**Seminari di Neuroscienze**

**Lecture Series Benedikt Berninger**

***Plasticity of Cell Fate and Cellular Reprogramming: New Perspectives for the Study of Disease and Cell-Based Therapy of the Human Nervous System***

**Benedikt Berninger,** Institute of Psychiatry, Psychology & Neuroscience, Centre for Developmental Neurobiology, King’s College London, UK

**Week 1 (May 28 – 31):**

Lecture 1: *Breakdown of an old dogma: how to reacquire pluripotency*

Tuesday 28th May 18-20

Aula Contini

Lecture 2: *Molecular Mechanisms underlying reprogramming of somatic cells towards pluripotency*

Wednesday29th May 18-20

Aula Bianchi Lettere

Lecture 3: *Transcriptional and epigenetic mechanisms of neuro- and gliogenesis*

Thursday  30th May  18-20

Aula Contini

Lecture 4: *Directed differentiation of pluripotent stem cells into neurons and glia*

Friday 31st May  16-18

Aula Contini

**Week 2 (June 10-14; schedule to be defined):**

Lecture 5: *Modelling human brain development in 3D cultures*

Lecture 6: *Modelling human CNS disease*

Lecture 7: *Direct lineage reprogramming of somatic cells into induced neurons*

Lecture 8: *Functional integration of reprogramming-derived neuron and glia*