

SINdem4Juniors

8th 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

January 22nd-24th, 2020

Bressanone, Italy
Dolomiti – Sud Tiroi



Sindem4Juniors



www.sindem4juniors.it



SINdem4Juniors

Scientific Committee

Marco Bozzali (*Brighton, United Kingdom - Rome, Italy*)

Federica Agosta (*Milan, Italy*)

Andrea Arighi (*Milan, Italy*)

Alberto Benussi (*Brescia, Italy*)

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Elena Marcello (*Milan, Italy*)

Micaela Mitolo (*Bologna, Italy*)

Arianna Sala (*Stockholm, Sweden - Milan, Italy*)

Laura Serra (*Rome, Italy*)

Julie van der Zee (*Antwerp, Belgium*)

January 22nd - Wednesday

15.30 Registration

15.45 Opening

CONTAMINATION SESSION

Moderators: FRANCESCO DI LORENZO (*Brighton, United Kingdom*)
ALBERTO BENUSSI (*Brescia, Italy*)

SESSION I

16.00 **Controlling Behaviour Transgenerationally**
IDIT AVIRAM (*Tel Aviv, Israel*)

16.45 **Brain Hacking with Non-Invasive Brain Stimulation**
MARTIN SOMMER (*Göttingen, Germany*)

17.30 Coffee break

SESSION II

18.00 **Not too Late to Focus on LATE**
PETER T. NELSON (*Lexington, USA*)

18.45 **Alzheimer's Disease Immunotherapy: Promises and Pitfalls**
MICHAL SCHWARTZ (*Rehovot, Israel*)

19.30 **Memorial Massimo Musicco**
FULVIO ADORNI, NITHIYA JESUTHASAN, CARLA PETTENATI, FEDERICA PRINELLI,
ALEKSANDRA SOJIC (*Milan, Italy*)

20.20 Dinner

January 23rd - Thursday

EDUCATIONAL WORKSHOP

Lost in space 2: Once upon a t...urning point!

ANDREA ARIGHI (*Milan, Italy*)

CHIARA CERAMI (*Pavia, Italy*)

ALESSANDRA DODICH (*Geneva, Switzerland*)

LAURA SERRA (*Rome, Italy*)

- 9.30 **Registration**
10.00 **Outdoor Session**
10.45 **Indoor Session**
11.30 **Outdoor Session**
12.15 **Results and Discussion**

- 13.00 Lunch

SESSION I

Moderators: GIORGIO FUMAGALLI (*Milan, Italy*)

EDOARDO GIOELE SPINELLI (*Milan, Italy*)

- 15.00 **OPENING LECTURE**
**Hypersynchronization and Clinical Disability: loss of Flexibility
in Neurodegenerative Diseases**
PIERPAOLO SORRENTINO (*Brisbane, Australia*)

ORAL COMMUNICATION

- 15.20 **Tau PET imaging and cognitive performance in Alzheimer's Disease: a biomarker
of subthreshold neurodegeneration?**
ALESSANDRA DODICH, P. ANDRYSZAK, A. MENDES, F. ASSAL, C. CHICHERIO,
M. SHEFFLER, K. LOVBLAD, G. GOLD, G. FRISONI, V. GARIBOTTO (*Geneva, Switzerland*)

FLASH POSTER

- 15.30 **Imaging dopamine transporter activity in Alzheimer's disease: a molecular
connectivity study**
SILVIA CAMINITI, A. SALA, A. PILOTTO, L. PRESOTTO, V. GARIBOTTO, M. D'AMELIO,
C. LIGUORI, O. SCHILLACI, N. MERCURI, A. PADOVANI, D. PERANI (*Milan, Brescia,
Rome, Italy - Geneva Switzerland*)

January 23rd - Thursday

15.35 **Hippocampal ratio and its association with memory performances in Alzheimer's disease**
SABRINA BONAROTA, L. SERRA, M. IOSA, S. RULLI, C. PICA, C. MARRA, M. BOZZALI
(Rome, Italy)

15.40 **Bilingualism modulates brain reserve and resting-state network connectivity**
MAURA MALPETTI, A. SALA, V. GARIBOTTO, M. FARSAF, G. MAGNANI, J. ABUTALEBI,
D. PERANI (Milan, Bolzano, Italy - Geneva, Switzerland)

15.45 Open discussion

16.30 Coffee break

SESSION II

Moderators: GIACOMO KOCH (Rome, Italy)
GIUSEPPE LANZA (Catania, Italy)

17.00 **OPENING LECTURE**
Neuroadaptive Brainwave Entrainment: Optimizing Synchronization
INES VIOLANTE (Guildford, United Kingdom)

ORAL COMMUNICATIONS

17.20 **Classification accuracy of TMS for the diagnosis of neurodegenerative dementias: a multicenter study**
ALBERTO BENUSSI, M. GRASSI, F. PALLUZZI, G. KOCH, V. DI LAZZARO, R. NARDONE,
V. CANTONI, V. DELL'ERA, E. PREMI, A. MARTORANA, F. DI LORENZO, S. BONNI,
F. RANIERI, F. CAPONE, G. MUSUMECI, M. COTELLI, A. PADOVANI, B. BORRONI
(Brescia, Pavia, Rome, Merano, Esine BS, Italy)

