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**Institute of Neuroscience**

**Department of Biomedical Sciences**

***“Aging Project”***

**Summer School on Neuroscience and Aging**

**Venice, 10 - 15 June 2013**

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**Faculty members and provisional topics**

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

* 03.30 pm: Registration and Welcome
* 05.00 Opening Lecture - **G. Rizzolatti** (Parma).

**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. Steinhaeuser** (Bonn).

**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).

**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).

**Day 5 (14 June 2013)**

1. **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 Insitute of Neuro-rehabilitation - Venice **(P. Tonin,** Deputy Director).

Application of telemedicine in the field of neuro-rehabilitation.

**Day 6 (15 June 2013)**

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