

Summer School Brescia 2023

Brain health and neurodegeneration:
prevention strategies and disease modifying treatment



18–22 September 2023
Brescia

Faculty

Daniele Altomare	University of Brescia, Brescia, IT
Nicholas J.Ashton	University of Gothenborg, Sweden
Barbara Borroni	University of Brescia, Brescia, IT
Kathrin Brockmann	University of Tuebingen, Germany
Marco Canevelli.	University of La Sapienza, Rome, IT
Silvia dal Din	University of Newcastle, United Kingdom
Monica Di Luca	University of Milan, Milan, IT
Luigi Fontana.	University of Sydney, AUS
Silvia Giliani.....	University of Brescia, Brescia, IT
Alessandro Padovani.....	University of Brescia, Brescia, IT
Andrea Pilotto	University of Brescia, Brescia, IT
Enrico Premi	ASST Spedali Civili Brescia, Brescia, IT
Marc Suarez-Calvet	Barcelonabeta centre Barcelona, Spain
Nicola Veronese	University of Palermo, Palermo, IT

UNDER THE PATRONAGE OF



Rationale

Educational need:

Brain health is a challenging target for the ageing population. The new pharmacological and nonpharmacological interventions open a new era for intervention. The use of biomarkers for diagnostic and prognostic purposes in patients affected by neurodegenerative disease is challenging in clinical and research scenarios. New biofluid biomarkers enable the evaluation of neurodegeneration, glial activation, pathology processes and inflammatory pathways in the brain and could thus be used as target of newly developed disease-modifying therapies.

Course Description:

The Summer School "Biomarkers in neurodegenerative diseases from bench to bedside" is an opportunity for young neurologists and neuroscientists 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 visit biological laboratories using the different techniques and discuss them with international experts.

The purpose of the summer school is to provide a in depth-education course to international audience interested in neurodegenerative diseases. The specific learning Objectives are:

- understand the technical strengths and limitations of different techniques used for the assessment of biofluid markers;
- Evaluate the clinical use and implications for the use of biological markers in clinical and research scenarios;
- Understand the rationale and review the more recent evidences for biological markers assessment in new disease-modifying target therapies across neurodegenerative diseases.

Audience target:

Undergraduate and Graduate medical Doctor (Neurologist, Geriatrician, Psychiatrist)

Neuropsychologist

Biologist

Neuroscientist

Biotechnologist

Pharmacologist

Monday, September 18th 2023

5.00 pm-6.00 pm **OPENING CERIMONY**

5.00 pm **Introduction to Summer School**
"Defining Brain health an ageing society"
Alessandro Padovani *Brescia, Italy*

5.30 pm **The future of Brain health: new vision of neurodegenerative disorders**
Monica Di Luca *Milan, Italy*

6.00 pm **Welcome presentation**
(the students present themselves with a brief biographical sketchpad)

Tuesday, September 19th 2023

9.00 am-12.30 am

HOW TO ASSESS BRAIN HEALTH IN NORMAL AGEING AND DISEASE

9.00 am **Brain health evaluation**

Andrea Pilotto *Brescia, Italy*

9.45 am **Frailty and brain health**

Marco Canevelli, *Rome, Italy*

10.30 am **Brain Health services**

Daniele Altomare *Brescia, Italy*

11.15 am **Open discussion on previous topics**

12.30 am-1.30 pm **LUNCH**

BIOLOGICAL MARKERS AND NEW DETECTION SYSTEMS

1.30 pm **Methodology issues for biomarkers assays**

Silvia Giliani *Brescia, Italy*

2.30 pm-4.30 pm **HANDS ON- Lab
Lab evaluation**

Wednesday, September 20th 2023

AT-RISK POPULATIONS AND INTERVENTION TARGETS IN BRAIN HEALTH

9.00 am-12.30 am

RISK FACTORS AND PREVENTION STRATEGIES

9.00 am **Risk factors and at-risk population for neurodegenerative diseases**

Marc Suarez-Calvet *Barcellona, Spain*

9.45 am **The new revolution of plasma biomarkers for neurodegeneration**

Nicholas Ashton *Gothenburg*

10.30 am **Open discussion on previous topics**

12.30 am-1.30 pm **LUNCH**

NEW MARKERS IN BRAIN HEALTH

1.30 pm **Digital phenotyping in healthy ageing and neurodegeneration**

Silvia del Din *Newcastle, UK*

2.30 pm-4.30 pm **HANDS ON- LAB**

Lab sensory with mobile health technology, Q-motor and 3D cameras Plasma Biomarkers analyses (video)