17.30 **A combined RS-EEG/RS-fMRI characterization of the Alzheimer continuum: a longitudinal study**
GIORDANO CECCHETTI, S. BASAIA, C. CIVIDINI, M. CURSI, R. SANTANGELO, F. CASO,
F. MINICUCCI, G. MAGNANI, M. FILIPPI, F. AGOSTA (Milan, Italy)

FLASH POSTER

17.40 **Clinical and neurophysiological effects of PEA-LUT on frontotemporal dementia**
ILARIA BORGHI, M. ASSOGNA, S. BONNI, E. CASULA, C. MOTTA, A. D'ACUNTO,
F. PORRAZZINI, M. MINEI, F. DI LORENZO, A. MARTORANA, G. KOCH (Rome, Italy)

January 23rd - Thursday

- 17.45 **TMS-EEG coregistration to track Alzheimer's disease progression**
MARTA BORTOLETTO, T. MUTANEN, C. FRACASSI, R. MANENTI, M. COTELLI,
R. ILMONIEMI, C. MINIUSI, C. BAGATTINI (*Brescia, Italy - Espoo, Finland*)
- 17.50 **Visual Hallucinations and Dorsal Attention Network in Parkinson's Disease and Lewy Body Dementias: a combined TMS-EEG study**
MARCO MANCUSO, G. LEODORI, A. FABBRINI, A. SUPPA, S. TIKOO, A. BERARDELLI
(*Rome, Italy*)
- 17.55 Open discussion
- 18.30 Selected poster discussion
- 19.30 Dinner

SESSION III

Moderators: MARCO BOZZALI (*Brighton, United Kingdom*)
ANDREA PLUTINO (*Ancona, Italy*)

- 20.30 **The Alzheimer's Paradox: Advancing Criteria but Failing in Clinical Trials – What to Expect from the Future**
PHILIP SCHELTENS (*Amsterdam, Netherlands*)
- FLASH POSTER
- 21.10 **Amyloid-beta₄₀ triggers neurodegeneration in patients with Alzheimer's pathologic change according to NIA-AA Research Framework guidelines**
CATERINA MOTTA, F. DI LORENZO, M. ASSOGNA, E. SCARICAMAZZA, E. DE LUCIA,
C. BONOMI, G. SANCESARIO, G. KOCH, A. MARTORANA (*Rome, Italy*)
- 21.15 **The association between polygenic hazard scores and clinical markers of Alzheimer's Disease following stratification for APOE genotype**
MATTEO DE MARCO, R. MANCA, J. KIRBY, G. HAUTBERGUE, D. BLACKBURN,
S. WHARTON, A. VENNERI (*Sheffield, United Kingdom*)

January 24th - Friday

LUNCH SYMPOSIUM

Alpha Synucleinopathies: What's Next

Moderators: ANDREA ARIGHI (*Milan, Italy*) - FABIOLA DE MARCHI (*Novara, Italy*)

- 10.00 **What's New in Parkinson's Disease?**
ALESSIO DI FONZO (*Milan, Italy*)
- 10.40 **What's New in Lewy Body Disease?**
LAURA BONANNI (*Chieti, Italy*)
- 11.20 **Sleep, Circadian Disturbances and Cognitive Dysfunction: Which Comes First?**
CHIARA LA MORGIA (*Bologna, Italy*)
- 12.00 Lunch
- 13.00 **RT-QuIC for Alpha-synuclein Seeding**
GIANLUIGI ZANUSSO (*Verona, Italy*)
- 13.40 **Extrastriatal Dopaminergic and Serotonergic Pathways in Parkinson's Disease**
ANDREA PILOTTO (*Brescia, Italy*)
- 14.30 Coffee break

SESSION IV

Moderators: MIRELLA RUSSO (*Chieti, Italy*)
TOMMASO SCHIRINZI (*Rome, Italy*)

- 15.00 **OPENING LECTURE**
Gene-silencing for Huntington's Disease
EDWARD WILD (*London, United Kingdom*)
- 15.20 **ORAL COMMUNICATIONS**
Neuroimaging-genetic associations in Parkinson's Disease staging via stepwise functional connectivity
SILVIA BASAIA, I. DIEZ, E. BUEICHEKÜ, V. KOSTIC, J. SEPULCRE, M. FILIPPI, F. AGOSTA
(*Milan, Italy - Boston, Massachusetts, USA - Belgrade, Serbia*)

January 24th - Friday

15.30 **Age at onset, dopamine transporter downregulation and the risk of motor complications in Parkinson's Disease: a clinical and SPECT study to explore a complex interplay**
GIOVANNI PALERMO, S. GIANNONI, D. FROSINI, R. MORGANTI, D. VOLTERRANI, U. BONUCCELLI, N. PAVESE, R. CERAVOLO (*Pisa, Italy - Newcastle, United Kingdom*)

FLASH POSTER

15.40 **Prognostic role of gut microbiota in Parkinson's Disease de novo: a 3-year prospective study**
MARCO PIATTI, R. CILIA, E. CEREDA, S. BONVEGNA, C. FERRARESE, A. ZECCHINELLI, M. BARICHELLA, G. PEZZOLI (*Milan, Pavia, Italy*)

15.45 **Metabolic neural networks dynamics of neurotransmission systems in the alpha-synuclein spectrum**
GIULIA CARLI, S. CAMINITI, L. PRESOTTO, A. SALA, A. GALBIATI, A. PILOTTO, L. FERINI-STRAMBI, A. PADOVANI, D. PERANI (*Milan, Italy*)

