



COLLEGE OF NATURAL SCIENCES  
THE UNIVERSITY OF TEXAS AT AUSTIN

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**The 5<sup>th</sup> Symposium on Post-Transcriptional Regulation of Plant Gene Expression  
(PTRoPGE)**

**June 8-12, 2005**

**The University of Texas at Austin**

**FINAL PROGRESS REPORT**

**DOE**

**DE-FG02-05ER15678**

The 5<sup>th</sup> Symposium on Post-Transcriptional Regulation of Plant Gene Expression (PTRoPGE) was held June 8-12, 2005 at the University of Texas at Austin. The total number of participants was 114 of which 60 were from the US and 44 were from outside of the US representing 15 countries (Australia, Austria, Belgium, Canada, France, Germany, Hungary, Israel, Italy, Japan, Mexico, New Zealand, Poland, The Netherlands, United Kingdom). A total of 27 speakers were invited to participate. Eleven of these speakers were from outside the US and the invited speakers ranged from assistant professors to established investigators.

Registration was open to all interested scientists including undergraduate and graduate students and post-doctoral researchers. Additional speakers were chosen by the session chairs from submitted abstracts and included graduate students, post-doctoral students and established investigators. Any participant was able to present a poster at the meeting (2 times allotted for posters/discussion). Several scientists from industry also participated in the meeting. There was ample time allotted during meals and breaks to stimulate discussion among the participants.

Each participant received an abstract book for all the talks and posters (see attached). The formal schedule and list of participants is included in the abstract book. The two keynote speakers, Ron Breaker (Yale University) and Jim Carrington (Oregon State University), delivered excellent talks on RNA switches (Breaker) and RNA silencing (Breaker) that were well attended by local scientists and students in addition to the meeting participants.

Thank you very much for your support of this meeting. The response to the meeting was very positive, many participants indicated it was an outstanding meeting. Plans are underway to continue PTRoPGE for 2007 in France, and in 2009 in the US, probably at UC-Riverside where it originated in 1997. I hope that we can look forward to your continued support in the future.

Dr. Karen S. Browning  
2005 Conference Chair

**June 8 -12, 2005**  
**Avaya Auditorium (ACES)**  
**The University of Texas at Austin**

**5<sup>th</sup> Biennial Meeting on**  
**Post-Transcriptional Regulation of Plant Gene Expression Program**

**Wednesday, June 8**

5-6 PM                      Check in at ACES Avaya Auditorium Foyer  
6-7:30                      Welcome BBQ dinner ACES Foyer

**Session 1**

7:30 – 7:45                      **Welcome, The Organizers**

8:00 – ?                      **POSTER SESSION**, Grand Hall, Welch Hall (across street from ACES)

**Thursday, June 9**

**Session 2 – Splicing, Processing and Modification of mRNAs: Steve Mayfield, Moderator**

8:30 – 9:00 AM                      Continental Breakfast, ACES Foyer  
9:00 AM                      **Andrea Barta**, Universität Wien, (20 min)  
*The plant spliceosome: SR proteins and their interactions within a dynamic RNP complex*  
**John W. S. Brown**, Scottish Crop Research Institute, (20 min)  
*Novel functions for the nucleolus from proteomic and RNomic analysis of Arabidopsis nucleoli*  
**Alan B. Rose**, University of California-Davis (10 min)  
*Using the magnitude of enhancement to investigate mechanisms through which introns affect gene expression*  
**Roger P. Hellens**, Horticultural Research, New Zealand (10 min)  
*Exploring the value of introns that reside within non-coding sequence*

10:20 – 10:35 AM                      **Break**

10:40 AM                      **Davis W. Cheng**, Wayne State University (10 min)  
*Alternative Pre-mRNA Splicing and Editing of Oat Receptor Kinase Genes in Allelic Differentiated Response to Rust Pathogen Infection*  
**Manuel Echeverra**, Université de Perpignan (10 min)  
*Plant dicistronic tRNA-snoRNA genes: a new mode of expression and processing of the small nucleolar RNAs in eukaryotes*  
**Arthur Hunt**, University of Kentucky, Lexington (10 min)  
*An Arabidopsis Fip1 Homologue Interacts With RNA, Other Polyadenylation Factor Subunits and May be Involved in Transcription and Post-translational Regulation in Plants*

**Ian Small**, Université d'Evry, (20 min)  
*Pentatricopeptide repeat (PPR) proteins as molecular adaptors for RNA processing and post-transcriptional regulation*

12 noon                      **Lunch**, ACES foyer

1:30 – 2:30 PM            ***Benjamin Clayton Regents Lectureship I***  
**Jim Carrington**, Oregon State University, Corvallis  
*Small RNA Pathways in Plants*

