

# SINdem4Juniors

## 12<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 5-7, 2025

Bressanone, Italy  
Dolomiti – Sud Tirol



# SINdem4Juniors

## Scientific Committee

Andrea Arighi (*Milan, Italy*)  
Carlo Alberto Artusi (*Turin, Italy*)  
Alberto Benussi (*Trieste, Italy*)  
Marco Bozzali (*Turin, 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*)  
Luisa Sambati (*Bologna, Italy*)  
Laura Serra (*Rome, Italy*)

# Wednesday February 5

15.30 Registration

15.45 Opening

ALBERTO BENUSSI (*Trieste, Italy*)

MARCO BOZZALI (*Turin, Italy*)

## CONTAMINATION SESSION

Moderators: GIULIA GIACOMUCCI (*Florence, Italy*)

MATTEO DE MARCO (*London, United Kingdom*)

16.00 **Dream Hacking: The Cognitive Neuroscience of Lucid Dreaming**

MARTIN DRESLER (*Nijmegen, The Netherlands*)

16.40 **Resurrecting the Past: Exploring the Genomic Boundaries of De-extinction**

WILLIAM BARRIE (*Cambridge, United Kingdom*)

17.30 Coffee break

Moderators: SALVATORE MAZZEO (*Milan, Italy*), LUISA SAMBATI (*Bologna, Italy*)

18.00 **Lost Connections: The Role of Synapses in Memory Decline**

SILVIA PELUCCHI (*Milan, Italy*)

18.40 **Turning Science into Solutions: NKCC1 Inhibition and the Path to Brain Health**

LAURA CANCEDDA (*Genoa, Italy*)

20.00 Dinner

# Thursday February 6

12.00 Lunch

## SESSION I

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

13.30 **The Biological Framework of Parkinson's disease**  
GUNTER HÖGLINGER (*Münich, Germany*)

## ORAL COMMUNICATION

13.50 **Neuropsychological and affective-behavioral profile as a multidimensional biomarker in isolated REM sleep behavior disorder**  
FELICE DI LAUDO, L. BALDELLI, L. SAMBATTI, D. CIMATTI, G. LODDO, G. MAINIERI, P. CORTELLI, G. CALANDRA-BUONaura, F. PROVINI (*Bologna, Italy*)  
**Spatiotemporal Deep Neural Networks for differentiation of iRBD, Parkinson's Disease, and controls using rs-fMRI**  
STEFANO PISANO, S. BASAIA, T. FILAFERRO, E. SARASSO, A. GARDONI, S. MARELLI, R. BALESTRINO, L. ZENERE, A. CASTELNUOVO, A. GRASSI, M. MALCANGI, R. DE MICCO, A. TESSITORE, L. FERINI-STRAMBI, M. SALVI, F. MOLINARI, M. FILIPPI, F. AGOSTA (*Milan, Turin, Naples, Italy*)

## FLASH POSTER

14.10 **Unveiling Dopaminergic Degeneration Patterns: Symmetry in Dementia with Lewy Bodies and Parkinson's Body-First and Brain-First Subtypes**  
ENRICO BERGAMIN, G. PALERMO, G. BELLINI, I. MENCHETTI, M. G. TEDESCHI, R. MORGANTI, G. AGHAKHANYAN, L. TOMMASINI, D. FROSINI, E. DEL PRETE, D. VOLTERRANI, R. CERAVOLO (*Pisa, Italy*)

14.15 **Sex differences in Parkinson's Disease: focus on cognitive and neurobehavioral symptoms**  
MASSIMO FAVARO, C. LONGO, D. OTTAVIANI, A. DODICH, C. PAPAGNO (*Rovereto, Italy*)

14.20 **Plasma NfL, GFAP and P-Tau181 as stratifiers of alpha-synucleinopathies, from prodromal to early stages**  
KLAUDIA ESHJA, A. PILOTTO, I. GIROTTA, C. TOLASSI, A. LUPINI, C. ZATTI, A. RIZZARDI, M. CATANIA, L. PURIN, M. PASOLINI, C. LIGUORI, N. MERCURI, M. FERNANDES, K. KULCSÁROVÁ, M. SKOVARNEK, E. SCHAEFFER, D. BERG, A. PADOVANI (*Brescia, Rome, Italy – Košice, Slovakia – Kiel, Germany*)

14.25 Open discussion

# Thursday February 6

## AIRALZH SESSION

### Cultivating the Next Generation of Brain Researchers

Moderators: BENEDETTA NACMIAS (*Florence, Italy*)

PAOLO CAFFARRA (*Parma, Italy*)

FEDERICO MASSA (*Genoa, Italy*)

- 14.40 **A novel SERS-based device for the early-stage diagNoSis Of Alzheimer's Disease through blood samples screening (SENSOR)**  
CATERINA DALLARI (*Sesto Fiorentino, Italy*)
- 14.50 **Astrocyte reactivity in ApoE3 and ApoE4 carriers: a focus on the role of PPAR $\gamma$  in Alzheimer's disease**  
ERICA STAURENGHI (*Turin, Italy*)
- 15.00 **Unraveling the microstructural differences in vivo between white matter hyper-intensities in Alzheimer's disease and in cerebral small vessel disease in two large preclinical cohorts**  
FEDERICO MASSERINI (*Milan, Italy*)
- 15.10 **Hydroxytyrosol of olive oil: a promising bioactive compound to prevent hyperphosphorylation of tau protein in Alzheimer's disease**  
GABRIELLA TESTA (*Turin, Italy*)
- 15.20 **Alzheimer's Disease risk factor TREM2 as sex-dependent regulator of capillary-associated microglia: implications for disease risk and progression**  
MARCO RASILE (*Milan, Italy*)
- 15.30 **Exploring if and how LRRK2-mediated neuroinflammation might lead to Tau pathology in Alzheimer's Disease**  
VERONICA MUTTI (*Brescia, Italy*)
- 15.40 Open discussion
- 16.00 Coffee break

# Thursday February 6

## SESSION II

Moderators: MARTINA ASSOGNA (*Rome, Italy*), GIUSEPPE ROCCA (*Piacenza, Italy*)

