

SINdem4Juniors

10th 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 23-25, 2023

Bressanone, Italy
Dolomiti – Sud Tirolo

Save the date!

February 23, 2023
Contamination Session

February 24-25, 2023
Scientific Session



SINdem4Juniors

Scientific Committee

Marco Bozzali (*Turin, Italy*)

Andrea Arighi (*Milan, Italy*)

Alberto Benussi (*Brescia, 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 (*Bologna, Italy*)

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

Luisa Sambati (*Bologna, Italy*)

Laura Serra (*Rome, Italy*)

Thursday February 23

15.30 Registration

15.45 Opening

CONTAMINATION SESSION

SESSION I

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

16.00 **Mirror Neurons - Insights from Neurodegeneration**
LUCIANO FADIGA (*Ferrara, Italy*)

16.45 **Neuroscience of Laughter**
SOPHIE SCOTT (*London, United Kingdom*)

17.30 Coffee break

SESSION II

Moderators: MATTEO DE MARCO (*London, United Kingdom*)
CHIARA CERAMI (*Pavia, Italy*)

18.00 **Global Warming Effects on Brain: Insights for Neurodegenerative and other Neurological Disorders?**
COSTANZA PEINKHOFFER (*Copenhagen, Denmark*)

18.45 **Memorial Massimo Musicco**
Moderator: MARCO BOZZALI (*Turin, Italy*)
Speaker: PAOLO CAFFARRA (*Parma, Italy*)

20.00 Dinner

Friday February 24

EDUCATIONAL WORKSHOP

Lost in... Digital

ELISA CANU (*Milan, Italy*)

CHIARA CERAMI (*Pavia, Italy*)

LAURA SERRA (*Rome, Italy*)

- 10.00 **Neotiv**
INA HEMPEN (*Ulm, Germany*)
- 10.30 **Mind Ahead**
PASQUALE FEDELE (*Siena, Italy*)
- 11.00 **Soturi**
GIOVANNI GENTILE (*Milan, Italy*)
- 11.30 Coffee break
- 12.00 **Hands-on Session**
- 13.00 Lunch

SESSION I

Moderators: CARLO ALBERTO ARTUSI (*Turin, Italy*)

GIORGIO GIULIO FUMAGALLI (*Milan, Italy*)

- 15.00 **Huntington's disease: From Neurodevelopment to Neurodegeneration**
SANDRINE HUMBERT (*Grenoble, France*)

ORAL COMMUNICATION

- 15.20 **Amyloid Precursor Protein mutations retrace recent human migration and admixture events: opportunities for the study of neurodegeneration**
PAOLO ABONDIO, F. BRUNO, A. BRUNI, D. LUISELLI (*Bologna, Lamezia Terme CZ, Italy*)

Friday February 24

- 15.30 **Cerebrospinal fluid YKL-40 as an early marker of progression in amnesic mild cognitive impairment due to Alzheimer's disease**
GUIDO MARIA GIUFFRÈ, D. QUARANTA, M. G. VITA, S. CITRO, T. G. MORGANTI, N. MARTELLACCI, P. CALABRESI, C. MARRA (*Rome, Italy*)

FLASH POSTER

- 15.40 **Telomere Length Shortening in Alzheimer's Disease**
VIRGINIA CIPOLLINI, F. TROILI, D. SCARABINO, F. GIUBILEI (*Rome, Italy*)
- 15.45 **Assessment of manual dexterity using a smartphone in subjects with Parkinson's disease**
ANDREA GARDONI, E. SARASSO, D. CORBETTA, D. EMEDELI, L. ZENERE, R. BALESTRINO, S. IANNACONE, M. VOLONTÈ, M. FILIPPI, F. AGOSTA (*Milan, Genoa, Italy*)
- 15.50 **Turning alterations in idiopathic REM sleep behavioral disorders**
CINZIA ZATTI, A. PILOTTO, C. HANSEN, A. RIZZARDI, M. CATANIA, R. ROMIJNDERS, M. PASOLINI, A. GALBIATI, L. FERINI-STRAMBI, E. SCHAEFFER, D. BERG, W. MAETZLER, A. PADOVANI (*Brescia, Milan Italy - Kiel, Germany*)
- 15.55 Opening discussion
- 16.30 Coffee break

