

MOTOR NEURON DISEASES

Molecular and Cellular Basis of Selective Vulnerability

Final Program

MiniSymposium: THE PHYSIOLOGY OF NEUROMUSCULAR CONNECTION

Thursday, July 3rd, 2014 - MORNING

Chairpersons: Roberto Maggi (Italy), Yvan Torrente (Italy)

9.45 Opening - Introduction by the Organizer Roberto Maggi

10:00-10:30 Romina Macco (Italy)

RAC proteins drive migration and differentiation of cortical and hippocampal inhibitory interneurons

10:30-11:00 Valerio Magnaghi (Italy)

Physiology of Schwann cells and myelin formation in peripheral nervous system

11:00-11:30 Elisabetta Vegeto (Italy)

Role of microglia in pathophysiology of the nervous system

11:30-12:00 Yvan Torrente (Italy)

Cortical and spinal motor neurons controlling muscle behavior

12:00 Closing remarks

MOTOR NEURON DISEASES: Molecular and Cellular Basis of Selective Vulnerability

Thursday, July 3rd, 2014 - AFTERNOON

09:00 Registration

13:45 Opening

Welcome from Prof. Monica Diluca, Pro-Rettore, Universita degli Studi di Milano (Italy)

Introduction by the Organizers: Caterina Bendotti, Giambattista Bonanno, Angelo Poletti (Italy)

Session I - Motor Neuron Vulnerability

14:00-14:30 George Haase (France)

Motor neuron vulnerability in ALS: lessons from developmental biology

14:30-15:00 Stefania Corti (Italy)

The potential of iPSCs to study spinal muscular atrophy (SMA)

15:00-15:30 Pamela Shaw (UK)

Selective vulnerability of motor neuron in ALS

15:30-16:00 Pico Caroni (Switzerland)

Early mechanisms of motoneurons vulnerability in ALS

16:00-16:30 coffee break

Session II - Motor Neuron interaction with surrounding and target cells

16:30-17:00 Lauren Rosenblum (USA)

Contribution of astrocytes to motor neuron degeneration in ALS

17:00-17:30 Laura Ferraiuolo (USA)

Oligodendrocytes from ALS samples induce motor neuron death

17:30-18:00 Severine Boilée (France)

Contribution of microglial cells and macrophages to motor neuron degeneration in ALS

18:00-18:30 Antonio Musaro' (Italy)

Muscle-motoneuron dialogue in ALS

18:30-19:00 Andrew Lieberman (USA)

Skeletal muscle as a therapeutic target in SBMA

19:00-20:30 Welcome Party

Friday, July 4th, 2014

Session III - Molecular alteration of cells affected in ALS

08:30-09:00 Piera Pasinelli (USA)

NMJ as primary target in ALS: lessons from mutant FUS

09:00-09:30 Giambattista Bonanno (Italy)

Targetting Group I metabotropic glutamate receptors in ALS

09:30-10:00 Chris Miller (UK)

The ER mitochondria axis and ALS

10:00-10:30 Maria Teresa Carri (Italy)

RNA binding proteins in neurodegeneration

10:30-11:00 coffee break

11:00-11:30 Antonia Ratti (Italy)

Functional and dysfunctional RNA metabolism in ALS

11:30-12:00 Serena Carra (Italy)

Inhibition of autophagy, lysosome and VCP function impairs stress granule

12:00-12:30 Valentina Bonetto (Italy)

Cyclophilin A as key protein interactor in the pathomechanism of different ALS

12:30-13:00 Angelo Poletti (Italy)

The differential role of chaperones and the degradative system in motor neuron and muscle cells

13:00-13:00 Caterina Bendotti (Italy)

General discussion and Closing Remarks