15.50 **Serum NfL identified fast motor and cognitive progression in Parkinson's Disease: beyond malignant phenotypes?**
ALBERTO IMARISIO, A. PILOTTO, F. CONFORTI, A. LUPINI, G. GIANNI, S. GIPPONI, E. COTTINI, A. SCALVINI, S. MASCIOCCHI, S. NOCIVELLI, R. GRASSO, R. TURRONE, B. BORRONI, M. RIZZETTI, M. PIZZI, A. BELLUCCI, E. GARRAFA, L. BONANNI, H. ZETTERBERG, N. ASHTON, A. HYE, A. PADOVANI (*Brescia, Trescore Balneario BG, Chieti, Italy - London, United Kingdom*)

15.55 Open discussion

16.30 Coffee break

SESSION V

Moderators: ALESSANDRA DODICH (*Geneva, Switzerland*)
ARIANNA SALA (*Milan, Italy*)

17.00 **OPENING LECTURE**
Disentangling Social Cognition in Neurodegenerative Disorders
SARAH MACPHERSON (*Edinburgh, United Kingdom*)

January 24th - Friday

ORAL COMMUNICATIONS

17.20 **Modulation of brain functional responses during blue light exposure in Alzheimer's Disease: the role of the melanopsin retinal ganglion cells**
MICAELA MITOLO, S. EVANGELISTI, C. LA MORGIA, M. STANZANI-MASERATI, C. TESTA, D. MANNERS, C. BIANCHINI, V. CARELLI, C. TONON, R. LODI (*Bologna, Italy*)

17.30 **Assessing the effectiveness of SCD-plus criteria in predicting the progression to Alzheimer's Disease: A 10-year follow-up study**
SALVATORE MAZZEO, S. PADIGLIONI, S. BAGNOLI, M. CARRARO, I. PIACERI, L. BRACCO, B. NACMIAS, S. SORBI, V. BESSI (*Florence, Italy*)

FLASH POSTER

17.40 **Combined social measures in the diagnosis of frontotemporal dementia: clinical validation of a short social cognition battery**
GAIA CHIARA SANTI, A. DODICH, C. CRESPI, S. IANNACONE, A. MARCONE, M. ZAMBONI, S. CAPPÀ, C. CERAMI (*Pavia, Rovereto, Milan, Italy*)

17.45 **Use of plasmatic Neurofilaments and muscle biomarkers in differential diagnosis between Amyotrophic Lateral Sclerosis and Spinal Bulbar Muscle Atrophy**
ALESSANDRO BOMBACI, V. LOMBARDI, L. ZAMPEDRI, H. ZETTERBERG, H. HESLEGRAVE, C. RINALDI, P. FRATTA, A. MALASPINA (*Turin, Italy - London, Oxford, United Kingdom*)

17.50 **Frontotemporal lobar degeneration, C9orf72 expansions and disease prediction: ancestry, syndrome-specific and age at onset implications**
BEATRICE COSTA (*London, United Kingdom*)

17.55 Open discussion

18.30 Selected poster discussion

19.30 Dinner

January 24th - Friday

SESSION VI

Moderators: ANDREA ARIGHI (*Milan, Italy*)

MATTEO DE MARCO (*Sheffield, United Kingdom*)

20.30 **Impaired Brain Drainage in Aging and Alzheimer's - The Glymphatic System**
MARTIN RASMUSSEN (*Copenhagen, Denmark*)

FLASH POSTER

21.05 **Cognitive Profile in Isolated REM Sleep Behavior Disorder: a Longitudinal Approach**

LUISA SAMBATI, L. BALDELLI, G. CALANDRA BUONAURA, P. GUARALDI, P. CORTELLI, F. PROVINI (*Bologna, Italy*)

21.10 **Per2 C111G polymorphism influences cognition in Subjective Cognitive Decline and Mild Cognitive Impairment. A 7-year follow-up study**

GIULIA GIACOMUCCI, V. BESSI, S. MAZZEO, S. BAGNOLI, S. PADIGLIONI, J. BALESTRINI, G. TOMAIUOLO, I. PIACERI, M. CARRARO, S. SORBI, B. NACMIAS (*Florence, Italy*)

21.15 **Professor Musicco prizes**

FULVIO ADORNI (*Milan, Italy*)

ALBERTO BENUSSI (*Brescia, Italy*)

MARCO BOZZALI (*Brighton, United Kingdom - Rome, Italy*)

CARLA PETTENATI (*Milan, Italy*)

21.20 **Conclusions and remarks**

ANDREA ARIGHI (*Milan, Italy*)

ALBERTO BENUSSI (*Brescia, Italy*)

MARCO BOZZALI (*Brighton, United Kingdom - Rome, Italy*)

FRANCESCO DI LORENZO (*Brighton, United Kingdom*)



Poster Session

January 23rd - Thursday

POSTER SESSION

Moderators: ANDREA ARIGHI (*Milan, Italy*) - ALESSANDRO BOMBACI (*Turin, Italy*)
CLAUDIA CARRARINI (*Chieti, Italy*) - GIULIA DONZUSO (*Catania, Italy*)
ANTONINA LUCA (*Catania, Italy*)

