

Sindem4 juniors

2° WINTER SEMINAR ON DEMENTIA
“Recent advances in Clinical and Experimental Research
on Dementia and Neurodegenerative Disorders”

JANUARY 22-24, 2014

Cusanus Academy - Piazza Seminario 2, 39042 BRIXEN (BZ), ITALY

Final Program

WEDNESDAY 22 JANUARY SYMPOSIUM

“What NEUROIMAGING AND BRAIN STIMULATION tell us on brain dysfunction in dementia”

Issued by the support of the Italian Ministry of Health; Grant No. GR2008 - 1144536 to M. Bozzali

14.15-14.30 Introduction to the Symposium

BOZZALI M. and KOCH G. (Rome, Italy)

14.30-15.15 Amyloid imaging for early diagnosis and staging of Alzheimer's disease

PERANI D. (Milan, Italy)

15.15-16.00 Quantitative MRI to assess atrophy and disconnection in dementia

BOZZALI M. (Rome, Italy)

16.00-16.30 Coffee break

16.30-17.15 fMRI to explore functions and dysfunctions in cognitive domains

MACALUSO E. (Rome, Italy)

17.15-18.00 Non invasive modulation of cortical plasticity in Alzheimer's disease.

KOCH G. (Rome, Italy)

18.00-18.45 T MS-evoked EEG/cortical potentials in normal and unsuccessful aging.

MINIUSSI C. (Brescia, Italy)

18.45-19.30 Neuroenhancement of brain aging: restoring skill acquisition

HUMMEL F. (Hamburg, Germany)

19.30- till late Welcome Cocktail

THURSDAY 23 JANUARY
EXPERIMENTAL SCIENCE

15.30-17.15 ORAL COMMUNICATIONS – 1st SESSION

CHAIRMEN: BORRONI B. (Brescia, Italy) and FENOGLIO C. (Milan, Italy)

15.30-16.00 OPENING LECTURE

Genetic research of Dementia brings novel insights.

VAN DER ZEE J. (Antwerpen, Belgium).

16.00-16.15

Role of heterozygous mutations in NPC1 gene as cause of Niemann-Pick Type C disease in adults or risk factor for neurodegenerative disorders.

CUPIDI C. (Catanzaro, Italy).

16.15-16.30

Phenotypic variability in patients with frontotemporal dementia: clinical characterization of patients carrying progranulin genetic variants.

TERENZI F. (Florence, Italy).

16.30-16.45

TREM2 genetic variability in Italian populations of FTL and AD patients.

FENOGLIO C. (Milan, Italy).

16.45-17.00

First report of posterior cortical atrophy due to a PS2 mutation.

SUSANI E. (Milan, Italy).

17.00-17.15

Genetic association between APOEε4 and clinical and neuropsychiatric symptoms in Alzheimer's disease patients.

TROILI F. (Rome, Italy).

17.15-17.30 COFFEE BREAK

17.30-19.30 ORAL COMMUNICATIONS - 2nd SESSION

CHAIRMEN: GARDONI F. (Milan, Italy) and CUPIDI C. (Catanzaro, Italy)

17.30-18.00 OPENING LECTURE

Functional investigation of a novel Parkin interactor.

ZANON A. (Bozen, Italy).

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18.00-18.15

Brain damage in a muscular disorder: the case of late onset Glycogenosis type II.
GAZZINA S. (*Brescia, Italy*).

18.15-18.30

ADAM10 exocytosis/endocytosis in spines: looking for new therapeutic strategies for
Alzheimer's disease.
MUSARDO S. (*Milan, Italy*).

18.30-18.45

Structural and resting state measures differentiate APOE e4 carriers in young and mid-age
adults.
EVANS S. (*Brighton, United Kingdom*).

18.45-19.00

Cytokine gene expression in peripheral cells from patients with frontotemporal lobar
degeneration due to GRN and C9ORF72 mutation.
SERPENTE M. (*Milan, Italy*).

19.00-19.15

CSF p-Tau181/Tau ratio to distinguish FTLD-TDP from FTLD-Tau.
BENUSSI A. (*Brescia, Italy*).

