25th July 2013 – Thursday (Day 1)

07.00 – 8.20 Registration

Session chair: Andrea Barta

8:20 – 08:30 Introduction / Opening remarks

8:30 – 9:00 Sarah Assmann
Hidden Codes in RNA: In Vivo Genome-wide Profiling of RNA Secondary Structure

9:00 – 09:20 Craig Simpson
Conservation of alternative exons in plants

9:20 – 9:40 Marcelo Yanovsky
PICln, an SnRNP Assembly Related Protein, Plays a Role in the Regulation of Alternative Splicing, Developmental and Stress Responses in Arabidopsis

9:40 – 10:00 Vasiliki Zacharaki
FPA, a Regulator of Alternative Polyadenylation, is Closely Associated with Cleavage and Polyadenylation Factors in vivo

10:00 – 10:20 Ann Loraine
RNA-Seq of Arabidopsis pollen uncovers novel transcription and alternative splicing

10.20 – 10.40 Coffee break

Session chair: Pam Green

10:40 – 11:10 Cecile Bousquet-Antonelli
XRN4 and LARP1 are required in a heat-mediated mRNA decay pathway essential for plant acclimation to heat stress and survival

11:10 – 11:30 Vinay Nagarajan
Transcriptomic analysis indicates multiple decay pathways for XRN4-affected transcripts in Arabidopsis

11:30 – 11:50 Dominique Gagliardi
Uridylation Protects Deadenylated mRNAs from 3' Trimming
11:50 – 12:10 **Yukako Chiba**
Involvement of Arabidopsis Deadenylases, AtCCR4a and AtCCR4b in Sugar Metabolism

12:10 – 14:00 Lunch and Even number posters

**Session Chair:** Julia Bailey-Serres

14:00 – 14:30 **M Crespi**
Modulation of alternative splicing by long non-coding RNAs

14:30 – 14:50 **Yuda Fang**
Complementation of Hyponastic Leaves1 by Double-strand RNA Binding Domains of Dicer-like 1 in Nuclear Dicing Bodies

14:50 – 15:10 **Srimathi Bogamuwa**
P-body and Stress Granule Localized Tandem CCCH Zinc Finger Proteins are Involved in ABA and GA Mediated Plant Growth and Stress Responses

15:10 – 15:30 **Peter Moffett**
RNA silencing and P-body components in compatible and incompatible interactions between plants and viruses.

15:30 – 15:50 **Pablo Manavella**
Exploring the miRNA biogenesis regulation by luciferase-aided fast-forward genetics.

15:50 – 16:10 Coffee break

**Session Chair:** Martin Crespi

16:10 – 16:40 **Motoaki Seki**
Novel Antisense RNA Regulation Functions in Plant Abiotic Stress Responses

16:40 – 17:00 **Jianhua Zhu**
A DEAD Box RNA Helicase Is Critical for Pre-mRNA Splicing, Cold-Responsive Gene Regulation, and Cold Tolerance in Arabidopsis thaliana

17:00 – 17:20 **Mehdi Jabnoune**
A Rice Cis-Natural Antisense RNA Enhances PHO1;2 Protein Level via Translational Control and Contributes to Phosphate Homeostasis and Plant Fitness

17:20 – 17:40 **Nihal Dharmasiri**
Involvement of Post-transcriptional Regulation of *IBR5* in Plant Auxin Response.

18:00 – 22:30 Dinner - Poster session (18:00 -19:30 odd number posters; 19:30 – 21:00 even number posters)
Day 2: 26th July 2013 – Friday

Session Chair: Richard Jorgensen

8.30 – 09:00 **Andrea Barta**
Modulation of PPI-ase activity by RNA targets of AtCYP59 implies a novel layer for transcription regulation

9:00 – 09:20 **Chi Zhang**
In vitro identification of RNA targets of Arabidopsis Puf RNA-binding proteins

9:20 – 9:40 **Li Tian**
Identification and Characterization of a Novel RNA-binding Protein Involved in Glutelin mRNA Processing and Localization

9:40 – 10:00 **Xiuren Zhang**
Molecular mechanism for bi-directional processing of primary miRNAs with branched terminal loops by Dicer-like 1 in Arabidopsis

10:00 – 10:20 Coffee break

Session Chair: Karen Browning

10:20 – 10:50 **Julia Bailey-Serres**
High resolution of translational dynamics through genome-wide profiling of ribosome footprints in Arabidopsis

10:50 – 11:10 **Shengben Li**
microRNAs inhibit the translation of target mRNAs on the endoplasmic reticulum in Arabidopsis

11:10 – 11:30 **Allen Miller**
Plant Viruses Reveal New Ways by which mRNAs Gain Access to the Translational Machinery

11:30 – 11:50 **Joel Stafstrom**
Genetic Analysis of the DRG-DFRP-SLH Pathway in Arabidopsis: Possible Involvement in Translational Initiation

11:50 – 12.10 **Mar Castellano**
Genome-Wide Translatome Analysis of Arabidopsis Seedlings Subjected to Heat Stress Identifies Regulatory Networks as Targets of Translational Control.

12:10 – 14:00 Lunch and Poster session – odd numbers

Session Chair: Motoaki Seki
14:00 – 14:30 Anireddy Reddy
Global analysis of gene expression and alternative splicing in a splicing regulator mutant: Role of SR45 in thermotolerance

14:30 – 14:50 Hou-Sung Jung
Correct RNA Processing is Critical for Plants to Respond to Excess Light

14:50 – 15:10 Lisa Hartmann
Changing Alternative Splicing Patterns during Early Photomorphogenesis in Arabidopsis thaliana

15:10 – 15:30 Shih-Long Tu
Genome-wide Analysis of Light-regulated Alternative Splicing in Plants

15:30 – 15:50 Coffee break

Session Chair: Sarah Assmann

15:50 – 16:20 Richard Jorgensen
Conserved Peptide Upstream Open Reading Frames (CPuORFs) are Generally Associated with Regulatory Genes

16:20 – 16:40 Sergei Filichkin
Environmental Stress and Pathogen Challenge Regulate Unproductive Alternative Splicing of the Plant Circadian Clock Genes

16:40 – 17:00 Raquel Carvalho
Stress responses mediated by the plant-specific SR45 and SCL30a splicing factors are ABA-dependent

17:00 – 17:20 Michael Hamilton
Detection of Putative Splicing Regulatory Elements from the Analysis of Discriminative Motifs Across Plants

17:20 – 17:30 Concluding Remarks