- 1 Neurophysiological correlates of positive and negative symptoms in Frontotemporal dementia**
VALENTINA CANTONI, A. BENUSSI, V. DELL'ERA, M. COTELLI, M. COSSEDDU, M. SPALLAZZI, A. ALBERICI, A. PADOVANI, B. BORRONI (*Brescia, Esine BS, Parma, Italy*)
- 2 Deep grey matter and hippocampal involvement in genetic cases of frontotemporal lobar degeneration**
EDOARDO GIOELE SPINELLI, A. GHIRELLI, N. RIVA, G. MAGNANI, F. CASO, P. CAROPPO, S. PRIONI, L. TREMOLIZZO, I. APPOLLONIO, V. SILANI, P. CARRERA, S. BASAIA, C. CIVIDINI, M. FILIPPI, F. AGOSTA (*Milan, Monza, Italy*)
- 3 Characterization of Mixed Primary Progressive Aphasia: language, functional neuroimaging and pathological features**
SALVATORE MAZZEO, C. POLITO, S. PADIGLIONI, V. BERTI, S. BAGNOLI, G. LOMBARDI, I. PIACERI, M. CARRARO, C. FERRARI, B. NACMIAS, S. SORBI, V. BESSI (*Florence, Italy*)
- 4 Cerebellar rTMS theta burst for postural instability in progressive supranuclear palsy: a double blind cross-over sham-controlled study using wearing sensors technology**
ALBERTO LOMBARDI, A. PILOTTO, M. RIZZETTI, M. BIGGI, G. VERZEROLI, A. MARTINELLI, C. HANSEN, R. ROMIJNDERS, W. MAETZLER, B. BORRONI, A. PADOVANI (*Brescia, Bergamo, Italy - Kiel, Germany*)
- 5 Stepwise connectivity reveals the spreading of pathology in Parkinson's Disease**
SILVIA BASAIA, I. DIEZ, E. BUEICHEKÛ, V. KOSTIC, J. SEPULCRE, M. FILIPPI, F. AGOSTA (*Milan, Italy - Boston, Massachusetts, USA - Belgrade, Serbia*)
- 6 Dysautonomia assessment aides early DLB diagnosis**
EUGENIA SCARICAMAZZA, G. NALLI, V. DE LUCIA, C. BONOMI, M. ASSOIGNA, C. MOTTA, G. KOCH, A. MARTORANA (*Rome, Italy*)
- 7 A case of Diogenes Syndrome in a patient with behavioural variant frontotemporal dementia**
LUCA SACCHI, T. CARANDINI, G. FUMAGALLI, A. PIETROBONI, M. DE RIZ, E. RONTONDO, D. GALIMBERTI, G. MAROTTA, F. TRIULZI, E. SCARPINI, M. CESARI, P. BRAMBILLA, A. ARIGHI (*Milan, Italy*)

Poster Session

- 8 **Real-time assessment of inhibition deficits in Parkinson's Disease by combining TMS and EEG**
MICHELE MAIELLA, E. CASULA, S. AJAO, I. BORGHI, M. CELLI, A. RUSSO, L. BATTAGLINI, L. ROCCHI, L. BRUSA, J. ROTHWELL, G. KOCH (*Rome, Padua, Italy - London, United Kingdom*)
- 9 **The association between cognitive impairment and structural and functional brain organization in amyotrophic lateral sclerosis**
CAMILLA CIVIDINI, S. BASAIA, E. SPINELLI, E. CANU, V. CASTELNOVO, N. RIVA, Y. FALZONE, M. FILIPPI, F. AGOSTA (*Milan, Italy*)
- 10 **Functional brain connectome in drug-naïve Parkinson's Disease patients**
ROSA DE MICCO, F. AGOSTA, S. BASAIA, M. SICILIANO, C. CIVIDINI, G. TEDESCHI, A. TESSITORE, M. FILIPPI (*Naples, Milan, Italy*)
- 11 **Different occupational profiles modulate metabolic connectivity in dementia with Lewy bodies**
CECILIA BOCCALINI, G. CARLI, G. VANOLI, S. IANNAcone, G. MAGNANI, D. PERANI (*Milan, Italy*)
- 12 **Abnormal cortical thickness is associated with deficits in social cognition in patients with myotonic dystrophy type 1**
GUENDALINA BIANCHI, L. SERRA, M. BRUSCHINI, G. GIULIETTI, C. DI DOMENICO, S. BONAROTA, A. PETRUCCI, G. SILVESTRI, A. PERNA, G. MEOLA, C. CALTAGIRONE, M. BOZZALI (*Rome, Milan, Italy - Brighton, United Kingdom*)
- 13 **Brain functional connectivity disruption in a large cohort of patients with primary progressive aphasia**
MICHELA LEOCADI, E. CANU, D. CALDERARO, G. MAGNANI, P. CAROPPO, S. PRIONI, L. TREMOZZO, I. APOLLONIO, V. SILANI, V. KOSTIC, P. VALSASINA, M. FILIPPI, F. AGOSTA (*Milan, Monza, Italy - Belgrade, Serbia*)
- 14 **Neurotransmitter imbalance within the ventromedial prefrontal cortex is linked to somatic symptom disorder in Parkinson's Disease at the onset of motor symptoms**
MIRELLA RUSSO, C. CARRARINI, F. DONO, S. DELLI PIZZI, R. FRANCIOTTI, M. ONOFRI, L. BONANNI (*Chieti, Italy*)
- 15 **Comparison of MoCA's Italian normative data in a cohort of healthy siblings of PD patients**
LUCA BALDELLI, L. SABBATI, G. CALANDRA BUONAURA, P. CORTELLI, F. PROVINI (*Bologna, Italy*)

