Sixth International Meeting

Brain Health and prevention of cognitive decline

Today's challenges for a brighter Tomorrow

Milan, October 23-25, 2024

University of Milano-Bicocca Piazza dell'Ateneo Nuovo, 1

Neuroscience Research Centers of the Large Milan Area:

- University of Milano-Bicocca
- University of Milan
- University Vita-Salute San Raffaele
- Humanitas University
- University of Pavia
- Istituto Universitario di Studi Superiori, Pavia
- Fondazione IRCCS San Gerardo dei Tintori
- Fondazione IRCCS Istituto Neurologico Carlo Besta
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- Fondazione IRCCS Mario Negri
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- Fondazione IRCCS Humanitas
- Fondazione IRCCS San Raffaele
- Fondazione IRCCS Istituto Auxologico
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According to the 2022 **WHO position paper,** Brain Health can be defined as *"the state of brain functioning across cognitive, sensory, social-emotional, behavioral and motor domains, allowing a person to realize their full potential over their life course, irrespective of the presence or absence of disorders".*

The EAN Brain Health Strategy - *'one brain, one life, one approach'* - aims to develop a holistic approach to brain health that benefits society not just through a decreased healthcare burden due to neurological disorders, but through improved quality of life and productivity throughout an individual's life course. The EAN's vision is of a future in which individuals, populations, clinicians, and policymakers understand the benefits of good Brain Health and have the information and opportunities to preserve and recover Brain Health.

With **worldwide aging populations**, the burden of neurological diseases is increasing and represents a major cost for society. **Dementia has the highest impact**, with a prevalence expected to triplicate within 2050, up to 130 million worldwide, with the highest increase in developing countries.

Research showed us that **molecular mechanisms** leading to neurodegenerative disorders and dementia start decades before clinical onset and we have now available **biomarkers** revealing ongoing pathological processes before their clinical manifestations.

Moreover, **new disease-modifying drugs** and **multidomain intervention strategies** have been shown to have an impact on the progression of molecular mechanisms, on clinical course, and on the **prevention of cognitive decline**. However, implementation of such strategies requires a big effort from the scientific community, health systems, and policymakers.

Past COVID pandemic, the highest amount of money ever delivered from the European Community through the **Next Generation EU funding**, might shape our future if appropriately targeted to these ambitious goals. The Italian *"Programma Nazionale di Ripresa e Resilienza"* (**PNRR**) devoted a large amount of this European financing to **collaborative strategic plans** involving partnerships from Academia, Research Centers, and Public and Private Companies to address this **big challenge**.

On its tenth anniversary in 2024, the **Milan Center for Neuroscience (NeuroMI)** aims to devote its sixth **international meeting** to these themes and to gather top scientists involved in basic, clinical, and applied research to address these themes and **promote synergies and collaborations** to work together toward this ambitious goal.

Wednesday 23 October

14:00 - Welcome and opening
Carlo Ferrarese, Scientific Director, NeuroMI
Giovanna Iannantuoni, Rector, University of Milano-Bicocca
Cristina Messa, Former Rector and Ministry of University and Research

14:30 Lecture: The mission for brain health (Matilde Leonardi, Milan)
Chair: Elena Moro, Grenoble (President, European Academy of Neurology)

Aging, brain damage, and brain resilience

Mechanisms of brain damage and brain aging
Chairs: Michela Matteoli and Gianluigi Forloni

15:00 Molecular mechanisms of senescence
    (Fabrizio D'Adda di Fagagna, Milan, Pavia)

15:20 Protein misfolding and synaptic dysfunction in brain disorders
    (Fabrizio Gardoni, Milan)

15:40 Vascular risk factors (Leonardo Pantoni, Milan)

16:00 Neuroinflammation (Mario Clerici, Milan)

16:20 Aging and Frailty (Giuseppe Bellelli, Milan)

16:40 Discussion

16:50 Coffee Break

Brain Plasticity and Brain Resilience
Chairs: Nadia Bolognini and Mario Rosanova

17:30 Mechanisms of Induced Brain Plasticity (Carlo Miniussi, Trento)

17:50 Cognitive Stimulation (Andrea Brioschi Guevara, Losanna)

18:10 Non invasive Brain Stimulation (Alberto Benussi, Trieste)

18:30 Physical activity and gut-muscle-brain interplay (Giuseppe D'Antona, Pavia)

18:50 Discussion

19:00 Oral communications

Session: Mechanisms of brain damage and brain aging - Brain Plasticity and Brain Resilience

Chairs: Bice Chini and Annamaria Colangelo

19:00 **Exploring the biopsychosocial determinants of resilience in aging: a multidimensional approach on a population-based sample of oldest-old (80+)** (Elena Rolandi, Abbiategrasso)

19:10 **Heat Stress and Neurological Damage: Analysis of Neuro-Glial Damage Biomarkers** (Domenico Plantone, Siena)

19:20 **Protective/resilience Factors in the non-progressive MCI population of the Interceptor Project** (Naike Caraglia, Rome)

19:30 **Lecture: Tracing Alzheimer's origin in human evolution**
(Emiliano Bruner, Burgos)
Chair: Lucio Tremolizzo

Thursday 24 October

The diagnostic revolution: towards preclinical diagnosis

Imaging Biomarkers

Chairs: Eraldo Paulesu and Rosa Maria Moresco

9:00 **Structural Imaging biomarkers** (Federica Agosta, Milan)

9:20 **Functional NMR biomarkers** (Marco Bozzali, Turin)

9:40 **PET molecular diagnostic for cognitive decline** (Daniela Perani, Milan)

10:00 **What does EEG tell us about Alzheimer's disease?** (Claudio Babiloni, Rome)

10:20 **Discussion**

10:30 **Oral communications**
Session: Imaging Biomarkers

Chairs: Gianpaolo Basso and Carlo Reverberi

10:30 **Personalized virtual brain modelling unveils hidden molecular mechanisms regulating networks dynamics with cognitive impairment progression** (Anita Monteverdi, Pavia)

10:40 **The clinical utility of measuring brain volume changes in young people with cognitive complaints** (Chiara Carbone, Modena)

10:50 **Visual perception and occipital hypometabolism characterizing PD carrying GBA1 mutations** (Rosaria Calabrese, Pavia)

11:00 Coffee Break

Fluid biomarkers

Chairs: Fabrizio Tagliavini and Marina Saresella

11:30 **Cerebrospinal fluid biomarkers** (Argonde van Harten, Amsterdam)

11:50 **Blood biomarkers** (Marc Suarez-Calvet, Barcellona)

