr>
<td>14:30</td>
<td>Real-world Implementation of Personalized Medicine Through Electronic Health Records and Clinical Decision Support</td>
<td>Erwin Bottinger, USA</td>
<td>Hall A</td>
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<tr>
<td>15:00</td>
<td>Using Data to Tailor Personal Treatment Decisions – The Experience of Clalit</td>
<td>Nicky Liebermann, Israel</td>
<td>Hall A</td>
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<tr>
<td>15:30</td>
<td>Challenges of Introducing Pharmacogenetics in Clinical Practice</td>
<td>Ingolf Cascorbi, Germany</td>
<td>Hall A</td>
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</table>
16:00 Round Table: Health Policy in Implementing Personalized Medicine in Clinical Practice
Moderator: Ann Liebshutz, USA
Participants: Erwin Bottinger, USA, Nicky Lieberman, Israel, Ingolf Cascorbi, Germany, Varda Shalev, Israel, Eddy Karnieli, Israel

16:45 Closing Remarks and Farewell
### Posters

#### Topic: Diabetes / Obesity

1. **CYP2C9 Polymorphisms and the Response to Sulphonylurea Treatment in Type 2 Diabetes Mellitus Patients**
   Vita Dolžan, Jasna Klen, Andrej Janež, Slovenia

2. **Comparison of Effect of Regular and Diet Soft Drinks on Blood Sugar Levels of Type II Diabetic Patients (Is Diet Cola safe for Diabetes or not!)**
   Ahtisham Ul Haq, Pakistan

3. **Association of the ADIPOQ-11377C G Polymorphism with the Level of Total and High-Molecular-Weight Adiponectin in Obese Children**
   Joanna Gajewska, Alina Kurylowicz, Jadwiga Ambroszkiewicz, Magdalena Chelchowska, Halina Weker, Ewa Mierzejewska, Teresa Laskowska-Kliita, Monika Puzianowska-Kuznicka, Poland

4. **Obesity and Alcoholism: Genetic Overlaps**
   Anelia Horvath, Tatiyana Apanasovich, USA

5. **Discovery of a Novel Series of Indolyl Hydrazide Derivatives as Diacylglycerol Acyltransferase-1 Inhibitors for the Treatment of Metabolic Diseases**
   Minkyoung Kim, Boah Lee, Hwa Young Jung, Chorong Kim, Jee Hee Seo, Mun Ock Kim, Kyeong Lee, Hyun Sun Lee, Yongseok Choi, South Korea

#### Topic: Diagnostics

6. **Genetic Factors of Venous Thrombosis in Kazakhstan**
   Galina Berezina, Gulnara Svyatova, Yergali Miyerbekov, Esentai Espenbetov, Kazakhstan