Poster Session

- 16 **Short-term memory for Space and Identity: Cross-sectional assessment of Alzheimer's Disease Patients with the "What was where?" task**
SOFIA TONIOLO, M.R. MAIO, Y. TABI, S. MANOHAR, M. HUSAIN (*Oxford, United Kingdom*)
- 17 **Social cognition tasks as neuropsychological marker of the behavioral variant of Frontotemporal Dementia: a call for new research to define clinical validity**
ALESSANDRA DODICH, C. CRESPI, G. SANTI, S. CAPPA, C. CERAMI (*Geneva, Switzerland - Pavia, Italy*)
- 18 **Technology-based therapy-response and prognostic biomarkers in Parkinson's Disease**
GIULIA DI LAZZARO, M. RICCI, M. AL-WARDAT, T. SCHIRINZI, F. GIANNINI, N. MERCURI, G. SAGGIO, A. PISANI (*Rome, Italy*)
- 19 **Evaluation of effectiveness of a preventive program focused on cognitive stimulation and physical exercise in virtual reality in people with mild cognitive impairment or subjective cognitive decline (GR-2013-02356043)**
FLAMINIA FRANCHINI, B. FILIPPUTTI, F. RATTO, M. LUCHI, S. TABOZZI, C. CALTAGIRONE, M. MUSICCO, S. DI SANTO (*Rome, Segrate MI, Italy*)
- 20 **CAP2 dimer regulates Cofilin synaptic levels in structural plasticity and Alzheimer's Disease**
SILVIA PELUCCHI, L. VANDERMEULEN, L. PIZZAMIGLIO, B. AKSAN, J. YAN, A. KONIETZNY, E. BONOMI, B. BORRONI, M. RUST, D. DI MARINO, M. MIKHAYLOVA, D. MAUCERI, F. ANTONUCCI, F. GARDONI, M. DI LUCA, E. MARCELLO (*Milan, Brescia, Ancona, Italy - Heidelberg, Hamburg, Marburg, Germany*)
- 21 **Cortical atrophy as a predictor of functional outcome in acute ischemic stroke secondary to large vessel occlusion**
ALFREDO PAOLO MASCOLO, F. MARRAMA, L. GRECO, F. DI GIULIANO, G. KOCH, M. DIOMEDI, F. SALLUSTIO (*Rome, Italy*)
- 22 **How physical activity influences cognitive function in population with cognitive impairment?**
VIRGINIA CIPOLLINI, L. NARDA, A. DE CAROLIS, F. GIUBILEI, F. TROILI (*Rome, Italy*)
- 23 **Noun-verb dissociation in motor neuron disease: theoretical and clinical entailments**
EDOARDO NICOLÒ AIELLO, C. LUZZATTI, D. PAIN, M. GALLUCCI, G. MORA (*Milan, Italy*)
- 24 **Brain PET imaging in a patient with FXTAS: AD pathology and fMRI premutation, more than a simple casual association?**
RUGGERO BACCHIN (*Verona, Italy*)

Poster Session

- 25 **Detection of the SQSTM1 mutation in a case of early-onset familial dementia suggestive of Alzheimer's Disease**
TIZIANA CARANDINI, L. GHEZZI, A. ARIGHI, A. PIETROBONI, G. FUMAGALLI, A. COLOMBI, L. SACCHI, M. DE RIZ, C. FENOGLIO, E. SCARPINI, D. GALIMBERTI (*Milan, Italy*)
- 26 **A challenging diagnosis of reversible early-onset dementia: an atypical presentation of CLIPPERS**
ALBERTO PIERMARTIRI, M. RUSSO, C. CARRARINI, F. DONO, M. DE ANGELIS, M. ONOFRJ, L. BONANNI (*Chieti, Italy*)
- 27 **Phonemic fluency in differentiating Progressive Supranuclear Palsy from Parkinson's Disease**
ROBERTA MANNA, A. LUCA, C. TERRAVECCHIA, C. D'AGATE, G. DONZUSO, G. MOSTILE, C. CICERO, A. NICOLETTI, M. ZAPPIA (*Catania, Italy*)
- 28 **Movement disorders presenting at the Emergency Room: the added value of parenchymal transcranial Doppler sonography**
GIUSEPPE LANZA, R. BELLA, R. FERRI, M. GODANI (*Catania, Troina EN, La Spezia, Italy*)
- 29 **Dietary approach to age well and prevent the absence of cognitive deterioration**
NICOLA SERRONI, T. ACCIAVATTI, M. CORNELIO, S. SERRONI, I. DE LAURETIS, L. SERRONI, A. CECI, V. MATTU, A. MARTELLI, A. PIZZORNO, M. DI PIETRO, D. CAMPANELLA (*Teramo, Como, Italy*)
- 30 **Home rehabilitation in the treatment of dementia: a dynamic approach in the context of the physiotherapy ADI of the Teramo ASL**
NICOLA SERRONI, S. SERRONI, A. PIZZORNO, M. DI PIETRO, L. SERRONI, I. DE LAURETIS, A. CECI (*Teramo, Italy*)
- 31 **The "sdijune" elixir of long life of the Abruzzo elders and not only ..."**
NICOLA SERRONI, S. SERRONI, L. SERRONI, A. CECI, M. DI PIETRO, A. PIZZORNO, D. CAMPANELLA (*Teramo, Como, Italy*)
- 32 **Imaging dopamine transporter activity in Alzheimer's Disease: a molecular connectivity study**
SILVIA CAMINITI, A. SALA, A. PILOTTO, L. PRESOTTO, V. GARIBOTTO, M. D'AMELIO, C. LIGUORI, O. SCHILLACI, N. MERCURI, A. PADOVANI, D. PERANI (*Milan, Brescia, Rome, Italy - Geneva, Switzerland*)
- 33 **Hippocampal ratio and its association with memory performances in Alzheimer's Disease**
SABRINA BONAROTA, L. SERRA, M. IOSA, S. RULLI, C. PICA, C. MARRA, M. BOZZALI (*Rome, Italy*)

