

Scientific Program

Day 1

July 27, 2015

08:30-09:00 Registrations

Hall 1



09:00-09:25

Opening Ceremony

Keynote Forum

09:25 -09:30 **Introduction**

09:30-09:55 **Glen M Borchert**

University of South Alabama, USA

09:55-10:20 **William McCombie**

Cold Spring Harbor Laboratory, USA

Networking & Refreshment Break 10:20-10:35

Track 2: RNA Editing and RNA Interference:Interplay,
Track 3: Next Generation Sequencing (NGS) Technologies
Track 4: Disease Interrogation and Applications of RNA-Seq

Session Introduction

Session Chair: Momiao Xiong, University of Texas Health Science Centre, USA

Session Co-Chair: Yongming Sang, Kansas State University, USA

10:35-10:55 **Title: Integrative image and RNA-Seq data analysis**

Momiao Xiong, University of Texas Health Science Centre, USA

10:55-11:15 **Title: Reduction of systematic bias in transcriptome data from human peripheral blood mononuclear cells for transportation and biobanking**

Atsushi Shimizu, Iwate Medical University, Japan

11:15-11:35 **Title: Genome-wide transcriptomes integrate animal intra- and inter-organism processes and evoke the ecoimmunological concept in animal health**

Yongming Sang, Kansas State University, USA

11:35-11:55 **Title: Identification by deep sequencing and profiling of conserved and novel hickory microRNAs involved in the graft process**

Bingsong Zheng, Zhejiang A & F University, P.R. China

11:55-12:15 **Title: RNA Sequencing in degraded tumor RNA samples: Two natural enemies finally reconciled**

Michael Bonin, IMG Laboratories GmbH, Germany

12:15-12:35 **Title: RNA Editing alters MicroRNA targeting in human breast cancer**

Glen M Borchert, University of South Alabama, USA

12:35-12:55 **Title: Genome-scale mapping promoter variation through exome sequencing**

Sang Ming WANG, University of Nebraska Medical Center, USA

Group Photo

Lunch Break 13:00-13:45

13:45-14:30 **Workshop on "RNA editing and Next Generation Sequencing"**
by Glen Borchert, University of South Alabama, USA

Track 1: Transcriptome analysis and Gene Expression-An Overview

Track 5: Exploring the complexity of the Transcriptome

Track 6: Refining expression analysis

Session Introduction

Session Chair: Andrey S Krasilnikov, Penn State University, USA

Session Co-Chair: Yan Li, The Fourth Military Medical University, China

- 14:30-14:50 **Title: Transcripts to cleave transcripts: Structure and function of RNA-based Ribonucleases P and MRP**
Andrey S. Krasilnikov, Penn State University, USA
- 14:50-15:10 **Title: The mitochondrial transcription factor and the interaction on Cell Aging**
Marcelo S. Ferro, University Sao Judas Tadeu, Brazil
- 15:10-15:30 **Title: NDRG2, a new estrogen-targeted gene**
Yan Li, The Fourth Military Medical University, China
- 15:30-15:50 **Title: Expression analysis of candidate genes present in the QTL regions for both Iron and Zinc in the F7 RILs of Madhukar x Swarna**
Sai Vishnu Priya, Centre for Cellular & Molecular Biology, India

Networking & Refreshment Break 15:50-16:05

Track 8: Functional Impact of Non-Coding RNA (ncRNA)

Track 9: Cancer Genomics: Integrative And Computational Approaches

Track 12: Transcriptional Regulation and Transcriptional Attenuation

Session Introduction

Session Chair: Harry Jarrett, University of Texas San Antonio, USA

Session Co-Chair: Ding-Gan Liu, Chinese Academy of Sciences, China

16:05-16:25 **Title: T3 transcriptomics**

Harry Jarrett, University of Texas, USA

16:25-16:45 **Title: Independent 3'untranslated region RNA: A novel non-coding regulator RNA**

Ding-Gan Liu, Chinese Academy of Sciences, China

16:45-17:05 **Title: Transcription-based chronobiology of receptor tyrosine kinases: relevance to cancer progression**

Yosef Yarden, Weizmann Institute of Science, Israel

17:05-17:25 **Title: Parathyroid hormone regulates Nhe3 gene core promoter: EGR1 and Sp3 might regulate the RNA polymerase II pause?**