19.15-19.30

What predicts cognitive impairment in PD?
FAROTTI L. (*Perugia, Italy*)

19.30-20.30 DINNER AND POSTERS

20.30-22.00 ORAL COMMUNICATIONS – 3rd SESSION

CHAIRMEN: TREMOLIZZO L. (*Milan, Italy*) and MARCELLO E. (*Milan, Italy*)

20.30-21.00 OPENING LECTURE

Probing genetic variations influencing human cortical e-LTP like plasticity.
CHEERAN B. (*Oxford, United Kingdom*).

21.00-21.15

Homotaurine effects on cholinergic circuits and cortical plasticity in MCI patients. A TMS
study.
DI LORENZO F. (*Rome, Italy*).

21.15-21.30

White matter lesions account for apathy symptoms in amnesic mild cognitive impairment: a
voxel based lesion symptom mapping study.
TORSO M. (*Rome, Italy*).

21.30-21.45

The effect of age of onset on the brain functional connectivity in Alzheimer's disease: a
graph analysis study.
CANU E. (*Milan, Italy*).

21.45-22.00

Callosal angle sign is the most accurate MRI marker for normal pressure hydrocephalus.
TAGLIAPIETRA M. (*Padova, Italy*).

FRIDAY 24 JANUARY
CLINICAL SCIENCE

15.30-17.15 ORAL COMMUNICATIONS – 1st SESSION

CHAIRMEN: GALIMBERTI D. (Milan Italy) and PREMI E. (Brescia, Italy)

15.30-16.00 OPENING LECTURE

Crossing borders in the phenomenology and cognitive impairment between frontotemporal dementia and bipolar disorder.

DELL’OSSO B. (Milan, Italy)

16.00-16.15

When MCI disappears: the phenomenon from the perspective of a memory clinic.

GRANDE G. (Milan, Italy)

16.15-16.30

Magnetic susceptibility measurements in early-stage Alzheimer’s disease.

ACOSTA-CABRONERO J. (Magdeburg, Germany).

16.30-16.45

Accumulation of gray matter atrophy in frontal lobes accounts for conversion to Alzheimer’s Disease in patients with amnesic Mild Cognitive Impairment.

TINI N. (Rome, Italy).

16.45-17.00

Distinctive neuroimaging features in Parkinson’s disease and Dementia with Lewy Bodies: a fMRI resting-state study.

FORMENTI A. (Brescia, Italy).

17.00- 17:15

Longitudinal patterns of brain atrophy in frontotemporal lobar degeneration clinical syndromes compared with Alzheimer’s disease.

AGOSTA F. (Milan, Italy).

17.15-17.30 COFFEE BREAK

17.30-19.30 ORAL COMMUNICATIONS – 2nd SESSION

CHAIRMEN: SERRA L. (Rome, Italy) and ACOSTA-CABRONERO J. (Magdeburg, Germany)

17.30-18.00 OPENING LECTURE

Potential biomarkers for the premotor stages of Parkinson’s disease.

MAHLKNECHT P. (Innsbruck , Austria).

18.00-18.15

Accurate classification of early Alzheimer’s disease using a brief test of spatial memory.

MINATI L. (Brighton, United Kingdom).

18.15-18.30

The potential protective effect of different levels of cognitive reserve on the risk to develop Alzheimer’s disease: a longitudinal study.

SPANO’ B. (Rome, Italy).

18.30-18.45

Occurrence of cancer and Alzheimer’s disease are inversely associated in elderly persons: A population-based incidence study.

PRINELLI F. (Milan, Italy).

18.45-19.00

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Disrupted brain functional networks in the semantic variant of primary progressive aphasia.
GALANTUCCI S. (Milan, Italy).

19.00-19.15

Brain Perfusion and Glucose Metabolism by Simultaneous FDG-PET/MR-ASL in Patients with Cognitive Disorders: Initial Experience.
SALVATORE E. (Naples, Italy).

19.15-19.30

Underweight predicts progression of MCI to dementia.
COVA I. (Milan, Italy).

19.30-20.30 DINNER AND POSTERS

20.30-22.00 ORAL COMMUNICATIONS – 2nd SESSION

CHAIRMEN: M. BOZZALI (Rome, Italy) and AGOSTA F. (Milan, Italy)

20.30-21.00 OPENING LECTURE

Autonomic functions and dysfunctions in neurodegenerative disorders.
GARFINCHEL S. (Brighton, United Kingdom).

21.00-21.15

Mapping regional grey and white matter damage in patients with progressive supranuclear palsy syndrome.
CASO F. (Milan, Italy).