2:30 – 2:50 PM            **Break**

**Session 3 – Silencing and Small RNAs I: Tom Hohn, Moderator**

2:55 PM                      **John L. Bowman**, University of California – Davis (20 min)  
*Radial patterning of Arabidopsis shoots by Class III HD-ZIP and KANADI genes*  
**Yijun Qi**, Cold Spring Harbor Laboratory (10 min)  
*Biochemical Specialization within Arabidopsis RNA Silencing Pathways*  
**Allison C. Mallory**, Whitehead Institute for Biomedical Research, (20 min)  
*MicroRNA Regulation of Plant Development*  
**Mario Arteaga-Vazquez**, CINVESTAV-IPN, Irapuato (10 min)  
*MicroRNA-mediated regulation of RNA binding proteins is conserved in plants and animals.*

4:15 – 4:35 PM            **Break**

4:40 PM                      **Olivier Voinnet**, Institut de Biologie Moléculaire des Plantes du CNRS (20 min)  
***EMBO Young Scientist Lectureship***  
*Induction and suppression of RNA silencing in plants and animals: ways to understand and ways to exploit it*  
**Frédéric F. Souret**, University of Delaware, Newark (10 min)  
*AtXRN4, a selective 5' to 3' exoribonuclease, is involved in miRNA-mediated mRNA degradation*  
**Julio Saez-Vasquez**, Université de Perpignan (10 min)  
*Nucleo-cytoplasmic localization of an RNaseIII-like protein in Arabidopsis: role in synthesis of snoRNA and rRNA*  
**Marja Timmermans**, Cold Spring Harbor Laboratory (20 min)  
*miR166 is a Developmental Signal that Specifies Lateral Organ Polarity*

6:00 – 7:30 PM            **Dinner, ACES Foyer**

**Session 4 – Silencing and Small RNAs II: Bonnie Bartel, Moderator**

7:30 PM                      **Xuemei Chen**, Rutgers University, (20 min)  
*Methylation of microRNAs and small interfering RNAs*  
**Nina Fedoroff**, Penn State University (20 min)  
*Characterization of the HYL1 dsRNA-binding protein*

**Patrice Dunoyer**, Centre National de la Recherche Scientifique (10 min)  
*Induction, suppression and requirement for distinct RNA silencing pathways during virulent Agrobacterium infection*  
**Jeff Velton**, USDA-ARS, Lubbock (10 min)  
*"Crosstalk" of PTGS within Agrobacteria-infused leaves is independent of targeted sequence*

## Friday, June 10

### Session 5 – Silencing and Small RNAs III: Tony Michael, Moderator

8:30 – 9:00 AM

**Continental Breakfast, ACES Foyer**

9:00 AM

**David Brown**, Ambion, Austin, TX (20 min)

*Links between miRNA and disease*

**Shou-wei Ding**, University of California – Riverside (20 min)

*Genetic and biochemical analyses of viral suppression of RNA silencing*

**Jozsef Burgyan**, Agricultural Biotechnology Center, (10 min)

*Molecular framework of virus induced RNA silencing and its suppression*

**Feng Qu**, University of Nebraska – Lincoln (10 min)

*Temperature-dependent antiviral roles of an SDE1/SGS2/RDR6 homolog in both differentiated plant tissues and shoot apices*

10:20 – 10:43

**Break**

10:40

**Thomas Hohn**, University of Basel, (20 min)

*Silencing Suppression of RNA silencing by geminivirus nuclear protein AC2 correlates with transcriptional activation of host genes*

**Vicki Vance**, University of South Carolina (20 min)

*HC-Pro suppression of RNA silencing: Toward mechanism*

**Christopher Cazzonelli**, USDA-ARS, Lubbock (10 min)

*The effects of viral suppressor proteins and dsRNA on PTGS of different reporter genes in Nicotiana species*

**Jintai Huang**, Monsanto Company (10 min)

*Optimizing of essential amino acid levels in soybean for animal feed*

12:00 – 1:30

**Lunch, ACES Foyer**

1:30 – 2:30

**Benjamin Clayton Regents Lectureship I**

**Ron Breaker**, Yale University

*Genetic Control by Riboswitches and Ribozymes*

2:30-2:50

**Break**

### Session 6 – Translational Control I: Alan Miller, Moderator

2:55 PM

**Daniel R. Gallie**, University of California – Riverside (20 min)

*Investigation of the Interactions Between Components of the Translation*

*Initiation Surveillance Complex Involved in Promoting Efficient Protein Synthesis*

**John Doonan**, John Innes Centre, (10 min)

*Cell growth and the 5' RNA cap-complex: cyclin-dependent protein kinases and growth control*

**Sjef Smeekens**, Utrecht University (20 min)

*Sucrose-induced repression of translation of selected transcription factor mRNAs requires a highly conserved peptide encoded by the upstream open reading frame*

4:00 – 4:20

**Break**

**Anthony J. Michael**, Institute of Food Research (20 min)

*Distinct sensor and repressor components mediate polyamine-responsive translational regulation*

**Daniel A. Chamovitz**, Tel Aviv University (20 min)

*Precise regulation of the dosage of eIF3e is a prerequisite for normal development in Arabidopsis*