7. **Patterns of Lung Perfusion on Dual Energy CT as a Novel Individualizing Diagnostic Tool in Patients with Suspected Pulmonary Emboli.**
   Doron Fischer, Reuven Shreiber, Gali Shapira, Israel
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<td>Functional Study of Suppressor of Cytokine Signaling 3 in Osteoblast Inflammatory Responses, a First Step to Personalized Medicine in Inflammatory Bone Diseases</td>
<td>Hongwei Gao, Chunguang Yan, Anqi Gao, Alpdogan Kantarci, Thomas E. Van Dyke, USA</td>
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<td>10</td>
<td>HSP27 Inhibitor Down-regulates Her2 Expression in Human Breast Cancer Cell Line SK-BR-3 with Induced Herceptin Resistance</td>
<td>Min Kyung Kim, Won Ki Kim, Kun Kim, Kyung-Hee Kim, Seung Cheol Kim, Byong Chul Yoo, South Korea</td>
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<td>11</td>
<td>The Cardiopulmonary Exercise Test as a Tool for Antihypertensive Treatment Evaluation and Possible Individual Treatment Adjustment</td>
<td>Eliezer Klainman, Alex Yarmolovsky, Rafi Wishnitzer, Gershon Fink, Israel</td>
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<td>12</td>
<td>Association of Transporter Gene and Efavirenz Pharmacokinetics in HIV-1 Infected Thai Adults</td>
<td>Napatrupron Koomdee, Weerawat Manosuthi, Siwalee Santon, Apichaya Puangpetch, Montri Chamnanphon, Santirat Prommas, Thawinee Jantararoungtong, Chonlaphat Sukasem, Thailand</td>
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<td>13</td>
<td>The Parameters of Erythrocytes in the Diagnosis of Different Pathogenic Variants of Stroke</td>
<td>Margarita Kruchinina, Andrey Gromov, Vladimir Generalov, Anna Rabko, Russia</td>
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<td>14</td>
<td>Clinical Utility of a Minimal Mathematical Model of the Hypothalamus-Pituitary-Thyroid Axis to Individualize Therapeutic Targets</td>
<td>Melvin Leow, Singapore, Johannes Dietrich, Germany, Jan Smit, The Netherlands, Sam Goede, The Netherlands</td>
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<td>15</td>
<td>A 16 Year Old Girl with Acute and Prolonged Psychosis following Chloroquine Toxicity and Polypsychopharmacotherapy: Utility of Personalized Pharmacogenetic Testing</td>
<td>Nicole Maxwell, USA, Remington Nevin, USA, Stephen Stahl, USA, Jerald Block, USA, Sarah Shugarts, USA, Alan Wu, USA, Stephen Dominy, USA, Miguel Alonso Solano Blanco, Honduras, Sharon Kappelman-Culver, USA, Christopher Lee-Messer, USA, Jose Maldonado, USA</td>
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<td>16</td>
<td>The Impact of the CYP2C9 and VKORC1 Genetic Polymorphisms on Aacenocoumarol Dose Requirements in the Group of Patients under Anticoagulation Therapy in Serbian Population</td>
<td>Ljiljana Rakicevic, Mirjana Kovac, Jelena Kusic-Tisma, Dragica Radojkovic, Serbia</td>
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<td>U-BRAF-V600 - an Universal BRAF State Detection Within Activation Segment in Skin Metastases of Malignant Melanoma</td>
<td>Alexander Skorokhod, Germany</td>
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<td>18</td>
<td>Reference Values of IGF1 and IGFBP3 in Czech Population</td>
<td>Ondrej Topolcan, Radek Kucera, Jindra Vrzalova, Radka Fuchsova, Judita Kinkorova, Czech Republic</td>
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19 Prevalence of Metabolic Syndrome With and Without the Experience of Migration in Population of Zacatecas, Mexico
Daniel Baltazar Salazar, Lorena Ávila Carrasco, Pascual García Zamora, Efraín Jiménez Muñoz, Mexico

20 Knowledge and Attitudes Towards Cardiovascular Disease in a Population of North Western Turkey: Results from a Population Survey in the Safranbolu Area
İsil Isık Andsoy, Turkey, Sevinc Tastan, Turkey, Emine Iyıgun, Turkey, Lawrence R. Kopp, USA

21 Personalised Medicine – Pre- and Post-graduate Education in the Czech Republic
Marie Karlikova, Ondrej Topolcan, Jiri Polivka jr., Sarka Svobodova, Martin Pesta, Judita Kinkorova, Radka Fuchsova, Czech Republic

22 Determinants of Primary Health Care Centers; Economic and Production Efficiency
Panagiotis Mitropoulos, Ioannis Mitropoulos, Greece

23 The Role of Personal Genomes in Medical Education
Lauren Doyle, Nicholas Ambulos, Alan Shuldiner, Robert Wachbroit, Miriam Blitzer USA

Topic: Imaging

24 Improving Color and Shape Reproducibility of Tongue Images for Diagnosis by Feedback Guide-lines
Chang Jin Jung, Keun Ho Kim, YoungJu Jeon, South Korea

25 Role of Diffusion MRI and ADC Values in Characterizing Breast Lesions
Nuran Sabir, Cihan Kaya, Turkey

Topic: Oncology

26 A Genome Wide Approach to Exploit ion Channels and Transporters for a Targeted Therapy of Cancer
Marika Masselli, Alberto Magi, Angelo Fortunato, Pasquale Laise, Serena Pillozzi, Olivia Crociani, Cesare Sala, Annarosa Arcangeli, Italy

27 Association of CYP2D6 and CYP2C19 Polymorphisms and Disease-free Survival of Thai Post-Menopausal Breast Cancer Patients Who Received Adjuvant Tamoxifen
Montri Chamnanphon, Khunthong Pechatan, Ekapob Sirachainan, Narumol Trachu, Wasun Chantratita, Ekawat Pasomsun, Wilai Noonpakdee, Insee Sensorn, Chonlaphat Sukasem, Thailand