Nancy Amaral Reboucas, University of Sao Paulo, Brazil

Panel Discussion

Day 2

July 28, 2015

Hall 1

08:30-09:00 Registrations

Track 7: Epigenetics

Track 11: Clinical Applications and Related Disorders

Session Introduction

Session Chair: Max H Garzon, The University of Memphis, USA

Session Co-Chair: Yingwei Mao, Pennsylvania State University, USA

09:00-09:20 **Title: A critical role of an exon junction complex (EJC) factor in regulation of embryonic neurodevelopment and implications in neurodevelopmental disorders**

Yingwei Mao, Pennsylvania State University, USA

09:20-09:40 **Title: Transcription interference networks examined by Single Molecule Long Read Sequencing Technology**

Zsolt Boldogkoi, University of Szeged, Hungary

09:40-10:00 **Title: A comparative transcriptome provides candidate genes for determination the cause of males infertility**

Krzysztof Wieczerzak, University of Rostock, Germany

10:00-10:45 **Workshop on "Impact of variation in regulatory region on gene expression"**
by San Ming Wang, University of Nebraska Medical Centre, USA

Networking & Refreshment Break 10:45-11:00

Track 14: Transcriptomics and Proteomics of Microorganisms

Session Introduction

Session Chair: Subha Bhassu, University of Malaya, Malaysia

Session Co-Chair: Ilana Kolodkin, Weizmann Institute of Science, Israel

11:00-11:20 **Title: Quantitative analysis of the mitochondrial proteome and phosphoproteome in the yeast Saccharomyces cerevisiae**
Claire Lemaire, National Center for Scientific Research, France

11:20-11:40 **Title: Maintaining motile cells inside the biofilm through cell-to-cell signaling, transcription regulation and evolution**
Ilana Kolodkin, Weizmann Institute of Science, Israel

11:40-12:00 **Title: Transcriptomic and proteomic profiling of infectious hypodermal and hematopoietic necrosis virus (IHHNV) in giant freshwater prawns**

Subha Bhassu, University of Malaya, Malaysia

12:00-12:20 **Title: Transcriptome analysis of nematode-trapping fungi during infection of plant-parasitic nematodes**

Dharmendra Kumar, Narendra Deva University of Agriculture & Technology, India

12:20-12:40 **Title: Characteristics of Pseudorabies virus transcripts analyzed by PacBio and Illumina sequencing techniques**
Dora Tombacz, University of Szeged, Hungary

Lunch Break 12:40-13:25

13:25-14:10 **Workshop on "On the way to disentangling the enigma of angiosperm egg activation"**
by Zsolt Pónya, Kaposvar University, Hungary

Track 10: Expression Profiling

Track 13: Genomics, Proteomics and Bioinformatics

Session Introduction

Session Chair: Sang Ming WANG, University of Nebraska Medical Center, USA

Session Co-Chair: Punit Kaur, Morehouse School of Medicine, USA

14:10-14:30 **Title: Genomic Positioning Systems for DNA and the Tree of Life**
Max H Garzon, The University of Memphis, USA

14:30-14:50 **Title: The long noncoding RNA MALAT1 promotes tumour-driven angiogenesis by up-regulating pro-angiogenic gene expression**

Tao Liu, University of New South Wales, Australia

14:50-15:10 **Title: Studying the expression pattern of auxin-associated genes in Carya cathayensis (Hickory) during the grafting process**

Bingsong Zheng, Zhejiang A & F University, P. R. China

15:10-15:30 **Title: Aggressive phenotype of triple-negative breast cancer stem cells (TNBC-CSC)**
Punit Kaur, Morehouse School of Medicine, USA

15:30-15:50 **Title: Locating Disease-associated Single Amino Acid Polymorphisms on Proteins**
Baris E. Suzek, Mugla Sitki Kocman University, Turkey

15:50-16:10 **Title: SLUG and SOX9 cooperatively regulate tumor initiating niche factors in breast cancer**
Babak Behnam, Iran University of Medical Sciences, Iran

Networking & Refreshment Break 16:10-16:25

Young Researchers Forum

16:25-16:45 **Title: Pathway analysis for female osteoporosis**
Yu Zhou, Tulane University, USA

16:45-17:05 **Title: Characterization of 5-methylcytosine patterns in Pseudorabies virus**
Peter Olah, University of Szeged, Hungary

17:05-17:25 **Title: De novo transcriptome assembly and identification of cold and freeze responsive genes in sea buckthorn**
Saurabh Chaudhary, Guru Gobind Singh Indraprastha University, India

Panel Discussion

17:35-18:35

POSTER COMPETITION

Day 3 July 29, 2015

Hall 1

Track 15: Transcriptomics and Proteomics of Plants

Track 16: Transcriptome technologies market

Track 17: New Horizons to the Transcriptome

Session Introduction

Session Chair: Patrick Xuechun Zhao, Samuel Roberts Noble Foundation, USA

Session Co-Chair: Zsolt Pónya, Kaposvar University, Hungary

09:30-09:50 **Title: The LegumelP (2015 release) - a web-based comparative genomics and gene expression atlas platform to study gene function and genome evolution in legumes**