- 16.30 **The Future of Brain Stimulation: Harnessing Temporal Interference for Non-Invasive Deep Brain Treatment**  
EDWARD RHODES (*London, United Kingdom*)
- 16.50 **ORAL COMMUNICATION**  
**Impaired prefrontal cortex-raphe circuit is associated with Alzheimer's disease cognitive impairments in the 3xTg mice: is it a breeding ground for tACS?**  
MARCO CAMBIAGHI, F. MARCHIOTTO, A. PIGOZZI, R. MAZZIOTTI, S. COMAI, M. BUFFELLI (*Verona, Pisa, Padua, Italy*)
- 17.00 **Theta rhythm and default mode network in prodromal stage of dementia: a simultaneous resting state EEG-fMRI study**  
ANGELICA DI CECCA, A. DI CECCA, E. CHIAPPINI, M. MIGLIACCIO, C. CAVALIERE, M. AIELLO, A. GABDULKHAKOV, E. GENC, E. SALVATORE (*Naples, Italy -Dortmund, Germany*)
- 17.10 **FLASH POSTER**  
**Distinct resting-state EEG biomarkers predict amyloid status and conversion to Alzheimer's dementia in a memory center population**  
GIORDANO CECCHETTI, S. BASAIA, M. CURSI, E. SPINELLI, E. CANU, E. SIBILLA, F. CASO, R. SANTANGELO, G. FANELLI, G. MAGNANI, M. FILIPPI, F. AGOSTA (*Milan, Italy*)
- 17.15 **The effect of transcranial direct current stimulation (tDCS) in patients with amnestic mild cognitive impairment (MCI)**  
SUSY FERRARI, R. SANTORO, L. SAMBATI, M. SANTUCCI, L. CRETTELLA, L. CIVOLANI, P. RUCCI, M. GUARINO (*Bologna, Italy*)
- 17.20 **Basal and dynamic evaluation of cerebral blood flow in Cerebral Amyloid Angiopathy by Transcranial Color Doppler: a useful tool?**  
STEFANO CAVATORTI, S. MOZZETTA, F. ROSSATO, A. FATTORELLO SALIMBENI, L. DE ROSA, F. VIARO, A. PIERONI, M. ZACCAGNINO, C. BARACCHINI, A. CAGNIN (*Padua, Italy*)
- 17.25 Open discussion
- 18.00 **POSTER SESSION**
- 19.00 Dinner

# Thursday February 6

## FLASH POSTER

15.10

**Targeting VDAC1 as a pharmacological tool counteracting amyloid-beta mitochondrial toxicity in Alzheimer's disease**

STEFANO CONTI NIBALI, F. CAVALLARO, S. CUBISINO, P. CARUSO, S. ZIMBONE, I. INFANTINO, S. REINA, V. DE PINTO, A. MESSINA, M. GIUFFRIDA, A. MAGRÌ (*Catania, Italy*)

## SESSION III

20.35

**Beyond the Plaques: How Systemic Diseases Shapes Cognitive Aging**

IRINA ALAFUZOFF (*Uppsala, Sweden*)

# Friday February 7

## EDUCATIONAL WORKSHOP

### **Lost in Meditation**

Moderators: LUCY CORE (*London, United Kingdom*)

MICHAELA MITOLO (*Parma, Italy*)

CHIARA CERAMI (*Pavia, Italy*)

- 10.00 **Can Mindfulness and Compassion Meditation Practices Influence Ageing?**  
NATALIE L. MARCHANT (*London, United Kingdom*)

- 10.30 **Can a Neandertal Meditate? A Darwinian View on Sustained Intentional Awareness**  
EMILIANO BRUNER (*Madrid, Spain*)

- 11.00 **Mindfulness Experience: Practical Session**  
VALENTINA TURRA (*Brescia, Italy*)

- 11.30 Open discussion

- 12.30 Lunch

## SESSION IV

Moderators: PILAR MARIA FERRARO (*Genoa, Italy*), ELISA CANU (*Milan, Italy*)

### **Mapping the Mind: Unveiling Neurotransmitter Dynamics with Pharmacological fMRI**

- 14.00 OTTAVIA DIPASQUALE (*London, United Kingdom*)

- 14.20 ANNALENA VENNERI (*Parma, Italy*)

### ORAL COMMUNICATION

### **Organizational principles of the cerebral cortex predict cognitive decline in the Alzheimer's Disease spectrum**

ARIANNA MENARDI, B. LA ROCCA, C. SAGLAM, F. ALBERTI, D. CECCHIN, A. VENERI, A. CAGNIN, A. VALLESI (*Padua, Parma, Italy - Paris, France*)

- 15.00 **The Neural Bases of Musical Object Processing in Dementia**

LUCY CORE, B. LEVETT, S. FROUD, C. HARDY, J. JIANG, J. WARREN (*London, United Kingdom*)

# Friday February 7

## FLASH POSTER

15.10

### **Exploring the role of Klotho as a potential biomarker of choroid plexus dysfunction in neurodegeneration**

LUCA SACCHI, M. ARCARO, G. BOCCA, L. SCHMID, T. CARANDINI, M. PINTUS, A. PIETROBONI, L. GHEZZI, C. FENOGLIO, M. SERPENTE, G. CONTE, F. TRIULZI, D. GALIMBERTI, A. ARIGHI (*Milan, Italy - Heidelberg, Germany*)

15.15

### **Multi-modal investigation of the role of brain gyration in early Alzheimer's disease**

MARCO MICHELUTTI, A. BENUSSI, T. CATTARUZZA, P. MANGANOTTI (*Trieste, Italy*)

15.20

### **Exploring the Amygdalar Atrophy Scale in Clinical Settings: Findings from a Memory Clinic Cohort**

FAUSTO ROVETA, F. PIZZINI, V. NATALE, M. SCHEFFLER, V. GARIBOTTO, A. MENDES, C. WANG, A. LATHUILIERE, C. CHICHERIO, I. RAINERO, G. FRISONI, F. RIBALDI (*Turin, Verona, Italy - Geneve, Switzerland*)

15.25

Open discussion

16.00

Coffee break

## SESSION V

Moderators: VALENTINA MOSCHINI (*Florence, Italy*)

