Day 1    September 12, 2016

09:00-09:30 Registrations

Sylt 1

Opening Ceremony

Keynote Forum

Session Introduction

10:00-10:45 Title: Key success factors implementing precision medicine
Andreas Scherer, Golden Helix Inc., USA

10:45-11:30 Title: Virtualized drug development for (truly) personalized drug therapy
Hans Lehrach, Max Planck Institute for Molecular Genetics, Germany

Networking & Refreshment Break 11:30-11:45 @ Foyer

Sessions:
Genome Medicine | Future trends in Genomics | Biomarkers & Molecular Markers | Bioinformatics in Genomics | Plant Genomics | Pharmacogenomics & Personalized Medicine | Cancer Genomics

Session Chair: Gerald J Wyckoff, University of Missouri-Kansas City, USA
Session Co-Chair: Yuri E Dubrova, University of Leicester, UK

Session Introduction

11:45-12:15 Title: The next generation of genomicists
Gerald J Wyckoff, University of Missouri-Kansas City, USA

12:15-12:45 Title: A genome-wide analysis of mutation induction in the mouse germ-line
Yuri E Dubrova, University of Leicester, UK

12:45-13:15 Title: Analytical strategy to unravel novel candidates from Alzheimer’s disease gene regulatory networks using public transcriptomic studies
Tamara Raschka, Fraunhofer Institute for Algorithms and Scientific Computing, Germany

Lunch Break 13:15-14:00 @ Restaurant

14:00-14:30 Title: Genotoxicity and cytotoxicity evaluation of the neolignan analogue 2-(4-Nitrophenoxy)-1-phenylethanone and its Protective effect against DNA damage
Alex Lucas Hanusch, Universidade Federal de Goiás, Brazil

14:30-15:00 Title: Multiallelic copy number variations of MSH2-AT3G18530-AT3G18535 genes in Arabidopsis thaliana: In-depth analysis of genotypes, mechanisms leading to their formation and the functional implications
Agnieszka Zmienko, Poznan University of Technology, Poland

15:00-15:30 Title: Patient derived micro tumor systems: Future trends towards improved testing systems, realizing the potential of HTS/HCS towards precision medicine
Giridharan Periyasamy, Genome Institute of Singapore, Singapore

Networking & Refreshment Break -15:30-15:45 @ Foyer

15:45-16:15 Title: Phylogenetic analysis of TYLCV on tomato plants in Kuwait
Ebtesam Al-Ali, Kuwait Institute for Scientific Research, Kuwait

16:15-16:45 Title: DNA repair in head and neck cancers and their radiosensitivity
Martin Falk, Czech Academy of Sciences, Czech Republic

16:45-17:15 Title: Analysis of DNA methylation of psoriasis patients treated with anti-TNF drugs using bioinformatics tools
Maria C Ovejero-Benito, Instituto de Investigación Sanitaria la Princesa, Spain

17:15-17:45 Title: Screening of genetic variants in familial case of myeloid neoplasm using exome sequencing
Sara Teresinha Olalla Saad, State University of Campinas, Brazil

Panel Discussion
# Keynote Forum

**09:00-09:45 Title:** Chromatin structure and chromosomal rearrangements in CD34+ cells and lymphocytes from Myelodysplastic syndromes (MDS) patients  
**Martin Falk,** Czech Academy of Sciences, Czech Republic

**Sessions:**  
- microRNA  
- Clinical Genomics  
- mRNA Analysis  
- Next Generation Sequencing  
- Comparative Genomics  
- Genome Engineering  
- Functional Genomics  
- Microbial Genomics

**Session Chair:** Janos Zempleni, University of Nebraska-Lincoln, USA  
**Session Co-Chair:** Martin Falk, Czech Academy of Sciences, Czech Republic

### Session Introduction

**09:45-10:15**
**Title:** Delivery of functional RNA cargos by dietary exosomes from cow’s milk in C57BL/6J mice  
**Janos Zempleni,** University of Nebraska-Lincoln, USA  

