

11TH ANNUAL IRSF SCIENTIFIC SYMPOSIUM

SUNDAY, JUNE 27, 2010	
5:00 – 6:00pm	WELCOME RECEPTION – SIDE BALLROOM FOYER
6:00 – 7:25pm	DINNER & OPENING REMARKS – Antony Horton, PhD, Chief Scientific Officer, International Rett Syndrome Foundation – Ballroom C&D
7:25 – 7:30pm	Meeting & Session Overview – David M. Katz, PhD, Case Western School of Medicine & Yi Eve Sun, PhD, University of California – Los Angeles
I. KEYNOTE ADDRESS: TOWARDS UNDERSTANDING THE PATHOGENESIS OF RETT SYNDROME Keynote Speaker: Huda Y. Zoghbi, MD, Baylor College of Medicine – Amphitheater	
7:30 – 8:30pm	
8:30 – 8:40pm	Close Sunday Program – David M. Katz, PhD, Case Western School of Medicine & Yi Eve Sun, PhD, University of California – Los Angeles
8:40 – 9:40pm	Cocktail Reception – Side Ballroom Foyer

MONDAY, JUNE 28, 2010	
8:00 – 9:00am	BREAKFAST – RIVERSIDE HEARTH
I. REGULATION AND FUNCTION OF MeCP2 Chair: Huda Y. Zoghbi, MD, Baylor College of Medicine – Amphitheater	
9:00 – 12:30pm	
9:00 – 9:05pm	Session Overview – Huda Y. Zoghbi, MD, Baylor College of Medicine
9:05 – 9:30am	Genomic Analysis of MeCP2–Dependent Regulation of MicroRNAs in a Mouse Model of Rett syndrome Yi Sun, PhD, University of California – Los Angeles
9:30 – 9:55am	Activity–dependent Phosphorylation of MeCP2 Regulates Synapse Development and Behavior Sonia Cohen, Harvard University
9:55 – 10:20am	MeCP2 and ATRX Interaction and Function in the Mouse Brain Nathalie Bérubé, University of Ontario
10:20 – 10:35am	MORNING BREAK – FAULKNER CORRIDOR KIOSK
10:35 – 11:00am	Long–Range Chromatin Interactions and Transcription Regulation Yijun Ruan, PhD, Genome Institute of Singapore
11:00 – 11:25am	MeCP2 Programs Persistent Adverse Effects of Early–Life Stress Dietmar Spengler, MD, Max-Planck Institute of Psychiatry
11:25 – 11:45am	Cell Cloning–Based Transcriptome Analysis in Rett Patients Juliette Nectoux, PhD, Université Paris Descartes, Institut Cochin, INSERM
11:45am – 12:05pm	Impact of Lack of MeCP2 Studied Using Neurons Generated from Embryonic Stem Cells Morteza Yazdani, University of Basel
12:05 – 12:30pm	Discussion: Huda Y. Zoghbi, MD, Baylor College of Medicine & Yi Eve Sun, PhD, University of California – Los Angeles
12:30 – 1:30pm	LUNCH – RIVERSIDE HEARTH

II. PATHOPHYSIOLOGY OF RETT SYNDROME

Chair: James Eubanks, PhD, University of Toronto – [Amphitheater](#)

1:30 – 3:35pm

1:30 – 1:35pm	Session Overview – James Eubanks, PhD, University of Toronto
1:35 – 2:00pm	Modeling Mecp2 Mutations and Potential Therapies Using the Olfactory System Alicia Degano, John's Hopkins University, School of Medicine
2:00 – 2:25pm	Role of MEF2 in Regulating Synapse Numbers and Function and Implications for Learning and Memory Lisa Monteggia, PhD, University of Texas Southwestern Medical Center – Dallas
2:25 – 2:50pm	Aspects of Synaptic and Structural Plasticity in a Mouse Model of Rett Syndrome Stuart Cobb, DPhil, University of Glasgow
2:50 – 3:15pm	Optogenetic fMRI: Genetically Targeted Brain Circuit Mapping Jin-Hyung Lee, PhD, University of California – Los Angeles
3:15 – 3:35pm	Discussion – Chair: James Eubanks, PhD, University of Toronto
3:35 – 3:50pm	AFTERNOON BREAK – FAULKNER CORRIDOR KIOSK