LAURA SERRA (*Rome, Italy*)

ALESSANDRA DODICH (*Rovereto, Italy*)

16.30

### **A Network Psychometric Approach to Neurocognition in Neurodegenerative Disorders**

CAMERON FERGUSON (*Bristol, United Kingdom*)

## ORAL COMMUNICATION

16.50

### **Optimising the detection of early Alzheimer's Disease using an automated cognitive assessment system and linguistic features**

RONAN O'MALLEY, D. BLACKBURN, A. VENNERI (*Sheffield, London, United Kingdom*)

17.00

### **Sentence comprehension deficits in Italian and English nfPPA: A cross-linguistic perspective**

Laura Lumaca, E. Canu, G. Santi, F. Freri, Z. Miller, D. Baquirin, V. Castelnuovo, S. Cappa, J. De Leon, B. Tee, M. Gorno-Tempini, M. Filippi, F. Agosta (*Milan, Pavia, Italy – San Francisco, Ca, Usa*)

# Friday February 7

## FLASH POSTER

- 17.10 **Discrepancy in apathy evaluation between Parkinson's Disease patients and caregivers**  
GIULIA FUNGHI, F. FABRIS, C. MELI, C. SPERANZA , G. RABINI , G. FUMAGALLI , F. ZAPPINI , R. DI GIACOPO, S. TAMBALO, L. TURELLA , J. JOVICICH , C. PAPAGNO, A. DODICH (*Rovereto, Italy*)

- 17.15 **Beyond language: empathy and emotion recognition in Primary Progressive Aphasias**

CHIARA CRUCITTI, G. GIACOMUCCI, V. MOSCHINI, S. MAZZEO, S. PADIGLIONI, G. GALDO, F. EMILIANI, C. MORINELLI, S. BAGNOLI, A. INGANNUATO, B. NACMIAS, S. SORBI, V. BERTI, V. BESSI (*Florence, Milan, Italy*)

- 17.20 **Unveiling Social Awareness and Empathy Deficits: Diagnostic Value of Informant-Based Questionnaires in the Frontotemporal Dementia Spectrum**

ANDREA PANZAVOLTA, A. DODICH, M. AVENALI, R. DE ICCO, M. COTTA RAMUSINO, G. PERINI, A. COSTA, C. TASSORELLI, C. CERAMI (*Pavia, Rovereto, Italy*)

- 17.25 Open discussion

- 18.00 **POSTER SESSION**

- 19.00 Dinner

Moderators: CHIARA GIUSEPPINA BONOMI (*Rome, Italy*)

FRANCESCO DI LORENZO (*Rome, Italy*)

## FLASH POSTER

- 20.30 **Migrating the use of plasma p-tau217 from research setting to clinical practice: a real-world study in Subjective Cognitive Decline and Mild Cognitive Impairment**

GIULIA GIACOMUCCI, C. CRUCITTI, A. INGANNUATO, S. BAGNOLI, E. MARCANTELLI, S. PADIGLIONI, V. MOSCHINI, C. MORINELLI, S. MAZZEO, S. SORBI, B. NACMIAS, V. BESSI (*Florence, Italy*)

## SESSION VI

- 20.35 **Shaping the Future of Alzheimer's Disease Research**  
NIKLAS MATTSSON-CARLGREN (*Lund, Sweden*)

- 21.00 Award Ceremony  
ALBERTO BENUSSI (*Trieste, Italy*)

# Poster Session

Thursday February 6

## POSTER SESSION

Moderators: SABRINA BONAROTA (*Rome, Italy*)  
ALESSANDRO BOMBACI (*Milan, Italy*)  
ANGELICA DI CECCA (*Naples, Italy*)  
DAVIDE NORATA (*Rome, Italy*)  
FAUSTO ROVETA (*Turin, Italy*)  
LUCA SACCHI (*Milan, Italy*)  
FRANCESCA VOZZO (*Rome, Italy*)

- 1 **Memory improvement induced by rivastigmine treatment via modulation of functional connectivity associated with nicotinic receptor distribution in Alzheimer's disease**  
RICCARDO MANCA, M. DE MARCO, A. VENNERI (*Parma, Italy - Uxbridge, United Kingdom*)
- 2 **A case of early onset Alzheimer's disease presenting as Corticobasal Syndrome: diagnostic assessment and combined therapeutic interventions**  
SILVIA LEONE, G. PERINI, C. IMBIMBO (*Pavia, Italy*)
- 3 **Sulcal morphology analysis to differentiate behavioral variant frontotemporal dementia from psychiatric disorders**  
GIORGIO GIULIO FUMAGALLI, C. FORNARI, L. SACCHI, A. ARIGHI, D. GALIMBERTI (*Rovereto TN, Milan, Italy*)
- 4 **Development of cognitive/behavioral disturbances in motor neuron diseases with pure motor onset: can we predict it?**  
PILAR MARIA FERRARO, P. FERRARO, M. BICAJ, F. OLIVERI, C. ROSSI, C. CABONA, C. GEMELLI, A. UCCELLI, A. SCHENONE (*Genoa, Italy*)
- 5 **Awareness of mild behavioral symptoms in motor neuron diseases: a pilot study along the neuropsychological axis**  
FRANCESCA OLIVERI, F. OLIVERI, M. BICAJ, C. ROSSI, C. CABONA, C. GEMELLI, A. UCCELLI, A. SCHENONE, P. FERRARO (*Genoa, Italy*)
- 6 **Prevalence of cognitive impairment in motor neuron diseases: alternative norming methods lead to considerably diverse estimates**  
FRANCESCA OLIVERI, F. OLIVERI, M. BICAJ, C. ROSSI, C. CABONA, C. GEMELLI, A. UCCELLI, A. SCHENONE, P. FERRARO (*Genoa, Italy*)
- 7 **Prasinezumab: A Bayesian Perspective on its efficacy**  
MIRELLA RUSSO, T. COSTA, D. CALISI, G. POLITO, M. SANTILLI, S. MELCHIORRE, C. CIPRIETTI, S. SENSI (*Chieti, Italy*)

