

Scientific Meeting Agendas

8th Annual Rett Syndrome Symposium

June 25 - 27, 2007

Eaglewood Resort & Spa

Itasca, IL

Co-chairs: Huda Zoghbi & Gail Mandel

Agenda

Monday, June 25

5:00 pm

Cocktail Reception

6:00 pm

Dinner

7:40 pm

Omar Khwaja

Children's Hospital Boston

Clinical presentation

8:30 pm

Discussion

Tuesday, June 26

7:00 am

Breakfast

8:00 am

Intro to Session 1: MeCP2, Synapses, Network, and Behavior

8:15 am

Bruce McEwen

Rockefeller University

Protective and damaging effects of mediators of stress and adaptation: Implications for Rett Syndrome

8:40 am

Andrew Bauerschmidt

Johns Hopkins University

MeCP2 deficiency in mice results in altered connectivity between the central nucleus of the amygdala and the ventrolateral nucleus of the solitary tract

9:05 am

Christian Rosenmund

Baylor College of Medicine

MeCP2 levels controls synapse formation in glutamatergic neurons

9:30 am

Stephen Smith

Stanford University School of Medicine

Array tomography and single-synapse analysis: new tools for the investigation of normal and disordered neural circuits in human and animal model brain tissues

9:55 am

Break

10:30 am

Andrew Pieper

University of Texas Southwestern Medical Center

In vivo identification of neurogenic small molecules for treatment of schizophrenia as a proposed model for the development of novel therapeutic agents for Rett Syndrome.

10:55 am

Mark Bear

Massachusetts Institute of Technology, HHMI

From gene to pathophysiology to treatment in fragile X

11:20 am

Discussion

Noon

Lunch

1:30 pm

Intro to Session 2: MeCP2 Targets

1:50 pm

Sacha Nelson

Brandeis University

Cell type specific alterations in gene expression in Mecp2 mutant mice

2:10 pm

Gus Frangou

Fred Hutchinson Cancer Research Center

A novel mammalian cell system to manipulate and analyze epigenetic gene regulation in vivo

2:35 pm

Uta Francke

Stanford University School of Medicine

Debunking an imprinting myth: DLX5 and DLX6 expression is biallelic and not modulated by MeCP2 deficiency

3:00 pm

Discussion facilitated by Marisa Bartolomei and Hunt Willard

4:00 pm

Free time

5:00 pm

Poster Session / Cocktails

7:00 pm

Dinner / Drinks

Wednesday, June 27

7:00 am

Breakfast

9:00 am

Intro to Session 3: MeCP2 role in neurons and glia

9:15 am

Matthew Klein

Vollum Institute, Oregon Health & Science University

Homeostatic regulation of MeCP2 by a CREB-regulated microRNA

9:40 am

Zhaolan (Joe) Zhou

Children's Hospital, Harvard Medical School

A role of neuronal activity-dependent phosphorylation of MeCP2 in brain

10:05 am

Gail Mandel

Vollum Institute, Oregon Health & Science University

MeCP2 is present in glia: is this a factor in Rett Syndrome?

10: 30 am

Yi Sun

University of California Los Angeles

The function of MeCP2 in human ES cell-derived neurons

10:55 am

Break

11:30 am

Discussion

12:30 pm

Lunch and Departure

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7th Annual Rett Syndrome Symposium

June 26-28, 2006

Eaglewood Resort & Spa

Chicago, IL

Co-chairs: Huda Zoghbi & Gail Mandel

Agenda

Monday, June 26

5:00 pm

Cocktail Reception

6:00 pm

Dinner

7:40 pm

Monica Coenraads, Director of Research, RSRF

Introductory Remarks

7:45 pm

Sarojini Budden, Oregon Health and Sciences University

Larry Swanson, University of Southern California

Keynote Talk: Clinical Features and Neuroanatomy of Rett Syndrome

8:30 pm

Poster Session A

Tuesday, June 27

7:00 am

Breakfast

8:00 am

Yves Alain Barde, University of Basel

Brain-derived neurotrophic factor: quantification, distribution and role in the Nervous system of the mouse

8:30 am

David Katz, Case Western University

BDNF and respiratory dysfunction in MeCP2 null mice

8:50 am

Qiang Chang, Whitehead Institute

The role of neuronal activity induced MeCP2 phosphorylation - an in vivo study

9:10 am

Yi Sun, University of California Los Angeles

MeCP2 phosphorylation and glycosylation the "Ying & Yang" aspects of MeCP2 post-translational modifications

9:30 am

Dag Yasui, University of California Davis

Moonlighting Functions of MeCP2 Revealed by Identification of Novel Co-factors

9:50 am

Break

10:15 am

Daniel Feldman, University of California San Diego

Rodent somatosensory cortex: A model system for understanding synapse maturation and plasticity