**Margaret J. Hollingsworth**, SUNY-Buffalo (20 min)

*Post-transcriptional regulation of chloroplast gene expression*

6:00-7:30

**Dinner, ACES Foyer**

#### **Session 7 – Translational Control II: Daniel R. Gallie, Moderator**

7:30

**Marie E. Petracek**, Monsanto (20 min)

*Small changes in 5' UTR: large changes in polyribosome loading*

**Estella DeJimenez**, Universidad Nacional Autonoma de Mexico (10 min)

*A Novel Signal Transduction Pathway that Exerts Translational Control and Induces Cell Growth and Proliferation in Maize Tissues.*

**Marina E. Turlakis**, York University (10 min)

*Putative chaperone inhibits activity of cytotoxic pokeweed antiviral protein*

**Nilgun E. Tumer**, Rutgers University (10 min)

*Expression of a truncated form of ribosomal protein L3 confers resistance to pokeweed antiviral protein and the Fusarium mycotoxin deoxynivalenol*

8:45 – ?

**POSTER/DISCUSSION SESSION**, Grand Hall, Welch Hall (across street from ACES)

### **Saturday, June 11**

#### **Session 8 – RNA Stability: John Brown, Moderator**

8:30 – 9:00

Continental Breakfast, ACES Foyer

9:00 AM

**Satoshi Naito**, Hokkaido University (20 min)

*Nascent Peptide-Mediated Degradation of Arabidopsis CGS1 mRNA, Studies Using an in Vitro System*

**Pamela J. Green**, University of Delaware, Newark (20 min)

*Elucidating the Small RNA Component of the Transcriptome with Massively Parallel Signature Sequencing*

**Markus Fauth**, Johann Wolfgang Goethe Universität (10 min)

*RNA Granules Are an Integral Part of the Plant Stress Response*

**Yukako Chiba**, University of Delaware, Newark (10 min)  
*AtPARN and AtCCR4: Multiple Poly(A)-ribonucleases in Arabidopsis*

10:15-10:35

**Break**

10:40

**Elizabeth Vierling**, University of Arizona, Flagstaff (20 min)

*Chaperones resurrecting inactive proteins after stress*

**Christian Weber**, Johann Wolfgang Goethe Universität, Frankfurt (20 min)

*Identification and characterization of plant P-bodies*

**Etienne Delannoy**, CEA-CNRS-Université Aix-Marseille (10 min)

*Translational regulation under cadmium stress in Arabidopsis thaliana cells*

12:00 – 1:30 PM

**Lunch, ACES Foyer**

**Session 9 – Genomics and Proteomics: Christophe Robaglia, Moderator**

1:30 PM

**Julia Bailey-Serres**, University of California – Riverside (20 min)

*Arabidopsis cytosolic ribosomes: From genomics, to proteomics, to ribonomics*

**Steve Mayfield**, Scripps Research Institute (20 min)

*Regulation of translation in the chloroplast: interactions of RNA elements, RNA binding proteins, and the plastid ribosome*

**Lloyd W. Sumner**, The Samuel Roberts Noble Foundations, Ardmore (20 min)

*Comparative Proteomics of Yeast Elicited Medicago truncatula Suspension Cell Cultures*

3:50-5:00

**Tower Tour 1**

4:50-6:00

**Tower Tour 2**

5:50-7:00

**Tower Tour 3**

7:30 – 9:30

**Banquet—UT Club, Eastside of Stadium—Level 5**

**Sunday, June 12**

**Session 10 – Viral Mechanisms: Marie Petracek, Moderator**

8:30 – 9:00 AM

Continental Breakfast, ACES Foyer

9:00 AM

**Andy Maule**, John Innes Centre (20 min)

*Virus induction of HSP70 reflects a general response to protein accumulation in the plant cytosol*

**Allen Miller**, Iowa State University (20 min)

*The allosteric RNA genome of barley yellow dwarf virus*

**Arianne Tremblay**, INRS-Institut Armand Frappier (10 min)

*Differential Gene Expression Elicited by a Turnip Mosaic Virus Mutant Producing Attenuated Symptoms on Arabidopsis thaliana: A Microarray Hybridization Study*

**Kay Scheets**, Oklahoma State University (10 min)

*Analysis of the 3' cap-independent translational enhancer (3'CITE) of Maize necrotic streak virus (MNeSV) in wheat germ extract (WGE)*

10:20 – 10:40

**Break**

10:45AM

**Christophe Robaglia**, CEA-CNRS-Université Aix-Marseille (20 min)

*eIF4E gene family members as resistance/susceptibility determinants toward potyviruses in cultivated and model plant species*

**Theo W. Dreher**, Oregon State University (20 min)

*Coupled initiation from two closely spaced AUGs in Turnip yellow mosaic virus RNA and regulation by translation enhancers*

**Ulku Baykel**, Rutgers University (10 min)

*Pokeweed antiviral protein utilizes the endoplasmic reticulum-associated protein degradation pathway to enter the cytosol*

**CONCLUDING REMARKS**

12:00

Box Lunches provided; Discussion of 2007 meeting (Robaglia, Small) and 2009 meeting (Bailey-Serres, Gallie)

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