21.15-21.30

Cerebrospinal fluid and neuroimaging biomarkers in Posterior Cortical Atrophy.
ARIGHI A. (Milan, Italy).

21.30-21.45

Brain plasticity in mild Alzheimer's Disease. Effects of a computer-based cognitive training on functional connectivity.
BARBAN F. (Rome, Italy).

21.45-22.00

MRI advanced study in posterior cortical atrophy.
GRAMEGNA L. (Bologna, Italy).

THURSDAY 23 JANUARY
POSTER SESSION

CHAIRMEN: BORRONI B. (Brescia, Italy) and PRETI M.G. (Geneva, Switzerland)

New genetic mutation in progranulin gene in Fronto-Temporal Dementia.
GARDINI S. (Parma, Italy).

Different progression of linguistic impairment in the three variants of Primary Progressive Aphasia.
SPINELLI P. (Rome, Italy).

“Pure Behavioural” variant in the clinical spectrum of Frontotemporal Dementia.
COSEDDU M. (Brescia, Italy).

Severity of memory impairment in amnesic MCI patients predicts the rate of conversion to Alzheimer Disease.
CASTELLI D. (Rome, Italy).

Huntington’s Disease and Apolipoprotein E: genotype and phenotype correlation.
FORTUNATO F. (Florence, Italy).

Is memory impairment the specific distinctive and prominent sign of Alzheimer disease? A study on a cohort of 170 newly diagnosed patients.
DI SANTO G. (Rome, Italy).

Peripheral agraphia in Mild Cognitive Impairment and Alzheimer Disease.
RUOCCO C. (Rome, Italy).

P300 Cognitive Evoked Potentials in FTLN Patients.
GOVONE F. (Turin, Italy)

Rapidly progressive frontotemporal dementia due to the progranulin gene Arg110X mutation.
GHEZZI L. (Milan, Italy).

Profiling of Ubiquitination pathway genes in peripheral cells from C9orf72 mutation carriers with Frontotemporal Lobar Degeneration.
CIOFFI S. (Milan, Italy).

Who Knows Mini Mental?
LAGANA’ V. (Genova, Italy).

CSF biomarker analysis in the differential diagnosis of Primary Progressive Aphasia.
SANTANGELO R. (Milan, Italy).

FRIDAY 24 JANUARY
POSTER SESSION

CHAIRMEN: GALIMBERTI D. (Milan, Italy) and BARBAN F. (Rome, Italy)

Assessing brain system dysfunction in amnesic mild cognitive impairment through MRI-based connectomics.

AGOSTA F. (Milan, Italy).

Default Mode Network connectivity affects semantic memory performance in Mild Cognitive Impairment.

GARDINI S. (Parma, Italy).

Robust MRI Multimodal Investigation and Whole Brain Statistics on a cohort of patients affected by Amnesic Mild Cognitive Impairment.

FASANO F. (Parma, Italy).

Regional White Matter disruption within the Corpus Callosum in patients with Mild Cognitive Impairment Single and Multiple domain.

SPANO' B. (Rome, Italy).

Abnormal in vivo cerebral energy metabolism in Huntington's Disease.

GRAMEGNA L. (Bologna, Italy).

Synaptic plasticity in sporadic early-onset and late-onset Alzheimer's disease patients: an electrophysiological study.

DI LORENZO F. (Rome, Italy).

Is Cognitive Impairment a Predictor of Functional Outcome in Post-Stroke Patients with Autonomic Failure?

AGALLIU D. (Rome, Italy).

Continuous theta-burst repetitive stimulation to modulate brain plasticity.

MASTROPASQUA C. (Rome, Italy).

Structural, neuropsychological, and biological correlates of cognitive decline in mild cognitive impairment and Alzheimer's disease.

BONIFACIO G. (Modena, Italy).

Charles Bonnet Syndrome: a single case.

MERCURIO M. (Milan, Italy).

Apraxia of gait and magnetic apraxia: a peculiar presentation of frontal degeneration.

DA RE F. (Milan, Italy).

Different diagnosis between Alzheimer's dementia and Lewy body dementia.

MARTORANA A. (Rome, Italy).

Widespread alterations in functional brain network architecture in amnesic mild cognitive impairment.

MINATI L. (Brighton, United Kingdom).