

# Essential metals in brain development and neurodegeneration

21-May

## 10-10.20 Welcome and Introduction

Chairman: Francesco Zanuttin

10.20-11	<b>Glen Andrews</b>	Studies of the regulation and function of the zinc transporter Zip4 (Slc39a4): Developing mouse models of acrodermatitis enteropathica
11-11.10		<i>Discussion</i>

11.10-11.40 **Coffee Break**

11.40-12.20	<b>Stefano Sensi</b>	The neurophysiology and pathology of brain zinc.
12.20-12.30		<i>Discussion</i>

12.30-14.30 **Lunch**

Chairman: Federico Benetti

14.30-15.10	<b>Giuseppe Legname</b>	Prion protein, Prions and copper
15.10-15.20		<i>Discussion</i>

15.20-16	<b>Lisa Gasperini</b>	Role of cellular prion protein in metal ion homeostasis and metal-binding proteins expression during development.
16-16.10		<i>Discussion</i>

16.10-16.40 **Coffee Break**

16.40-17.20	<b>Ernesto Carafoli</b>	Calcium dyshomeostasis and mitochondrial stress in Huntington's disease
17.20-17.30		<i>Discussion</i>

17.30-18.10	<b>Fulvio Celsi</b>	Methods for intracellular Calcium determination
18.10-18.20		<i>Discussion</i>

22-May

Chairman: Maura Barbisin

9.30-10.10	<b>Michael Aschner</b>	Manganese transport and mechanisms of neurotoxicity: lessons learned from <i>C. elegans</i>
10.10-10.20		<i>Discussion</i>

10.20-11	<b>Luigi Zecca</b>	Metals and neuromelanins in brain aging and neurodegeneration
11-11.10		<i>Discussion</i>

11.10-11.40 **Coffee Break**

11.40-12.20	<b>Luigi Bubacco</b>	Interaction between $\alpha$ -synuclein and metal ions, still looking for a role in the pathogenesis of Parkinson's disease
12.20-12.30		<i>Discussion</i>

12.30-14.30 **Lunch**

Chairman: Federico Benetti

14.30-15.10	<b>Fulvio Celsi</b>	Mitochondria, calcium and cell death: a deadly triad in neurodegeneration
15.10-15.20		<i>Discussion</i>

15.20-16	<b>Alessandra Gianoncelli</b>	Metal tracing with Synchrotron Radiation X-ray Fluorescence spectromicroscopy
16-16.10		<i>Discussion</i>

## 16.10-16.30 Conclusion remarks

	Essential metals in development
	Essential metals in neurodegeneration
	Metal content determination and tracking