



# IRSF

INTERNATIONAL  
RETT SYNDROME  
FOUNDATION

## ***2008 Clinical Outcomes Mini-Symposium***

**Sunday June 22 – (evening) opening and dinner**

**Monday June 23 (8:00 – 5:00) - Clinical Outcomes Mini-symposium**

## ***9<sup>th</sup> Annual RETT SYNDROME RESEARCH SYMPOSIUM***

### **MONDAY JUNE 23**

- 5:00 Welcome Reception
- 6:00 Dinner and Welcomes
- 7:45 **Walter Kaufmann & Alan Percy** - Highlights of Clinical Outcomes Min-symposium

### **TUESDAY June 24**

*7:00 am – Breakfast – Burnham Dining Room*

- 8:00 **Tony Horton, Chief Scientific Officer, IRSF** - Welcome and Introduction
- 8:05 **Jeff Neul** - Removing MeCP2 from Specific Neuronal Populations Results in Distinct Phenotypic Abnormalities
- 8:30 **Hsiao-Tuan Chao** – The Loss of MeCP2 in Forebrain GABAergic Neurons Results in Impaired Motor Coordination
- 8:55 **Megumi Adachi** - Behavioral Abnormalities in Rett Syndrome Model Mice Are Dissociable by Localized Deletion of MeCP2 in Amygdala
- 9:20– **Greg Carlson** Behavioral and EEG Monitoring Demonstrate Epilepsy in a Female MeCP2 +/- Mouse Model of Rett Syndrome
- 9:45 **Lucas Pozzo-Miller** - MeCP2 Function in the Hippocampus

**10:10 Break**

## **Tuesday, continued**

10:25 **Jeffrey Macklis** - Molecular Development and Specification of Cortical Projection Neuron Circuitry: Gene Dose, Timing, and Fine Transcriptional Regulation Matter A Lot

10:50 **Zilong Qiu** - Precise Control of MeCP2 Expression by Neuronal Activity

11:15 **Amir Gamliel** - Posttranslational Modification of MeCP2 by Sumoylation

11:40 **Maria Chahrour** -Mecp2 Activates and Represses Transcription

12:05 **DISCUSSION** (Jeffrey Macklis – Discussion Leader)

### **12:35– 1:35 Lunch**

1:35 **Praveen Taneja** - Pathophysiology of Locus Coeruleus in Rett Syndrome

2:00 **Xiaoli Zhang** - Defects of Pontine Norepinephrine-Biosynthetic Enzymes in *Mecp2* Knockout Mice

2:25 **Mathias Dutschmann** – Disturbed Ponto-Medullary Synaptic Interactions Related to Breathing Disorders in Rett Syndrome

2:50 **John Bissonnette** - Augmenting  $\gamma$ -aminobutyric acid (GABA) Inhibition Corrects Respiratory Disorders in a Mouse Model of Rett Syndrome

3:15 **David Katz** – Neural and Neuroendocrine Substrates of Autonomic Dysfunction in Mouse Models of Rett Syndrome

3:40 **DISCUSSION** (David Katz – Discussion Leader)

4:30 **POSTER SESSION**

7:00 **DINNER**

## **WEDNESDAY JUNE 25**

*7:30 am –Breakfast– Burnham Dining Room*

8:30 **Dag Yasui** – Genomic Analysis of MeCP2 Binding Sites

8:55 **Yi Sun** – New Insight on MeCP2 Function from Genome-Wide MeCP2 Occupancy Analyses

9:20 **Noriyuki Kishi** - *In Vivo* Investigation of MeCP2 Target Genes Centrally Involved in the Pathogenesis of Rett Syndrome

9:45 **James Eubanks** -Differential Influence of Methyl DNA-Binding Factors MBD2 and MeCP2 on Neuronal Development and Function.

10:10 Coffee

10:25 **Xinyu Zhao** - MeCP2-Mediated Crosstalk between MicroRNAs and Epigenetic Regulation in neural stem cell proliferation and differentiation

10:50 **Steven J. Gray** - Directed Evolution of Adeno-Associated Virus to Produce an Enhanced Gene Therapy Vector for the Treatment of Rett Syndrome.

11:15 **James Ellis** - MECP2 Isoform-Specific Vectors with Restricted Expression for Rett Syndrome Gene Therapy

11:40 **DISCUSSION** (Carolyn Schanen – Discussion Leader)

12:30 Lunch and Departure