

Wiring the Brain 2009 – Detailed Schedule

Tuesday 21st Arrival Day

- 13:00 on Registration – *Main Reception Area, Manor House*
18:00 **Keynote I – Sponsored by Wings for Life - Gallery, Manor House**
John Rubenstein
Patterning of the Neocortex by FGF-Signaling
7.00pm Opening Reception – *Drawing Room & Lawns, Manor House*

Wednesday 22nd

Morning **Building the Brain - Gallery, Manor House**

- 09.00 **Alain Chedotal**
Re-Wiring the Brain with Robo3 : A Genetic Study of the Function of Brain
Commissures
09:30 **Fan Wang**
PIK3C3/Vps34 Mediated Endocytic Trafficking in Cortical Neuronal Migration and
Neural Degenerative Diseases
10:00 **Jill Weimer:**
MARCKS Regulates Radial Glial Development
10:15 **Robert Hindges**
MicroRNAs Regulate Axon Pathfinding Decisions at the Midline
10.30 – 11.00 COFFEE – *Drawing Room, Manor House*
11:00 **Oscar Marín**
Cellular and Molecular Mechanisms Controlling the Development of Cortical Gabaergic
Interneurons
11:30 **Pierre Vanderhaeghen**
Corticogenesis in a Dish: Intrinsic Mechanism of Specification of Cortical Neurons from
Pluripotent Stem cells.
12:00 **John Gilmore**
Imaging Human Brain Development from Birth to Age Two
12.15 – 14.30 LUNCH / **POSTER SESSION 1** – *Robert Trent Jones Room, Clubhouse*

Afternoon **Making Connections – Gallery, Manor House**

- 14:30 **Alex Kolodkin**
Molecular Mechanisms Underlying the Establishment of Neuronal Connectivity
15:00 **Z. Josh Huang**
Activity-Dependent Development of Inhibitory Synapses and Circuits: Role of GABA
Signaling and Beyond
15:30 **Patricia Maness**
Regulation of Interneuron Connectivity by NCAM, ADAM10, and EphrinA/EphA in
Developing Prefrontal Cortex and a Schizophrenia-Related Mouse Model
15:45 – 16:15 COFFEE – *Drawing Room, Manor House*
16:15 **Takao Hensch:** What the mouse eye tells the mouse brain

- 16:45 **David Feldheim**
Map Alignment in the Mouse Visual System
- 17:00 **Matthew Colonnese**
An Experience-Independent Developmental Switch in Sensory Processing Prepares Neocortex for Vision
- 17:15 Wine reception / **POSTER SESSION I** – *Robert Trent Jones Room, Clubhouse*
- 18:30 – 19:30 **Keynote II – Sponsored by Down Syndrome Research and Treatment Foundation,**
Gallery, Manor House
Stanislas Dehaene
Wiring the Brain for Reading and Math: The Neuronal Recycling Hypothesis

Thursday 23rd

- Morning** **Genetic Architecture of Psychiatric and Neurological Disease –**
Gallery, Manor House
- 09:00 **Aiden Corvin**
Evidence for Overlapping Molecular Susceptibility Pathways in Schizophrenia and Bipolar Disorder
- 09:30 **Mary-Claire King**
Ghosts of the Genome: Rare Severe Mutations in Mental Illness
- 10:00 **Jacques Michaud**
De Novo Mutations in SYNGAP1, a Component of the NMDA Receptor Complex, Cause Autosomal Non-Syndromic Mental Retardation
- 10:15 – 10:45 COFFEE – *Drawing Room, Manor House*
- 10:45 **Albert Galaburda**
Dyslexia Susceptibility Genes and their Effects on Brain Development
- 11:15 **Stephanie Le Hellard**
Convergent Functional Genomics: From a BDNF Memory Model in Rat to the Identification of Genetic Variants for Cognitive Abilities in Human.
- 11:30 – 11.45 **Mbemba Jabbi**
Structural and Resting State rCBF Abnormalities of the Insula in Williams Syndrome
- 12.00 **Keynote III – Sponsored by Trinity College Institute of Neuroscience** *Gallery, Manor*
Daniel Geschwind
Autism Genetics – from Gene to Brian

Afternoon

- 13:00 – 14:00 **Lunch** – *Clubhouse (for those not booked on tour)*
- 13:00 – 17:30 **Tour** – *lunch will be provided en route on tour, bus departs front of Manor House*
- 17:30 – 19:00 Dinner break – dinner at leisure

Evening

From Genotype to Phenotype - *Gallery Manor House*

- 19:00 **Jeffrey L. Noebels**
Network Remodeling: Convergent Mechanisms in Epilepsy and Dementia
- 19:30 **Kirsty Millar**
Disrupted In Schizophrenia 1 and Phosphodiesterase 4, Risk Factors for Major Mental

20:00 **Illness**
Andreas Meyer-Lindenberg
Neural Circuits for Genetic Risk for Psychiatric Disorders

Friday 24th

Morning Rewiring the Adult Nervous System – *Gallery, Manor House*

09:00 **Luca Santarelli** Functional Role of Adult Hippocampal Neurogenesis

09:30 **Hongjun Song**
Activity-Dependent Regulation of Adult Neural Stem Cells and Neurogenesis

10:00 **Nicholas Brandon:**
Activation of Estrogen Receptor Beta Regulates Hippocampal Synaptic Plasticity and Improves Memory

10:15 – 10:45 **COFFEE- *Drawing Room, Manor House***

10:45 **Karl Deisseroth**
Optogenetics: Development and Application

11:15 **Marius Wernig**
Therapeutic Promise of Pluripotent Stem Cells for Neurodegenerative Diseases

11:45 **Paul Young**
Single-Neuron Labeling with Inducible Cre-Mediated Knockout in Transgenic Mice

12:00 – 14:00 **LUNCH / POSTER SESSION 2 – *Robert Trent Jones Room, Clubhouse***

Afternoon From Brain to Mind - *Gallery, Manor House*

14:00 **Sean Hill**
Wiring the Blue Column

14:30 **Bita Moghaddam**
Thinking Differently About Schizophrenia

15:00 **Danielle Bassett**
Cognitive Fitness of Cost-Efficient Brain Functional Networks

15:15 – 15:45 **COFFEE- *Drawing Room, Manor House***

15:45 **David Linden**
Imaging States and Traits of Mental Disorders

16:15 **Annette Karmiloff-Smith**
Neuroconstructivism: Why Development Is Critical to Understanding Genotype/Phenotype Relations and the Human Mind/Brain

16:45 **Kevin Mitchell**
Synaesthesia as a Model of Altered Cortical Connectivity

17:00 – 19:00 **POSTER SESSION 2 (Cont'd) – *Robert Trent Jones Room, Clubhouse***

19:30 Gala Dinner