

# SINdem4Juniors

## 11<sup>th</sup> Winter Seminar on Dementia and Neurodegenerative Disorders

Recent Advances in Clinical and Experimental Research on Dementia and Neurodegenerative Disorders

Organized by SINdem4Juniors Young Members Executive Committee of The Italian Neurological Dementia Association

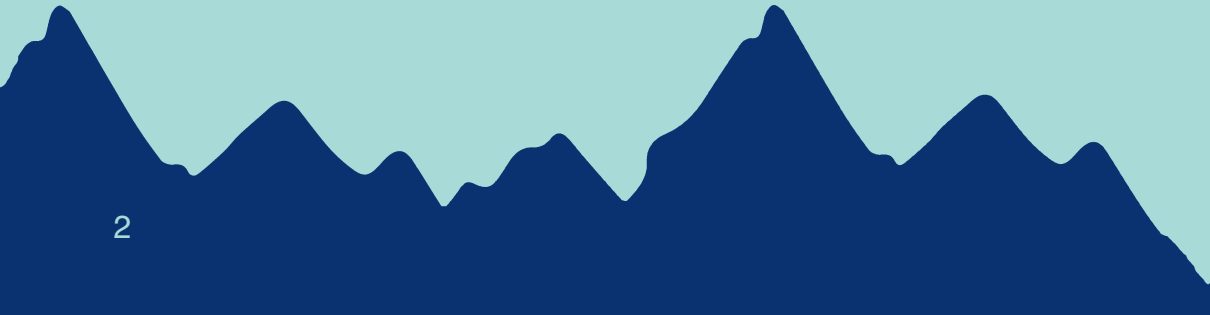
## February 14-16, 2024

Bressanone, Italy  
Dolomiti – Sud Tirolo

### Save the date!

February 14, 2024  
Contamination Session

February 15-16, 2024  
Scientific Session



# SINdem4Juniors

## Scientific Committee

Marco Bozzali (*Turin, Italy*)

Fulvio Adorni (*Milan, Italy - ITB CNR*)

Andrea Arighi (*Milan, Italy*)

Carlo Alberto Artusi (*Turin, Italy*)

Alberto Benussi (*Trieste, Italy*)

Elisa Canu (*Milan, Italy*)

Chiara Cerami (*Pavia, Italy*)

Matteo De Marco (*London, United Kingdom*)

Francesco Di Lorenzo (*Rome, Italy*)

Alessandra Dodich (*Trento, Italy*)

Giacomo Koch (*Ferrara, Italy*)

Elena Marcello (*Milan, Italy*)

Micaela Mitolo (*Parma, Italy*)

Giuseppe Rocca (*Piacenza, Italy*)

Arianna Sala (*Liège, Belgium*)

Luisa Sambati (*Bologna, Italy*)

Laura Serra (*Rome, Italy*)

# Wednesday February 14

15.30 Registration

15.45 Opening

## CONTAMINATION SESSION

### SESSION I

Moderators: ALBERTO BENUSSI (*Trieste, Italy*), MARCO BOZZALI (*Turin, Italy*)

16.00 **Proud to Care: LGBTQ and Dementia**  
RICCARDO MANCA (*London, United Kingdom*)

16.45 **The Rebirth of Psychedelic Medicine**  
DAVID ERRITZOE (*London, United Kingdom*)

17.30 Coffee break

### SESSION II

Moderators: GIUSEPPE ROCCA (*Piacenza, Italy*), ANDREA PANZAVOLTA (*Pavia, Italy*)

18.00 **The Future of Brain Stimulation – From Pain to Space**  
BASHAR BADRAN (*Charleston, USA*)

18.45 **The Genesis of Intellect: From Silicon to Sentience**  
DAVID LESLIE (*London, United Kingdom*)

20.15 Dinner

# Thursday February 15

## EDUCATIONAL WORKSHOP

### **Lost in... AI: How Artificial Intelligence is Transforming Society**

ANDREA ARIGHI (*Milan, Italy*)

ELISA CANU (*Milan, Italy*)

CHIARA CERAMI (*Pavia, Italy*)

ALESSANDRA DODICH (*Trento, Italy*)

MICAELA MITOLO (*Parma, Italy*)

LAURA SERRA (*Rome, Italy*)

10.00

### **DeepTraceTechnologies**

ISABELLA CASTIGLIONI (*Milan, Italy*)

CHRISTIAN SALVATORE (*Pavia, Italy*)

10.30

### **Ontopic**

DIEGO CALVANESE (*Bolzano, Italy*)

11.00

### **SINdem Digital Survey**

11.20

### **The Promises and Pitfalls of Artificial Intelligence**

RAFFAELLA BERNARDI (*Trento, Italy*)

12.00

Abstract Gamification

12.20

Discussion

13.00

Lunch

## SESSION I

Moderators: CARLO ALBERTO ARTUSI (*Turin, Italy*), GIULIA DI LAZZARO (*Rome, Italy*),  
GIACOMO TONDO (*Novara, Italy*)

14.30

### **Cognitive and Neuropsychiatric Impairment in Dystonia**

FRANCESCA MORGANTE (*London, United Kingdom*)

## ORAL COMMUNICATION

14.50

### **Motor reserve impact on nigrostriatal vulnerability in Parkinson's Disease**

ALICE GALLI, A. PILOTTO, A. RIZZARDI, C. ZATTI, M. OGLIANI, S. LUCCHINI, F.  
BERTAGNA, B. PAGHERA, A. PADOVANI (*Brescia, Italy*)

15.00

### **Effect of Sex on the association between GBA mutations and Cognitive Decline in Parkinson's Disease**

SILVIA PAOLA CAMINITI, M. AVENALI, A. GALLI, R. MALITO, A. PILOTTO, D.  
PERANI, C. TASSORELLI, E. VALENTE (*Pavia, Brescia, Milan, Italy*)

