Summer School
Health and Wealth Applied Neurosciences 2019

Biological and Clinical converging pathways in Alzheimer Disease and Parkinson Disease

Brescia (I)
September 2\textsuperscript{nd}/6\textsuperscript{th}, 2019
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
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 Geneve (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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Pietro Tiraboschi  IRCCS Istituto Neurologico Carlo Besta, Milan (Italy)
Marco Trabucchi  Associazione Italiana di Psicogeriatricia, Brescia (Italy)
Julia van der Zee  University of Antwerp (Belgium)
Annalena Venneri  University of Sheffield (United Kingdom)
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
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