12:10 **Multivariate biomarkers for MCI** (Genni Desiato, Milan)

12:30 **Emerging biomarkers** (Daniela Galimberti, Milan)

12:50 **Discussion**

13:00 Oral communications
Session: Fluid biomarkers
Chairs: Benedetta Nacmias and Lucio Tremolizzo

13:00 Blood biomarkers of alzheimer's disease and 12-year muscle strength trajectories in community-dwelling older adults (Alice Margherita Ornago, Monza)

13:10 A two-step method for Alzheimer's disease plasma diagnosis in real-life setting (Chiara Trasciatti, Brescia)

13:20 Real-world single-center performance of core blood biomarkers of Alzheimer's disease (Elisa Conti, Monza)

13:30 Lunch and Posters Session
Chairs: Luca Cuffaro (Milan), Francesca Gasparini (Milan), Valeria Isella (Milan), Rosa Maria Moresco (Milan), Francesca Re (Milan), Carlo Reverberi (Milan), Daniele Romano (Milan), Gessica Sala (Milan), Arianna Scuteri (Milan)

The role of Neuropsychology and Behavioral assessment
Chairs: Gabriella Bottini and Stefano Cappa

14:50 Definition of SCD and MCI (Gonzalo Sánchez-Benavides, Barcelona)

15:10 Predictive neuropsychological markers (Stéphanie Bombois, Paris)

15:30 Cognitive impairment and behavioral alterations (Chiara Cerami, Pavia)

15:50 Telemedicine and new predictive tests (Camillo Marra, Rome)

16:10 Discussion

16:20 Oral communications
Session: Neuropsychology and Behavioral assessment
Chairs: Valeria Isella and Daniele Romano

16:20 Maintaining cognitive functions in physiological aging: The role of cognitive reserve, physical activity, dietary habits and sleep (Giulia Scotti, Urbino)

16:30 Divergent Network Trajectories in MCI: Converters vs. Non-Converters to Alzheimer's Disease (Giorgia Tosi, Milan)

16:40 How the motor system copes with aging: a quantitative meta-analysis of the effect of aging on motor function control (Laura Zapparoli, Milan)

16:50 Coffee Break

Early diagnosis and patient journey
Chairs: Massimo Filippi and Vincenzo Silani

17:10 **Brain Health services and Memory Clinics** (Giovanni Frisoni, Geneva)

17:30 **Methods of Prevention** (Sandrine Andrieu, Toulouse)

17:50 **Indications for new treatments in SCD and MCI**
(Sebastiaan Engelborghs, Brussels)

18:10 **Ethical issues** (Daniela Ovadia, Pavia)

18:30 **Discussion**

18:40 Oral communications
Session: Early diagnosis and patient journey
Chairs: Ildebrando Appollonio and Valentina Bessi

18:40 **Monza Brain Health Service: protocol and cohort characteristics**
(Federico Emanuele Pozzi, Monza)

18:50 **Biological and clinical profiling identifies four different subtypes in early Parkinson's disease** (Rachele Malito, Pavia)

Friday 25 October

New Avenues for Prevention

Strategies of prevention and new treatments
Chairs: Carlo Ferrarese and Sandro Sorbi

9:00 Monoclonal antibodies: a new opportunity (Alessandro Padovani, Brescia)

9:20 Nutritional approaches to prevent cognitive decline: the mysterious case of dietary polyphenols (Daniele Del Rio, Parma)

9:40 Multidomain Interventions and WorldWide Fingers (Francesca Mangialasche, Stockholm)

10:00 Emerging new targets and drugs (Ferdinando Nicoletti, Rome)

10:20 Discussion

10:30 Coffee Break

Prevention from a societal perspective: new issues to target
Chairs: Monica Di Luca and Guido Bellomo

11:00 The role of vaccinations for brain health (Stefania Maggi, Padua)

11:20 The contribution of European Brain Council in engaging global brain health (Frederic Destrebecq, Brussels)

11:40 Brain Health in migrants (Marco Canevelli, Rome)

12:00 Global synergistic actions to improve brain health (Mayowa Owolabi, Ibadan)

12:20 Discussion

12:40 Oral Communications
Session: Strategies of prevention and new treatments
Chairs: Massimo Clerici and Carolina Lombardi

12:40 Universal prevention of dementia in Italy: A document analysis of the 21 Italian Regional Prevention Plans (Simone Salemme, Modena)

12:50 A Stable Micellar Formulation of RADOO1 for Intracerebroventricular or Intranasal Delivery in the Treatment of Alzheimer's Disease and Other Neurological Disorders (Diego Dolcetta, Vicenza)

13:00 Subjective Cognitive Decline: a new screening tool (MASCoD) and a technological cognitive training based on risk levels of developing cognitive decline (Annalisa Magnani, Montescano)

13:00 Lunch and Posters Session
Chairs: Luca Cuffaro (Milan), Francesca Gasparini (Milan), Valeria Isella (Milan), Rosa Maria Moresco (Milan), Francesca Re (Milan), Carlo Reverberi (Milan), Daniele Romano (Milan), Gessica Sala (Milan), Arianna Scuteri (Milan)

WORKSHOP

Next Generation EU: shaping the future for Brain Health

Chairs: Guido Cavaletti and Cristina Messa

14:30 **Mnesys Project** (Silvia Caminiti, Pavia)

14:50 **AGE-IT Project** (Luca Cuffaro, Milan)

15:10 **FIT4MEDROB Project** (Franco Molteni, Costa Masnaga)

15:30 **Anthem Project** (Guido Cavaletti, Monza)

15:50 **Heal Italia Project** (Francesca Granucci, Milan)

16:10 **Round Table: Challenges and Synergies among National Recovery and Resilience Plan (NRRP) programs**

16:30 Meeting Closure and Awards for best Posters

Thursday 24 October - Friday 25 October

Session: Brain Plasticity and Brain Resilience

1. **Combining human cortical organoids and CRISPR-Cas9 editing to explore the roles of the transcription factor FOXP1 in brain disease**
   Sara Elisabetta Barilà, C. Riccardi, V. Krenn (Milan)

2. **Investigating neuroplasticity mechanisms of the sensory-motor system: implementation of a fMRI paradigm for hand action observation and execution systems**
   Monia Cabinio, V. Blasi, D. Cacciatore, L. Fornia, A. Pirastru, S. Savazzi, F. Vecchio, F. Baglio (Milan, Verona, Rome)

3. **Towards the generation of NeuroImmune Assembloids for the study of brain disorders**
   Anna Cascio, S. Giussani, G. Protti, J. Kopic, Z. Krsnik, O. Harschnitz, V. Krenn (Milano, Zagreb)