Poster Session

- 34 **Bilingualism modulates brain reserve and resting-state network connectivity**
MAURA MALPETTI, A. SALA, V. GARIBOTTO, M. FARSAF, G. MAGNANI, J. ABUTALEBI, D. PERANI (*Milan, Bolzano, Italy - Geneva, Switzerland*)
- 35 **Clinical and neurophysiological effects of PEA-LUT on frontotemporal dementia**
ILARIA BORGHI, M. ASSOGNA, S. BONNI, E. CASULA, C. MOTTA, A. D'ACUNTO, F. PORRAZZINI, M. MINEI, F. DI LORENZO, A. MARTORANA, G. KOCH (*Rome, Italy*)
- 36 **TMS-EEG coregistration to track Alzheimer's Disease progression**
MARTA BORTOLETTO, T. MUTANEN, C. FRACASSI, R. MANENTI, M. COTELLI, R. ILMONIEMI, C. MINIUSI, C. BAGATTINI (*Brescia, Italy - Espoo, Finland*)
- 37 **Visual Hallucinations and Dorsal Attention Network in Parkinson's Disease and Lewy Body Dementias: a combined TMS-EEG study**
MARCO MANCUSO, G. LEODORI, A. FABBRINI, A. SUPPA, S. TIKOO, A. BERARDELLI (*Rome, Italy*)
- 38 **The association between polygenic hazard scores and clinical markers of Alzheimer's disease following stratification for APOE genotype**
MATTEO DE MARCO, R. MANCA, J. KIRBY, G. HAUTBERGUE, D. BLACKBURN, S. WHARTON, A. VENNARI (*Sheffield, United Kingdom*)
- 39 **Amyloid-beta40 triggers neurodegeneration in patients with Alzheimer's pathologic change according to NIA-AA Research Framework guidelines**
CATERINA MOTTA, F. DI LORENZO, M. ASSOGNA, E. SCARICAMAZZA, E. DE LUCIA, C. BONOMI, G. SANCESARIO, G. KOCH, A. MARTORANA (*Rome, Italy*)
- 40 **Add-on effect of rTMS on face-name associative memory training in Alzheimer's Disease**
CHIARA BAGATTINI, M. ZANNI, F. BAROCCO, P. CAFFARRA, D. BRIGNANI, C. MINIUSI, C. DEFANTI (*Brescia, Trescore Balneario BG, Parma, Rovereto TN, Italy*)

Poster Session

January 24th - Friday

POSTER SESSION

Moderators: SILVIA BASAIA (*Milan, Italy*) - TIZIANA CARANDINI (*Milan, Italy*)
SALVATORE MAZZEO (*Florence, Italy*)
SOFIA TONIOLO (*Oxford, United Kingdom*)

- 41 **Neurotransmitters imbalance dysregulates brain dynamic fluidity in Frontotemporal Degeneration**
MARCELLO GIUNTA, A. BENUSSI, E. PREMI, V. CANTONI, S. GAZZINA, V. CALHOUN, A. PADOVANI, B. BORRONI (*Brescia, Italy - Atlanta, USA*)
- 42 **MRI predictors of longitudinal functional decline in amyotrophic lateral sclerosis**
EDOARDO GIOELE SPINELLI, F. AGOSTA, P. RANCOITA, N. RIVA, Y. FALZONE, C. DI SERIO, V. SILANI, M. FILIPPI (*Milan, Italy*)
- 43 **ApoE role into the Alzheimer's continuum**
EUGENIA SCARICAMAZZA, G. KOCH, C. MOTTA, V. DE LUCIA, C. BONOMI, A. MARTORANA (*Rome, Italy*)
- 44 **Dopaminergic and serotonergic deficits as predictors of progression of Parkinson's Disease: a longitudinal voxel-based morphometry study on 123I-FP-CIT scintigraphy**
MADDALENA TOFFALI, A. PILOTTO, S. MASCIOCCHI, S. NOCIVELLI, F. SCHIANO DI COLA, A. PADOVANI (*Brescia, Italy*)
- 45 **Altered cerebellar cortical plasticity in Alzheimer's Disease patients**
FRANCESCO DI LORENZO, S. BONNI, C. CALTAGIRONE, A. MARTORANA, G. KOCH (*Rome, Italy*)
- 46 **Factors influencing cognitive trajectory in adults with late-onset epilepsy of undefined etiology: a multicentre longitudinal cohort study**
MICHELE ROMOLI, E. NARDI CESARINI, L. FAROTTI, C. LIGUORI, P. EUSEBI, C. BEDETTI, S. SILIQUINI, A. VERZINA, C. CALVELLO, A. ROMIGI, N. MERCURI, L. PARNETTI, P. CALABRESI, C. COSTA (*Perugia, Rimini, Rome, Italy*)
- 47 **CSF and FDG PET study of the AD continuum: biochemical and imaging features of two different mechanisms of neurodegeneration**
VINCENZO DE LUCIA, C. BONOMI, C. MOTTA, E. SCARICAMAZZA, M. ASSOIGNA, A. CHIARAVALLI, N. MERCURI, O. SCHILLACI, F. FRANCHINI, S. DI SANTO, G. KOCH, A. MARTORANA (*Rome, Italy*)

