

# **Summer School Brescia 2024**

## **Brain health and neurodegeneration: Innovative screening and new intervention strategies**



**15-19 July 2024**  
**Brescia**

# Faculty

Claudio Bassetti .....	University of Bern, Switzerland
Francesco Benedetti .....	San Raffaele University, Milan, IT
Sofia Bonomelli .....	University of Brescia, IT
Roongroj Boodadhisiri .....	University of Bangkok, Thailand
Duilio Brugnoli .....	ASST Spedali Civili of Brescia, IT
Stefano Cappa .....	IUSS Pavia, IT
Emanuele Cereda.....	Fondazione IRCCS Pol. San Matteo Pavia, IT
Davide Chiasserini.....	University of Perugia, IT
Luca Cuffaro .....	University of Milano Bicocca, IT
Borja del Pozo Cruz.....	University of Cadiz, Spain
Monica Di Luca.....	University of Milan, IT
Alice Galli .....	University of Brescia, IT
Fabrizio Gardoni.....	University of Milan, IT
Roberto Gasparotti.....	University of Brescia, IT
Silvia Gilliani.....	University of Brescia, IT
Sabato Mellone.....	University of Bologna, IT
Anat Mirelman.....	University of Telaviv, Israel
Alessandro Padovani .....	University of Brescia, Brescia, IT
Andrea Pilotto .....	University of Brescia, Brescia, IT
Virginia Quaresima .....	ASST Spedali Civili of Brescia, IT
Andrea Rizzardi.....	University of Brescia, IT
Mario Rosanova .....	University of Milan, IT
Marc Suarez-Calvet.....	Barcelonabeta centre Barcelona, Spain
Matej Skovarnek.....	P.J. Safarik University in Kosice, Slovakia
Andrea Sturchio .....	Karolinska Institute, Sweden
Chiara Tolassi .....	University of Brescia, IT
Chiara Trasciatti.....	University of Brescia, IT

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# Rationale

## Educational need:

Brain health is a challenging target for the ageing population. The new pharmacological and non pharmacological interventions open a new era for intervention and use of biomarkers for diagnostic and prognostic purposes in the ageing population for assessing brain health. New digital markers and imaging technique evaluate mobility cognitive and brain function alterations within the normal ageing spectrum. Furthermore, 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 “Brain health and neurodegeneration: Innovative screening and new intervention strategies” 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 - Physiokinesis specialist - Sport medicine specialist

# Monday, July 15<sup>th</sup> 2024

5.00 pm-6.00 pm **OPENING CEREMONY**

5.00 pm **Introduction to Summer School  
“Brain Health are we there?”**

**Alessandro Padovani** *Brescia, Italy*

5.20 pm **Brain health and the Ageing Brain society**

**Claudio Bassetti** *Bern, Switzerland*

5.40 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, July 16<sup>th</sup> 2024

## *At-risk populations, frailty and blood biomarkers*

9.00 am-11.00 am

### **RISK FACTORS AND BIOLOGICAL MARKERS STRATEGIES**

9.00 am **New techniques and biomarkers in neurodegeneration**  
**Daive Chiasserini** *Perugia, Italy*

9.40 am **Plasma markers in at-risk population for neurodegenerative diseases**  
**Marc Suarez-Calvet** *Barcelona, Spain*

10.20 am **Biomarkers of Mood disorders**  
**Francesco Benedetti** *Milan, Italy*

11.00 am - 1.00 pm **How to do it?**  
**Small groups discussion and Lab- together with the faculty**  
**Develop Your own longitudinal at-risk project**

*Open Discussion, LAB presentation in plenary*

1.00 am-2.00 pm **LUNCH**

2.00 pm **At-risk populations beyond Alzheimer's disease**  
**Matej Skovarnek** *Kosice, Slovakia*

2.45 pm-6.00 pm **HANDS ON- LAB**

**Silvia Gilliani**, *Brescia, Italy*  
**Virginia Quaresima** *Brescia, Italy*  
**Chiara Tolassi**, *Brescia, Italy*  
**Preanalytic issues and pitfalls**

**Lab at ASST Spedali Civili Brescia in small groups**

# Wednesday, July 17<sup>th</sup> 2024

## INNOVATIVE TOOL FOR TRACKING BRAIN HEALTH

9.00 am-11.00 am

### DIGITAL ASSESSMENT IN AT-RISK POPULATION

9.00 am **Mobility tracking in at risk populations**  
Anat Mirelman *Telaviv, Israel*

9.40 am **Digital mobility interventions**  
Roongroj Boodadhisiri *Bangkok, Thailand*

10.20 am **Cognitive screening: are new digital tools the best way?**  
Stefano Cappa *Pavia, Italy*

11.00 am - 1.00 pm **How to do it?**  
**Small groups discussion and Lab- together with the faculty**  
**Develop Your own digital assessment**

*Open Discussion, LAB presentation in plenary*

1.00 pm - 2.00 pm **LUNCH**

2.00 pm **The future of digital device in medicine**  
Sabato Mellone *Bologna, Italy*

