



UNIVERSITÀ
DEGLI STUDI
DI BRESCIA

Summer School

Health and Wealth Applied Neurosciences 2019

Biological and Clinical converging pathways in Alzheimer Disease and Parkinson Disease



Brescia (I)

September 2nd/6th, 2019

Under the Patronage of:



UNIVERSITÀ
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ASSOCIAZIONE
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Sin

SOCIETÀ ITALIANA DI NEUROLOGIA



SOCIETÀ ITALIANA
DI GERONTOLOGIA
E GERIATRIA

Main Topics

- ✓ Converging pathways in neurodegenerative diseases
- ✓ Genetics and epigenetics
- ✓ Cognitive Biomarkers
- ✓ Magnetic Resonance Imaging
- ✓ Functional Imaging
- ✓ Plasma and CSF Biomarkers
- ✓ Neurophysiological markers
- ✓ From bench to bedside

Course Description

The Summer School “Biological and Clinical converging pathways in Alzheimer Disease and Parkinson Disease” is an opportunity for young neurologists who are interested in specializing in Neurodegenerative diseases to receive in-depth instruction from internationally recognized experts. Students will attend large lectures and panel discussions with question and answer sessions and will have the opportunity to discuss clinical cases of atypical dementia and movement disorders and engage in a differential diagnosis with the international experts.

Recommended Audience

This course is intended for young neurologists after the completion of general neurological training who are interested in specializing in Neurodegenerative disease.

Learning Objectives

- ✓ Understand the common and divergent pathways across neurodegenerative diseases
- ✓ Propose a differential diagnosis for complex cases and propose specific clinical/imaging/neurophysiological or biological markers assessment
- ✓ Propose a symptomatic personalized treatment for dementia and movement disorder
- ✓ Understand the rationale and review the more recent evidences for new disease-modifying target therapies across neurodegenerative diseases

SCIENTIFIC PROGRAMME

Monday September 2nd, 2019

02.30 pm Participants Registration

03.30 pm Welcome Address

A. Padovani

Opening Session: Converging pathways in neurodegenerative diseases

A. Padovani

04.00 pm Biological pathways in dementing illness: do they really converge?

M. Di Luca

05.00 pm Diagnostic challenges across Alzheimer spectrum

G. Frisoni

06.00 pm Discussion

M. Trabucchi

Tuesday September 3rd, 2019

Morning Session - Biology and Genetics

M. Pizzi

09.00 am Neurobiology of neurodegenerative dementias

E. Buratti

10.00 am Genetics of dementia: unmet needs and future scenarios

P. Lewis

11.00 am Genetic aspects of early onset dementias

J. van der Zee

12.00 pm Discussion

M. Gennarelli

01.00 pm lunch

Afternoon Session - Cognitive markers in Alzheimer Disease and Parkinson Disease

E. Magni

02.30 pm Cognitive Assessment in dementing illness: need for a reappraisal

S. Cappa

- 03.30 pm Cognitive markers from preclinical to prodromal stages of Alzheimer's disease and related dementias
A. Venneri
- 04.30 pm Discussion
A. Padovani

Wednesday September 4th, 2019

Morning Session - Magnetic Resonance Imaging in Alzheimer and Parkinson Disease

R. Gasparotti

- 09.00 am Structural MRI: diagnostic markers and advancement
M. Bozzali
- 10.00 am Functional Imaging and Brain Connectome
L. Passamonti
- 11.00 am Discussion
E. Premi

12.00 pm lunch

Afternoon Session - Functional Imaging in Alzheimer and Parkinson Disease

B. Borroni

- 01.30 pm PET: from metabolism to biology radiotracers
D. Perani
- 02.30 pm Neuroimaging biomarkers in parkinsonian disorders
A. Antonini
- 03.30 pm Diagnosing parkinsonism by Imaging: from theory to practice
A. Pilotto
- 04.30 pm Discussion
P. Tiraboschi