# Thursday February 15

## FLASH POSTER

- 15.10 **Resting-state functional connectivity associated with socio-cognitive dysfunction in non-demented Parkinson's disease**  
GIULIA FUNGHI, G. RABINI, C. MELI, C. SPERANZA, L. TURELLA, J. JOVICICH, C. PAPPAGNO, A. DODICH (*Rovereto TN, Italy*)
- 15.15 **Neural correlates of bradykinesia in Parkinson's disease: a kinematic and fMRI study**  
ANDREA GARDONI, E. SARASSO, L. ZENERE, A. GRASSI, D. EMEOLI, S. BASAIA, R. BALESTRINO, D. CORBETTA, M. FILIPPI, F. AGOSTA (*Genoa, Milan, Italy*)
- 15.20 **Autonomic functions and dopaminergic correlates in Dementia with Lewy Body: a preliminary study**  
CHIARA GIUSEPPINA BONOMI, C. MOTTA, C. SERAFINI, R. CAMEDDA, A. CHIARAVALLOTI, C. ROCCHI, A. MARTORANA (*Rome, Italy*)
- 15.25 Opening discussion
- 16.00 Coffee break

## SESSION II

Moderators: GIORGIO GIULIO FUMAGALLI (*Trento, Italy*)  
VALENTINA MOSCHINI (*Florence, Italy*)  
EDOARDO GIOELE SPINELLI (*Milan, Italy*)

- 16.30 **The Clinical-Radiological Framework of the Right Temporal Variant of FTD**  
YOLANDE PIJNENBURG (*Amsterdam, Netherlands*)

## ORAL COMMUNICATION

- 16.50 **The affective and cognitive theory of mind and associated brain functional alterations in patients with primary progressive aphasia**  
CHIARA TRIPODI, E. CANU, A. MARANGON, V. CASTELNOVO, S. BASAIA, E. SPINELLI, G. CECCHETTI, F. CASO, G. MAGNANI, P. CAROPPO, S. PRIONI, C. VILLA, L. TREMOLIZZO, I. APPOLLONIO, F. VERDE, N. TICOZZI, V. SILANI, M. FILIPPI, F. AGOSTA (*Milan, Italy*)
- 17.00 **Dopaminergic Therapy for Frontotemporal Dementia Patients: preliminary results from a phase 2 multi-site, Randomized Clinical Trial**  
MARTINA ASSOGNA, F. DI LORENZO, S. BONNÌ, Y. GADOLA, A. ALBERICI, I. BORGHINI, E. CERULLI IRELLI, L. MENCARELLI, V. PEZZOPANE, F. CANDEO, M. MAIELLA, C. FERRARI, C. MOTTA, A. MARTORANA, B. BORRONI, G. KOCH (*Rome, Brescia, Italy*)

# Thursday February 15

## FLASH POSTER

- 17.10 **Spontaneous speech alterations and evolution in primary progressive aphasia variants**  
VERONICA CASTELNOVO, E. CANU, L. LUMACA, S. BASAIA, S. SANTICIOLI, E. GATTI, A. LAMANUZZI, E. SPINELLI, G. CECCHETTI, F. CASO, G. MAGNANI, P. CAROPPO, S. PRIONI, C. VILLA, S. CAPPÀ, M. FILIPPI, F. AGOSTA (*Milan, Pavia, Italy*)
- 17.15 **Cognitive and neuropsychological correlation with brain metabolism in C9orf72 amyotrophic lateral sclerosis patients**  
FABIOLA DE MARCHI, L. MAZZINI, M. SARNELLI, L. CORRADO, R. MATHEOUD, S. D'ALFONSO, R. CANTELLO, G. SACCHETTI, C. COMI, D. PERANI, G. TONDO (*Novara, Milan, Italy*)
- 17.20 **Sleep disturbance associated with right temporal lobe atrophy in frontotemporal dementia**  
EVA LARSEN, J. JIANG, C. DELLA MONICA, H. HASSANIN, G. ATZORI, S. ERIKSSON, D. JAN DIJK, V. REVELL, J. WARREN (*London, Guildford, United Kingdom*)
- 17.25 Opening discussion

18.00 **POSTER SESSION**

19.00 Dinner

## SESSION III

Moderators: GIACOMO KOCH (*Ferrara, Italy*), SIMONE SALEMME (*Modena, Italy*)

- 20.30 **The Evolving Scenario of Alzheimer's Disease**  
GIOVANNI FRISONI (*Ginevra, Switzerland - Brescia, Italy*)

# Friday February 16

## AIRALZH SESSION

### Cultivating the Next Generation of Brain Researchers

- 11.00 **Introduction and Award Ceremony**  
BENEDETTA NACMIAS (*Florence, Italy*)

## LUNCH SYMPOSIUM

### Neurodegenerative Diseases, Art and Creativity?

Moderators: MATTEO DE MARCO (*London, United Kingdom*)  
VERONICA CASTELNOVO (*Milan, Italy*)

- 11.40 **The Neuroscience of Music**  
LAURA FERRERI (*Pavia, Italy*)
- 12.20 **Vanishing Echoes: An Artistic Journey into the Enigma of Memory Loss**  
FLAMINIA CELATA (*Rome, Italy*)
- 13.00 Lunch

## SESSION IV

Moderators: SILVIA BASAIA (*Milan, Italy*)  
SILVIA PAOLA CAMINITI (*Milan, Italy*)  
STEFANO MOZZETTA (*Padua, Italy*)

- 14.30 **Novel PET Tracers for Dementia**  
MAURA MALPETTI (*Oxford, United Kingdom*)

## ORAL COMMUNICATION

- 14.50 **More reserve helps every individual across either normal or pathological aging: the role of leisure's activities**  
GIULIA CARUSO, S. BONAROTA, C. DI DOMENICO, M. RIZZUTI, M. ASSOGLA, M. RODINI, L. MENCARELLI, F. DI LORENZO, G. KOCH, L. FADDA, C. CALTAGIRONE, M. BOZZALI, L. SERRA (*Rome, Ferrara, Turin, Italy*)
- 15.00 **A "glympse" into neurodegeneration: MRI and cerebrospinal fluid AQP4 for the assessment of glymphatic system in Alzheimer's disease and other dementias**  
LUCA SACCHI, F. D'AGATA, C. CAMPISI, M. ARCARO, T. CARANDINI, B. ORZSIK, V. PACOOVA DAL MASCHIO, C. FENOGLIO, A. PIETROBONI, L. GHEZZI, M. PINTUS, M. SERPENTE, G. CONTE, F. TRIULZI, D. GALIMBERTI, M. CERCIGNANI, M. BOZZALI, A. ARIGHI (*Milan, Turin, Italy - Leiden, Netherlands - Cardiff, United Kingdom*)