4. **Post stroke cognitive impairment: a randomized trial on the efficacy of telerehabilitation. Cips-ter study: rationale, design and methodology**
   Arianna Cavaliere, B. Formelli , E. Barucci, F. Cecchi, C. Polito, G. Lombardi, M. Baldareschi, A. Di Carlo, E. Salvadori, A. Poggesi (Florence, Milan)

5. **Sex-dependent hippocampal dendrite remodeling in a model of traumatic stress susceptibility/resilience**
   Mattia Giovenzana, L. Musazzi, S. Torrisi, S. Rizzo, J. Mingardi, F. Drago, G. Leggio (Monza, Catania)

6. **Proving the efficacy of a novel visuomotor paired associative stimulation protocol in post-stroke patients**
   Giacomo Guidali, M. Picardi, A. Caronni, V. Rota, S. Scarano, M. Corbo, N. Bolognini (Milan)

7. **Functionalized liposomes for automated fluorine**
   Marcelo Kravicz (Monza)

8. **Assessing cognitive functioning in myasthenia gravis: a cohort study in a third-level italian center**
   Alessia Marcassoli, M. Lanza, A. Raggi, A. Fornari, M. Leonardi, S. Mondini, S. Bonanno, R.E. Mantegazza, C. G. Antozzi, F. Vanoli, L. Maggi, R. Frangiamore (Milan, Padua)

9. **Rewiring the aging brain: the impact of rTMS on cognitive functions and mood**
   Sara Palermo, M. Stanziano, A. Nigri, G. Demichelis, B. Gregoric, C. Di Fazio (Turin, Milan)

10. **Pcdh19 deletion in PV neurons is associated with altered social cognition and neuronal functions**
    Sara Riccardi, S. Riccardi, A. Zippo, D. Laurenti, L. Cingolani, L. Murru, M. Passafaro (Vedano al Lambro, Trieste)

11. **Visual and motor function modulation by transcranial direct current stimulation and voluntary wheel running in cuprizone demyelination**
Elena Rossi, S. Marenna, V. Castoldi, G. Comi, L. Leocani (Milan)

12. **Cognitive Reserve and its subcomponents in People with Parkinson's Disease: possible effects on cognitive domains**
Anna Salvatore, S. Di Tella, S. Gobbo, P. Arcuri, S. Feroldi, A. Castagna, E. Farina, M. Alberoni, E. Calabrese, J. Navarro, M. Meloni, F. Saibene (Milan, Cagliari)

13. **Neurophysiological markers of cognitive impairment in MS: Event-Related Potentials to the Symbol Digit Modalities Test**
Marta Tacchini, Marta Tacchini, Giulia Gamberini, Chiara Rossi, Michelangelo Dini, Jeroen Van Schependom, Guy Nagels, Giancarlo Comi, Letizia Leocani (Milan, Brussels, Oxford)

14. **Trehalose impact on the central nervous system: trick or treat?**
Barbara Tomasicchio, D. Camazzola, S. Serrao, A. Esposito, E. Battocchio, F. Prestori, D. Di Domenico , G. Martano, G. Paglia, F. Guarnieri, L. Murru (Vedano Lombardo, Pavia)

15. **Assessing the consequences of AMPARs defective transport in an AP4 deficiency mouse model**
Benedetta Valentino, E. Moretto, F. Guarnieri, M. Passafaro (Milan, Vedano al Lambro)

Session: Early diagnosis and patient journey

16. **Improving EEG signal quality: a deep learning frequency-based approach for noise reduction**
Matteo Gabardi, A. Saibene, F. Gasparini, D. Rizzo, F. Stella (Milan)

17. **Rehabilitation of cognitive symptoms in patients with Parkinson's disease: a systematic review**
Francesca Lea Saibene, M. Gattoni, S. Gobbo, A. Salvatore, S. Feroldi, J. Navarro, S. Sorbi (Milan, Florence)

Session: Fluid biomarkers

18. **Blood phosphorylated Tau181 reliably differentiates amyloid-positive from amyloid-negative patients in the Alzheimer's disease continuum**
Annibale Antonioni, Raho, L. Manzoli, G. Koch, M. Flacco, F. Di Lorenzo (Ferrara, Rome)

19. **ß-blockers that easily cross the blood-brain barrier are related to lower amyloid pathology in non-demented individuals**
Mariateresa Buongiorno, G. Sanchez-Benavides, D. Giraldo-Salazar, A. Palasì, O. Maisterra, A. Ballvè P. Delgado-Martì-nez (Barcelona)

20. **Serum and cerebrospinal fluid NfL measurement in neurodegenerative dementias: identification of age-related cut-offs**
Reisa Bushaj, C. Gallingani, R. Maramotti, R. Bedin, C. Carbone, A. Chiari, M. Tondelli, G. Zamboni (Modena)

21. **Complete blood count-based inflammation indexes and symptom severity in people with schizophrenia spectrum disorders: an analysis based on structural equation modelling**
Daniele Cavaleri, A. De Pietra, M. Gazzola, C. Crocamo, F. Bartoli, G. Carrà (Monza)

22. **Discriminative Accuracy of Plasma pTau-217 Assessed by Automated Lumipulse G6OOII Across CSF Biomarker Profiles in Alzheimer's Disease**
Giordano Cecchetti (Milan)

23. **The role of cerebrospinal fluid tau protein in the differential diagnosis of Creutzfeldt-Jakob disease: diagnostic accuracy and cut-off values in the experience of a Center for Neurodegenerative diseases**
Sara Corsi, E. Bergamin, M. Del Chicca, L. Petrozzi, V. Nicoletti, L. Giampietri, G. Siciliano, R. Ceravolo, G. Tognoni, G. Siciliano, F. Baldacci (Pisa)

24. **Effects of an intensive multidisciplinary rehabilitative treatment on biomolecular and clinical outcomes in Parkinson's Disease: preliminary results**
Sarah Feroldi, F. Saibene, A. Salvatore, S. Gobbo, F. Merlo, A. Castagna, E. Farina, M. Alberoni, E. Calabrese, T. Bowman, D. Anastasi, D. Cattaneo, C. Agliardi, C. Arienti, F. Guerini, M. Saresella, M. Clerici, J. Navarro, P. Arcuri, M. Melon (Milan, Cagliari)

25. **Raised CSF anti-Aß autoantibodies and sTREM2 after COVID-19 vaccination in iatrogenic CAA-ri supported by ARIA-E**
Elena Grisafi, D. Lucia, F. Piazza, F. Guzzi, M. Zedde, A. Cagnin (Monza, Padova, Reggio Emilia)