SESSION II

Moderators: ANNIBALE ANTONIONI (*Ferrara, Italy*)
GIACOMO KOCH (*Ferrara, Italy*)

OPENING LECTURE

- 17.00 **Brain Stimulation in Ageing and Dementia**
GIACOMO KOCH (*Ferrara, Italy*)

ORAL COMMUNICATION

- 17.20 **Cortico-cortical signal transmission and brain connectivity in healthy individuals as a model for studying Alzheimer's disease: a multimodal approach of TMS-EEG and advanced MRI**
VERONICA CASTELNOVO, E. CANU, G. BERTAZZOLI, A. MALVASO, C. BAGATTINI, D. CALDERARO, F. FRERI, C. FRACASSI, M. MARIZZONI, V. NICOLOSI, M. FILIPPI, M. BORTOLETTO, F. AGOSTA (*Milan, Brescia, Trento, Italy*)
- 17.30 **Brain FDG-PET differentiates typical and atypical Alzheimer's disease with neuropsychiatric symptoms: clinical classification and prognostic prediction**
GIACOMO TONDO, F. DE MARCHI, S. CAMINITI, F. MENEGON, B. SARASSO, P. SERRA, R. MATHEOUD, G. SACCHETTI, C. COMI, D. PERANI (*Vercelli, Novara, Milan, Italy*)

Friday February 24

FLASH POSTER

- 17.40 **EEG correlates** in the three variants of Primary Progressive Aphasia
GIORDANO CECCHETTI, S. BASAIA, E. CANU, C. CIVIDINI, M. CURSI, M. LEOCADI,
R. SANTANGELO, F. CASO, G. FANELLI, F. MINICUCCI, G. MAGNANI, M. FILIPPI, F.
AGOSTA (*Milan, Italy*)
- 17.45 **Unravelling neurotransmitters impairment in Primary Progressive Aphasias**
IRENE MATTIOLI, E. PREMI, J. DUKART, I. LIBRI, M. PENGO, Y. GADOLA, M. COTELLI,
R. MANENTI, G. BINETTI, S. GAZZINA, A. ALBERICI, M. MAGONI, G. KOCH, R.
GASPAROTTI, A. PADOVANI, B. BORRONI (*Brescia, Rome, Italy - Düsseldorf, Germany*)
- 17.50 **Effect of Physical Activity on White Matter Integrity in Mild Cognitive
Impairment and Mild Alzheimer's Disease with Vascular Comorbidity**
SRIJAN KONWAR, R. MANCA, M. DE MARCO, H. SOININEN, A. VENNERI (*London,
United Kingdom - Kuopio, Finland*)
- 17.55 Opening discussion
- 18.30 **POSTER SESSION**
- 19.30 Dinner

SESSION III

Moderators: ELISA CANU (*Milan, Italy*)
FRANCESCO DI LORENZO (*Rome, Italy*)

- 20.30 **The Change in the Alzheimer's Landscape**
PHILIP SCHELTENS (*Amsterdam, Netherlands*)

Saturday February 25

LUNCH SYMPOSIUM

Alzheimer's disease – What's Beyond Amyloid?

Moderators: LUISA SAMBATI (*Bologna, Italy*)

LIDIA SARRO (*Turin, Italy*)

10.00 **Contribution of Cerebral Amyloid Angiopathy to Alzheimer's Disease**
FABRIZIO PIAZZA (*Milan, Italy*)

10.40 **α -Synuclein**
LAUREN WALKER (*Newcastle, United Kingdom*)

12.00 Lunch

Moderators: GIULIA GIACOMUCCI (*Florence, Italy*)

ARIANNA SALA (*Stockholm, Sweden - Milan, Italy*)

13.00 **TDP-43**
LIISA MYLLYKANGAS (*Helsinki, Finland*)

13.40 **Tau**
NICOLAI FRANZMEIER (*Münich, Germany*)

14.30 Coffee break

SESSION IV

Moderators: MICAELA MITOLO (*Bologna, Italy*)

VALENTINA MOSCHINI (*Florence, Italy*)

15.00 **Quality over Quantity in Neuropsychology: Implications for Neurodegenerative Disorders**
JENNIFER A. FOLEY (*London, United Kingdom*)