# Poster Session

- 8 Targeting VDAC1 as a pharmacological tool counteracting amyloid-beta mitochondrial toxicity in Alzheimer's disease**  
STEFANO CONTI NIBALI, F. CAVALLARO, S. CUBISINO, P. CARUSO, S. ZIMBONE, I. INFANTINO, S. REINA, V. DE PINTO, A. MESSINA, M. GIUFFRIDA, A. MAGRI (*Catania, Italy*)
- 9 Metabolic subtypes of Posterior Cortical Atrophy: a data-driven approach controlling for pathophysiology-related hypometabolism**  
DANIELE LICCIARDO, M. GUERINI-ROCCO, F. FERRI, C. CRIVELLARO, S. MORZENTI, I. APPOLLONIO, C. FERRARESE, V. ISELLA (*Milan, Italy*)
- 10 Impact of socio-demographic characteristics and cognitive-functional impairment on dyad: conclusive results of a longitudinal study**  
DANIELA MANCINI, M. MAFFONI, A. PIEROBON, V. TORLASCHI, R. MAESTRI, C. FUNDARÒ (*Milan, Montescano Pavia, Italy*)
- 11 A narrative review on non-pharmacological approaches for the management of Impulsive Control Disorders (ICDs) in Parkinson's Disease (PD). Is it worth betting on neuromodulation?**  
STEFANO TERRUZZI, M. ROSANOVA, C. PERIN (*Milan, Italy*)
- 12 Visual Pareidolia in non-demented patients of a Stroke Unit**  
GIULIANO FERNANDO PATANÈ , A. PJECI, M. RUSSO, A. THOMAS, S. SENSI (*Chieti, Italy*)
- 13 Cognitive or psychological disorder? Preliminary data from a validation study of a new multidimensional screening tool for subjective cognitive decline**  
MARINA MAFFONI, A. MAGNANI, D. MANCINI, A. PIEROBON, V. TORLASCHI, C. FUNDARÒ (*Montescano, Pavia, Italy*)
- 14 Short- and long-term clinical outcomes of systemic thrombolysis in patients with cerebral amyloid angiopathy: a single centre study**  
ALESSANDRO PETULLÀ, S. MOZZETTA, M. ZACCAGNINO, A. FATTORELLO SALIMBENI, F. ROSSATO, V. CARLUCCI, D. FASOLATO, N. RAVI, A. ACERBI, G. FREDIANELLI, F. Favruzzo, L. De ROSA, S. CAVATORTI, A. PIERONI, F. VIARO, M. ANGLANI, C. BARACCHINI, A. CAGNIN (*Padua, Italy*)
- 15 Exploring the correlation and diagnostic accuracy between plasma and cerebro-spinal fluid biomarkers in Alzheimer's disease**  
TIZIANA MARIA ISABELLA LOMBARDI, M. MICHELUTTI, B. TOFFOLETTO, F. SIRIANNI, V. CENACCHI, L. PELUSI, A. PEREGO, A. MENICHELLI, T. CATTARUZZA, A. BENUSSI, P. MANGANOTTI (*Trieste, Italy*)
- 16 The impact of amyloid burden on EEG spectral dynamics in Alzheimer's Disease**  
VALENTINA CENACCHI, F. BIADUZZINI, M. MICHELUTTI, T. LOMBARDI, L. PELUSI, A. BENUSSI, T. CATTARUZZA, P. MANGANOTTI (*Trieste, Italy*)

# Poster Session

- 17 **Inside and outside the body space: a study on environmental knowledge, interoceptive and functional body representations in Mild Cognitive Impairment**  
GAIA GALLUZZI , F. MOGAVERO, E. DOLCE, S. RAIMO, A. DI VITA, M. SEPE MONTI, G. TALARICO, G. BRUNO, F. D'ANTONIO, L. PALERMO (*Rome, Catanzaro, Italy*)
- 18 **Genetic evidence for a link between frontotemporal dementia and Parkinson's disease: the case of RAB32 Ser71Arg**  
ANDREA PANZAVOLTA , F. CAVALIERI, F. VALZANIA, M. RADEFELDT, S. LEMKE, J. PAUL, F. CURADO, P. BAUER, C. BEETZ, C. CERAMI (*Pavia, Reggio Emilia, Italy - Rostock, Germany*)
- 19 **Artificial intelligence classifies Parkinson's Disease from connected speech**  
SIMONA ARESTA, P. BATTISTA, C. PALMIROTTA, C. LUNETTA, B. MINAFRA, A.M. GARCIA, C. SALVATORE (*Pavia, Milan, Bari, Italy - Buenos Aires, Argentina*)
- 20 **Gender differences in Cognitive Reserve in Subjective Cognitive Decline: a problem of belonging generation?**  
VALENTINA MOSCHINI, G. GIACOMUCCI, S. PADIGLIONI, C. MORINELLI, C. CRUCITTI, F. EMILIANI, D. FRIGERIO, G. GALDO, B. BAGNOLI, I. INGANNATO, B. NACMIAS, S. SORBI, V. BESSI (*Florence, Italy*)
- 21 **Lab and at-Home tDCS combined with Cognitive Rehabilitation improves Cognitive Outcomes 2-years after a TBI: A Case Study**  
MARIA TAGLIAFERRI, G. BARBIERI, A. CAROPRESE, G. ROCCA (*Piacenza, Italy*)
- 22 **Basal and dynamic evaluation of cerebral blood flow in Cerebral Amyloid Angiopathy by Transcranial Color Doppler: an useful tool?**  
STEFANO CAVATORTI, S. MOZZETTA, F. ROSSATO, A. FATTORELLO SALIMBENI, L. DE ROSA, F. VIARO, A. PIERONI, M. ZACCAGNINO, C. BARACCHINI, A. CAGNIN (*Padua, Italy*)
- 23 **The Italian version of the Picture Story Task to Unveil Theory of Mind Deficits in Frontotemporal Dementia**  
EMANUELE LUCA GINEVRA, C. MOTTA, M. POLI, I. BARBERIS, A. MARTORANA, C. BONOMI (*Rome, Italy*)
- 24 **Minor visual phenomena in LBD: a systematic review**  
ELETTTRA CAPOGINA, V. POLLARINI, A. QUINZI, L. GUIDI, A. VENNERI, R. LODI, C. TONON, L. SAMBATI, M. MITOLO (*Bologna, Parma, Italy - London, United Kingdom*)
- 25 **Category Fluency clustering and switching abilities in individuals with mild cognitive impairment and Alzheimer's dementia: A meta-analysis of the literature**  
MATTEO DE MARCO, S. DI TELLA, L. WRIGHT (*Uxbridge, Newcastle-Upon-Tyne, United Kingdom - Milan, Italy*)
- 26 **Atypical presentations of Lewy bodies disease misdiagnosed with limbic encephalitis or epileptic seizures: a case series with EEG and FDG-PET/MRI findings**  
GIORGIO FREDIANELLI, A. ACERBI, D. FASOLATO, V. CARLUCCI, N. RAVI, F. ROSSATO, M. ZOCCARATO, S. MOZZETTA, D. CECCHIN, M. CORBETTA, A. CAGNIN (*Padua, Italy*)