III. SHARED NEUROBIOLOGY OF RETT SYNDROME AND OTHER AUTISM SPECTRUM DISORDERS

Chair: Emanuel DiCicco-Bloom, MD, University of Medicine & Dentistry of New Jersey, Robert Wood Johnson Medical School
– [Amphitheater](#)

3:50 – 5:55pm

3:50 – 3:55pm	Session Overview – Emanuel DiCicco-Bloom, MD, University of Medicine & Dentistry of New Jersey, Robert Wood Johnson Medical School
3:55 – 4:20pm	Mouse Models as Translational Tools to Discover Treatments for Autism Spectrum Disorders: Focus on Rapamycin Luis F. Parada, PhD, University of Texas Southwestern Medical Center – Dallas
4:20 – 4:45pm	Behavioral Phenotyping Assays to Evaluate Treatments for Mouse Models of Autism Spectrum Disorders Jacqueline N. Crawley, PhD, National Institute of Mental Health
4:45 – 5:10pm	Shared Neurobiology of Rett Syndrome and Autism: Insights from Imaging Genetics Ashley A. Van Zeeland, PhD, Scripps Translational Science Institute, La Jolla
5:10 – 5:35pm	Oxytocin, Vasopressin and Social Bonding: Implications for Autism Spectrum Disorders Larry J. Young, PhD, Emory University
5:35 – 5:55pm	Discussion – Chair: Emanuel DiCicco-Bloom, MD, University of Medicine & Dentistry of New Jersey, Robert Wood Johnson Medical School
5:55pm	Close Monday Program
6:00pm – 7:30pm	Banquet Dinner & Family Address – Chris Kolendrianos – Lansdowne Ballroom C&D
7:30pm –	Cocktail Reception – Faulkner Corridor & Poster Session – Faulkner Corridor & Conant Room

TUESDAY, JUNE 29, 2010

7:30 – 8:30am	BREAKFAST – RIVERSIDE HEARTH
IV. THERAPEUTIC STRATEGIES FOR THE TREATMENT OF RETT SYNDROME (MOLECULES & MODELS) Co-Chairs: John McCall, PhD, PharMac, LLC & Alan P. Kozikowski, PhD, University of Illinois – Chicago – Amphitheater 8:30am – 12:30pm	
8:30 – 8:35am	Session Overview – John McCall, PhD, PharMac, LLC & Alan P. Kozikowski, PhD, University of Illinois – Chicago
8:35 – 9:00am	IRSF Translational Research Workshop on Rett syndrome: Overview and Outcome Measures John McCall, PhD, PharMac, LLC
9:00 – 9:25am	Drug Discovery, Epigenetics and RTT—Do HDAC6 Inhibitors Make Sense? Alan P. Kozikowski, PhD, University of Illinois – Chicago
9:25 – 10:00am	BDNF–Targeted Therapies for RTT David M. Katz, PhD, Case Western School of Medicine & Frank Longo, MD, PhD, Stanford University
10:00 – 10:25am	Discussion – Co-Chairs: John McCall, PhD, PharMac, LLC & Alan P. Kozikowski, PhD, University of Illinois – Chicago
10:25 – 10:40	MORNING BREAK – FAULKNER CORRIDOR KIOSK
10:40 – 11:05am	Patient and Mouse iPS Cells to Study Rett syndrome Aaron Cheung, HBSc, University of Toronto
11:05am – 11:30am	Sniffing Rett syndrome Therapeutics Stavros Lomvardas, PhD, University of California – San Francisco
11:30 – 11:55am	Using Mouse Models and Induced Pluripotent Stem Cells to Study Autism Spectrum Disorders Ricardo Dolmetsch, PhD, Stanford University
11:55am – 12:25pm	Discussion – Co-Chairs: John McCall, PhD, PharMac, LLC & Alan P. Kozikowski, PhD, University of Illinois – Chicago
12:25 – 12:30pm	Closing Remarks: Antony Horton, PhD, Chief Scientific Officer, International Rett Syndrome Foundation, David M. Katz, PhD, Case Western School of Medicine & Yi Eve Sun, PhD, University of California – Los Angeles
12:30pm	Close Tuesday Program
12:30 – 1:30pm	LUNCH – RIVERSIDE HEARTH