ORAL COMMUNICATION

15.20 **Mental health and minority stress are associated with worse cognitive performance in sexual minority older adults**
RICCARDO MANCA, A. VENNERI (*London, United Kingdom*)

Saturday February 25

- 15.30 **Exploring potential markers of pre-dementia risk states in motor neuron diseases: a longitudinal study of Mild Behavioral Impairment and its relation to cognition**
PILAR MARIA FERRARO, M. CILLERAI, C. GEMELLI, M. PARDINI, L. ROCCATAGLIATA, A. SCHENONE, C. CAPONNETTO (*Genoa, Italy*)

FLASH POSTER

- 15.40 **Evaluation of the diagnostic accuracy of a battery of neuropsychological tests in identifying cognitive impairment in Parkinson disease and Atypical parkinsonisms**
ANNA STELLA GHERARDI, L. BALDELLI, L. ROMANO, I. CANI, G. GIANNINI, P. GUARALDI, F. PROVINI, P. CORTELLI, G. CALANDRA-BUONAUURA, L. SAMBATI (*Bologna, Italy*)
- 15.45 **The SCOT project: a Social and Cognitive Online Training to promote active ageing**
GIULIA FUNGHI, C. MELI, F. ZAPPINI, C. PAPAGNO, A. DODICH (*Rovereto, TN, Italy*)
- 15.50 **The influence of gender on neuropsychiatric symptoms in neurodegenerative dementias**
CHIARA SILVESTRI, I. LIBRI, I. MATTIOLI, V. CANTONI, J. RIVOLTA, Y. GADOLA, S. CARATOZZOLO, M. COSSEDDU, R. TURRONE, A. ALBERICI, A. PADOVANI, B. BORRONI, A. BENUSSI (*Brescia, Italy*)
- 15.55 Opening discussion
- 16.30 Coffee break

SESSION V

Moderators: ANDREA ARIGHI (*Milan, Italy*)
GIULIA DI LAZZARO (*Rome, Italy*)

- 17.00 **The Concept of Preclinical and Prodromal Frontotemporal Dementia**
LUCY RUSSELL (*London, United Kingdom*)

ORAL COMMUNICATION

- 17.20 **Subjective cognitive decline: 15 years of follow-up experience from a memory clinic**
VALENTINA MOSCHINI, S. MAZZEO, S. PADIGLIONI, S. BAGNOLI, G. GIACOMUCCI, J. BALESTRINI, A. INGANNATO, C. MORINELLI, F. EMILIANI, G. GALDO, B. NACMIAS, S. SORBI, V. BESSI (*Florence, Italy*)
- 17.30 **Choroid plexus volume in frontotemporal lobar degeneration**
MARTINA ASSOGNA, E. PREMI, S. GAZZINA, A. BENUSSI, N. ASHTON, H. ZETTERBERG, K. BLENNOW, R. GASPAROTTI, A. PADOVANI, E. TADAYON, S. ROMANELLA, G. SPRUGNOLI, A. PASCUAL-LEONE, F. DI LORENZO, G. KOCH, B. BORRONI, E. SANTARNECCHI (*Rome, Brescia, Italy - Mölndal, Sweden - Boston, USA*)

Saturday February 25

FLASH POSTER

- 17.40 **Predominant right temporal lobe atrophy: clinical, neuropsychological and structural differences based on amyloid status**
GIORGIO GIULIO FUMAGALLI, J. DI NAPOLI, G. CONTE, L. SACCHI, T. CARANDINI, M. ARCARO, C. FENOGLIO, F. SORRENTINO, M. MERCURIO, G. GIARDINIERI, F. TRIULZI, D. GALIMBERTI, E. SCARPINI, A. ARIGHI (*Milan, Italy*)
- 17.45 **Plasma p-tau181 as a promising non-invasive biomarker of Alzheimer's Disease pathology in Subjective Cognitive Decline and Mild Cognitive Impairment**
GIULIA GIACOMUCCI, S. MAZZEO, S. BAGNOLI, A. INGANNATO, S. PADIGLIONI, G. GALDO, C. CRUCIOTTI, F. EMILIANI, V. MOSCHINI, C. MORINELLI, S. SORBI, V. BESSI, B. NACMIAS (*Florence, Italy*)
- 17.50 **Role of TDP-43 in the diagnosis and phenotypic characterization of Amyotrophic Lateral Sclerosis: comparison between CSF and plasma data**
FABIOLA DE MARCHI, D. PROFICO, L. ABATE, S. FERRARI, R. CANTELLO, M. GELATI, L. MAZZINI (*Novara, San Giovanni Rotondo FG, Italy*)
- 17.55 Opening discussion
- 18.30 POSTER SESSION
- 19.30 Dinner
- 20.30 **La scoperta della malattia di Alzheimer-Perusini: una storia italo-tedesca**
SANDRO SORBI (*Florence, Italy*)
- 21.00 Prizes "Massimo Musicco" for the best presentation