# Poster Session

- 27 **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, G. TOGNONI, E. BERGAMIN, M. DEL CHICCA, V. NICOLETTI, L. GIAMPIETRI, L. PETROZZI, G. SICILIANO, R. CERAVOLO, F. BALDACCI (*Pisa, Italy*)
- 28 **Neurogranin as a central synaptic biomarker linked to mild inflammation in early stages of Alzheimer's disease**  
CATERINA MARTINUZZO, C. TRASCIATTI, A. PILOTTO, C. TOLASSI, V. QUARESIMA, S. PELUCCHI, L. D'ANDREA, R. STRINGHI, B. AKSAN, S. CARATOZZOLO, A. GALLI, D. MAUCERI, E. MARCELLO, M. DI LUCA, A. PADOVANI (*Brescia, Milan, Italy - Heidelberg, Germany*)
- 29 **Plasma NfL, GFAP and P-Tau181 as stratifiers of alpha-synucleinopathies, from prodromal to early stages**  
KLAUDIA ESHJA, A. PILOTTO, I. GIROTTO, C. TOLASSI, A. LUPINI, C. ZATTI, A. RIZZARDI, M. CATANIA, L. PURIN, M. PASOLINI, C. LIQUORI, N. MERCURI, M. FERNANDES, K. KULCSÁROVÁ, M. SKOVARNEK, E. SCHAEFFER, D. BERG, A. PADOVANI (*Brescia, Rome, Italy - Košice, Slovakia - Kiel, Germany*)
- 30 **Behavioral disturbances in Primary Progressive Aphasia: a longitudinal comparative pilot study**  
ENRICO BERGAMIN, V. NICOLETTI, S. CINTOLI, A. GAYANE, D. VOLTERRANI, G. SICILIANO, G. TOGNONI (*Pisa, Italy*)
- 31 **AI-based clinical profiling of subjects at risk of Alzheimer's Disease dementia**  
SIMONA ARESTA, D. FAZZINI, M. ZANARDO, P. VITALI, R. NEMNI, F.B. PIZZINI, I. CASTIGLIONI, C. SALVATORE (*Pavia, Milan, Verona, Italy*)
- 32 **Sex differences in Parkinson's Disease: focus on cognitive and neurobehavioral symptoms**  
MASSIMO FAVARO, C. LONGO, D. OTTAVIANI, A. DODICH, C. PAPAGNO (*Rovereto TN, Italy*)
- 33 **Acute neuropsychiatric deficits with hypermetabolism of the bilateral amygdala: the dilemma between autoimmune encephalitis and Lewy body disease**  
AMEDEO ACERBI, G. FREDIANELLI, N. RAVI, A. PETULLÀ, S. MOZZETTA, A. CAGNIN (*Mantova, Padua, Italy*)
- 34 **Mindfulness as a Promising Supportive Therapeutic Tool for Cognitive and Psychological Symptoms in Alzheimer's Disease: a Systematic Review**  
GIULIA GALDO, V. MOSCHINI, V. BESSI (*Florence, Italy*)
- 35 **Application of a two-step workflow for AD risk stratification in a single-center Memory Clinic cohort**  
ILARIA BARBERIS, M. POLI, C. BONOMI, M. NUCCETELLI, S. BERNARDINI, N. MERCURI, C. MOTTA, A. MARTORANA (*Rome, Italy*)

# Poster Session

- 36 Cognitive effects of Aromatase Inhibitors and Chemotherapy in Breast Cancer Survivors**  
MARIA GISTRO, G.M. GIUFFRE, G. MASONE IACOBUCCI, A. TANZILLI, I. PARIS, A. PALAZZO, V. MORGANTI, L. CARBOGNIN, D. RAFFAELE, V. ROSSI, V. VILLANI, D. CORSI, M. RICCI, F. MOFFA, G. SCAMBIA, M. C. CERCATO, A. FABI, C. MARRA (*Rome, Italy*)
- 37 Astrocyte Reactivity in Alzheimer's Disease: Implications for Blood-Brain Barrier permeability**  
MARTINA POLI, C. BONOMI, A. MARTORANA, N. MERCURI, C. MOTTA (*Rome, Italy*)
- 38 Unveiling Dopaminergic Degeneration Patterns: Symmetry in Dementia with Lewy Bodies and Parkinson's Body-First and Brain-First Subtypes**  
ENRICO BERGAMIN, G. PALERMO, G. BELLINI, I. MENCHETTI, M.G. TEDESCHI, R. MORGANTI, G. AGHAKHANYAN, L. TOMMASINI, D. FROSINI, E. DEL PRETE, D. VOLTERRANI, R. CERAVOLO (*Pisa, Italy*)
- 39 Distinct resting-state EEG biomarkers predict amyloid status and conversion to Alzheimer's dementia in a memory center population**  
GIORDANO CECCHETTI, S. BASAIA, M. CURSI, E. SPINELLI, E. CANU, E. SIBILLA, F. CASO, R. SANTANGELO, G. FANELLI, G. MAGNANI, M. FILIPPI, F. AGOSTA (*Milan, Italy*)
- 40 The effect of transcranial direct current stimulation (tDCS) in patients with amnestic mild cognitive impairment (MCI)**  
SUSY FERRARI, R. SANTORO, L. SAMBATI, M. SANTUCCI, L. CRETELLA, L. CIVOLANI, P. RUCCI, M. GUARINO (*Bologna, Italy*)