26. **Investigation of Long Non-coding (lnc)-RNA expression profiles in patients with Parkinson's Disease post-Rehabilitation treatment**
Francesca La Rosa, I. Marventano, A. Hernis, F. Piancone, F. Saibene, A. Salvatore, A. Castagna, J. Navarro, P. Arcuri, M. Meloni, M. Saresella, M. Clerici (Milan, Cagliari)

27. **Analytical Validation of a Robust pre-Industrial Prototype Assay for Anti-Aß Autoantibody Biomarkers of CAA-ri and ARIA-E in Immunotherapy Trials and Real-Clinical Practice**
Davide Donato Lucia, E. Grisafi, F. Guzzi, L. Antolini, M. Zedde, G. Basso, F. Piazza (Monza, Reggio Emilia)

28. **Comparison of serum and cerebrospinal fluid neurofilament light chain concentrations measured by Ella and Lumipulse in patients with cognitive impairment**
Riccardo Maramotti, T. Urbano, M. Tondelli, C. Gallingani, C. Carbone, N. Iacovino, G. Vinceti, G. Zamboni, A. Chiari, R. Bedin (Modena, Reggio Emilia)

29. **Irisin and frailty: a possible anti-inflammatory role in the modulation of the inflammasome**
Ivana Marventano, F. La Rosa, A. Hernis, F. Piancone, V. Blasi, S. Isernia, F. Baglio, M. Saresella, M. Clerici (Milan)

30. **Biomarkers of neural integrity and igg3 allotypes influence neurodegeneration in Alzheimer's Disease**
Riccardo Nuzzi, R. Mancuso, F. Baglio, S. Agostini, F. Guerini, M. Cabinio, S. Isernia, M. Clerici, J. Pandey (Milan, Charleston, South Carolina)

31. **3D printed microneedle wearable immunosensor for real-time monitoring of neurological disorders**
Marco Piazzoni, E. Mantoan, M. Canciani, S. Vichi2, S. Sanguinetti, G. Cavaletti, F. Nicotra, L. Russo (Milan, Monza, Galway-IE)

32. **Blood biomarkers of Alzheimer's disease and decline in cognitive and motor functions: a 15-year long population study**
Elena Pinardi, A. Ornago, G. Grande, M. Valletta, D. Rizzuto, C. Fredolini, M. Dale, E. Laukka, P. Mecocci, B. Winblad, L. Fratiglioni, G. Bellelli, D. Vetrano (Milan, Stockholm, Solna, Perugia)

33. **Cardiovascular risk factor and prodromal neurodegenerative symptoms in ageing: The Role of Plasma Biomarkers in risk profiling**
Carlo Saccaro, A. Pilotto, M. Bugada, C. Tolassi, A. Galli, A. Rizzardi, C. Trasciatti, I. Girotto, A.Padovani (Palermo, Brescia, Bergamo)

34. **The contribution of blood biomarkers in assessing the effect of multidomain interventions on the prevention of cognitive and functional decline in community-dwelling older adults participating in the IN-TEMPO study**
Gessica Sala, A. De Luca, S. Andreoni, C. Bazzini, E. Conti, C. Paola Zoia, L. Cuffaro, F. E. Pozzi, L. Tremolizzo, R. Lenti, P. Mantuano, M. Pia Longhese, C. Airoldi, A. Natalello, I. Orlandi, F. Chiaradonna, S. Capone, A. Aloisi, C. Ferrarese (Monza, Bari, Milan, Lecce)

35. **Metabolomic Investigation Of The Effects Of Alzheimer's Molecular Stressors On Neuroblastoma' Cells**
Leonardo Tenori, A. Vignoli, L. Neri, A. Bigi, F. Chiti (Florence)

36. **The impact of single or multicomponent interventions on changes in plasma biomarkers: a systematic review and meta-analyses**
Alina Tratsevich, M. Franchi, M. Ferrara, L. Cuffaro, F. Pozzi, C. Bazzini, G. Sala, C. Okoye, G. Bellelli, C. Ferrarese, A. Zambon (Milan)

37. **Metabolomics in age-related diseases: studying Alzheimer's disease via a serum omic NMR-based approach**
Alessia Vignoli, G. Bellomo, F. Paolini Paoletti, C. Luchinat, L. Parnetti, L. Tenori (Florence, Perugia)

Session: Mechanisms of brain damage and brain aging

38. **TRPV1 channel: an active player in heating-induced neurodifferentiation?**
Angela Allegretto, M. Mariani, A. Metallo, M. Rocchetti, M. Collini, M. Lecchi (Milan)

39. **From monocytes to monocytes-derived microglia cells: a personalised cell model to investigate molecular strategies and drug treatments in Alzheimer's Disease patients**
Chiara Bazzini, G. Sala, E. Conti, S. Andreoni, F. Da Re, L. Tremolizzo, F. La Rosa, M. Saresella, S. Sesana, F. Re, C. Ferrarese, C. Zoia (Monza, Milan)

40. **Deubiquitinating enzymes as a Therapeutic Targets in Amyotrophic Lateral Sclerosis**
Alice Campana, R. Nicsanu, M. Zilocchi, L. Pertesana, C. Giglio, S. Lombardi, E. Citterio, S. Barabino (Milan)

41. **A biophysical connection for dementia, vertigo and dyscalculia. Untying the Neurosemiotic Knot**
Massimo Cerizza (Monza)

42. **Amyloid beta 42 oligomers clearance by peripheral monocytes: effect of Donepezil on non-neuronal cholinergic system**
Elisa Conti, V. Rodriguez-Menendez, M. Mauri, S. Andreoni, S. Andreoni, C. Bazzini, G. Sala, C. Zoia, F. Da Re, R. Benfante, R. Benfante, I. Appollonio, C. Ferrarese, L. Tremolizzo (Monza, Vedano al Lambro, Milan)

43. **Harnessing MSC-EVs: Innovative Approaches to Address Neurodevelopmental Disorders**
Genni Desiato, C. Elia, M. Grisetti, M. Bettucci, D. Ficarra, I. Corradini, M. L. Malosio, M. Matteoli, D. Pozzi, S Coco (Rozzano, Milan, Monza)

44. **The role of the potential neuroprotective Ambroxol drug in the molecular catabolic pathways of alpha-synuclein in Parkinson's Disease**
Desirée Ficarra, M. Robutti, I. Rivolta, C. Ferrarese, G. Sala (Monza)