Poster Session

February 24th - Friday

POSTER SESSION

Moderators: PAOLO ABONDIO (*Bologna, Italy*)
ANNIBALE ANTONIONI (*Ferrara, Italy*)
FRANCESCO DI LORENZO (*Rome, Italy*)

- 1 **Plasma p-tau181 as a promising non-invasive biomarker of Alzheimer's Disease pathology in Subjective Cognitive Decline and Mild Cognitive Impairment**
GIULIA GIACOMUCCI, S. MAZZEO, S. BAGNOLI, A. INGANNATO, S. PADIGLIONI, G. GALDO, C. CRUCITTI, F. EMILIANI, V. MOSCHINI, C. MORINELLI, S. SORBI, V. BESSI, B. NACMIAS (*Florence, Italy*)
- 2 **Neurological Soft Signs in dementia**
FEDERICO EMANUELE POZZI, A. FALCO, G. GOTTI, I. APPOLLONIO, C. FERRARESE, L. TREMOLIZZO (*Monza MI, Italy*)
- 3 **Predominant right temporal lobe atrophy: clinical, neuropsychological and structural differences based on amyloid status**
GIORGIO GIULIO FUMAGALLI, J. DI NAPOLI, G. CONTE, L. SACCHI, T. CARANDINI, M. ARCARO, C. FENOGLIO, F. SORRENTINO, M. MERCURIO, G. GIARDINIERI, F. TRIULZI, D. GALIMBERTI, E. SCARPINI, A. ARIGHI (*Milan, Italy*)
- 4 **Orexin-A in neurodegenerative dementias: a study on its determination in different biological fluids and possible correlations with other neurodegeneration associated peptides**
RICCARDO CREMASCOLI, F. VERDE, S. CATTALDO, E. PRINA, I. MILONE, A. RATTI, L. PRIANO, L. PRADOTTO, A. MITKOVA, F. SOLCA, B. POLETTI, D. SORANNA, A. ZAMBON, V. SILANI, A. MAURO (*Turin, Milan, Verbania, Italy*)
- 5 **Turning alterations in idiopathic Rem sleep behavioral disorders**
CINZIA ZATTI, A. PILOTTO, C. HANSEN, A. RIZZARDI, M. CATANIA, R. ROMIJNDERS, M. PASOLINI, A. GALBIATI, L. FERINI-STRAMBI, E. SCHAEFFER, D. BERG, W. MAETZLER, A. PADOVANI (*Brescia, Milan, Italy - Kiel, Germany*)
- 6 **Sleep microstructure in Parkinson's disease related dementia: cycling alternating pattern (CAP) disruption reflects neurodegeneration progression**
RICCARDO CREMASCOLI, B. DEL FABBRO, L. PRIANO, N. AZZI, C. MUTTI, M. BIGONI, L. BIANCHI, C. CHIELLO, D. SORANNA, A. ZAMBON, A. COSTA, M. TERZAGHI, A. MAURO, L. PARRINO (*Turin, Pavia, Parma, Verbania VB, Italy*)
- 7 **Transcriptomic characterization of Amyotrophic Lateral Sclerosis phenotypes**
FRANCESCA DRAGONI, M. GAROFALO, E. SCARIAN, R. DI GERLANDO, M. BUSACCA, G. FIAMINGO, L. DIAMANTI, J. GARAU, M. BORDONI, O. PANSARASA, S. GAGLIARDI (*Pavia, Italy*)