# Friday February 16

## FLASH POSTER

- 15.10 **Inhibition and facilitation effects along the AD spectrum: a voxel-based morphometry study**  
SABRINA BONAROTA, C. DI DOMENICO, G. CARUSO, V. DE SANGRO, M. ASSOGNA, M. RODINI, L. MENCARELLI, F. DI LORENZO, G. KOCH, L. FADDA, C. CALTAGIRONE, M. BOZZALI, L. SERRA (*Rome, Ferrara, Turin, Italy*)
- 15.15 **Macro- and micro-structural preservation of grey matter integrity after 24 weeks of rTMS in Alzheimer's disease patients**  
LUCIA MENCARELLI, M. TORSO, I. BORGHI, M. ASSOGNA, G. RIDGWAY, V. PEZZOPANE, F. DI LORENZO, F. GIOVE, S. CHANCE, G. KOCH (*Rome, Italy - Oxford, United Kingdom*)
- 15.20 **Exploring High-Frequency Oscillations as a neurophysiological biomarker of Alzheimer's disease progression among Mild Cognitive Impairment patients**  
DAVIDE NORATA, F. MOTOLESE, C. SMARRA, F. CAPONE, F. PILATO, V. DI LAZZARO (*Rome, Palermo, Italy*)
- 15.25 Opening discussion
- 16.00 Coffee break

## SESSION V

Moderators: GIULIA GIACOMUCCI (*Florence, Italy*)  
ELENA MARCELLO (*Milan, Italy*)  
LUCA SACCHI (*Milan, Italy*)

- 16.30 **Blood Biomarkers for Neurodegenerative Disorders: The Good, the Bad and the Ugly**  
NICHOLAS ASHTON (*Gotheborg, Sweden*)

## ORAL COMMUNICATION

- 16.50 **Fully automated measurement of plasma A $\beta$ 42/40 and p-tau181: analytical robustness and concordance with CSF profile along the AD continuum in two independent cohorts**  
GIOVANNA NARDI, G. BELLOMO, S. BAYOUMY, A. MEGARO, A. TOJA, L. GAETANI, R. E. BLUJDEA, F. PAOLINI PAOLETTI, A. L. WOJDAŁA, D. CHIASSERINI, W. M. VAN DER FLIER, C. TEUNISSEN, L. PARNETTI (*Perugia, Italy - Amsterdam, Netherlands*)

# Friday February 16

- 17.00 **Analysis of biomarkers of Alzheimer's Disease in Down Syndrome and their association with peripheral inflammatory and epigenetic markers**  
FRANCESCO RAVAIOLI, M. BACALINI, M. GRASSO, M. ROCHAT, S. CASTELLI, C. PELLEGRINI, B. POLISCHI, M. RECUPERO, C. PIRAZZINI, S. DE FANTI, L. DALL'OLIO, C. BARONE, D. GENTILINI, V. POLLARINI, N. GROTTESCHI, A. GHEZZO, S. BUONO, C. FRANCESCHI, R. LODI, C. ROMANO, C. TONON, G. PIRAZZOLI, P. CORTELLI, F. CARACI, P. PARCHI, F. CICCARONE, L. SAMBATI (*Bologna, Troina, Rome, Casano Milanino, Italy - Nizhny Novgorod, Russia*)
- FLASH POSTER
- 17.10 **Investigating alpha-synuclein co-pathology in Alzheimer's disease by means of cerebrospinal fluid alpha-synuclein seed amplification assay**  
ANDREA TOJA, G. BELLOMO, F. PAOLINI PAOLETTI, Y. MA, C. FARRIS, L. GAETANI, N. SALVADORI, D. CHIASSERINI, A. WOJDALA, C. VERDEROSA, L. CONCHA-MARAMBIO, L. PARNETTI (*Perugia, Italy - San Diego, USA*)
- 17.15 **CAG repeats within the non-pathological range in the HTT gene influence plasma neurofilament light chain concentration in prodromal Alzheimer's disease**  
CHIARA CRUCITTI, S. MAZZEO, A. INGANNATO, G. GIACOMUCCI, J. BALESTRINI, V. MOSCHINI, C. MORINELLI, G. GALDO, F. EMILIANI, A. CAVALIERE, D. FRIGERIO, D. PIAZZESI, S. BAGNOLI, S. PADIGLIONI, V. BERTI, S. SORBI, V. BESSI, B. NACMIAS (*Florence, Italy*)
- 17.20 **Performance and concordance of plasma versus CSF biomarkers of Alzheimer's Disease: a single center Memory Clinic cohort**  
MARTINA POLI, C. BONOMI, M. NUCCETELLI, S. BERNARDINI, C. MOTTA, A. MARTORANA (*Rome, Italy*)
- 17.25 Opening discussion
- 18.00 **POSTER SESSION**
- 19.00 Dinner

# Friday February 16

## SESSION VI

Moderators: MARCO BOZZALI (*Turin, Italy*)

CHIARA GIUSEPPINA BONOMI (*Rome, Italy*)

LUISA SABBATI (*Bologna, Italy*)

20.30 **Autonomic Nervous System Homeostasis**  
PIETRO CORTELLI (*Bologna, Italy*)

21.00 **MEMORIAL MASSIMO MUSICCO**  
**Award Ceremony**  
SIMONA DI SANTO (*Rome, Italy*)

# Poster Session

Thursday February 15

## POSTER SESSION

Moderators: PAOLO ABONDIO (*Bologna, Italy*)  
ELISA CANU (*Milan, Italy*)  
VERONICA CASTELNOVO (*Milan, Italy*)  
MICAELA MITOLO (*Parma, Italy*)  
DAVIDE NORATA (*Rome, Italy*)  
LUCA SACCHI (*Milan, Italy*)