# Poster Session

## Friday February 7

### POSTER SESSION

Moderators: ANDREA ARIGHI (*Milan, Italy*)  
LEONARDO BISCETTI (*Ancona, Italy*)  
MARINA MAFFONI (*Pavia, Italy*)  
MARTA PENGÖ (*Milan, Italy*)

- 41 Exploring the effect of sex and ancestry on the variability of APOE genotypes and haplotypes: the case of admixed populations in the Americas**  
CHIARA CRUCITTI, G. GIACOMUCCI, V. MOSCHINI, S. MAZZEO, S. PADIGLIONI, G. GALDO, F. EMILIANI, C. MORINELLI, S. BAGNOLI, A. INGANNATO, B. NACMIAS, S. SORBI, V. BERTI, V. BESSI (*Florence, Milan, Italy*)
- 42 Unveiling Social Awareness and Empathy Deficits: Diagnostic Value of Informant-Based Questionnaires in the Frontotemporal Dementia Spectrum**  
ANDREA PANZAVOLTA, A. DODICH, M. AVENALI, R. DE ICCO, M. COTTA RAMUSINO, G. PERINI, A. COSTA, C. TASSORELLI, C. CERAMI (*Pavia, Rovereto TN, Italy*)
- 43 Migrating the use of plasma p-tau217 from research setting to clinical practice: a real-world study in Subjective Cognitive Decline and Mild Cognitive Impairment**  
GIULIA GIACOMUCCI, C. CRUCITTI, A. INGANNATO, S. BAGNOLI, E. MARCANTELLI, S. PADIGLIONI, V. MOSCHINI, C. MORINELLI, S. MAZZEO, S. SORBI, B. NACMIAS, V. BESSI (*Florence, Italy*)
- 44 Multi-modal investigation of the role of brain gyration in early Alzheimer's disease**  
MARCO MICHELUTTI, A. BENUSSI, T. CATTARUZZA, P. MANGANOTTI (*Trieste, Italy*)
- 45 Exploring the Amygdalar Atrophy Scale in Clinical Settings: Findings from a Memory Clinic Cohort**  
FAUSTO ROVETA, F. PIZZINI, V. NATALE, M. SCHEFFLER, V. GARIBOTTO, A. MENDES, C. WANG, A. LATHUILIERE, C. CHICHERIO, I. RAINERO, G. FRISONI, F. RIBALDI (*Turin, Verona, Italy - Geneve, Switzerland*)
- 46 Discrepancy in apathy evaluation between Parkinson's Disease patients and caregivers**  
GIULIA FUNGHI, F. FABRIS, C. MELI, C. SPERANZA, G. RABINI , G. FUMAGALLI, F. ZAPPINI, R. DI GIACOPO, S. TAMBALO, L. TURELLA, J. JOVICICH , C. PAPAGNO, A. DODICH (*Rovereto TN, Italy*)
- 47 Psychosocial and Behavioural Interventions in Cognitively Healthy Older Adults: A Systematic Review of Randomized Controlled Trials**  
GIULIA REMOLI, G. VOLPARA, S. GIANNONI, G. KHACHVANI , U. NENCHI, O. SAYIN, R. MULARGIA, S. CAPPA, G. FRISONI, F. RIBALDI, A. MENDES (*Monza, Pavia, Bari, Cagliari, Italy - Geneve, Switzerland*)

# Poster Session

- 48 Exploring the Impact of Insulin Resistance on Cognitive Performance and CSF Alzheimer's Disease Biomarkers**  
GUIDO MARIA GIUFFRÈ, D. QUARANTA, A. SCALESE, F. DONNARUMMA, T.G. MORGANTI, M. G VITA, P. CALABRESI, C. MARRA (*Rome, Italy*)
- 49 Clinical features, neuropsychological profile and progression of Mild Cognitive Impairment in psychiatric disorders**  
MATTEO ANSELMI, A. MELE, F. MENEGON, M. SACCHETTI, G. DECAROLI, F. DE MARCHI, C. COMI, L. MAZZINI, G. TONDO (*Trento, Novara, Italy*)
- 50 Global vs local processing abilities in an early presentation of PCA**  
BEATRICE FEDER, S. TERRUZZI, C. PAPAGNO (*Rovereto TN, Italy*)
- 51 Plasma p-tau181 as a marker of progression to Alzheimer's Disease dementia in Subjective Cognitive Decline and Mild Cognitive Impairment**  
GIULIA GIACOMUCCI, S. BAGNOLI, A. INGANNATO, C. CRUCITTI, S. PADIGLIONI, V. MOSCHINI, C. MORINELLI, E. MARCANTELLI, S. MAZZEO, S. SORBI, B. NACMIAS, V. BESSI (*Florence, Milan, Italy*)
- 52 Design and validation of a genetically encoded tool for the study of the synaptic proteome in mouse models of aging and neurodegeneration**  
MARCO MAINARDI (*Padua, Italy*)
- 53 Exploring mechanisms of differential vulnerability in Early-Onset vs. Late-Onset sporadic Frontotemporal Dementia: a single-center longitudinal study**  
CHIARA GIUSEPPINA BONOMI, C. MOTTA, S. FALLETTI, E. GINEVRA, N. MERCURI, A. MARTORANA (*Rome, Italy*)
- 54 The Influence of Cognitive Function on Non-Motor Fluctuations in Parkinson's Disease: Insights from the NoMoFA Scale**  
SILVIA GALLO, C. LEDDA, A. ROMAGNOLO, L. LOPIANO, D. RINALDI, S. GALLI, R. ERRO, M. PICILLO, P. BARONE, G. DONZUSO, C. TERRAVECCHIA, M. FILIPPI, R. BALESTRINO, A. NICOLETTI, P. MARTINEZ-MARTIN, F. AGOSTA, C. ARTUSI (*Aosta, Turin, Rome, Salerno, Catania, Milan, Italy - Madrid, Spain*)
- 55 COVID-19 and first manic episodes: a systematic review**  
GAETANO POLITO (*Chieti, Italy*)
- 56 The effect of creatinine level on amyloid and p-tau plasma concentrations in a cohort of Alzheimer's disease patients without kidney disease**  
ELISABETTA SAPIO, F. MOTOLESE (*Rome, Italy*)
- 57 Functional brain connectome in GBA-PD**  
SILVIA BASAIA, T. CUSOLITO, T. FILAFERRO, E. SARASSO, E. SIBILLA, E. CANU, R. BALESTRINO, T. STOJKOVIC, I. STANKOVIC, A. TOMIC, V. MARKOVIC, E. STEFANOVA, F. MOLINARI, V. KOSTIC, M. FILIPPI, F. AGOSTA (*Milan, Turin, Italy - Belgrade, Serbia*)