**10:15-10:45**
**Title:** Polymorphisms that regulate the response to Etanercept in psoriatic patients  
**Maria C Ovejero-Benito,** Instituto de Investigación Sanitaria la Princesa, Spain

**10:45-11:15**
**Title:** Molecular characterizing of TYLCV in cucumber plants in Kuwait  
**Ebtesam Al-Ali,** Kuwait Institute for Scientific Research, Kuwait

**Networking & Refreshment Break 11:15-11:30 @ Foyer**

**11:30-12:00**
**Title:** Study of expression and functional mechanisms of histamine N-Methyltransferase (HNMT) in tumorigenesis and correlation with progression in lung cancer  
**Chi-Tai Yeh,** Taipei Medical University-Shuang Ho Hospital, Taiwan

**12:00-12:30**
**Title:** Identification of new microRNA biomarkers in drug-insensitive cancer stem cells in human leukemia  
**Xiaoyan Jiang,** University of British Colombia, Canada

**12:30-13:00**
**Title:** Dynamics of PBMC gene expression during Peginterferon/Ribavirin combination therapy in hepatitis C virus genotype 1b-infected patients  
**Chia-Yen Dai,** Kaohsiung Medical University, Taiwan

**Lunch Break 13:00-13:45 @ Restaurant**

### Poster Presentations 13:45-14:30

**GPC 01**
**Title:** Development of a comprehensive high-coverage, cost effective HLA typing assay  
**Qu Zhengzhong James,** Genome Institute of Singapore, Singapore

**GPC 02**
**Title:** High throughput identification of novel conotoxins from cone snails by multi-transcriptomic sequencing  
**Qiong Shi,** Shenzhen University, China

**GPC 03**
**Title:** Genetic polymorphisms of pharmacogenomic VIP variants in seven national minorities from different regions of China  
**Tianbo Jin,** Xizang Minzu University, China

**GPC 04**
**Title:** Genes involved in neurodevelopment, neuroplasticity and bipolar disorder: CACNA1C, CHRNA1 and MAPK1  
**Chi-Un Pae,** Catholic University of Korea, South Africa

**GPC 05**
**Title:** PDCD1 single nucleotide genes polymorphisms confer susceptibility to juvenile-onset systemic lupus erythematosus  
**Mohammad Roushanghal,** Tehran University of Medical Sciences, Iran

**GPC 06**
**Title:** Recent progression in hemophilia gene therapy  
**Reyhane Sadat Saeedi,** Tehran University of Medical Sciences, Iran

**GPC 07**
**Title:** Autosomal recessive non syndromic hearing loss (ARNSH): Different mutations spectrum in Iran  
**Saeed Tarverdizadeh,** Tehran University of Medical Sciences, Iran
Young Researcher Forum

14:30-14:50
Title: Identification of disease causing mutations in hyperglycinemic captive bred vervet monkeys (Chlorocebus aethiops)
Zandisiwe Emilia Magwebu, Medical Research Council, South Africa

14:50-15:10
Title: Mutation detection of RB1 tumor suppressor gene (exon 18 & 19) and expression assay of FGF2 oncogene in patients with brain tumors including meningioma and astrocytoma
Ali Hosseini Bereshneh, Tehran University of Medical Sciences, Iran

15:10-15:30
Title: The role of chromosomal abnormalities in spontaneous abortion and chromosome analysis importance
Reyhane Sadat Saeedi, Tehran University of Medical Sciences, Iran

15:30-15:50
Title: Pharmacogenetics in breast cancer therapy: Patient’s genetics profile in trastuzumab and tamoxifen prescription
Saeed Tarverdizadeh, Tehran University of Medical Sciences, Iran

Networking & Refreshment Break 15:50-16:05 @ Foyer

Panel Discussion

Day 3 September 14, 2016
B2B and Networking Session @ 12:30-13:30