- 1 Cognitive impairment is associated with gait variability and fall risk in Amyotrophic Lateral Sclerosis**  
GIANMARIA SENERCHIA, R. DUBBIOSO, M. SPISTO, V. IUZZOLINO, G. ACETO, J. HAUSDORFF, S. DE MARCO, R. IODICE, E. SALVATORE, E. MARCUCCIO, C. FERMIANO, G. SANTANGELO, L. TROJANO, P. MORETTA (*Naples, Benevento, Italy - Tël Aviv, Israel*)
- 2 Neurotransmitter-related grey matter atrophy in Alzheimer's disease: the impact of polygenic risk**  
RICCARDO MANCA, M. MITOLO, M. BACALINI, S. CAPELLARI, A. VENNERI (*London, UK - Parma, Bologna, Italy*)
- 3 The impact of Cognitive Reserve on cognitive performance in early-onset Mild Cognitive Impairment**  
CHIARA CARBONE, R. MARAMOTTI, E. BALBONI, D. BALLOTTA, R. BEDIN, M. TONDELLI, D. BELTRAMI, F. GASPARINI, G. VINCETI, A. MARTI, A. CHIARI, L. NOCETTI, G. PAGNONI, G. ZAMBONI (*Modena, Reggio Emilia, Italy*)
- 4 Plasma Brain-derived Tau as a specific biomarker of neurodegeneration and longitudinal progression across the Alzheimer's disease spectrum**  
GIUSEPPE PIGA, F. GONZALEZ ORTIZ, I. YUKSEKEL, M. HOUOT, L. GONZALEZ URIBE, A. RAMETTI LACROUX, M. TEICHMANN, S. BOMBOIS, I. LE BER, B. DUBOIS, R. LEVY, F. LAMARI, K. BLENNOW, N. VILLAIN (*Cagliari, Italy - Gothenburg, Molndal, Sweden - Paris, France*)
- 5 Functional connectivity changes in mild cognitive impairment: A meta-analysis of M/EEG studies**  
CHIARA FORNARI, G. BUZI, A. PERINELLI, V. MAZZA (*Rovereto TN, Italy - Caen, France*)
- 6 Serotonergic system dysfunctions in the 3xTg mice are associated with Alzheimer's disease progression**  
MARCO CAMBIAGHI, F. MARCHIOTTO, S. COMAI, R. MAZZIOTTI, L. MEULLI, M. BUFFELLI, M. CAMBIAGHI (*Verona, Padua, Pisa, Italy*)
- 7 Effect of amroxol on alpha-synuclein expression and degradation in cellular models of Parkinson's disease**  
DESIREE FICARRA, M. ROBUTTI, I. RIVOLTA, G. SALA, C. FERRARESE (*Monza MI, Italy*)

# Poster Session

- 8 **Searching for the synaptic effectors of the positive impact of lifestyle-based interventions on brain function in a preclinical mouse model of Alzheimer's disease**  
MARCO MAINARDI, M. DI CAPRIO, J. DE LA OSSA GUERRA (*Padua, Pisa, Italy*)
- 9 **Exploring to remediate Behavioral Disturbances of Spatial Cognition in community-dwelling senior citizens with Mild Cognitive Impairment by innovative technological apparatus (BDSC-MCI project): Preliminary results**  
DAVIDE MARIA CAMMISULI, V. ISELLA, V. BELLOCCHIO, V. GRANESE, G. MARCHESI, B. VIGNATI, S. ZAGO, T. DIFONZO, S. POMATI, V. CHANDRESWARAN, N. AXMACHER, G. CASTELNUOVO (*Milan, Piancavallo VB, Italy - Bochum, D*)
- 10 **Combined use of plasma p-tau 181 and neurofilament light chain in Subjective Cognitive Decline and Mild Cognitive Impairment: future perspective and clinical applicability**  
GIULIA GIACOMUCCI, S. MAZZEO, A. INGANNATO, C. CRUCITTI, S. BAGNOLI, S. PADIGLIONI, G. GALDO, F. EMILIANI, D. FRIGERIO, V. MOSCHINI, C. MORINELLI, S. SORBI, B. NACMIAS, V. BESSI (*Florence, Italy*)
- 11 **Disentangling empathy impairment along Alzheimer's Disease continuum: from Subjective Cognitive Decline to Alzheimer's Dementia**  
VALENTINA MOSCHINI, G. GIACOMUCCI, D. PIAZZESI, S. PADIGLIONI, S. MAZZEO, G. GALDO, C. POLITO, F. EMILIANI, D. FRIGERIO, C. MORINELLI, S. BAGNOLI, A. INGANNATO, B. NACMIAS, S. SORBI, V. BERTI, V. BESSI (*Florence, Italy*)
- 12 **Sleep disturbance associated with right temporal lobe atrophy in frontotemporal dementia**  
EVA LARSEN, J. JIANG, C. DELLA MONICA, H. HASSANIN, G. ATZORI, S. ERIKSSON, D. JAN DIJK, V. REVELL, J. WARREN (*London, Guildford, United Kingdom*)
- 13 **Validation of the italian consensus recommendations for the biomarker-based etiological diagnosis of mild cognitive impairment: study design**  
CLAUDIO SINGH SOLORZANO, C. FESTARI, S. ORINI, E. CASTAGNA, M. COTTA RAMUSINO, F. D'ANTONIO, A. DI CROSTA, A. MASÒTINO, F. MASSA, A. MAZZONETTO, M. PANIGUTTI, N. RAVI, M. PIEVANI, L. BONANNI, G. BRUNO, A. CAGNIN, R. GATTA, G. FRISONI (*Brescia, Rome, Pavia, Chieti, Pescara, Genoa, Padua, Italy - Geneva, Switzerland*)
- 14 **CAG repeats within the non-pathological range in the HTT gene influence plasma neurofilament light chain concentration in prodromal Alzheimer's disease**  
CHIARA CRUCITTI, S. MAZZEO, A. INGANNATO, G. GIACOMUCCI, J. BALESTRINI, V. MOSCHINI, C. MORINELLI, G. GALDO, F. EMILIANI, A. CAVALIERE, D. FRIGERIO, D. PIAZZESI, S. BAGNOLI, S. PADIGLIONI, V. BERTI, S. SORBI, V. BESSI, B. NACMIAS (*Florence, Italy*)
- 15 **Protective role of trodusquemine against toxic A $\beta$ 42 oligomers**  
CLAUDIA CAPITINI, C. CENI, M. CALAMAI (*Florence, Italy*)