Poster Session

- 48 **Movement alterations in the prodromal and initial phase of Parkinson's Disease: a cross-sectional study with wearable motion sensors**
MARCELLO CATANIA, A. PILOTTO, A. CORBANI, A. GALBIATI, L. FERINI-STRAMBI, A. PADOVANI (*Brescia, Milan, Italy*)
- 49 **Brain functional connectivity associated with the right temporal degeneration**
MICHELA LEOCADI, E. CANU, D. CALDERARO, V. CASTELNOVO, F. CASO, P. CAROPPO, S. PRIONI, L. TREMOZZO, I. APOLLONIO, P. VALSASINA, M. FILIPPI, F. AGOSTA (*Milan, Monza, Italy*)
- 50 **Find the bells: a paper-and-pencil test for detecting gaze palsy in PSP**
DANIELE LICCIARDO, F. FERRI, V. IMPAGNATIELLO, C. MAPELLI, C. FERRARESE, V. ISELLA (*Milan, Monza, Italy*)
- 51 **Non-motor determinants of cognitive performances in a cohort of PD patient's siblings**
LUCA BALDELLI, L. SAMBATI, G. CALANDRA BUONAURA, P. CORTELLI, F. PROVINI (*Bologna, Italy*)
- 52 **Erdheim-Chester disease presenting as Alzheimer's Disease frontal variant**
GIORGIO FUMAGALLI, A. ARIGHI, L. SACCHI, T. CARANDINI, A. COLOMBI, A. PIETROBONI, F. TRIULZI, E. SCOLA, D. GALIMBERTI, E. SCARPINI (*Milan, Italy*)
- 53 **CSF Tau proteins correlate with an Atypical Clinical Presentation in Dementia with Lewy Bodies**
GIOVANNI DELLA PORTA, M. RUSSO, C. CARRARINI, F. DONO, R. DI CENSO, C. ABDELNOUR, F. BLANC, A. LEMSTRA, I. VAN STEENOVEN, M. ONOFRJ, D. AARSLAND, L. BONANNI (*Chieti, Italy - Barcelona, Spain - Strasbourg, France - Amsterdam, Netherlands - London, United Kingdom*)
- 54 **Systemic activation of Nrf2 pathway in patients with Parkinson's Disease**
TOMMASO SCHIRINZI, S. PETRILLO, G. DI LAZZARO, E. BERTINI, N. MERCURI, F. PIEMONTE, A. PISANI (*Rome, Italy*)
- 55 **Cognitive performances in patients with neurogenic orthostatic hypotension: a comparison between Pure Autonomic Failure and Multiple System Atrophy**
ILARIA CANI, L. SAMBATI, G. GIANNINI, G. CALANDRA BUONAURA, G. ASIOLI, A. DROGHINI, F. OPPI, R. PODA, P. GUARALDI, P. CORTELLI (*Bologna, Italy*)
- 55 **Two novel semantic tests: an exploratory study**
ANDREA PLUTINO, S. LUZZI (*Ancona, Italy*)