28 Novel Sorafenib Analogues Induce Apoptosis Through SHP-1 Dependent STAT3 Inactivation in Human Breast Cancer Cells
Chun-Yu Liu, Ling-Ming Tseng, Kung-Chi Chang, Pei-Yi Chu, Wan-Lun Wang, Chung-Wai Shiau, Kuen-Feng Chen, Taiwan
Oncogene GAEC1 Regulates CAPN10 Expression Which Predicts Survival in Esophageal Squamous Cell Carcinoma
Chan Dessy, Hong Kong, Tsoi Miriam Y.T., Hong Kong, Liu Christina D., Hong Kong, Chan S.H., Hong Kong, Law Simon, Hong Kong, Chan K.W., Hong Kong, Chan Y.P., Hong Kong, Gopalan Vinod, Hong Kong, Lam Alfred K.Y., Australia, Tang Johnny C.O., Hong Kong

The Risk of Second Neoplasm after Treatment of Childhood Acute Lymphoblastic Leukemia – The Role of DNA Repair Polymorphisms
Vita Dolžan, Nina Erčulj, Barbara Faganel Kotnik, Maruša Debeljak, Janez Jazbec, Slovenia

Breast Cancer Pharmacogenetics: CYP2D6 Testing, Correct Hypothesis, Wrong Focus?
Nigel Fleeman, United Kingdom, Katherine Payne, United Kingdom, William G. Newman, United Kingdom, Sacha J. Howell, United Kingdom, Angela Boland, United Kingdom, James Oyee, United Kingdom, Carlos Martin Saborido, Spain, Ana Fernández Santander, Spain, Rumona Dickson, United Kingdom

(E)-Phenoxyacrylic Amide Analogues: New Class of Hypoxia Inducible Factor(HIF) -1α Inhibitors
Kyeong Lee, Yongseok Choi, South Korea

Prospective Study on Serum Lipids Levels and Risk of Prostate Cancer in Jamaican Men
Donovan McGrowder, Kathleen Coard, William Aiken, Tracey Gibson, Belinda Morrison, Richard Mayhew, Jamaica

Personalized Medicine in the Detection and Treatment of Prostate Cancer Based on P504S Positive Circulating Prostate Cells
Nigel P. Murray, Eduardo Reyes, Leonardo Badinez, Nelson Orellana, Chile

Presence and Phenotypic Characteristics of Bone Marrow Micrometastasis in Determining Individual Treatment for Biochemical Failure after Radical Prostatectomy for Prostate Cancer
Nigel P. Murray, Eduardo Reyes, Nelson Orellana, Leonardo Badinez, Chile

Cyclooxygenase-2-mediated Anti-cancer Effect of Anandamide in Head and Neck Squamous Cell Carcinoma Cells
SeokWoo Park, MyungWhun Sung, South Korea

Study on Information, Behavior, and Health Beliefs about Colorectal Cancer Screenings on Turkish People over 50
Sevinc Tastan, Isil Isik Andsoy, Emine Iyigun, Turkey

IGF1 Serum Levels in Melanomas
Ondrej Topolcan, Radek Kucera, Jindra Vrzalova, Inka Treskova, Sarka Svobodova, Marie Karlikova, Radka Fuchsova, Vladislav Treska
Czech Republic
39 Prognostic and Predictive Factors in Breast Cancer- Systematic Review
Mariela Vasileva, Kostadin Angelov, Theophil Sedlov, Alena Chupryna, George Todorov
Bulgaria

40 Novel Markers of Bone Metastatic Process – Use of Multiplex Assay
Jindra Vrzalova, Radka Fuchsova, Marie Karlikova, Ondrej Topolcan, Jindrich Finek
Czech Republic

41 Novel HER2-Specific T Cell-Based Vaccine Stimulates Antitumor Immunity in Double Transgenic HLA-A2/HER2 Mice And Eradicates Trastuzumab-Resistant Breast Cancer in Athymic Nude Mice
Jim Xiang, Lu Wang, Canada

---

**Topic: Pharmacogenomics**

42 Transcription Activator-like Effectors for Patient-specific Treatment Modalities
Leonidas Bleris, USA

43 The Functional G143E Variant of Carboxylesterase 1 is Associated with Increased Clopidogrel Active Metabolite Levels and Greater Clopidogrel Response

44 Novel Association of Dual Anti-platelet Drug Response with a Functional Variant in PPARG
Alan Shuldiner, USA