# Poster Session

- 16 **Cerebral Amyloid Angiopathy - related inflammation (CAA-ri): case-report and review of literature**  
EDOARDO GUIDO TORRIGIANI, A. MANCINI, F. PAOLINI PAOLETTI, D. APRILE, G. SUSCA, L. GAETANI, L. PARNETTI (*Perugia, Italy*)
- 17 **Importance of Amyloid  $\beta$ 34 and Beta Secretase 1 (BACE1) for the diagnosis of Alzheimer's disease**  
ALESSANDRO TRENTINI, G. ZULIANI, G. MULTHAUP (*Ferrara, Italy - Montreal, Canada*)
- 18 **Impact of the SARS-Cov2 pandemic on frailty in the elderly: a cohort study on the role of social support**  
EMANUELE ROCCO VILLANI (*Rome, Italy*)
- 19 **PHysical ACTivity and Aminoacids in MCI: their role in progression towards DEmentia. PHACADE: a monocentric, prospective, non-pharmacologic interventional study**  
EMANUELE ROCCO VILLANI (*Rome, Italy*)
- 20 **Microglial Senescence and Activation in Healthy Aging and Alzheimer's Disease: Systematic Review and Neuropathological Scoring**  
ANTONIO MALVASO, A. GATTI, G. NEGRO, C. CALATOZZOLO, V. MEDICI, T. POLONI (*Pavia, Milan, Abbiategrasso, Novara, Italy*)
- 21 **Comparative analysis of supra and infratentorial atrophy in cerebellar ataxias: unveiling distinctions across different etiologies**  
SILVIA BASAIA, S. PISANO, O. STOJILJKOVIĆ, S. MESAROS, N. DRAGASEVIĆ, M. FILIPPI, F. AGOSTA (*Milan, Brescia, Italy - Belgrade, Serbia*)
- 22 **Identification of Parkinson's disease biomarkers in a multi-modal AI framework using raw MRI and clinical data**  
SILVIA BASAIA, F. SCIANCALEPORE, E. SARASSO, R. BALESTRINO, I. STANKOVIĆ, A. TOMIĆ, R. DE MICCO, A. TESSITORE, M. SALVI, F. MEIBURGER, V. KOSTIC, F. MOLINARI, M. FILIPPI, F. AGOSTA (*Milan, Turin, Genoa, Napoli, Italy - Belgrade, Serbia*)
- 23 **Neural correlates of bradykinesia in Parkinson's disease: a kinematic and fMRI study**  
ANDREA GARDONI, E. SARASSO, L. ZENERE, A. GRASSI, D. EMEDOLI, S. BASAIA, R. BALESTRINO, D. CORBETTA, M. FILIPPI, F. AGOSTA (*Genoa, Milan, Italy*)
- 24 **Motion analysis and MRI characteristics in patients with isolated REM sleep behavior disorder**  
ANDREA GARDONI, E. SARASSO, S. MARELLI, R. BALESTRINO, L. ZENERE, A. GRASSI, A. CASTELNUOVO, A. TETTAMANTI, L. FERINI-STRAMBI, M. FILIPPI, F. AGOSTA (*Milan, Genoa, Italy*)
- 25 **Longitudinal progression of subcortical structural damage in amyotrophic lateral sclerosis**  
EDOARDO GIOELE SPINELLI, A. GHIRELLI, S. BASAIA, E. CANU, V. CASTELNOVO, T. RUSSO, P. SCHITO, Y. FALZONE, M. FILIPPI, F. AGOSTA (*Milan, Italy*)

# Poster Session

- 26 **Distinctive longitudinal cortical atrophy progression patterns characterize clinical variants of the frontotemporal dementia continuum**  
EDOARDO GIOELE SPINELLI, A. GHIRELLI, F. ORLANDI, E. CANU, S. BASAIA, V. CASTELNOVO, E. SIBILLA, G. CECCHETTI, F. CASO, G. MAGNANI, P. CAROPPO, S. PRIONI, C. VILLA, L. TREMOLIZZO, I. APPOLLONIO, F. VERDE, N. TICOZZI, V. SILANI, M. FILIPPI, F. AGOSTA (*Milan, Monza, Italy*)
- 27 **Clinical and neuroanatomical characterization of the semantic behavioural variant of frontotemporal dementia in a multicentre Italian cohort**  
EDOARDO GIOELE SPINELLI, A. GHIRELLI, E. CANU, S. BASAIA, V. CASTELNOVO, G. CECCHETTI, E. SIBILLA, G. MAGNANI, F. CASO, P. CAROPPO, S. PRIONI, C. VILLA, L. TREMOLIZZO, I. APPOLLONIO, F. VERDE, N. TICOZZI, V. SILANI, M. FILIPPI, F. AGOSTA (*Milan, Monza, Italy*)
- 28 **Is it time for a new clinical entity for Huntington's Disease in intermediate allele carriers? A case report of a 55-yo man with clinical manifestations of HD, a 28 CAG repeats expansion plus and a variant of uncertain significance**  
GIULIANO FERNANDO PATANÈ, M. A. DE ROSA, D. CALISI, P. QUINTIERI, M. V. DE ANGELIS, S. L. SENSI (*Pescara, Chieti, Italy*)
- 29 **A multimodal approach combining Tele-Neurorehabilitation and Bright Light Therapy for Dementia with Lewy Bodies patients: preliminary data**  
LUCIA GUIDI, L. SAMBATI, V. POLLARINI, C. LA MORGIA, G. AMORE, A. BOSCO, R. LODI, C. TONON, M. MITOLO (*Bologna, Italy*)
- 30 **It's never too late for presenilin: PSEN2 variant causing late-onset Alzheimer's disease in an Italian family**  
VALENTINA NIDIACI, I. DE FRANCO, S. BIANCHI, D. LOPERGOLO, F. GIANNINI, S. MARGOTTI, N. DE STEFANO, A. MIGNARRI (*Siena, Italy*)
- 31 **A pathogenic variant in the FLCN gene presenting with dementia: is autophagy at the intersection between neurodegeneration and cancer?**  
GIANMARCO IACCARINO, I. BOTTILLO, L. LAINO, A. AZZARÀ, C. LINTAS, I. CASSANO, V. DI LAZZARO, F. URSINI, F. MOTOLESE, S. BARGIACCHI, D. FORMICOLA, P. GRAMMATICO, F. GURRIERI (*Rome, Italy*)
- 32 **Beyond the visuospatial and visuoperceptive functions: neuropsychological features in a cohort of patients with Posterior Cortical Atrophy**  
ENRICO BERGAMIN, M. DEL CHICCA, E. DEL PRETE, G. SPADONI, V. NICOLETTI, L. GIAMPIETRI, S. CINTOLI, F. BALDACCI, A. GAYANE, D. VOLTERRANI, G. SICILIANO, G. TOGNONI (*Pisa, Italy*)
- 33 **Safety of iVT in stroke patients with radiological features of Cerebral Amyloid Angiopathy according to Boston 2.0 criteria**  
STEFANO MOZZETTA, F. ROSSATO, A. PETULLÀ, F. FAVURZZO, A. FATTORELLO SALIMBENI, L. DE ROSA, M. ZACCAGNINO, M. ANGLANI, A. PIERONI, F. VIARO, C. BARACCHINI, A. CAGNIN (*Padua, Italy*)