10:45 am

Alicia Degano, Johns Hopkins University

Defects in Axonal Guidance In A Mouse Model Of Rett Syndrome

11:05 am

Jean Charles Viemari, University of Chicago

Mechanisms underlying irregular breathing in Rett Syndrome

11:25 am

Mark Bear, Massachusetts Institute of Technology

Keynote Talk: From neurobiology to therapy in fragile X

12:00 pm

Lunch

1:30 pm

Late Breaking News

1:50 pm

Rusty Gage, Salk Institute

To be announced

2:20 pm

Late Breaking News

2:40 pm

Discussion Led by Chairs

4:00 pm

Free Time

5:30 pm

Cocktail Reception

6:30 pm

Dinner

8:00 pm

Poster Session B

Wednesday, June 28

7:00 am

Breakfast

8:00 am

Elly Nedivi, Massachusetts Institute of Technology

Dynamic structural rearrangement of dendritic arbors in non-pyramidal neurons of the cerebral cortex

8:30 am

Noriyuki Kishi, Massachusetts General Hospital, Harvard Medical School

Identification and analysis of MeCP2 target genes in developing cerebral cortex projection neurons

8:50 am

Jack Feldman, University of California Los Angeles

Looking For Inspiration: New Perspectives On Basic Mechanisms For Breathing

9:20 am

Holly Cukier, Baylor College of Medicine

Using Drosophila to Investigate MeCP2 Function and Interactions

9:40 am

John Rubenstein, University of California San Francisco

Role of the Dlx genes in differentiation of forebrain GABAergic neurons

10:10 am

Break

10:30 am

Ramin Shiekhata, University of Pennsylvania

To be announced

11:00 am

Gregory Pelka, Children's Hospital Westmead

Investigation of the impact of regionalized Mecp2 deficiency and the manifestation of the RTT phenotype using chimera analysis

11:20 am

Nicoletta Landsberger, University of L'Insubria

Functional Characterization of CDKL5, a novel gene involved in the onset of Rett Syndrome

11:40 am

Discussion led by Chairs

(Focus: Are we ready for translating basic science insights into interventions?)

12:45

Lunch and Departure

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6th Annual Rett Syndrome Symposium

June 27 - 29, 2005

Eaglewood Resort & Spa

Chicago, IL

Co-chairs: Huda Zoghbi & Adrian Bird

Monday, June 27

5:00 pm

Cocktail Hour

6:00 pm

Dinner

7:30 pm

Monica Coenraads, Director of Research, RSRF - Introductory Remarks

7:45 pm

Daniel Glaze, Baylor College of Medicine - Rett Syndrome: Opportunities for Understanding Neurodevelopmental Disorders

8:30 pm

Richard Goodman, Vollum Institute - Genome-wide screening for transcription factor binding sites

Tuesday, June 28

7:30 am

Breakfast

8:30

Art Beaudet, Baylor College of Medicine - A mixed epigenetic and genetic and mixed de novo and inherited model for autism

9:00

Reiko Fitzsimonds, Yale University - Hippocampal Synaptic Plasticity is Impaired in the Mecp2-null Mouse Model of Rett Syndrome

9:20

Huda Zoghbi, Baylor College of Medicine, Howard Hughes Medical Institute - Synaptic dysfunction in a mouse model of Rett syndrome

9:50

Ulrike Nuber, Max Planck Institute for Molecular Genetics - Up-regulation of glucocorticoid-regulated genes in a mouse model of Rett syndrome

10:10

Bruce Cohen, Cleveland Clinic - Mitochondria Dysfunction in Rett Syndrome: Is Rett Syndrome a Mitochondrial Disease?

10:40

Break

11:10

Peter Scheiffele, Columbia University - Function of Neuroligin Family Proteins at Neuronal Synapses

11:40

Jean-Christophe Roux, INSERM - Mecp2-deficiency disrupts norepinephrine and respiratory systems in mice: Implications for Rett Syndrome

12:00

John Greer, University of Alberta - Developmental Studies of Respiratory Rhythmogenesis in Rodent Models

12:30 pm

Lunch

2:00

Nathaniel Heintz, Rockefeller University, HHMI - Transcriptional Profiling of Defined CNS Cell Populations in BACarray Transgenic Mice

2:30

Juan Young, Centro de Estudios Cientificos - Exploring Novel functions for MeCP2

2:50

Discussion Led by Huda Zoghbi, Baylor College of Medicine, Howard Hughes Medical Institute

4:00

Poster Session/Cocktail Reception

7:00

Dinner

Wednesday, June 29

7:00 am

Breakfast

8:00

Joe Zhou, Harvard University, Children's Hospital Boston - Neuronal activity-dependent phosphorylation of MeCP2

8:30

Qiang Chang, Whitehead Institute - Overexpression of BDNF in the Postnatal Brain Delays the Onset of RTT-like Symptoms in the Mecp2 Mutant Mice.

