



IRCCS FONDAZIONE  
ISTITUTO NEUROLOGICO  
NAZIONALE  
C. MONDINO  
Presidente Prof. A. Stella



UNIVERSITÀ  
DEGLI STUDI  
DI PAVIA  
Magnifico Rettore Prof. F. Rugge

Scientific Director IRCCS C. Mondino Prof. G. Nappi

# FRONTIERS IN NEUROTECHNOLOGY AND NEUROREPAIR

## XXVI Ottorino Rossi Award

Thursday, 25 June 2015

AULA GOLGI  
PALAZZO BOTTA  
UNIVERSITÀ DI PAVIA  
PIAZZA BOTTA  
PAVIA

Both the theme of this conference and, in particular, the topic of the lecture given by the winner of the Ottorino Rossi Award, fit very neatly into the setting of Expo 2015; indeed, particular emphasis will be placed on nutraceuticals as possible strategy for increasing the defences of the nervous system through the action of specific foods. The event, devoted to the frontiers of technology geared at furthering understanding of the mechanisms of neurological diseases and at identifying new diagnostic and therapeutic tools, will focus on innovative technologies in the fields of brain connectomics, advanced neuroimaging techniques and in silico reconstruction of neuronal circuits.

It will also include discussion of innovative therapeutic approaches, from the application of robotics in neurorehabilitation, to new pharmacological and non-pharmacological strategies able to protect nerve cells against cytotoxic stimuli, preventing the development of neurodegenerative processes and possibly promoting neurorepair phenomena.

UNDER THE AUSPICES OF



**Sin**



# FEEDING THE BRAIN

Con il Patrocinio di



MILANO 2015  
NUTRIRE IL PIANETA  
ENERGIA PER LA VITA



### PROGRAMME

8.30 a.m.

#### REGISTRATION AND WELCOME COFFEE

9.00 a.m.

#### INTRODUCTION BY THE SCIENTIFIC DIRECTOR IRCCS C. MONDINO

G. Nappi, *Pavia*

#### GREETINGS FROM THE AUTHORITIES

A. Stella - F. Rugge, *Pavia*

A. Tajani, *Bruxelles*

L. Cifarelli - G. Nisticò, *Roma*

*Chairman: P. Carretta, Pavia*

9.30 a.m.

#### Ionic channel activity in large-scale computational reconstructions of neural microcircuits

E. D'Angelo, *Pavia*

9.55 a.m.

#### MRI-based connectomics to investigate neurodegenerative diseases

C. Wheeler-Kingshott, *London, Pavia*

10.20 a.m.

#### Robotics for neurorehabilitation

G. Sandrini, *Pavia*

*Chairman: F. Salvatore, Naples*

10.45 a.m.

#### New mechanisms of neurodegeneration and potential neurorepair strategies in Parkinson's disease

F. Blandini, *Pavia*

11.10 a.m.

#### Advances in the search for new treatments in epilepsy

E. Perucca, *Pavia*

11.35 a.m.

#### Redox regulation of cellular stress response in aging and neurodegenerative disorders: the role of hormesis

V. Calabrese, *Catania*

12.00

#### Discussion

12.30 p.m.

#### XXVI OTTORINO ROSSI AWARD CEREMONY

Declaration and Presentation of the winner

A. Stella - L. Toma, *Pavia*; M. Melazzini, *Milano*

#### WINNER LECTURE:

New approaches in feeding the planet:  
olive polyphenols, hydroxytyrosol and  
the management of neurodegenerative diseases  
R. Crea, *Hayward (CA-USA)*

13.30 p.m.

#### Lunch

#### SCIENTIFIC SECRETARIAT

F. Blandini, E. D'Angelo

IRCCS C. Mondino and University of Pavia

#### COORDINATION

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#### ORGANIZING SECRETARIAT

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#### CREDITS

ECM-CPD training credits: 2.8

(neurologists, neurophysiopathologists, neuroradiologists, biologists).