# Poster Session

- 34 **Early-phase AMY-PET versus FDG PET in atypical variants of Alzheimer disease: preliminary data from a multicenter study (AMY-ITA)**  
STEFANO MOZZETTA, F. ROSSATO, I. BITTANTE, A. PETULLÀ, D. CECCHIN, A. CAGNIN (*Padua, Italy*)
- 35 **The discordance between amyloid-PET and A $\beta$ 42 levels in CSF: a case report**  
ENRICO BERGAMIN, M. DEL CHICCA, E. DEL PRETE, V. NICOLETTI, L. GIAMPIETRI, F. BALDACCI, A. GAYANE, D. VOLTERRANI, G. SICILIANO, G. TOGNONI (*Pisa, Italy*)
- 36 **Dynamic reconfiguration of metabolic brain connectivity during progression from MCI to Alzheimer's disease dementia**  
SILVIA PAOLA CAMINITI, A. GALLI, A. SALA, M. INGLESE, L. PRESOTTO, C. TASSORELLI, D. PERANI (*Pavia, Brescia, Rome, Milan - Liege, Belgium*)
- 37 **Individual Alpha Frequency for Diagnosis and Prognosis in Dementia**  
GIORDANO CECCHETTI, E. CANU, S. BASAIA, G. RUGARLI, D. CURTI, F. CORAGLIA, M. CURSI, E. SPINELLI, R. SANTANGELO, F. CASO, G. FANELLI, G. MAGNANI, M. FILIPPI, F. AGOSTA (*Milan, Italy*)



# Poster Session

Friday February 16

## POSTER SESSION

Moderators: ANDREA ARIGHI (*Milan, Italy*)  
LEONARDO BISCETTI (*Ancona, Italy*)  
SILVIA PAOLA CAMINITI (*Pavia, Italy*)  
CHIARA CERAMI (*Pavia, Italy*)  
ANTONIO MALVASO (*Pavia, Italy*)

- 38 **Exploring the effect of sex and ancestry on the variability of APOE genotypes and haplotypes: the case of admixed populations in the Americas**  
PAOLO ABONDIO, N. DE OLIVEIRA ROSA, D. LUISELLI (*Bologna, Pisa, Ravenna, Italy*)
- 39 **Exploring High-Frequency Oscillations as a neurophysiological biomarker of Alzheimer's disease progression among Mild Cognitive Impairment patients**  
DAVIDE NORATA, F. MOTOLESE, C. SMARRA, F. CAPONE, F. PILATO, V. DI LAZZARO (*Rome, Palermo, Italy*)
- 40 **ATN system and disease-modifying treatment eligibility in a hospital-based cohort**  
ELISA CANU, G. RUGARLI, F. CORAGLIA, S. BASAIA, G. CECCHETTI, S. CALLONI, P. VEZZULLI, E. SPINELLI, R. SANTANGELO, F. CASO, A. FALINI, G. MAGNANI, M. FILIPPI, F. AGOSTA (*Milan, Italy*)
- 41 **MRI visual rating scales and amyloid status for the classification of posterior cortical atrophy**  
VERONICA CASTELNOVO, E. CANU, F. GRASSIVARO, G. RUGARLI, S. CALLONI, P. VEZZULLI, F. CASO, P. CAROPPO, C. VILLA, A. FALINI, G. MAGNANI, M. MONTEMBEAULT, R. LEVY, R. MIGLIACCIO, M. FILIPPI, F. AGOSTA (*Milan, Treviso, Italy - San Francisco, USA - Paris, France*)
- 42 **Spontaneous speech alterations and evolution in primary progressive aphasia variants**  
VERONICA CASTELNOVO, E. CANU, L. LUMACA, S. BASAIA, S. SANTICIOLI, E. GATTI, A. LAMANUZZI, E. SPINELLI, G. CECCHETTI, F. CASO, G. MAGNANI, P. CAROPPO, S. PRIONI, C. VILLA, S. CAPPÀ, M. FILIPPI, F. AGOSTA (*Milan, Pavia, Italy*)
- 43 **Computer-based analysis with Machine Learning of language properties in a connected speech task in Primary Progressive Aphasia**  
CARMEN MORINELLI, E. RONDONI, S. MAZZEO, M. LASSI, V. MOSCHINI, D. FRIGERIO, G. GIACOMUCCI, F. EMILIANI, G. GALDO, C. CRUCITTI, B. NACMIAS, S. PADIGLIONI, S. SORBI, A. MAZZONI, V. BESSI (*Florence, Pisa, Italy*)