45. **Interactions Between Insulin Resistance, APOE Genotype, and Blood-Brain Barrier Integrity in Alzheimer's Disease**
Alice Galli, A. Padovani, E. Bazzoli, C. Tolassi, S. Caratozzolo, A. Benussi, I. Libri, S. Genovese, A. Pilotto (Brescia, Desenzano del Garda, Milan)

46. **The Role of Cognitive Reserve on Motor Deficits in Parkinson Disease**
Giulia Gilardone, A. Mannino, M. Picardi, S. Guzzetti, F. Pesce, V. Ginex, M. Corbo (Milan)

47. **Pathways of neuroinflammation in models of brain disorders: from the periphery to the brain.**
Claudio Gioia, G. Sala, P. Bertolazzi, C. Ferrarese, A. Colangelo (Milan, Monza, Rome)

48. **Personality structure in healthy aging**
Silvia Gobbo, D. Romano (Milan)

49. **Modulation of dopaminergic neurons by orexins: implications for narcolepsy with cataplexy**
Laura Clara Grandi, F. Gullo, A. Vassalli, A. Becchetti (Milan, Lausanne-CH)

50. **Male sex accelerates cognitive decline in GBA1 Parkinson's Disease**
Rachele Malito, S. P Caminiti, M. Avenali, A. Galli, G. Cuconato, C. Galandra, R. Calabrese, A. Pilotto, A. Padovani, F. Blandini, D. Perani, C. Tassorelli, E. M Valente (Pavia, Brescia, Milan)

51. **A Dialogue between Formalization and Data: Neurological Disease as the Action of a Mathematical Operator**
Maria Mannone, P. Ribino, F. Gasparini, P. Fazio, N. Marwan (Palermo, Milan, Venezia, Potsdam-DE)

52. **Oxytocin and Dopamine interaction in the cerebellum: implications for social behavior regulation and new therapeutic perspectives**
Francesca Piacentini, M. Pontearso, B. Chini, G. Grasselli, M. Busnelli (Vedano al Lambro, Genova)

53. **The neural basis of self-awareness in the present and in the past**
Federica Torrenti, D. Ballotta, R. Maramotti, C. Carbone, N. Jacovino, M. Tondelli, G. Zamboni (Modena, Reggio Emilia)

54. **The interplay of Synaptic dysfunction, Neuronal, Glial and Inflammatory alterations in Alzheimer's disease**
Chiara Trasciatti (Brescia)

55. **Unraveling the interplay between DNA damage response and mitochondrial dysfunction: dissecting a vicious cycle**
Mara Zilocchi, A. Campana, R. Nicsanu, L. Pertesana, C. Giglio, S. Lombardi, S. Barabino (Milan)

56. **The contribution of bright light stimuli in the mouse hypothalamic network over the sleep-wake cycle disruption**
Antonio Giuliano Zippo, A. Sacchini, I. Corti, S. Morara, R. Storchi, T. Brown, E. Donà, A. Zippo (Vedano al Lambro, Manchester-UK)

57. **Diet and intestinal inflammation affect brain functions and neuroinflammation in mice**
Antonio Giuliano Zippo, I. Corti, S. Ben Aouicha, M. Sala, S. Morara (Vedano al Lambro)

Session: Imaging Biomarkers

58. **Identification of prodromal Parkinson's Disease markers using an integrated imaging approach in the Syn12O transgenic mouse**
Sara Belloli, G. Faustini, M. Tassan Mazzocco, S. Magnino, A. Comelli, A. Stefano, V. Benfante, A. Bellucci, R. M. Moresco (Segrate, Milan, Brescia, Monza, Palermo)

59. **Searching for cognitive and neural biomarkers of Developmental Dyslexia: a longitudinal study on children with familial risk**
Desirè Carioti, G. Loca, C. Parisi, E. Corigliano, G. Basso, F. Arosio, N. Stucchi, M. Guasti, P. Della Rosa, M. Berligeri, M. Tettamanti (Milan)3

60. **Serendipitous neuromodulatory effect of sonodynamic therapy: a global signal analysis approach**
Letizia Clementi, M. Stanziano, L. Bonosi, M. Cacciatore, M. Grisoli, E. Ciceri, M. Leonardi, F. Di Meco, F. Prada (Milan)

61. **Diabetes impact on nigrostriatal vulnerability in Parkinson's Disease**
Alice Galli, C. Zatti, A. Lupini, S. P. Caminiti, E. Premi; C. Tirloni, S. Lucchini, F. Bertagna; B. Paghera; A. Padovani, A. Pilotto (Brescia, Pavia)

62. **Brain hypometabolism and clinical features of GBA individuals**
Luca Gallo, M. Malito, R. Calabrese, C. Pasquini, P. Mitrotti, A. Panzacchi, C. Galandra, M. Todisco, M. Picascia, D. Perani, E. M Valente, C. Tassorelli, S. P Caminiti, M. Avenali (Pavia, Milan)

Session: Neuropsychology and Behavioral assessment

63. **Clinimetrics of the Italian version of the Telephone Interview for Cognitive Status (TICS) in MCI and dementia due to neurodegenerative etiologies**
Edoardo Nicolò Aiello, B. Curti, G. De Luca, F. Verde, A. Maranzano, C. Morelli, C. Curatoli, A. Zanin, E. Camporeale, A. Gnesa, A. Menichelli, T. Cattaruzza, P. Manganotti, V. Silani, N. Ticozzi, B. Poletti (Milan, Trieste)

64. **Prevalence and correlates of the head turning sign in MCI and dementia due to neurodegenerative, chronic cerebrovascular and mixed etiologies**
Edoardo Nicolò Aiello, B. Curti, G. De Luca, M. Trombi, A. Maranzano, B. Poletti, V. Silani, N. Ticozzi, F. Verde (Milan)

65. **Behavioral disturbances in Primary Progressive Aphasia: a longitudinal comparative pilot study**
Enrico Bergamin, V. Nicoletti, S. Cintoli, M. Del Chicca, F. Petrini, G. Siciliano, G. Tognoni (Pisa)

66. **Predictors of cognitive improvement in people with multiple sclerosis following cognitive rehabilitation: an analysis of demographic and clinical variables**
Angela Boschetti, G. Gamberini, M. Dini, M. Rodegher, A. Gradassi, G. Comi, L. Leocani (Milan)

67. **How cognitive and psychological outcome evaluation in neurosurgery can improve brain health**
Giorgia Camarda, M. Leonardi, S. Schiavolin, M. Moretti, R. Terragni, M. Broggi, P. Ferroli (Milan)