Patrick Xuechun Zhao, Samuel Roberts Noble Foundation, USA

09:50-10:10 **Title: Comparative transcriptome analysis between mature pollen and stigma of Brassicaceae and Triticeae crop species**
Vishwanath Sollapura, Agriculture and Agri-Food, Canada

10:10-10:30 **Title: How gamete micromanipulation and cell engineering can contribute to establishing a time scale for performing transcriptomics studies in wheat (Triticum aestivum L.) during fertilisation and proembryo formation**

Zsolt Pónya, Kaposvár University, Hungary

Networking & Refreshment Break 10:30-10:45

10:45-11:05 **Title: Transcriptome and small RNA gene expression changes in synthetic allohexaploids of Brassica**
Jianbo Wang, Wuhan University, China

11:05-11:25 **Title: Molecular characterization of the unintended and unexpected effects of genetic engineering on the endogenous Solanum tuberosum genome**

Lerato Bame Tsalaemang Matsaunyane, Agricultural Research Council-Vegetable and Ornamental Plant Institute, South Africa

- 11:25-11:45 **Title: Differential regulation of antioxidative gene expressions in response to salt stress in rice**
Ozge Celik, Istanbul Kultur University, Turkey
- 11:45-12:05 **Title: Isolation and functional characterization of cold stress inducible promoter CAT01 from Tomato**
Monika Bansal, Lovely Professional University, India

Panel Discussion

Lunch Break 12:15-13:00

Closing Ceremony

Poster Presentations

- ICT-001 **Title: Paving the way for transcriptomics analysis in the reproduction processes of hexaploid wheat (*Triticum aestivum* L.)**
A Aniko Dobosy, Kaposvar University, Hungary
- ICT-002 **Title: Genes that respond to H₂O₂ are also evoked under light in *Arabidopsis***
Dianjing Guo, Chinese University of Hong Kong
- ICT-003 **Title: Investigation on glandular trichome transcriptome of *Artemisia annua* L**
Cao Yong, Harbin Institute of Technology, China
- ICT-004 **Title: Characteristics of Pseudorabies virus transcripts analyzed by PacBio and Illumina sequencing techniques**
Dora Tombacz, University of Szeged, Hungary
- ICT-005 **Title: Generation of a CTO gene mutant Pseudorabies virus**
Istvan Prazsak, University of Szeged, Hungary
- ICT-006 **The path to understanding salt tolerance in plants: Transcriptome assembly, profiling and analysis of the halophyte, *Suaeda fruticosa***
Joann Diray-Arce, Brigham Young University, USA
- ICT-007 **Title: RNA binding antibodies as tools for probing transcriptomes**
Joseph A Piccirilli, The University of Chicago, USA
- ICT-008 **Title: Transcriptionally regulated gma-miR166a and its target GmPHB in two different soybean genotypes under various stresses**
Nang Myint Phyu Sin Htwe, Chinese Academy of Agricultural Sciences, China
- ICT-009 **Title: Identification of novel splicing form of Decapentaplegic (Dpp) gene in *Bombyx mandarina***
Seung-Won Park, Catholic University of Daegu, South Korea
- ICT-010 **Title: Assessment and diagnostic relevance of novel serum biomarkers for early decision of ST-elevation myocardial infarction**
Suk Woo Nam, The Catholic University of Korea, Republic of Korea
- ICT-011 **Title: Transcriptome analysis of *Arabidopsis* light and brassinosteroid mutants**
Sunghwa Choe, Advanced Institutes of Convergence Technology, Korea
- ICT-012 **Title: A text-mining based comparison of RNAi screening assays to NIH chemical probes**
Tugba Onal-Suzek, Mugla University, Turkey
- ICT-013 **Title: Coupled processing of snoRNA 5' and 3' termini in *Saccharomyces cerevisiae***
Zaneta Matuszek, University of Warsaw, Poland
- ICT-014 **Title: Analysis of long non coding transcripts in wild type and knock-out mutant Pseudorabies virus strains**
Zsolt Csabai, University of Szeged, Hungary
- ICT-015 **Title: Does sequence specificity of the 5' end of mRNA affect ribosome loading?**
Anjali Pai, University College Cork, Ireland

Bookmark your dates

2nd International Conference on **Transcriptomics**

August 15-17, 2016 Portland, Oregon USA