

**Institute of Neuroscience**  
**Department of Biomedical Sciences**  
*“Aging Project”*

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**Summer School on Neuroscience and Aging**  
**Venice, 10 - 15 June 2013**



**Faculty members and provisional topics**

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## **Day 1 (10 June 2013 - afternoon)**

- 03.30 pm: Registration and Welcome
  - 05.00 Opening Lecture - **G. Rizzolatti** (Parma).
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## **Day 2 (11 June 2013)**

### **Basic science**

- 9.00 am: Optogenetics: a novel approach for the optical dissection of brain circuits  
– **T. Fellin** (Genova).
  - 11.00: Break
  - 11.30: Getting more from Fluorescence Microscopy: Optical Nanoscopy and Super resolution microscopy for Bioimaging at the Nanoscale – **A. Diaspro** (Genova).
  - 01.15 pm: Lunch
  - 02.15: Visualizing second messenger in living cells – **T. Pozzan** (Padova).
  - 04.15: Break
  - 04.45: A crucial role of astrocytes in epilepsy - **C. Steinhäuser** (Bonn).
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## **Day 3 (12 June 2013)**

### **Diagnosis**

- 9.00 am: The clinical use of structural MRI - **G. B. Frisoni** (Brescia).
  - 11.00: Break.
  - 11.30: PET molecular imaging in dementia diseases - **D. Perani** (Milano).
  - 01.15 pm: Lunch
  - 02.15: The clinical use of Biomarkers - **A. Padovani** (Brescia).
  - 04.15: Break
  - 04.45: Discovery and integration of genetic and neuroimaging biomarkers – **G. Toffolo** (Padova).
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## **Day 4 (13 June 2013)**

### **Epidemiology and clinical aspects**

- 9.00 am: Epidemiology: The new generation studies - **L. Ferrucci**, Bethesda, MD, USA.
  - 11.00: Break.
  - 11.30: Prevention of the dementing disorders: from observation to intervention - **L. Fratiglioni**, Stockolm, Sweden.
  - 01.15 pm: Lunch
  - 02.15: Clinical aspects - **R. Besdine**, Providence, RI, USA.
  - 04.15: Break
  - 04.45: Train the Brain Study: rationale and preliminary results.(TBD) – **N. Berardi**, (Pisa).
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## **Day 5 (14 June 2013)**

### **3 SUBGROUPS**

- 9.00 am: Visit to Abano Hospital (**U. Salvolini**, Prof. of Neuroradiology, Ancona University).  
Laboratory on Neuroimaging: presentation and discussion of clinical cases.
- 9.00 am: Visit to the Venetian Institute of Molecular Medicine (**T. Pozzan**, MD, Director, CNR Department of Biomedical Sciences, Professor, University of Padua).
- 9.00 am: Visit to the San Camillo Institute of Neuro-rehabilitation - Venice (**P. Tonin**, Deputy Director).  
Application of telemedicine in the field of neuro-rehabilitation.

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## **Day 6 (15 June 2013)**

**9.00 am: Presentation and discussion of students' projects.**

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