8:50

Helen Scharfman, Columbia University, Helen Hayes Hospital - Effects of acute and chronic BDNF overexpression in rats and mice and their implications for the etiology of Rett Syndrome.

9:10

Skirmantas Kriaucionis, University of Edinburgh - MeCP2 is responsible for recruitment of ATRX to heterochromatic foci in mouse brain

9:30

Weidong Wang, National Institute on Aging/NIH (some slides from Adrian) - MeCP2 is Regulated by Phosphorylation and Does Not Stably Associate with SWI/SNF Chromatin-Remodeling Complexes

9:50

Break

10:20

Pavel Belichenko, Stanford University - Dendritic Alterations in the Brains of Mouse Models of Rett Syndrome

10:40

Gregory Pelka, Sydney University, Children's Hospital Westmead - Insights into Rett syndrome pathophysiology through mouse models

11:00

Xinyu Zhao, University of New Mexico School of Medicine - Function of MeCP2 in postnatal neurogenesis and neuronal maturation

11:20

Discussion led by Adrian Bird, University of Edinburgh

12:30 pm

Lunch and Departure

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5th Annual Rett Syndrome Symposium

June 28 - 30, 2004

Inn at The Colonnade

Baltimore, MD

Co-Chairs: Huda Zoghbi & Adrian Bird

Monday, June 28

5:00 PM Cocktail Hour

6:00 PM Dinner

7:30 PM Monica Coenraads, Director of Research, RSRF

Introductory Remarks

7:45 PM Jeffrey Neul, Baylor College of Medicine

Rett Syndrome: What Can the Girls Teach the Scientist?

8:30 PM Michael Greenberg, Children's Hospital Boston, Harvard Medical School

MeCP2 as a Repressor of Activity-Dependent Gene Regulation

Tuesday, June 29

7:30 AM Breakfast

8:30 AM Yi Sun, UCLA

DNA methylation-related chromatin remodeling in activity-dependent BDNF gene regulation

9:00 AM Ken-ichiro Kosai, Kurume University

Adenoviral MeCP2 Gene Therapy Partially Improves Neurological Symptoms of Rett Syndrome in Mice

9:20 AM Lisa Monteggia, UT Southwestern Medical Center

Behavioral Characterization of Conditional MeCP2 Knockout Mice

9:40 AM Michael G. Rosenfeld, UCSD, Howard Hughes Medical Institute

Genomic Patterns of Transcription and Coregulatory Factors in Integration of Biological Responses

10:10 AM Skirmantas Kriaucionis, University of Edinburgh

Gene expression analysis in MeCP2-null mice using a variant of differential display

10:30 AM Break

11:00 AM Brian Hendrich, University of Edinburgh

Identification of a role for methyl-CpG binding proteins in mammalian development

11:20 AM David Amaral, UC Davis, M.I.N.D. Institute

The Amygdala and Autism

11:50 AM Laura Herzing, Northwestern University

Concurrence of MeCP2-Mediated Decrease in Expression of the Angelman Syndrome Gene, UBE3A, between Rett Syndrome Patients and the Mecp2-knockout Mouse at an Actual, Rather than Developmental, Time-Frame

12:10 PM John Christodoulou, Children's Hospital at Westmead

12:30 PM Lunch

2:00 PM Luca Santarelli, Columbia University

Influence of postnatal hippocampal development and neurogenesis on anxiety and depression.

2:30 PM Gail Mandel, Stonybrook, Howard Hughes Institute

Regulation of neuronal phenotype by transcriptional repression

3:00 PM Discussion Led by Huda Zoghbi, Baylor College of Medicine, Howard Hughes Medical Institute

4:00 - 7:00 PM Poster Session/Cocktail Reception

7:00 - 8:30 PM Dinner

Wednesday, June 30

7:00 AM Breakfast

8:00 AM Gabrielle Ronnett, Johns Hopkins University

The Olfactory System as a Model for Rett Syndrome

8:30 AM Denis Jugloff, University of Toronto

Increased Dendritic Complexity and Axonal Length In Cultured Mouse Cortical Neurons Over- Expressing Methyl DNA Binding Factor MeCP2.

8:50 AM Nino Ramirez, University of Chicago

Is a lack of excitatory neuromodulators responsible for erratic breathing in Rett Syndrome?