Thursday, September 21st 2023

NON - PHARMACOLOGICAL INTERVENTIONS

9.00 am-12.30 am

LIFESTYLE INTERVENTIONS AND DEMENTIA

9.00 am **Prevention strategies in at-risk population**

Nicola Veronese *Palermo, Italy*

9.45 am **Nutritional modulation of health and longevity**

Luigi Fontana *Sydney, AUS*

10.30 am **Cognitive reserve and ageing**

Enrico Premi *Brescia, Italy*

11.15 am **Open discussion on previous topics**

12.30 pm-1.30 pm **LUNCH**

1.30 pm **New interventions in brain health**

Non-invasive brain stimulation and the electric brain

Alberto Benussi *Brescia, Italy*

2.30 pm-4.30 pm **HANDS ON- LAB**

tDCS and tACS

repetitive TMS (video)

Friday, September 22nd 2023

DISEASE-MODIFYING TREATMENTS

9.00 am-12.30 am

DISEASE-MODIFYING TREATMENTS ACROSS NEURODEGENERATION

9.00 am **The new revolution of Disease modifying treatment for Alzheimer's disease**
Alessandro Padovani *Brescia, Italy*

9.45 am **New avenue in treatment in frontotemporal dementia**
Barbara Borroni *Brescia, Italy*

10.30 am **Disease modifying treatment in alpha-synucleinopathies**
Kathrin Brockmann *Tuebingen, Germany*

11.15 am **Open discussion on previous topics**

12.30 pm **Conclusion**
Alessandro Padovani *Brescia, Italy*

General Information

VENUE

PALAZZO FRANCESCHETTI

CORTE FRANCA, BRESCIA

LOCAL SCIENTIFIC ORGANIZER

Prof. Alessandro Padovani

School of Neurology, University of Brescia

ORGANIZING SECRETARIAT

SienaCongress

Via del Rastrello, 7

53100 Siena

Tel. 0577 286003

e.mail: info@sienacongress.it

REGISTRATIONS

€ 550,00 (VAT 22% included)

Due to organizational reasons, all registrations should be processed within August 20th 2023.

Registration form:

<https://summerschoolbrescia2023.sienacongress.it/home.php>

Attendance Registration fee includes:

- Admittance to the Scientific Sessions
- Conference documents and Certificate of Attendance
- Catering service (coffee breaks and lunches)
- Accommodation in single room

€ 450,00 (VAT 22% included)

Due to organizational reasons, all registrations should be processed within August 20th 2023.

Registration form:

<https://summerschoolbrescia2023.sienacongress.it/home.php>

Attendance Registration fee includes:

- Admittance to the Scientific Sessions
- Conference documents and Certificate of Attendance
- Catering service (coffee breaks and lunches)
- Accommodation in double room

€ 300,00 (VAT 22% included)

(accommodation not included)

Attendance Registration fee includes:

- Admittance to the Scientific Sessions
- Conference documents and Certificate of Attendance
- Catering service (coffee breaks and lunches)

PAYMENT METHODS

Bank transfer

SienaCongress s.r.l. UNICREDIT Siena Via Tolomei

IBAN IT 31 M 02008 14205 000105006259

SWIFT code: UNCRITM1F50

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 NEUROBS 2023+participant's NAME/SURNAME". Copy of the transfer receipt must be sent by e.mail to info@sienacongress.it

FREE BURSARY APPLICATION

(applicati on deadline: Thursday August 6th, 2023)

Free bursary application is now available for European and extra-Europe participants: full registration in presence and accommodation will be awarded for participation in this event.

In order to apply for Free Bursary, please send an e-mail to the Organizers of the Summer School (info@sienacongress.it) including the following information:

- your complete Name and Surname
- your affiliation (name of the Institution and complete address)
- a short personal statement on how attendance at this Summer School will influence your professional practice
- a statement explaining the justification of funds
- your complete CV



Thanks to the unconditional contribution of



hvc Human Health Care