68. **Longitudinal clustering on electronic mental health records reveals meaningful groups of disease trajectories**
Davide Chicco, P. Ribino, C. Di Napoli, G. Paragliola, F. Gasparini (Milan, Palermo, Naples)

69. **From healthy ageing to mild cognitive impairment: the role of subjective cognitive decline**
Giuseppina Elena Cipriani, S. Molfese, R. Marcato, M. Amanzio (Turin)

70. **Clinical usefulness of the Verbal Fluency Index (VFI) in amyotrophic lateral sclerosis**
Beatrice Curti, E. Aiello, S. Torre, G. De Luca, A. Maranzano, E. Colombo, C. Gendarini, A. Cocuzza, S. Messina, A. Doretti, F. Verde, C. Morelli, V. Silani, N. Ticozzi, B. Poletti (Milan)

71. **Prevalence and determinants of anxiety in non-demented ALS patients**
Giulia De Luca, E. Aiello, B. Curti, S. Torre, A. Maranzano, E. Colombo, C. Gendarini, A. Cocuzza, S. Messina, A. Doretti, F. Verde, C. Morelli, V. Silani, N. Ticozzi, B. Poletti (Milan)

72. **Validation of an Electronic Symbol-Digit Modalities Test for Remote Longitudinal Monitoring of People with Multiple Sclerosis**
Michelangelo Dini, A. Boschetti, M. Tacchini, G. Gamberini, A. Gradassi, L. Chiveri, M. Rodegher, G. Comi, L. Leocani (Milan)

73. **Abnormal Forgetting Rate from the recency portion of a Word-list in patients with Subjective Cognitive Decline**
Carla Leonardi (Rome)

74. **How aging shapes our sense of agency**
Marika Mariano, N. Kuster, M. Tartufoli, L. Zapparoli (Milan)

75. **Primary progressive aphasia in Italian and English: a cross-linguistic cohort study**
Salvatore Mazzeo (Milan)

76. **The role of protocadherin 9 in depression and anxiety: evidence from a knockout mouse model**
Edoardo Moretto (Milan)

77. **Sex-Dependent Modulation of Ketamine's Rapid Behavioral Effects in a Mouse Model of Chronic Restraint Stress**
Noemi Nicosia, J. Mingardi, P. Misztak, M. Giovenzana, L. Musazzi (Monza)

78. **Subject-independent multimodal emotion recognition to monitor cognitive decline**
Sara Nocco, A. Grossi, F. Gasparini, A. Saibene (Milan)

79. **The relationship between premorbid personality and anosognosia in Alzheimer's Disease**
Maria Passov, C. Carbone, N. Iacovino, D. Ballotta, R. Maramotti, M. Tondelli, G. Zamboni (Reggio Emilia, Modena)

80. **Comparing the effects of High-Definition and conventional tDCS montages on inhibitory control via the Stop Signal Task: a pre-registered study**
Riccardo Pirone, G. Mattavelli, M. Cura, S. Franzosi, C. Gianelli, N. Canessa (Pavia)

81. **Unraveling the contribution of executive functions to language impairment in ALS**
Barbara Poletti, E. Aiello, B. Curti, S. Torre, G. De Luca, C. D'Ambrosio, C. Gendarini, A. Cocuzza, E. Colombo, A. Maranzano, F. Verde, C. Morelli, S. Messina, A. Doretti, A. Monti, V. Silani, N. Ticozzi (Milan)

82. **Dynamic changes during the MCI to AD conversion. A longitudinal perspective on the ADNI data**
Daniele Romano (Milan)

83. **A multidisciplinary debate on the use of neurotechnologies for brain health and wellbeing**
Aurora Saibene, F. Gasparini, C. Gulotta, S. Salardi, M. Sosa Navarro, F. Stocchi (Milan)

84. **Automated tablet scoring of Rey Complex figure in people with Parkinson's Disease: differences between spatial, kinematic and procedural abilities**
Francesca Lea Saibene, S. Gobbo, M. Petilli, M. Rabuffetti, M. Alberoni, E. Calabrese, F. Baglio, E. Farina, R. Daini (Milan)

85. **The protective role of cognitive reserve in mediating depressive symptomatology in patients with Multiple Sclerosis**
Paolo Taurisano, M. Biasi, A. Manni, R. Barberio, E. Gentile, D. Paolicelli (Bari)

86. **A Cognitive Reserve-based model to predict Alzheimer's Disease progression**
Laura Veronelli, G. Tosi, D. Romano (Milan)

87. **Neuropsychological hallmarks and structural disconnectome analysis in a case of Optic Aphasia**
Laura Veronelli, R. Bonandrini, A. Caporali, D. Licciardo, M. Corbo, C. Luzzatti (Milan)

Session: Strategies of prevention and new treatments

88. **Control of core temperature in major orthopedic surgery and traumatology in old patinets with delirium and evalutation Mini Mental test.**
Barbara Amarisse, C. Renzini, G. Zuliani, A. Zurlo, V. Peduto, B. Ciammitti (Rome, Ferrara e San Marino, Perugia, Terni)

89. **Neural alterations underlying executive dysfunction in Parkinson's disease: A systematic review and coordinate-based meta-analysis of functional neuroimaging studies.**
Paola Antoniotti, E. Arrigoni, L. Veronelli, V. Bellocchio, A. Pisoni (Milan)

90. **Emotional response enhancement induced by memories through music**
Alberto Bertagnoli, A. Grossi, F. Gasparini, S. Bandini (Sesto San Giovanni, Milan)

91. **Two new, web-based, free platforms for a better cognitive ageing**
Mario Bonato, G. Contemori, V. Pucci, S. Saccani, S. Saccani, V. Livoti, A. Ravelli, E. Macchia, Z. Romeo, M. Noale, G. Arcara, M. Devita, S. Mondini, M. Bonato (Padova, Lido Venice)

92. **3D bioprinted hydrogel for the production of glioblastoma multiforme in vitro models**
Francesca Cadamuro, F. Nicotra, L. Russo (Vedano al Lambro)

93. **Towards a personalized music recommender system based on induced emotion for music therapy**
Sofia Cazzaniga, A. Grossi, F. Gasparini, A. Saibene (Milan)

94. **Artichoke, Fenum Greek and Caihua (ACFB) phytoextract blend and Cocoa Shell phytoextracts show antioxidant properties on gut-brain axis in vitro model.**
Paolo Corbetta, E. Lonati, E. Cazzaniga, L. Botto, P. Palestini, A. Bulbarelli (Monza)

95. **Listening to patients to improve cognitive rehabilitation protocol design in Mild Cognitive Impairment**
Sabrina Guzzetti, G. Gilardone, F. Pesce, M. Valenti, L. Veronelli, M. Corbo (Milan)

