



UNIVERSITÀ  
DEGLI STUDI  
DI MILANO

LA STATALE



FONDAZIONE IRCCS  
ISTITUTO  
NEUROLOGICO  
CARLO  
BESTA

INTERNATIONAL MASTER  
**PERIPHERAL NERVOUS SYSTEM  
DISORDERS**  
II EDITION

Director : Giuseppe Lauria | [www.pns-master.eu](http://www.pns-master.eu) | [MasterPNS@theoffice.it](mailto:MasterPNS@theoffice.it)

# MODULE 1

## STRUCTURE, DEVELOPMENT AND BIOLOGY OF PNS

Monday 20		
8:30 - 9:00	Introduction to the course	<b>Giuseppe LAURIA PINTER</b>
9:00 - 11:00	Macro and microstructure of peripheral nerves	<b>Guido CVALETTI</b>
11:00 - 11:30	Break	
11:30 - 13:30	Sensory neuron classification and function	<b>Jussi KUPARI</b>
13:30 - 15:00	Lunch break	
15:00 - 17:00	Neurobiology of autonomic neurons	<b>Alessandro FURLAN</b>
17:00 - 17:30	Break	
17:30 - 19:30	Interactive session	
Tuesday 21		
9:00 - 11:00	Functional anatomy of the PNS	<b>Ferdinando PATERNOSTRO</b>
11:00 - 11:30	Break	
11:30 - 13:30	Axonal trafficking	<b>Giampietro SCHIAVO</b>
13:30 - 15:00	Lunch break	
15:00 - 17:00	Axon sorting and development	<b>Stefano PREVITALI</b>
17:00 - 17:30	Break	
17:30 - 19:30	Genomic control of nerve myelination	<b>Alessandra BOLINO</b>

## Wednesday 22

9:00 - 11:00	Lessons from Inherited Neuropathies	<b>Peter BROPHY</b>
11:00 - 11:30	Break	
11:30 - 13:30	Schwann cell and myelin-axon interactions	<b>Laura FELTRI</b>
PM	social program	

## Thursday 23

9:00 - 11:00	Mitochondrial physiology and pathology	<b>Valeria TIRANTI</b>
11:00 - 11:30	Break	
11:30 - 13:30	Mechanisms of degeneration and regeneration	<b>Carla TAVEGGIA</b>
13:30 - 15:00	Lunch break	
15:00 - 17:00	Membrane excitability, Ion channels and channelopathies	<b>Stephen WAXMAN</b>
17:00 - 17:30	Break	
17:30 - 19:30	Interactive Session	

## Friday 24

9:00 - 11:00	Node and paranode	<b>Elior PELES</b>
11:00 - 11:30	Break	
11:30 - 13:30	Innate and adaptive immunity in PNS disorders	<b>Hugh WILLISON</b>
13:30 - 15:00	Lunch break	
15:00 - 17:00	Interactive Session	

<b>Monday 27</b>		
9:00 - 10:00	Introduction to Cadaver Lab in Turin	<b>Diego GARBOSSA</b>
10:00 - 11:00	Anatomy, Peripheral motorsemeiotics and associated pathology of peripheral nerves	<b>Paolo TITOLO</b>
11:00 - 11:30	Break	
11:30 - 12:30	Concept of Nerve Transfers and clinical application	<b>Diego GARBOSSA</b>
12:30 - 13:30	Nerve and limb traumatic injuries	<b>Ernesta MAGISTRONI</b>
<b>Tuesday 28</b>		
8:00 - 9:00	Milan > Torino Porta Nuova *	
9:00 - 9:30	Displacement to venues **	
9:30 - 12:30	Cadaver Lab	Group 1 > Location 1 Group 2 > Location 2
12:45 - 13:45	Free Lunch	
14:00 - 15:00	Visiting Museo di Anatomia Umana	
15:00 - 18:00	Cadaver Lab	Group 1 > Location 2 Group 2 > Location 1
18:00 - 20:30	Visiting Torino - take away dinner Meeting point 18:30 > Location 2	

(\*) Train tickets will be purchased by the secretariat of the Master.

(\*\*) The class will be splitted into 2 groups and will be leaded to 2 different venues.

Location 1) Museo di Anatomia Umana Luigi Rolando

<https://goo.gl/maps/eexcRLTNDcucM1BG9>

Corso Massimo d'Azeglio, 52 - Torino

From Train Station, bus 67 → stop to "Molinetto Est"

Location 2) Sezione Dipartimentale di Medicina Legale - Università di Torino

<https://goo.gl/maps/f8uMYECFUeWwNd5N9>

Corso Galileo Galilei, 22 - Torino

From Train Station, bus 67 → stop to "Torino Esposizione"

## Faculty Module 1

<b>Alessandra BOLINO</b>	San Raffaele Scientific Institute Milan, Italy
<b>Peter BROPHY</b>	Centre for Discovery Brain Sciences, University of Edinburgh Edinburgh, U.K.
<b>Guido CVALETTI</b>	Experimental Neurology Unit, School of Medicine and Surgery, University of Milano-Bicocca Milan, Italy
<b>Laura FELTRI</b>	Jacobs School of Medicine and Biomedical Sciences, State University of New York Buffalo, USA
<b>Alessandro FURLAN</b>	Karolinska Institutet Solna, Sweden
<b>Diego GARBOSSA</b>	University of Turin Turin, Italy
<b>Jussi KUPARI</b>	Division of Molecular Neurobiology, MBB, Karolinska Institutet Helsinki, Finland
<b>Giuseppe LAURIA PINTER</b>	University of Milan and IRCCS Foundation "Carlo Besta" Neurological Institute Milan, Italy
<b>Ernesta MAGISTRONI</b>	Azienda Ospedaliera C.T.O. – Maria Adelaide Turin, Italy
<b>Ferdinando PATERNOSTRO</b>	Department of Experimental and Clinical Medicine-Section of Anatomy and Histology, University of Florence Florence, Italy
<b>Elior PELES</b>	Sagol Center for Research on the Aging Brain. Departments of Molecular Cell Biology and Molecular Neuroscience, Weizmann Institute of Science Tel Aviv, Israel
<b>Stefano PREVITALI</b>	San Raffaele Scientific Institute Milan, Italy
<b>Giampietro SCHIAVO</b>	UCL Queen Square Institute of Neurology London, U.K.
<b>Carla TAVEGGIA</b>	San Raffaele Hospital Milan, Italy
<b>Valeria TIRANTI</b>	Unit of Medical Genetics and Neurogenetics, Fondazione IRCCS Istituto Neurologico Carlo Besta Milan, Italy
<b>Paolo TITOLO</b>	Azienda Ospedaliera C.T.O. Turin, Italy
<b>Stephen WAXMAN</b>	Yale University School of Medicine New Haven, U.S.A.
<b>Hugh WILLISON</b>	University of Glasgow Glasgow, U.K.