# Poster Session

- 44 **Decoding the aging process: unveiling aging features through connectome analysis and advanced diffusion-weighted metrics with a machine learning approach**  
SILVIA BASAIA, S. PISANO, E. SIBILLA, E. SPINELLI, E. CANU, M. FILIPPI, F. AGOSTA (*Milan, Brescia, Italy*)
- 45 **NODDI-Machine learning fusion for FTLD differential diagnosis**  
SILVIA BASAIA, S. PISANO, C. CIVIDINI, F. FACENTE, E. SPINELLI, E. CANU, V. CASTELNOVO, G. CECCHETTI, A. GHIRELLI, F. CASO, G. MAGNANI, P. CAROPPO, S. PRIONI, C. VILLA, L. TREMOLIZZO, I. APPOLLONIO, F. VERDE, N. TICOZZI, V. SILANI, M. FILIPPI, F. AGOSTA (*Milan, Monza, Italy*)
- 46 **The role of sex and education in the clinical manifestation and progression of Posterior Cortical Atrophy**  
GIORGIO GIULIO FUMAGALLI, C. FORNARI, A. DODICH, L. SACCHI, A. ARIGHI (*Rovereto TN, Milan, Italy*)
- 47 **Investigating alpha-synuclein co-pathology in Alzheimer's disease by means of cerebrospinal fluid alpha-synuclein seed amplification assay**  
ANDREA TOJA, G. BELLOMO, F. PAOLINI PAOLETTI, Y. MA, C. FARRIS, L. GAETANI, N. SALVADORI, D. CHIASSERINI, A. WOJDALA, C. VERDEROSA, L. CONCHA-MARAMBIO, L. PARNETTI (*Perugia, Italy - San Diego, USA*)
- 48 **Surface-based but not voxel-based morphometry reveals structural abnormalities in individuals with subjective cognitive decline**  
GIULIA CARUSO, G. GIULIETTI, S. BONAROTA, C. DI DOMENICO, M. ASSOIGNA, M. RODINI, L. MENCARELLI, F. DI LORENZO, G. KOCH, L. FADDA, C. CALTAGIRONE, M. BOZZALI, L. SERRA (*Rome, Ferrara, Turin, Italy*)
- 49 **Cognitive and neuropsychological correlation with brain metabolism in C9Orf72 amyotrophic lateral sclerosis patients**  
FABIOLA DE MARCHI, L. MAZZINI, M. SARNELLI, L. CORRADO, R. MATHEOUD, S. D'ALFONSO, R. CANTELLO, G. SACCHETTI, C. COMI, D. PERANI, G. TONDO (*Novara, Milan, Italy*)
- 50 **Association of Alzheimer's Disease biomarkers and clinical findings in a cohort of adults with DS**  
LUISA SAMBATI, G. PIRAZZOLI, M. ROCHAT, N. GROTTESCHI, C. PIRAZZINI, C. PELLEGRINI, A. GHEZZO, F. RAVAIOLI, P. GARAGNANI, R. LODI, C. TONON, C. FRANCESCHI, P. CORTELLI, M. BACALINI (*Bologna, Italy - Nizhny Novgorod, Russia*)
- 51 **The Subjective Cognitive Decline misclassification using commonest screening tests**  
SABRINA BONAROTA, G. CARUSO, C. DI DOMENICO, M. ASSOIGNA, M. RODINI, L. FADDA, F. DI LORENZO, G. KOCH, C. CALTAGIRONE, M. BOZZALI, L. SERRA (*Rome, Ferrara, Turin, Italy*)

# Poster Session

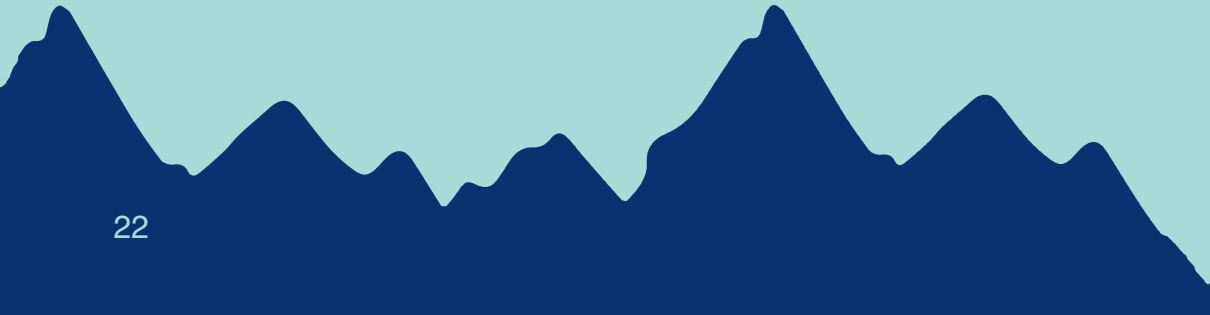
- 52 **Inhibition and facilitation effects along the AD spectrum: a voxel-based morphometry study**  
SABRINA BONAROTA, C. DI DOMENICO, G. CARUSO, V. DE SANGRO, M. ASSOIGNA, M. RODINI, L. MENCARELLI, F. DI LORENZO, G. KOCH, L. FADDA, C. CALTAGIRONE, M. BOZZALI, L. SERRA (*Rome, Ferrara, Turin, Italy*)
- 53 **Autonomic functions and dopaminergic correlates in Dementia with Lewy Body: a preliminary study**  
CHIARA GIUSEPPINA BONOMI, C. MOTTA, C. SERAFINI, R. CAMEDDA, A. CHIARAVALLOTI, C. ROCCHI, A. MARTORANA (*Rome, Italy*)
- 54 **Brain functional connectivity changes and cortical neurotransmitter receptor distribution associated to psychotic symptoms in Alzheimer's disease**  
MATTEO ZAVARELLA, S. BASAIA, E. CANU, G. RUGARLI, E. SPINELLI, G. CECCHETTI, F. CASO, G. MAGNANI, M. FILIPPI, F. AGOSTA (*Milan, Italy*)
- 55 **Resting-state functional connectivity associated with socio-cognitive dysfunction in non-demented Parkinson's disease**  
GIULIA FUNGHI, G. RABINI, C. MELI, C. SPERANZA, L. TURELLA, J. JOVICICH, C. PAPAGNO, A. DODICH (*Rovereto TN, Italy*)
- 56 **Delirium and mortality following Covid-19 infection in older adults with and without neurocognitive disorders: a systematic review**  
LUCIA GUIDI, M. MITOLO, C. LAVEZZI, R. MANCA, C. TONON, R. LODI, A. VENNERI (*Bologna, Parma, Italy - London, Uxbridge, United Kingdom*)
- 57 **Exploring the relationship between L-dopa response and cognitive functions in advanced Parkinson's disease patients: insights from a mixed approach with inertial sensor and REACT.**  
CORRADO CAMPISI, C. ARTUSI, L. SERRA, F. D'AGATA, E. MONTANARO, M. LAUDADIO, G. IMBALZANO, C. LEDDA, M. RIZZONE, M. ZIBETTI, A. ROMAGNOLO, L. LOPIANO, M. BOZZALI (*Turin, Rome, Italy*)
- 58 **Breakdown of TMS evoked EEG signal propagation within the Default mode network in Alzheimer's disease**  
MICHELE MAIELLA, L. MENCARELLI, E. CASULA, I. BORGHI, M. ASSOIGNA, F. DI LORENZO, S. BONNI, V. PEZZOPANE, A. MARTORANA, G. KOCH (*Rome, Ferrara, Italy*)
- 59 **At the crossroads between Frontotemporal Dementia and Alzheimer's Disease: a case report**  
CHIARA SERAFINI, M. BRUNO, C. BONOMI, V. COLONA, C. MOTTA, A. MARTORANA (*Rome, Italy*)
- 60 **Blood-Brain Barrier Dysfunction and CSF Biomarkers of Amyloidopathy, Tauopathy, Neurodegeneration and Inflammation in Early-Stage Alzheimer's Disease and Parkinson's Disease**  
GUIDO MARIA GIUFFRÈ, D. QUARANTA, G. DI LAZZARO, M. G. VITA, S. CITRO, T.G. MORGANTI, A. SCALESE, P. CALABRESI, C. MARRA (*Rome, Italy*)