Poster Session

- 8 Study of deregulated microRNAs and their targets in extracellular vesicles of Alzheimer and Frontotemporal Dementia patients**
ROSALINDA DI GERLANDO, M. GAROFALO, M. BUSACCA, F. DRAGONI, A. COSTA, G. PERINI, M. COTTA RAMUSINO, S. CAPPA, S. GAGLIARDI (*Pavia, Italy*)
- 9 Effect of Physical Activity on White Matter Integrity in Mild Cognitive Impairment and Mild Alzheimer's Disease with Vascular Comorbidity**
SRIJAN KONWAR, R. MANCA, M. DE MARCO, H. SOININEN, A. VENNERI (*London, United Kingdom - Kuopio, Finland*)
- 10 Frailty is associated with hippocampal atrophy in cognitively unimpaired older individuals**
SIMONA BUSCARNERA, M. VALLETTA, M. CANEVELLI, G. BRUNO (*Rome, Italy*)
- 11 Prevalence of depressive symptoms and associations with probable sarcopenia, functional dependence, frailty and comorbidities in the community-dwelling older adults**
EMANUELE ROCCO VILLANI, D. ZACCHERINI, B. MANNI, G. VACCARI, A. MANCINI, A. FABBO (*Rome, Modena, Italy*)
- 12 Exploring hypomimia in Alzheimer's disease**
MARTINA SALZILLO, A. CANNAVACCIUOLO, D. COLELLA, A. BERARDELLI, M. CANEVELLI, M. BOLOGNA, G. BRUNO (*Rome, Italy*)
- 13 A novel GRN mutation in an Italian patient with non-fluent variant of primary progressive aphasia at onset: a longitudinal case report**
VERONICA CASTELNOVO, E. CANU, L. POZZI, F. VIGNAROLI, E. SPINELLI, T. DOMI, G. TONDO, C. COMI, P. CARRERA, N. RIVA, M. FILIPPI, F. AGOSTA (*Milan, Novara, Vercelli, Italy*)
- 14 EEG correlates in the three variants of Primary Progressive Aphasia**
GIORDANO CECCHETTI, S. BASAIA, E. CANU, C. CIVIDINI, M. CURSI, M. LEOCADI, R. SANTANGELO, F. CASO, G. FANELLI, F. MINICUCCI, G. MAGNANI, M. FILIPPI, F. AGOSTA (*Milan, Italy*)
- 15 Age-related vulnerability of the human brain connectome**
CAMILIA CIVIDINI, S. BASAIA, E. SPINELLI, V. CASTELNOVO, M. LEOCADI, E. CANU, M. FILIPPI, F. AGOSTA (*Milan, Italy*)
- 16 Identifying variants of posterior cortical atrophy using clinical classification or MR-based machine learning**
CAMILIA CIVIDINI, E. CANU, M. MAGNO, M. MONTEMBEAULT, S. BASAIA, G. VISENTIN, F. CASO, G. MAGNANI, R. LEVY, R. MIGLIACCIO, M. FILIPPI, F. AGOSTA (*Milan, Italy - San Francisco USA - Paris, France*)
- 17 Technological assessment of handwriting and finger tapping in subjects with Parkinson's disease**
ANDREA GARDONI, E. SARASSO, L. ZENERE, D. EMEDOLI, R. BALESTRINO, S. IANACCONE, M. VOLONTÈ, D. CORBETTA, M. FILIPPI, F. AGOSTA (*Milan, Genoa, Italy*)