9:10 AM En Li, Novartis

Genetic Study of DNMT3A and MECP2 Function in the Brain

9:40 AM Eva Gak, Tel Aviv University

Identification of Novel and Known MECP2 Mutations Employing Quantitative RNA Expression Studies in Peripheral Blood: Implications for the Rett Syndrome Phenotype

9:50 AM Break

10:30 AM Carl Wu, National Cancer Institute, NIH

Controlling Gene Expression by ATP-Driven Mobilization of Nucleosomes

11:00 AM Megumi Adachi, The Neurosciences Institute

DNA Elements That Regulate The MeCP2 Gene Promoter In Neuronal Cells

11:20 AM Discussion led by Adrian Bird, University of Edinburgh

12:30 AM Lunch and Departure

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Child Neurology Society 33rd Annual Meeting

Ottawa, Ontario, Canada

October 13, 2004

Monica Coenraads, RSRF Co-founder and Director of Research, has been invited to participate in the Child Neurology Society Symposium on Rett Syndrome.

NIH/NINDS Symposium: Rett Syndrome

Moderator: Bernard L. Maria, MD, MBA, Executive Director of the Children's Research Institute, Associate Director of the Neuroscience Institute, Jeffrey Edwin Gilliam Chair for Neurodevelopmental Disorders, Professor of Pediatrics, Neurology, Physiology and Neuroscience, Medical University of South Carolina, Charleston, South Carolina

7:30 AM - 7:35 AM

Introduction and Statement of Symposium Goals

Bernard L. Maria, MD, MBA

7:35 AM - 10:00 AM

CLINICAL ISSUES

Moderator: Alan K. Percy, M.D.

University of Alabama at Birmingham

Birmingham, Alabama

7:35 AM - 7:55 AM

RS: The Model of a Neurodevelopmental Disorder

Alan K. Percy, M.D.

7:55 AM - 8:25 AM

Clinical Profiles with Age - Classical Forms

Professor Bengt Hagberg

University of Goteborg

Goteborg, Sweden

8:25 AM - 8:50 AM

Clinical Profiles - Variant Forms

Ola Skjeldal

University of Oslo

Oslo, Norway

8:50 AM - 9:15 AM

Molecular Diagnosis of Rett Syndrome

Peter Huppke, M.D.

Georg-August-Universitat Gottingen

Gottingen, Germany

9:15 AM - 9:45 AM

Molecular Biology of MECP2

Huda Zoghbi, M.D.

Baylor College of Medicine

Houston, Texas

9:45 AM - 10:00 AM

Additional Question and Answer Sessions

10:00 AM - 10:15 AM

BREAK

10:15 AM - 12:30 PM

CLINICAL AND BASIC NEUROBIOLOGY

Moderator: Carolyn Schanen, M.D., Ph.D.

The Nemours Institute, A.I. Dupont

Wilmington, Delaware

10:15 AM - 10:45 AM

Clinical Neurophysiology

Daniel G. Glaze, M.D.

Baylor College of Medicine

Houston, Texas

10:45 AM - 11:15 AM

Neuropathology

Dawna D. Armstrong, M.D.

Baylor College of Medicine

Houston, Texas

11:15 AM - 11:45 AM

Neural Networks

Jeffrey D. Macklis, M.D., Ph.D.

Harvard Medical School

Boston, Massachusetts

11:45 AM - 12:15 PM

Implications for Neural Development

Michael V. Johnston, M.D.

Kennedy Krieger Institute

Johns Hopkins University School of Medicine

Baltimore, Maryland

12:15 PM - 12:30 PM

Additional Question and Answer Session

12:30 PM - 1:30 PM

Lunch

1:30 PM - 3:15 PM

CLINICAL PROGRESS

Moderator: Folker Hanefeld, M.D.

Georg-August-Universitat Gottingen

Gottingen, Germany

1:30 PM - 2:00 PM

Natural History with Age

Yoshiko Nomura

Segawa Neurological Clinic for Children

Tokyo, Japan

2:00 PM - 2:30 PM

Phenotype-Genotype Correlations

Carolyn Schanen, M.D., Ph.D.

The Nemours Institute, A.I. Dupont

Wilmington, Delaware

2:30 PM - 3:00 PM

Newborn Screening/Implications for Therapy

Ignatia B. van den Veyver, M.D.

Baylor College of Medicine

Houston, Texas

3:00 PM - 3:15 PM

Break

3:30 PM - 5:00 PM

FUTURE DIRECTIONS

Moderator: Masaya Segawa, M.D., Ph.D.

Segawa Neurological Clinic for Children

Tokyo, Japan

3:30 PM - 4:00 PM

Neurodevelopmental Disorders

Thomas Insel, M.D.

National Institute of Mental Health

Bethesda, Maryland

4:00 PM - 4:55 PM

Panel

Laura A. Mamounas, Ph.D.,

Program Director, Neurogenetics Cluster, NINDS, NIH

Monica Coenraads, Director of Research

Rett Syndrome Research Foundation

Lisa Forman, Ph.D., Scientific Director

International Rett Syndrome Association

Kathy Hunter, Founder and President,

International Rett Syndrome Association

4:00 PM - 5:00 PM

Closing Comments

Bernard L. Maria, M.D., MBA

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