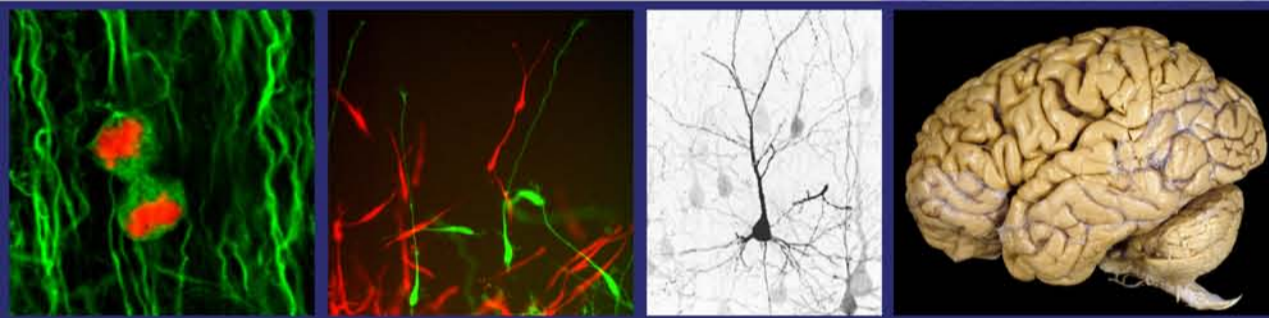


Cortical Development & Evolution

- ▣ *Genetics & Epigenetics of Cortical Development*
- ▣ *Neurogenesis & Cortical Expansion*
- ▣ *Determinants of Neuron Identity*
- ▣ *Cell Migration in Circuit Development*



ENI-Net Meeting
Instituto de Neurociencias
Alicante, Spain 13th April 2010

Organization: Víctor Borrell

Víctor Borrell
Vania Broccoli
Sonia Garel
Cécile Lebrand
Frederick Livesey
Oscar Marin
Zoltán Molnár
Marta Nieto
Alessandra Pierani
Christopher Redies
Victor Tarabykin
Nicoletta Tekki-Kessararis
Fadel Tissir



9:00 Registration

9:15 Introduction by Director of IN

9:30 Genetics and epigenetics of cortical development

Chair: Víctor Borrell

Christopher Redies (Jena U., Germany)

"Cadherin expression in normal and mutant cerebral cortex"

Fadel Tissir (C.U. Lovain, Belgium)

"Roles of Cadherins Celsr1-3 in brain development"

Frederick Livesey (U. Cambridge, U.K.)

"Epigenetic mechanisms in cortical development"

11:00 Coffee break

11:30 Control over neurogenesis and cortical expansion

Chair: Cécile Lebrand

Alessandra Pierani (I. Jacques Monod, France)

"Migrating cells and patterning of the cerebral cortex"

Vania Broccoli (U. Vita-Salute San Raffaele, Italy)

"Dual role of Intermediate (basal) progenitor cells in promoting cerebral cortex expansion during vertebrate brain evolution and embryogenesis"

Zoltán Molnár (U. Oxford, U.K.)

"The origin of the mammalian neocortex"

Víctor Borrell (I.N., Spain)

"Mechanisms of cortical expansion and folding"

13:30 Lunch and Posters

16:00 Genetic determinants of neuron identity

Chair: Oscar Marin

Nicoletta Tekki-Kessarlis (U.C.L., U.K.)

"Subpallial sources of cortical interneurons in rodents"

Victor Tarabykin (M.P.I. Göttingen, Germany)

"Cell extrinsic and cell intrinsic functions of Sip1 in the neocortex"

Marta Nieto (C.N.B., Spain)

"Cux1 and Cux2 regulate dendritic branching, spine morphology and synapses of the upper layer neurons of the cortex"

17:30 Coffee break

18:00 Roles of cell migration in circuit development

Chair: Alessandra Pierani

Oscar Marin (I.N., Spain)

"Mechanisms controlling the migration of cortical interneurons"

Cécile Lebrand (U. Lausanne, Switzerland)

"Neurons help bridge the brain's communication gap"

Sonia Garel (E.N.S., France)

"Building thalamo-cortical projections: roles of migrating guidepost cells"

19:30 Closing remarks