Poster Session

- 18 **Assessment of manual dexterity using a smartphone in subjects with Parkinson's disease**
ANDREA GARDONI, E. SARASSO, D. CORBETTA, D. EMEDELLI, L. ZENERE, R. BALESTRINO, S. IANNACCONI, M. VOLONTÈ, M. FILIPPI, F. AGOSTA (*Milan, Genoa, Italy*)
- 19 **Action observation and motor imagery improve motor imagery abilities in patients with Parkinson's disease - a functional MRI study**
ELISABETTA SARASSO, A. GARDONI, L. ZENERE, E. CANU, S. BASAIA, M. VOLONTÈ, M. FILIPPI, F. AGOSTA (*Milan, Italy*)
- 20 **Functional MRI and gait analysis characteristics in patients with isolated REM sleep behavior disorder**
ELISABETTA SARASSO, A. GARDONI, S. MARELLI, L. ZENERE, A. CASTELNUOVO, R. BALESTRINO, A. TETTAMANTI, L. FERINI-STRAMBI, M. FILIPPI, F. AGOSTA (*Milan, Italy*)
- 21 **Double trouble: clinical features and neuroimaging correlates in a case of genetic frontotemporal dementia with C9orf72 expansion and progranulin mutation**
ALMA GHIRELLI, E. SPINELLI, E. CANU, V. CASTELNUOVO, S. BASAIA, T. DOMI, A. QUATTRINI, G. MAGNANI, F. CASO, P. CARRERA, M. FILIPPI, F. AGOSTA (*Milan, Italy*)
- 22 **Premorbid psychological resilience is protective against extra-motor disturbances in motor neuron diseases**
PILAR MARIA FERRARO, M. CILLERAI, C. GEMELLI, M. PARDINI, L. ROCCATAGLIATA, A. SCHENONE, C. CAPONNETTO (*Genoa, Italy*)
- 23 **Cognitive profile of right and left Corticobasal Syndrome**
DANIELE LICCIARDO, F. FERRI, C. CRIVELLARO, S. MORZENTI, C. FERRARESE, I. APPOLLONIO, V. ISELLA (*Monza MI, Italy*)
- 24 **The role of astrocytes and β 2AR signalling in frontotemporal dementia: a study design**
FRANCESCA BERNOCCHI, C. MOTTA, M. ASSOGNA, C. BONOMI, G. KOCH, A. MARTORANA (*Rome, Italy*)
- 25 **Structural and functional connectome alterations across King's stages in amyotrophic lateral sclerosis**
EDOARDO GIOELE SPINELLI, A. GHIRELLI, S. BASAIA, C. CIVIDINI, N. RIVA, T. RUSSO, E. CANU, V. CASTELNUOVO, M. FILIPPI, F. AGOSTA (*Milan, Italy*)
- 26 **Stepwise functional brain architecture from disease epicenter correlates with atrophy in progressive supranuclear palsy**
EDOARDO GIOELE SPINELLI, A. GHIRELLI, I. BOTTALE, S. BASAIA, C. CIVIDINI, M. VOLONTÈ, S. GALANTUCCI, G. MAGNANI, F. CASO, E. CANU, V. CASTELNUOVO, P. CAROPPO, S. PRIONI, C. VILLA, K. JOSEPHS, J. WHITWELL, M. FILIPPI, F. AGOSTA (*Milan, Italy - Rochester, USA*)
- 27 **Alterations of spontaneous speech in primary progressive aphasia variants: a neuropsychological and brain MRI study**
ELISA CANU, S. SANTICIOLI, V. CASTELNUOVO, M. MAGNO, E. GATTI, A. LAMANUZZI, S. BASAIA, G. MAGNANI, F. CASO, P. CAROPPO, S. PRIONI, C. VILLA, S. CAPPA, M. FILIPPI, F. AGOSTA (*Milan, Pavia, Italy*)