# Poster Session

- 58 Upper limb rehabilitation using virtual reality compared to a real-setting training in people with Parkinson's disease: a clinical and functional MRI study**  
ANDREA GARDONI, E. SARASSO, L. ZENERE, A. GRASSI, R. BALESTRINO, D. EMEDOLI, S. BASAIA, E. SIBILLA, E. CANU, M. MALCANGI, M. VOLONTÈ, D. CORBETTA, M. FILIPPI, F. AGOSTA (*Milan, Italy*)
- 59 Handwriting difficulties in Parkinson's disease: technological assessment and resting-state fMRI correlates**  
ANDREA GARDONI, E. SARASSO, L. ZENERE, E. CANU, A. GRASSI, R. BALESTRINO, E. SIBILLA, D. EMEDOLI, S. BASAIA, M. FORGHIERI, M. MALCANGI, M. VOLONTÈ, D. CORBETTA, M. FILIPPI, F. AGOSTA (*Milan, Italy*)
- 60 Altered Hypothalamic Functional Connectivity in Amyotrophic Lateral Sclerosis**  
EDOARDO GIOELE SPINELLI, F. FRERI, E. CANU, F. ROSELLI, V. CASTELNOVO, H. MUELLER, J. KASSUBEK, A. LUDOLPH, M. FILIPPI, F. AGOSTA (*Sesto San Giovanni MI, Milan, Italy - Ulm, Germany*)
- 61 Glymphatic dysfunction in clinical phenotypes of motor neuron disease**  
EDOARDO GIOELE SPINELLI, I. BOTTALE, S. BASAIA, A. GHIRELLI, F. ORLANDI, T. RUSSO, E. CANU, V. CASTELNOVO, P. SCHITO, Y. FALZONE, M. FILIPPI, F. AGOSTA (*Sesto San Giovanni MI, Milan, Italy*)
- 62 The language of gait: interpreting emotional states through gait features**  
ELISA CANU, E. SARASSO, M. PUTZOLU, A. GARDONI, E. RAVIZZOTTI, S. MEZZAROBBA, L. AVANZINO, M. FILIPPI, E. PELOSIN, F. AGOSTA (*Milan, Genoa, Italy*)
- 63 Disentangling brain functional neural organization of apathy and depression in amyotrophic lateral sclerosis: a connectome-based approach**  
ANNA GILIOLI, E. CANU, V. CASTELNOVO, S. BASAIA, E. SPINELLI, F. FRERI, P. SCHITO, T. RUSSO, Y. FALZONE, F. VERDE, S. TORRE, B. POLETTI, L. TREMOLIZZO, I. APPOLONIO, N. TICOZZI, V. SILANI, M. FILIPPI, F. AGOSTA (*Milan, Italy*)
- 64 Rubber Hand Illusion in Parkinson's disease**  
ELISA CANU, E. SIBILLA, E. SARASSO, S. BASAIA, M. LEOCADI, V. CASTELNOVO, C. TRIPODI, F. FRERI, T. GHISOLFI, D. CORBETTA, A. GARDONI, L. ZENERE, A. GRASSI, R. BALESTRINO, M. MALCANGI, M. VOLONTÈ, M. FILIPPI, F. AGOSTA (*Milan, Italy*)
- 65 An Italian scale for the assessment of motor speech disorders in patients with primary progressive aphasia and progressive supranuclear palsy**  
LAURA LUMACA, E. CANU, A. RIVA, V. CASTELNOVO, E. SIBILLA, C. TRIPODI, F. FRERI, T. GHISOLFI, E. SPINELLI, G. CECCHETTI, M. GORNO-TEMPINI, M. FILIPPI, F. AGOSTA (*Milan, Italy - San Francisco, CA, USA*)
- 66 Empathy through the informant's lens: validation and reliability of the Italian informant-based version of the Interpersonal Reactivity Index (IRI) questionnaire**  
ALICE RADICI, A. PANZAVOLTA, C. BELLISTRI, D. PAIN, D. SATTIN, A. DODICH, C. LUNETTA, C. CERAMI (*Pavia, Milan, Rovereto TN, Italy*)

