



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 2<sup>nd</sup>/6<sup>th</sup>, 2019

## Under the Patronage of:



UNIVERSITÀ  
DEGLI STUDI  
DI BRESCIA



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**Sin**

SOCIETÀ ITALIANA DI NEUROLOGIA



SOCIETÀ ITALIANA  
DI GERONTOLOGIA  
E GERIATRIA



**SIGOT**

Sistema Socio Sanitario



Regione  
Lombardia

ASST Spedali Civili



IRCCS Centro San Giovanni di Dio-Fatebenefratelli



ACCADEMIA

LIMPE-DISMOV

ACCADEMIA ITALIANA

MALATTIA DI PARKINSON

E DISORDINI DEL MOVIMENTO

### 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 2<sup>nd</sup>, 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 3<sup>rd</sup>, 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 4<sup>th</sup>, 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  
*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 5<sup>th</sup>, 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 6<sup>th</sup>, 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

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

## Registrations

### REGULAR FEE - meeting only (VAT 22% included)

€ 550,00 early (before June 30<sup>th</sup>)

€ 650,00 standard (after July 1<sup>st</sup>)

### FULL FEE - meeting and accomodation (VAT 22% included)

€ 750,00 early (before June 30<sup>th</sup>)

€ 850,00 standard (after July 1<sup>st</sup>)

#### REGULAR FEE includes:

- Admittance to the Scientific Sessions
- Conference documents and Certificate of Attendance
- CME accreditation Programme
- Catering service (coffee breaks and lunches) and Social Activities

#### FULL FEE includes:

- Admittance to the Scientific Sessions
- Conference documents and Certificate of Attendance
- CME accreditation Programme
- Catering service (coffee breaks and lunches) and Social Activities
- Accommodation in Brescia (double/triple rooms to be shared with other participant/s - possibility of single room accommodation upon request, with extra charge)

## Payment Methods

- ✓ **ONLINE:** <http://www.summerschoolneurobs.org/index.php/registrations>  
Please note that online registrations will be accepted within Monday, August 25<sup>th</sup>; after that date, only on-site registrations (CASH PAYMENT ONLY) will be possible.
- ✓ **BANK TRANSFER**  
Full payment of fees (accepted in EURO only) is required in order to attend the Summer School; payments must be net of all bank charges and they must refer to "SUMMER SCHOOL NEURO BS2019 + participant's NAME/SURNAME". Copy of the transfer receipt, together with the Registration Form duly filled-in, must be sent by e.mail ([info@summerschoolneurobs.org](mailto:info@summerschoolneurobs.org)) or fax (0039.035.4137429) to the Organizing Secretariat SPARKS (incomplete forms and/or payments will not be taken into account).

## Cancellation Policy

- ✓ only cancellations sent in writing to the Organizing Secretariat SPARKS ([info@summerschoolneurobs.org](mailto:info@summerschoolneurobs.org)) will be accepted;
- ✓ refunds will be possible only if the participant's bank details are clearly specified;
- ✓ only cancellation's requests received before July 31<sup>st</sup> will be refunded, but they will be charged of an administrative fee of € 100,00;
- ✓ no refunds will be made for requests received after July 31<sup>st</sup>, 2019.

Venue

Library of the School of Economics of the University of Brescia

Via S. Faustino, 74/B – 25122 Brescia (Italy)

CME - Continuing medical education

Event ID: 308-265947

Assigned Credits: n.23

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

Local Scientific Organizer

**Prof. Alessandro Padovani**

School of Neurology, University of Brescia (Italy)

Official E.mail and Website

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Organizing Secretariat

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