Poster Session

- 28 **The multifaceted involvement of the caudate functional connectivity network in amyloid positive mild cognitive impairment and Alzheimer's disease patients**
GIULIA RUGARLI, S. BASAIA, M. ZAVARELLA, V. CASTELNOVO, C. CIVIDINI, E. CANU, F. CASO, G. MAGNANI, M. FILIPPI, F. AGOSTA (*Milan, Italy*)
- 29 **Telomere Length Shortening in Alzheimer's Disease**
VIRGINIA CIPOLLINI, F. TROILI, D. SCARABINO, F. GIUBILEI (*Rome, Italy*)
- 30 **Role of TDP-43 in the diagnosis and phenotypic characterization of Amyotrophic Lateral Sclerosis: comparison between CSF and plasma data**
FABIOLA DE MARCHI, D. PROFICO, L. ABATE, S. FERRARI, R. CANTELLO, M. GELATI, L. MAZZINI (*Novara, San Giovanni Rotondo FG, Italy*)
- 31 **Rehabilitation treatments in Lewy Body Dementia: a systematic review**
LUCIA GUIDI, S. EVANGELISTI, A. SINISCALCO, R. LODI, C. TONON, M. MITOLO (*Bologna, Milan, Italy*)
- 32 **Ageing influences regional white-matter axonal density loss: a connectome-wide network study using probabilistic multishell, multitissue constrained spherical deconvolution tracking**
ELISA SIBILLA, S. BASAIA, F. FACENTE, E. GATTI, A. LAMANUZZI, C. CIVIDINI, E. CANU, M. FILIPPI, F. AGOSTA (*Milan, Italy*)
- 33 **Characterization of FTLN spectrum through advanced diffusion-weighted MRI metrics: a connectome approach**
SILVIA BASAIA, C. CIVIDINI, F. FACENTE, E. SPINELLI, E. CANU, V. CASTELNOVO, A. GHIRELLI, G. MAGNANI, F. CASO, N. RIVA, P. CAROPPO, S. PRIONI, C. VILLA, L. TREMOLIZZO, I. APPOLLONIO, F. VERDE, V. SILANI, M. FILIPPI, F. AGOSTA (*Milan, Monza MI, Italy*)
- 34 **Modeling pathological spread through the structural connectome in the FTLN spectrum**
SILVIA BASAIA, F. FACENTE, C. CIVIDINI, E. SPINELLI, E. CANU, V. CASTELNOVO, A. GHIRELLI, G. MAGNANI, F. CASO, N. RIVA, P. CAROPPO, S. PRIONI, C. VILLA, L. TREMOLIZZO, I. APPOLLONIO, F. VERDE, V. SILANI, M. FILIPPI, F. AGOSTA (*Milan, Monza MI, Italy*)
- 35 **Longitudinal brain functional connectivity changes induced by neurosurgical thalamotomy for tremor in Parkinson's disease**
LUIGI ALBANO, S. BASAIA, D. EMEDOLI, R. BALESTRINO, E. POMPEO, L. BARZAGHI, A. CASTELLANO, A. FALINI, S. IANNACCONE, P. MORTINI, M. FILIPPI, F. AGOSTA (*Milan, Italy*)
- 36 **Cerebrospinal fluid CX3CL1 in Alzheimer Disease as a potential diagnostic biomarker**
PAOLO RIBISI, T. PICCOLI (*Palermo, Italy*)
- 37 **Clinical features at onset and longitudinal trajectories of decline in MND patients with cognitive-behavioral impairment**
MARTA CILLERAI, P. FERRARO, C. GEMELLI, G. MEO, M. PARDINI, A. SCHENONE, C. CAPONNETTO (*Genoa, Italy*)

Poster Session

February 25th - Saturday

POSTER SESSION

Moderators: ANDREA ARIGHI (*Milan, Italy*)
GIORGIO GIULIO FUMAGALLI (*Milan, Italy*)
MARCELLO MOCCIA (*Naples, Italy*)

- 38 Unravelling neurotransmitters impairment in Primary Progressive Aphasia**
IRENE MATTIOLI, E. PREMI, J. DUKART, I. LIBRI, M. PENGO, Y. GADOLA, M. COTELLI, R. MANENTI, G. BINETTI, S. GAZZINA, A. ALBERICI, M. MAGONI, G. KOCH, R. GASPAROTTI, A. PADOVANI, B. BORRONI (*Brescia, Rome, Italy - Düsseldorf, Germany*)
- 39 Does familiarity for neurodegenerative diseases influence amyotrophic lateral sclerosis presentation? An exploratory clinical study**
MARTA CILLERAI, P. FERRARO, G. MEI, C. GEMELLI, F. GOTTA, P. MANDICH, A. SCHENONE, C. CAPONNETTO (*Genoa, Italy*)
- 40 Correlates of microglial and astrocytic activity in symptomatic sporadic Alzheimer's Disease: a CSF/18F-FDG-PET study**
CHIARA GIUSEPPINA BONOMI, M. ASSOGNA, M. DI DONNA, S. FALLETTI, M. POLI, G. KOCH, A. CHIARAVALLI, A. MARTORANA, C. MOTTA (*Rome, Italy*)
- 41 Catatonic syndrome in a patient with a previous diagnosis of Multiple Sclerosis**
ANDREA MASTRANGELO, S. BAIARDI, A. MONTINI, G. BENTIVENGA, F. BARTIROMO, C. BELSITO, P. PARCHI, S. CAPELLARI (*Bologna, Italy*)
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General informations

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