2.45 pm-6.00 pm **HANDS ON- LAB**  
**Mobility digital lab**

**Cognitive digital lab**

**Unsupervised assessment**



# Thursday, July 18<sup>th</sup> 2024

## NON - PHARMACOLOGICAL INTERVENTIONS

9.00 am-11.00 am

### LIFESTYLE INTERVENTIONS

9.00 am **Nutrition lifestyles and interventions in healthy ageing**  
**Emanuele Cereda** *Pavia, Italy*

9.40 am **Brain Health services**  
**Luca Cuffaro** *Milan, Italy*

10.20 am **Neurophysiology-based interventions in brain health**  
**Mario Rosanova** *Milan, Italy*

11.00 am - 1.00 pm **How to do it?**

**Small groups discussion and Lab- together with the faculty**  
**Develop Your own non-pharmacological intervention**

*Open Discussion, LAB presentation in plenary*

1.00 pm-2.00 pm **LUNCH**

2.00 pm **Rehabilitation, physical activity and prevention**  
**Borja del Pozo Cruz** *Cadiz, Spain*

2.45 pm-6.00 pm **HANDS ON- LAB**  
**Transcranial magnetic stimulation**  
**tDCS**  
**Digital tool for physical activity activation**



# Friday, July 19<sup>th</sup> 2024

## DISEASE-MODIFYING TREATMENTS

9.00 am-11.00 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 models for treatment in neurodegeneration**  
*Fabrizio Gardoni Milan, Italy*

10.30 am **Disease modifying treatment in alpha-synucleinopathies**  
*Andrea Sturchio Karolinska, Sweden*

11.00 am - 1.00 pm **How to do it?**

**Small groups discussion and Lab- together with the faculty  
Develop Your own pharmacological intervention Unit**

*Open Discussion, LAB presentation in plenary*

1.00 pm-2.00 pm **LUNCH**

2.00 pm-5.00 pm **HANDS ON- LAB**

**Clinical management and diagnosis in at risk populations**

**Active discussion of simulated cases in different scenarios**

5.00 pm **Concluding remarks**

*Alessandro Padovani Brescia, Italy  
Andrea Pilotto Brescia, Italy*

# General Information

## VENUE

COLLEGIO UNIVERSITARIO DI MERITO L. Lucchini

Via Valotti, 3C/D

25123 BRESCIA

## LOCAL SCIENTIFIC ORGANIZER

Alessandro Padovani and Andrea Pilotto

Brain Health Center, University of Brescia

## ORGANIZING SECRETARIAT

SienaCongress

Via del Rastrello, 7

53100 Siena

Tel. 0577 286003

e.mail: [info@sienacongress.it](mailto:info@sienacongress.it)

## REGISTRATIONS

**€ 500,00 (VAT 22% included)**

Attendance Registration fee includes:

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

Registration deadline 9<sup>th</sup> July 2024

Registration link <https://summerschoolbrescia2024.sienacongress.it/home.php>

## 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 2024+participant’s NAME/SURNAME”. Copy of the transfer receipt must be sent by e.mail to [info@sienacongress.it](mailto:info@sienacongress.it)

## FREE BURSARY APPLICATION

(application deadline: July 5<sup>th</sup>, 2024)

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](mailto: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

WEB SITE <https://neurobssummerschool.it/>

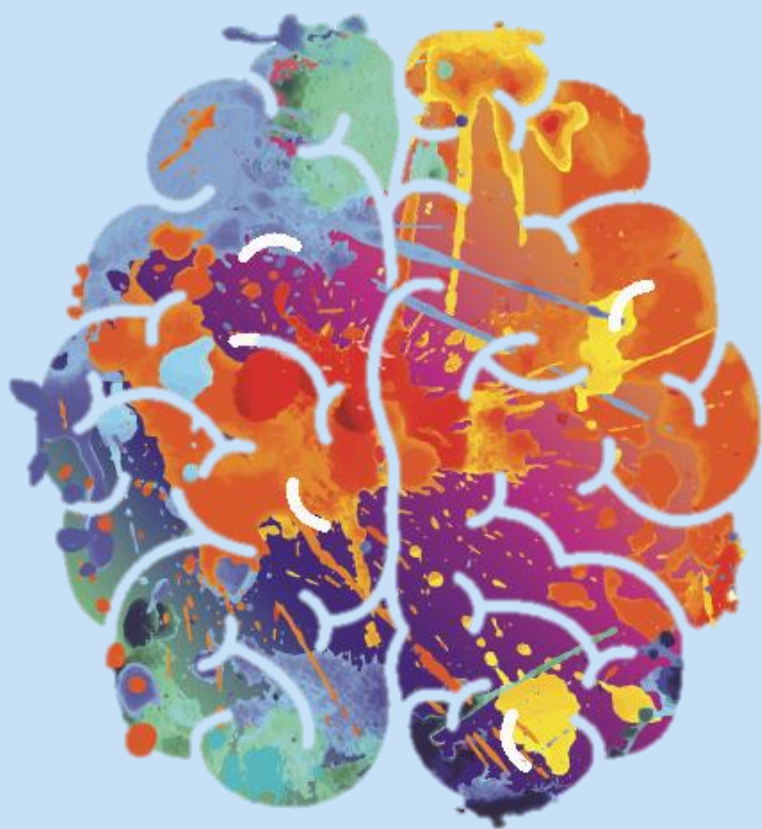
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