# Poster Session

- 61 **Combined precuneus transcranial magnetic and electrical stimulation boosts gamma expression and network connectivity with the hippocampus**  
ILARIA BORGHINI, L. MENCARELLI, M. MAIELLA, E. CASULA, M. ASSOGNA, S. BONNI, G. KOCH (*Rome, Italy*)
- 62 **Ménage à trois: cognitive impairment, physical and social frailty in Parkinson's Disease**  
CLAUDIA MELI, G. FUNGHI, C. CERAMI, G. RABINI, L. TURELLA, F. ZAPPINI, C. PAPAGNO, A. DODICH (*Rovereto TN, Pavia, Italy*)
- 63 **The relationship between basic cognitive demands and mentalizing abilities in Amyotrophic Lateral Sclerosis**  
ANDREA PANZAVOLTA, A. DODICH, C. LUNETTA, C. CERAMI (*Pavia, Rovereto TN, Milan, Italy*)
- 64 **Performance and concordance of plasma versus CSF biomarkers of Alzheimer's Disease: a single center Memory Clinic cohort**  
MARTINA POLI, C. BONOMI, M. NUCCETELLI, S. BERNARDINI, C. MOTTA, A. MARTORANA (*Rome, Italy*)
- 65 **CHCHD2 and DNAJC6 double gene mutation in an Italian patient with early-onset Alzheimer's disease**  
FEDERICO MENEGON, F. VIGNAROLI, L. CORRADO, F. DE MARCHI, S. DAFFARA, F. CAUSHI, S. D'ALFONSO, C. COMI, G. TONDO (*Novara, Vercelli, Italy*)
- 66 **Brain hypometabolism and errors on the Clock Drawing Test predict conversion from Mild Cognitive Impairment to Alzheimer's dementia**  
GIACOMO TONDO, F. MENEGON, F. DE MARCHI, M. FILIPPONE, S. CAMINITI, R. MATHEOUD, G. SACCHETTI, G. DECAROLI, D. PERANI, C. COMI (*Vercelli, Novara, Pavia, Milan, Italy*)
- 67 **Cognitive disorders in patient with hematological malignancies treated with CAR-T cell therapy**  
SUSY FERRARI, L. SAMBATI, R. SANTORO, L. CRETTELLA, R. RINALDI, F. RONDELLI, R. D'ANGELO, M. NICODEMO, G. ASIOLI, S. ROSSI, B. CASADEI, P. ZINZANI, F. BONIFAZI, E. PIERUCCI, P. CORTELLI, M. GUARINO (*Bologna, Italy*)
- 68 **Neuroinflammation drives EEG irritative abnormalities in Alzheimer's Disease patients**  
MATILDE BRUNO, A. CASTELLI, C. BONOMI, N. MERCURI, C. MOTTA, A. MARTORANA (*Rome, Italy*)
- 69 **Correlations between CSF biomarkers of Alzheimer's disease, neuropsychological tests and UPDRS-III in a cohort of Parkinson disease patients**  
ALESSANDRO SCALESE, G. GIUFFRÈ, T. MORGANTI, D. QUARANTA, M. VITA, G. DI LAZZARO, A. CIMMINO, F. MUSSO, P. CALABRESI, C. MARRA (*Rome, Italy*)

# Poster Session

- 70 **Macro- and micro-structural preservation of grey matter integrity after 24 weeks of rTMS in Alzheimer's disease patients**  
LUCIA MENCARELLI, M. TORSO, I. BORGHI, M. ASSOGNA, G. RIDGWAY, V. PEZZOPANE, F. DI LORENZO, F. GIOVE, S. CHANCE, G. KOCH (*Rome, Italy - Oxford, United Kingdom*)
- 71 **Semantic Distance of Paired Associated Learning Test Items: A Qualitative Scoring Approach**  
MATTEO DE MARCO, A. VENNERI (*London, Uxbridge, United Kingdom*)
- 72 **The interplay of Synaptic dysfunction and Neuronal, Glial, Inflammatory alterations in Alzheimer's Disease using Cerebrospinal Fluid**  
CHIARA TRASCIATTI, A. PILOTTO, V. QUARESIMA, C. TOLASSI, M. PARIGI, A. GALLI, E. MARCELLO, A. CANALE, C. TIRLONI, S. PELUCCHI, A. BENUSSI, B. CARATTOZZOLO, B. BORRONI, M. DI LUCA, S. GILIANI, A. PADOVANI (*Brescia, Milan, Padua, Italy*)



# General informations

## **Congress Venue**

Accademia Cusano  
Piazza Seminario, 2  
39042 Bressanone (BZ)  
Tel. 0039 0472 832204  
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## **Organizing Secretariat**

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- Official language will be English



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