96. **Neuroprotective and anti-aging effects of cocoa-shell extract on eukaryotic models of Parkinson's disease**
Alessia Lambiase, H. Moukham, G. Spandri, S. Pagliari, L. Campone, F. Tripodi, P. Coccetti (Milan)

97. **Beyond the risk of dementia: an umbrella review on psychosocial, lifestyle and health-related protective factors**
Giulia Locatelli, . Sacchetti, A. Guaita, E. Rolandi (Abbiategrasso)

98. **Preliminary data from a Randomized Control Trial on Multidimensional Screening and Neurocognitive Intervention in Vascular and Multimorbid Outpatients**
Daniela Mancini, V. Torlaschi, M. Maffoni, A. Pierobon, C. Fundarò (Montescano-PV)

99. **Individual and environmental determinants of dementia prevention: cognitive, motor, and relational reserve across the lifespan**
Francesca Morganti, I. Laureano Beninca, M. Gattuso, S. Butti (Bergamo)

100. **Effects of multicomponent interventions in older adults on functional and cognitive status: a systematic review and meta-analysis**
Eleonora Pagan, C. Okoye, L. Cuffaro, C. Custodero, V. Dibello, M. C. Ferrara, F. E. Pozzi, G. Bellelli, C. Ferrarese, A. Zambon (Milan, Monza, Bari)

101. **Oxytocin promotes blood-brain barrier formation in a mouse model of autism spectrum disorder and schizophrenia**
Camilla Paolini (Vedano al Lambro)

102. **Effects of a new structured multidomain cognitive training with frontal preactivation in elderly population with Mild Cognitive Impairment (MCI)**
Sara Pegoraro, E. Rizzi, V. Strina, F. Conte, A. Boccolieri, G. Boccolieri, R. Daini (Milan)

103. **Brain Health and Environmental Design Implications of Living Spaces**
Mariangela Perillo, E. Attaianese, M. Barilà , D. De Pascale, Y. Di Dario, M. Illario (Villaricca, Naples)

104. **The procare4life european project: feasibility and overall satisfaction of cognitive games web application in neurodegenerative diseases**
Francesca Pesce, E. Judica, G. Gilardone, S. Guzzetti, M. Corbo (Milan)

105. **InTempoOrNot: a computational framework to manage patients enrollment in the InTempo study**
Dario Pescini, L. Cuffaro, F. Pozzi, C. Ferrarese, A. Zambon (Milan, Monza)

106. **Precision medicine advancements in ARIA and Iatrogenic/Spontaneous CAA-ri: biomarkers-based mechanistic insights from the ARIAisCAAri NET global effort**
Fabrizio Piazza, D. Lucia, E. Grisafi, F. Guzzi, M. Zedde, L. Antolini, G. Basso (Monza, Reggio Emila)

107. **Attenzional-Mente Early Approach to Subjective Cognitive Decline Through Attentional Training**
Gaia Radicchi, S. Amici, A. Trequattrini, S. Pezzuto, F. Bianchini, M. Adenzato (Perugia, Turin)

108. **Mental health and loneliness in university students: a structural equation modelling comparing Italy and the UK**
Ilaria Riboldi, C. Crocamo, F. Bartoli, G. Carrà (Monza)

109. **Lab and at-Home tDCS combined with Cognitive Rehabilitation improves Cognitive Outcomes 2-years after a TBI: A Case Study**
Giuseppe Rocca, G. Barbieri, A. Caroprese, M. Tagliaferri (Piacenza)

110. **Development of a Non-Invasive Stimulation Device to Provide Artificial Sensory Feedback in Anterior Cruciate Ligament Injury**
Kevin Soter, C. Perin, C. Alessandro (Milan)

111. **Identification of new sustainable biomolecules with anti-aging and neuroprotective effects**
Giorgia Spandri, A. Lambiase, H. Moukham, E. Toini, F. Grassi, G. Zecca, M. Labra, F. Tripodi, P. Coccetti (Milan)

112. **Molecular pathways mediating HDAC6 inhibitors neuroprotection against Oxaliplatin toxicity**
Angelica Squarzoni, A. Scuteri, E. Donzelli, V. Rodriguez-Menendez, G. Cavaletti (Monza)

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GENERAL INFORMATION

Meeting venue

University of Milano - Bicocca
Great Hall - Building U6
Piazza dell'Ateneo Nuovo, 1
Milan

Organizing Secretariat

SienaCongress
Via del Rastrello, 7 - 53100 Siena
Tel. 0577 286003 / Fax 0577 282731
info@sienacongress.it

Registration

Single individuals will only be able to register online through the website
https://neuromi2024.sienacongress.it/home.php. Until 30th September it is
possible to take advantage of the reduced fee. The fee includes: participation at
the scientific studies, conference kit, certificate of attendance, opening ceremony,
welcome cocktail, buffet lunches.

CATEGORY	EARLY REGISTRATION UNTIL 30 SEMPTEMBER 2024	AFTER 30 SEMPTEMBER 2024
Medical registration fee	€ 300,00	€ 400,00
Other professions registration fee	€ 200,00	€ 300,00
Daily registration fee	€ 100,00	€ 150,00
Junior Specialist registration fee under 35 years old	€ 100,00	€ 100,00
NeuroMi Members/Students/PhD/Residents	Free	Free

Fees are inclusive of 22% iva (tax).

Bank details:

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Directions

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The closest station to the Università degli Studi di Milano-Bicocca is Milano Greco Pirelli.

The Milano Greco Pirelli station is reachable from:
• Milano Porta Garibaldi in about 7 minutes with 4 trains departing per hour
• Milan Lambrate in about 7 minutes using line S9 and R trains to/from Brescia, plus a few trains departing from Piacenza, Voghera

By taking Viale dell'Innovazione, the street next to the Arcimboldi theatre, you will reach Piazza dell'Ateneo Nuovo and buildings U6/U7.
From Central Station you can take bus 87.
For more information please visit this website: www.trenitalia.it

BY PLANE

From Milan Linate airport, take metro towards S. Babila M1. At the last stop continue on line 1 of the Metro.

Those arriving at Milan Malpensa airport can take the Malpensa Express shuttle train. We advise you to use trains that stop at Milan Porta Garibaldi station.

BY CAR

From the Turin-Venice motorway, exit "Milano - viale Zara" and take the direction towards 'Milano Centro'.

After passing the sign indicating the city of Milan, at the StarTourist Hotel on the left, take Viale Sarca, the first street parallel to the one you find yourself on, on the left side.

