



UNIVERSITÀ
CATTOLICA
del Sacro Cuore

Rome, 28-29 November 2016

Catholic University of Sacred Heart, Polyclinic A. Gemelli Foundation
Conference Center Europa, Hall Italia

“UPDATES ON HUMAN BRAIN CONNECTOME: FROM PHYSIOLOGY TO DISEASES”

Day 1

8:30

Registration of the participants

9:00-10:30

Anatomical and functional connectivity: from cell to whole brain

- *Paolo Maria Rossini & Mark Hallett*: Introduction

- *Marina Bentivoglio*: The brain connectome: the everchanging views on the anatomy of the most intricate forest

- *Bharat Biswal*: Functional connectomes

10:30-11:30

Methodological approaches

Franco Pestilli: Classical methodological approaches of connectivity analysis

Christian Gerloff: Multimodal connectivity analyses: From matrix to physiology

11:30-12:30

Neurobiological bases

- *Ulf Ziemann*: Pharmacological modulation of brain connectivity and plasticity

- *Erol Basar*: Exploring human memory networks by brain oscillations and connectivity

12:30-14:00

Lunch



14:00-15:30

Methods of measurement

- *Gereon R. Fink*: Functional/effective connectivity derived from fMRI and its clinical implications
- *Risto Ilmoniemi*: TMS-EEG
- *Fabrizio Vecchio*: EEG/MEG

15:30-17:00

Connectivity and brain stimulation

- *Michael Nitsche*: Effects of non-invasive brain stimulation on human brain connectivity
- *Abraham Zangen*: Connectivity and changes induced by non-invasive deep brain stimulation
- *Yoshikazu Ugawa*: Connectivity and MRS changes induced by Quadripulse stimulation

17:00-17:30

Coffee Break

17:30-19:00

Connectivity and Neuro-rehabilitation

- *Maurizio Corbetta*: Analysis of brain mechanisms of cognitive function and their recovery after stroke and traumatic brain injury
- *Bernhard A. Sabel*: Brain functional connectivity network plasticity and vision restoration
- *Christian Grefkes*: Modifications of motor plasticity and connectivity in stroke rehabilitation

21:00

Social Dinner



Day 2

8:30-10:30

Connectivity and learning

- *Wolf Singer*: Neural correlates of consciousness
- *Marcello Massimini*: Cognitive neuroscience and neuropathology: brain networks in disorders of consciousness
- *Peter T. Fox*: Functional brain mapping techniques to study the physical and temporal organization of the neural systems supporting human behavior
- *Carlo Miniussi*: Analysis of neuronal networks involved in cognitive plasticity

10:30-12:30

Neurodegeneration and Psychiatric diseases

- *Paolo Maria Rossini*: AD and dementias
- *Reinhard Dengler*: Brain networks in Motor Neuron Disorders
- *Willem De Haan*: Functional neural network topology in Neurodegenerative diseases
- *Yong He*: Anatomical and functional networks in Psychiatric disorders

12:30-14:00

Lunch

14:00-15:30

Aberrant connectivity

- *Ivan Rektor*: Epilepsy
- *Mark Hallett*: Movement disorders
- *Riccardo Di Iorio*: Phantom Limb

15:30

Meeting Conclusions



GENERAL INFORMATION

CONFERENCE VENUE

Faculty of Medicine and Surgery "A. Gemelli"
Largo Francesco Vito no. 1
00168 Rome

HOW TO REACH THE VENUE

Enter the University complex in Largo F. Vito 1. Once inside, follow the signposted itinerary to reach the Centro Congressi Europa.

The Centro Congressi Europa may also be reached using the following means of transport:

AIR:

Fiumicino airport, "Fiumicino" station, take the Airoport-Fara Sabina/Orte train (leaves every 20 min.), get off at the "Trastevere" station, take the Rome-Viterbo city train and get off at the "Gemelli" station.

Taxi from the airport.

TRAIN:

From Rome Termini station take the Underground A line, get off at "Battistini" and take bus no. 146

PUBLIC TRANSPORT:

Take the Underground A line until the "Valle Aurelia-Cornelia" or "Battistini" stop. Once out of the underground station, take one of the following buses which stop at the Hospital entrance:

- 980 (itinerary: Via Pane – Pineta Sacchetti – Ospedale San Filippo Neri)
- 446 (circonvallazione Cornelia – Pineta Sacchetti – Cortina D'Ampezzo – Ponte Milvio – Piazza Mancini)
- 146 (Battistini - Pineta Sacchetti – Policlinico Gemelli)
- FM3 City Train – Gemelli Station

CAR:

Coming from the South (Naples) after having entered the ring road (Grande Raccordo Anulare), take:

- Exit 1 – Via Aurelia (towards Piazza Irmerio – Via della Pineta Sacchetti)
- Exit 2 – Via Boccea (towards Via di Torvecchia - Via della Pineta Sacchetti)

Coming from the North (Florence) take exit 3 Via Cassia (towards Trionfale - Via Della Pineta Sacchetti)

SERVICES

PARKING:

Visitors can reach the vast area surrounding the University hospital by car and park at the paying car parks.

INTERNAL SHUTTLE BUS:

A free internal transport service (shuttle bus) is available from 7.30 am to 4.30 pm from Mondays to Fridays, running every 15 minutes approximately. The itinerary includes stops within the Campus all marked by yellow signposts in the area including the Faculty, the Hospital, the Biological Institutes, the Accommodation Facility and the various car parks.

TAXI:

You can also take a city service Taxi which you will find at the taxi rank situated outside the main entrance of the University Hospital in Largo A. Gemelli no. 8.

Language

The official language of the Congress is English.

REGISTRATION

How to Register

To register, it is necessary to fill in the on-line Registration Form to

<https://docs.google.com/forms/d/e/1FAIpQLSdBjHywvO1VfpXtX7o529P1mjN0C2NWq7AOY5S-lh0HoCYjAw/viewform>

Registration forms received after **November 24, 2016** will not be accepted. Please do not send any registration forms or payments after that date. The on-site registration will be not available.

PLEASE, BOTH SEND THE BANK TRANSFER INVOICE TO valeria.polimeni@unicatt.it AND PRESENT IT AT THE REGISTRATION DESK AT THE CONGRESS VENUE TO PICK UP YOUR MEETING MATERIALS.

Registration Fees

Regular Participant 100€

Regular Participant and social evening 130€

Methods of payment

Registration fees must be paid in EUR by bank transfer.

Please note that payments by bank transfer will not be accepted **after November 24, 2016**.

After this date registrations will be closed.

ACCOUNT NAME:Università Cattolica del Sacro Cuore – Facoltà di Medicina e chirurgia “A. Gemelli”

BANK:Ag. UNICREDIT – Banca di Roma Spa.

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