

Post-transcriptional Gene Regulation in Plants
July 25-26, 2013
Rhode Island Convention Center, Providence, RI

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 Jabnourne](#)
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