Continuing along Viale Sarca in the same direction you will find the University on your left after about one km.

CME Accreditation

PROVIDER ID: 18O2
EVENT ID: 427895

The ECM Accreditation for Congress "Brain health and prevention of cognitive decline: Today's challenges for a brighter tomorrow" has been requested for the following positions:

- Biologist
- Speech Therapist
- Psychologist (Psychotherapy, Psychology)
- Medical Doctor (geriatrics; physical medicine and rehabilitation; sport medicine; neurology; psychiatry; hygiene, epidemiology and public health; food science and dietetics; healthcare services organization; psycotherapy; community medicine)
- Health care professional
- Physiotherapist
- Nurse
- Dental hygienist

All professions and disciplines not set out in the previous list are excluded from the acquisition of CME credits, but can still take part in the event (provided the conference hall has not reached the maximum limit of attendance required under accreditation)

Submission of abstracts

During the Sixth International Meeting of the Milan Center For Neuroscience (NEUROMI) there will be scientific sessions devoted to oral communication and posters. Oral communications will be selected from the abstracts submitted on line to the scientific secretariat and presented in the main scientific session. All abstracts must be submitted before 10th July 2024.
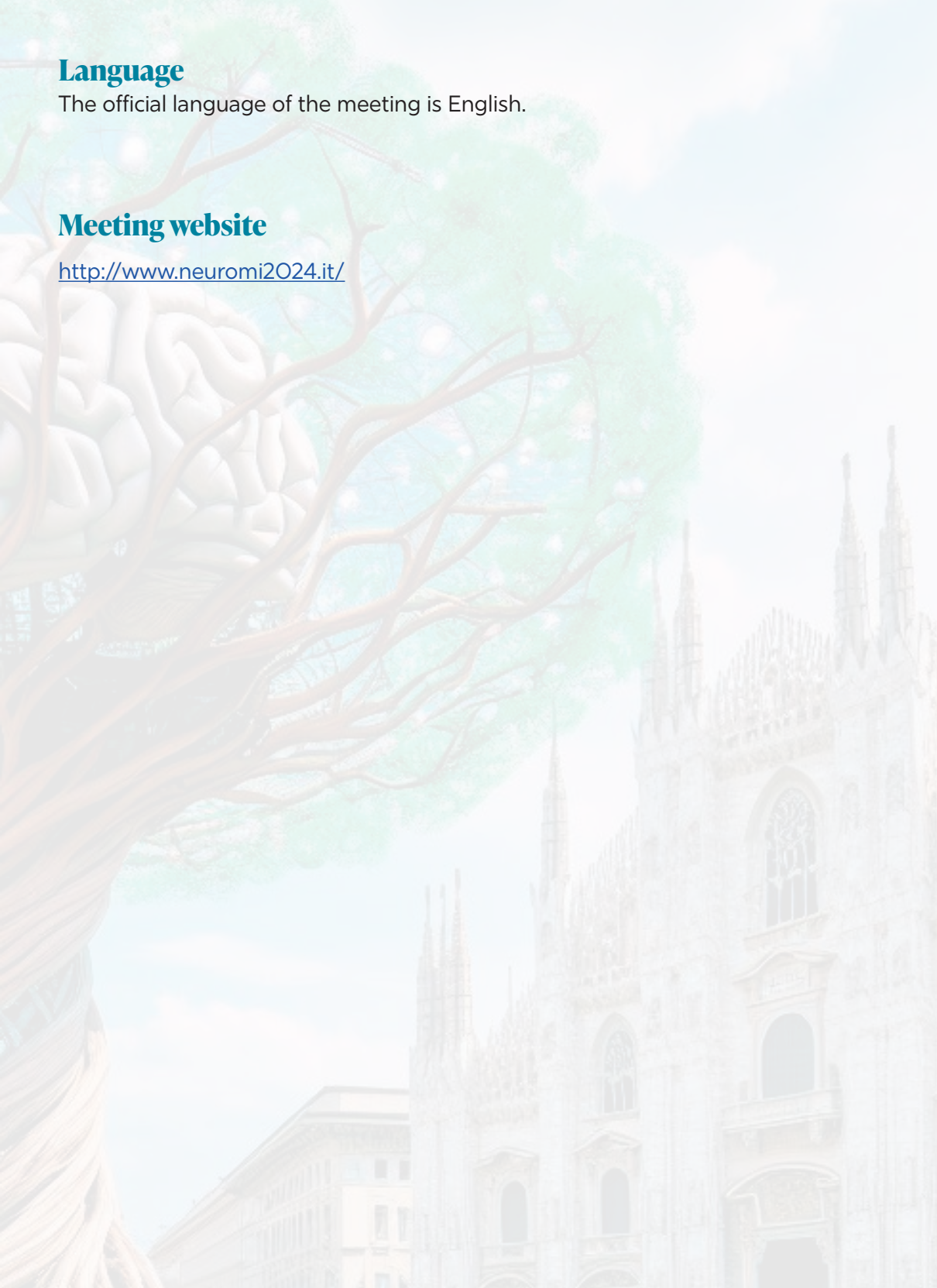
Poster instruction

Posters have to be affixed on the first day of the meeting. Posters will remain on display for the whole meeting. Posters' dimension: 70 cm. wide x 100 cm. high.

Language

The official language of the meeting is English.

Meeting website

http://www.neuromi2024.it/

Notes

Notes

Organizing Secretariat

SienaCongress
Via del Rastrello, 7 - 53100 Siena
Tel. 0577 286003 / Fax 0577 282731
info@sienacongress.it

6° Meeting Internazionale
"Brain Health and prevention of cognitive decline"
Milano 23-25 Ottobre 2024

Si ricorda che il Centro di Neuroscienze di Milano (NeuroMI, www.neuromi.it), centro interdipartimentale dell'Università degli Studi di Milano-Bicocca, ha organizzato un meeting internazionale a tema "**Brain Health and prevention of Cognitive Decline**".

Il meeting si terrà a **Milano dal 23 al 25 Ottobre 2024** presso **l'aula Magna dell'Università degli studi di Milano-Bicocca**.

Per tutte le informazioni e per visionare il programma scientifico definitivo si rimanda al sito web dedicato www.neuromi2024.it.

La scadenza per la **early registration, a quota ridotta,** è fissata al **30 Settembre 2024**.

Si auspica un'ampia partecipazione al meeting da parte di tutti i soci della vostra società.
Con i migliori saluti,

Prof. Carlo Ferrarese
Direttore Scientifico Centro
di Neuroscienze di Milano
(www.neuromi.it)