Poster Session

- 57 **Brain changes in the structural network organization of Amyotrophic Lateral Sclerosis patients: a graph theory analysis study**
CATERINA GALANDRA, C. CRESPI, A. DODICH, G. SANTI, C. LUNETTA, S. IANNACCONE, A. MARCONE, A. FALINI, C. CERAMI (*Pavia, Rovereto TN, Milan, Italy*)
- 58 **Per2 C111G polymorphism influences the effect of the sleep quality on cardiovascular risk profile in Subjective Cognitive Decline and Mild Cognitive Impairment**
JURI BALESTRINI, V. BESSI, S. MAZZEO, S. BAGNOLI, S. PADIGLIONI, G. GIACOMUCCI, G. TOMAIUOLO, I. PIACERI, M. CARRARO, S. SORBI, B. NACMIAS (*Florence, Italy*)
- 59 **Frailty as modulator of presentation in Parkinson's Disease**
ALESSANDRO LUPINI, A. PILOTTO, A. PADOVANI (*Brescia, Italy*)
- 60 **Longitudinal study of EEG functional connectivity in behavioural variant Frontotemporal Dementia vs. Alzheimer's Disease**
LAURA FERRI, R. FRANCIOTTI, A. BENUSSI, F. BARBONE, D. ARNALDI, N. FALASCA, C. CARRARINI, M. RUSSO, D. MORETTI, G. KOCH, A. CAGNIN, F. NOBILI, B. BORRONI, A. PADOVANI, M. ONOFRJ, L. BONANNI (*Chieti, Brescia, Genoa, Rome, Padua, Italy*)
- 61 **Effects of Homotaurine on dlPFC disarray in MCI and the role of GABA: a case report**
CHIARA GIUSEPPINA BONOMI, V. DE LUCIA, C. MOTTA, E. CASULA, G. KOCH, A. MARTORANA (*Rome, Italy*)
- 62 **Mortality and its predictors in Parkinson's Disease patients treated with levodopa/carbidopa intestinal gel**
CARLO ALBERTO ARTUSI, R. BALESTRINO, G. IMBALZANO, S. BORTOLANI, E. MONTANARO, M. ZIBETTI, L. LOPIANO (*Turin, Italy*)
- 63 **Assessment of the burden of the family caregiver in the psychogeriatric ADI of the Teramo AUSL-preliminary results of an inquiry**
NICOLA SERRONI, S. SERRONI, M. CORNELIO, T. ACCIAVATTI, A. PIZZORNO, M. DI PIETRO, L. SERRONI, D. CAMPANELLA (*Teramo, Como, Italy*)
- 64 **Cooperation between badanti and family caregivers of patients with detention followed at home at the U.V.A. of the UOC CSM Teramo**
NICOLA SERRONI, S. SERRONI, L. SERRONI, A. CECI, M. DI PIETRO, A. PIZZORNO, M. CORNELIO, D. CAMPANELLA (*Teramo, Como, Italy*)
- 65 **Physiotherapy assistance with particular regard to for the treatment of basophobia patients with dementia in the AUSL of Teramo (results of an inquiry)**
NICOLA SERRONI, S. SERRONI, L. SERRONI, M. CORNELIO, A. PIZZORNO, M. DI PIETRO, A. CECI, D. CAMPANELLA (*Teramo, Como, Italy*)

Poster Session

- 66 **Prognostic role of gut microbiota in Parkinson's Disease de novo: a 3-year prospective study**
MARCO PIATTI, R. CILIA, E. CEREDA, S. BONVEGNA, C. FERRARESE, A. ZECCHINELLI, M. BARICHELLA, G. PEZZOLI (*Milan, Pavia, Italy*)
- 67 **Serum NFL identified fast motor and cognitive progression in Parkinson's Disease: beyond malignant phenotypes?**
ALBERTO IMARISIO, A. PILOTTO, F. CONFORTI, A. LUPINI, G. GIANNÌ, S. GIPPONI, E. COTTINI, A. SCALVINI, S. MASCIOCCHI, S. NOCIVELLI, R. GRASSO, R. TURRONE, B. BORRONI, M. RIZZETTI, M. PIZZI, A. BELLUCCI, E. GARRAFA, L. BONANNI, H. ZETTERBERG, N. ASHTON, A. HYE, A. PADOVANI (*Brescia, Trescore Balneario BG, Chieti, Italy - London, United Kingdom*)
- 68 **Metabolic neural networks dynamics of neurotransmission systems in the alpha-synuclein spectrum**
GIULIA CARLI, S. CAMINITI, L. PRESOTTO, A. SALA, A. GALBIATI, A. PILOTTO, L. FERINI-STRAMBI, A. PADOVANI, D. PERANI (*Milan, Italy*)
- 69 **Frontotemporal lobar degeneration, C9orf72 expansions and disease prediction: ancestry, syndrome-specific and age at onset implications**
BEATRICE COSTA (*London, United Kingdom*)
- 70 **Combined social measures in the diagnosis of frontotemporal dementia: clinical validation of a short social cognition battery**
GAIA CHIARA SANTI, A. DODICH, C. CRESPI, S. IANNACCONE, A. MARCONE, M. ZAMBONI, S. CAPPÀ, C. CERAMI (*Pavia, Rovereto TN, Milan, Italy*)
- 71 **Use of plasmatic Neurofilaments and muscle biomarkers in differential diagnosis between Amyotrophic Lateral Sclerosis and Spinal Bulbar Muscle Atrophy**
ALESSANDRO BOMBACI, V. LOMBARDI, L. ZAMPEDRI, H. ZETTERBERG, H. HESLEGRAVE, C. RINALDI, P. FRATTA, A. MALASPINA (*Turin, Italy - London, Oxford, United Kingdom*)
- 72 **Cognitive Profile in Isolated REM Sleep Behavior Disorder: a Longitudinal Approach**
LUISA SAMBATI, L. BALDELLI, G. CALANDRA BUONAURA, P. GUARALDI, P. CORTELLI, F. PROVINI (*Bologna, Italy*)
- 73 **Per2 C111G polymorphism influences cognition in Subjective Cognitive Decline and Mild Cognitive Impairment. A 7-year follow-up study**
GIULIA GIACOMUCCI, V. BESSI, S. MAZZEO, S. BAGNOLI, S. PADIGLIONI, J. BALESTRINI, G. TOMAIUOLO, I. PIACERI, M. CARRARO, S. SORBI, B. NACMIAS (*Florence, Italy*)



General informations

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- The number of participants will be limited to 130.
- Priority will be given to applicants whose scientific contribution will be accepted for presentation.

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