Thursday September 5th, 2019

Morning Session - Plasma and CSF biomarkers in Alzheimer and Parkinson Disease

R. Ghidoni

- 09.00 am CSF Biomarkers in dementia: limits and future development
H. Zetterberg

- 10.00 am Plasma Biomarkers in Neurodegenerative disease: are we there?
N. Ashton
- 11.00 am Peripheral inflammation and microbiota in neurodegenerative disease
A. Cattaneo
- 12.00 pm Discussion
A. Pilotto

01.00 pm lunch

Afternoon Session - Neurophysiology Markers in Alzheimer and Parkinson Disease

M. Fontanella

- 02.30 pm EEG a window into the brain: differences and similarities across the neurodegenerative spectrum
L. Bonanni
- 03.30 pm Transcranial Magnetic stimulation: diagnostic or prognostic challenge
A. Benussi
- 04.30 pm Discussion
B. Borroni

Friday September 6th, 2019

Morning Session - Alzheimer Disease and Parkinson Disease: From bench to bedside

O. Zanetti

- 09.00 am Therapeutic strategies for disease-modifying drugs in Alzheimer and related dementias
A. Padovani
- 10.00 am Translating scientific advances into disease-modifying therapies for Parkinson's Disease
A. Cenci
- 11.00 am Unmet pharmacological needs in Parkinson's disease
W. Poewe
- 12.00 pm Discussion
E. Scarpini

01.00 pm Evaluation Questionnaire

01.30 pm Wrap-up and Farewell

Scientific and Organizing Committee

Alessandro Padovani – Barbara Borroni – Alberto Benussi – Andrea Pilotto
University of Brescia (Italy)

Faculty

Angelo Antonini	University of Padova (Italy)
Nicholas Ashton	King's College London (United Kingdom)
Alberto Benussi	University of Brescia (Italy)
Laura Bonanni	Università "G. D'Annunzio", Chieti (Italy)
Barbara Borroni	University of Brescia (Italy)
Marco Bozzali	University of Sussex, Brighton (United Kingdom)
Emanuele Buratti	ICGEB - International Centre for Genetic Engineering and Biotechnology, Trieste (Italy)
Stefano Cappa	IUSS - Scuola Universitaria Superiore Pavia (Italy)
Annamaria Cattaneo	IRCCS Fatebenefratelli Brescia (Italy)
Angela Cenci	University of Lund (Sweden)
Monica Di Luca	University of Milan (Italy)
Marco Fontanella	University of Brescia (Italy)
Giovanni Frisoni	University of Geneva (Switzerland)
Roberto Gasparotti	University of Brescia (Italy)
Massimo Gennarelli	University of Brescia (Italy)
Roberta Ghidoni	IRCCS Fatebenefratelli Brescia (Italy)
Patrick Lewis	University of Reading (United Kingdom)
Eugenio Magni	Fondazione Poliambulanza, Brescia (Italy)
Alessandro Padovani	University of Brescia (Italy)
Luca Passamonti	University of Cambridge (United Kingdom)
Daniela Perani	Ospedale San Raffaele, Milan (Italy)
Andrea Pilotto	University of Brescia (Italy)
Marina Pizzi	University of Brescia (Italy)
Werner Poewe	University of Innsbruck (Austria)
Enrico Premi	ASST Spedali Civili di Brescia (Italy)
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Orazio Zanetti	IRCCS Fatebenefratelli Brescia (Italy)
Heinrich Zetterberg	University of Gothenburg (Sweden)

Venue

Library of the School of Economics of the University of Brescia
Via S. Faustino, 74/B – 25122 Brescia (Italy)

CME - Continuing medical education

The course will be included in the **Italian ECM National Programme** and it will be Accredited for **Medical Doctor (Neurology, Geriatrics, Psychiatry)**.

Local Scientific Organizer

Prof. Alessandro Padovani

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Organizing Secretariat

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