# Poster Session

- 67 The Italian validation of the informant-based version of the revised Self-Monitoring Scale: an external perspective to assess socio-emotional sensitivity and ability**  
CHIARA BELLISTRI, A. PANZAVOLTA, A. RADICI, D. PAIN, D. SATTIN, A. DODICH, C. LUNETTA, C. CERAMI (*Pavia, Milan, Rovereto TN, Italy*)
- 68 Isolated Prosopagnosia in Multiple Sclerosis: A Case Study**  
ELISABETTA MANISCALCO, A. PANZAVOLTA, D. LO COCO, S. REALMUTO, C. CERAMI (*Palermo, Pavia, Italy*)
- 69 Plasma biomarkers provide a profile of dementia**  
ELISA MARCANTELLI, A. INGANNATO, S. BAGNOLI, G. GIACOMUCCI, V. BESSI, S. SORBI, B. NACMIAS (*Florence, Italy*)
- 70 Emotion recognition deficits and brain functional network connectivity in frontotemporal degeneration**  
ANNA GILIOLI, E. CANU, C. TRIPOLDI, S. BASAIA, V. CASTELNOVO, E. SIBILLA, F. FRERI, E. SPINELLI, G. CECCHETTI, G. MAGNANI, F. CASO, E. AIELLO, G. DE LUCA, P. CAROPPO, S. PRIONI, C. VILLA, L. TREMOLIZZO, I. APPOLLONIO, F. VERDE, N. TICOZZI, V. SILANI, M. GORNO-TEMPINI, B. POLETTI, M. FILIPPI, F. AGOSTA (*Milan, Italy - San Francisco, CA, USA*)
- 71 Investigating the feasibility-usability and the impact of the exergames on cognitive and psychological functioning within the nursing home context: a case study**  
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- 72 Exploring the role of Klotho as a potential biomarker of choroid plexus dysfunction in neurodegeneration**  
LUCA SACCHI, M. ARCARO, G. BOCCA, L. SCHMID, T. CARANDINI, M. PINTUS, A. PIETROBONI, L. GHEZZI, C. FENOGLIO, M. SERPENTE, G. CONTE, F. TRIULZI, D. GALIMBERTI, A. ARIGHI (*Milan, Italy - Heidelberg, Germany*)
- 73 TACE Gene Polymorphisms as Key Predictors of Alzheimer's Disease Risk, Neuropsychiatric Symptoms, and Cognitive Performance on Rey Auditory Verbal Learning and Clock Drawing Tests**  
FRANCESCA VOZZO, P. ABONDIO, M.A. ACETO, E. PAPARAZZO, B.M. GRECO, V. LAGANÀ, P. SPADAFORA, A. MONTESANTO, A.C. BRUNI, R. MALETTA, F. CAVALCANTI, F. BRUNO (*Rome, Bologna, Rende CS, Mangone CS, Lamezia Terme, Italy*)
- 74 The Impact of Gender and Dementia Subtypes on Neuropsychiatric Symptoms: An Analysis from Onset to Diagnosis**  
FRANCESCA VOZZO, V. LAGANÀ, S. MIRANTE, S. M. CURCIO, F. FRANGIPANE, G. PUCCHIO, O. DE VITO, F. FERRISE, A. C. BRUNI, R. MALETTA, F. BRUNO (*Rome, Lamezia Terme, Florence, Italy*)

# Poster Session

- 75 Neuropsychiatric Symptoms in Alzheimer's Disease: Comparing Sporadic and Genetic Forms**  
FRANCESCA VOZZO, V. LAGANA, D. ARCURI, F. FRANGIPANE, S.M. CURCIO, G. PUCCHIO, O. DE VITO, F. FERRISE, A.C. BRUNI, R. MALETTA, F. BRUNO (*Rome, Lamezia Terme, Italy*)
- 76 Cholinergic Dysfunction as a marker of Alzheimer continuum: Insights into early cognitive decline**  
GIULIA FORESTI, A. BENUSSI, A. PILOTTO, C. ZATTI, A. GALLI, A. RIZZARDI, N. AGOSTINI, B. BORRONI, A. PADOVANI (*Castelli Calepio BG, Brescia, Trieste, Italy*)
- 77 Predicting cognitive decline in Alzheimer's disease: a real-life proof-of-principle study on multimodal assessment**  
SILVIA LODICO, F. MOTOLESE (*Rome, Italy*)
- 78 A Novel GRN Mutation in Behavioral Variant Frontotemporal Dementia: do not forget the importance of Copy-Number Variance (CNV) Analysis**  
VALENTINA NIDIACI, C. FENOGLIO, L. SACCHI, M. PINTUS, T. CARANDINI, A. PIETROBONI, L. GHEZZI, E. ROTONDO, V. BORRACCI, M. ARCARO, M. SERPENTE, M. CASTELLANI, F. TRIULZI, D. GALIMBERTI, N. DE STEFANO, A. ARIGHI (*Stena, Milan, Italy*)
- 79 RADAR: Raising Awareness about Dementia Risk Reduction - First-year study results**  
SIMONA GABRIELLA DI SANTO, F. FRANCHINI, F. ADORNI, C. MAZZONI, M. MICARELLI (*Segrate MI, Rome, Italy*)
- 80 The ability of cognitive demanding verbal fluency tasks in identifying early stages of dementia**  
SABRINA BONAROTA, G. CARUSO, C. DI DOMENICO, G. CORRADO, S. BARCHIESI, C. CALTAGIRONE, M. BOZZALI, L. SERRA (*Rome, Foggia, Turin, Italy*)
- 81 Exploration of apathy and its cognitive, emotional-affective and auto-activation dimensions in Subjective Cognitive Decline**  
GIULIA CARUSO, S. BONAROTA, C. DI DOMENICO, S. BARCHIESI, G. CORRADO, C. CALTAGIRONE, M. BOZZALI, L. SERRA (*Foggia, Rome, Turin, Italy*)
- 82 Siponimod modulates functional brain connectivity in patients with secondary progressive multiple sclerosis**  
MARCO LAUDADIO, F. D'AGATA, C. CAMPISI, G. VAULA, G. MORANA, C. ARTUSI, E. MONTANARO, L. LOPIANO, M. BOZZALI (*Turin, Italy*)
- 83 1953-2023. Seventy Years of the Nerve Growth Factor: A Potential Novel Treatment in Neurological Diseases?**  
DAVIDE NORATA, F. MOTOLESE, F. CAPONE, E. SAPIO, S. LODICO, M. DI GIESI, F. PILATO, V. DI LAZZARO (*Palermo, Rome, Italy*)

# Poster Session

- 84 **Body-Brain Interaction: in search of a role of the neutrophil**  
TOMMASO MERATI, A. PAROLINI, S. PELUCCHI, E. ZIANNI, F. GORLA, M. DI LUCA,  
A. PADOVANI, A. PILOTTO, G. NORATA, A. BARAGETTI, E. MARCELLO (*Brescia, Milan,  
Italy*)
- 85 **A Dual Approach to Cognitive Health: Early Evidence from the PHysical  
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(PHACADE) Study**  
EMANUELE ROCCO VILLANI, C. GALLI, B. MANNI, V. ACCHIAPPATI, A. FABBO  
(*Modena, Italy*)

# General informations

## Congress Venue

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## Organizing Secretariat

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