

48TH CONGRESS
of the Italian Association
of Neuropathology and Clinical Neurobiology
AINPeNC



38TH CONGRESS
of the Italian Association
for Brain Aging Research
AIRIC

NAPLES MONASTERY OF SANT'ANDREA DELLE DAME MAY 24TH, 25TH and 26TH 2012

UNDER THE HIGH PATRONAGE OF THE PRESIDENT OF THE ITALIAN REPUBLIC



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Maya Idee s.r.l.

Via Saval 25

37124 - Verona

P.IVA/CF 03090420237

Tel. 0458305000

www.mayaidee.it

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Organizing Secretariat

Giustina Purpo

Marketing & Communication Manager

DSL COMUNICAZIONE

Via dei Mille, 40 - 80121 Napoli

T. +39 081 19574229 F. +39 081 2140998

M. +39 3335446650

giustina.purpo@dslcomunicazione.com

www.dslcomunicazione.com

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Chairmen and Speakers

- M. Aguenouz (Messina, Italy)
D. Albani (Milan, Italy)
C. Borselli (Berlin, Germany)
O. Bugiani (Milan, Italy)
A. Burlina (Bassano, Italy)
M. Caiazzo (Milan, Italy)
P. Calabresi (Perugia, Italy)
E. Capello (Genoa, Italy)
V. Carelli (Bologna, Italy)
C. Casali (Rome, Italy)
G. Cenacchi (Bologna, Italy)
A. Chambery (Caserta, Italy)
L. Colucci-D'Amato (Naples, Caserta, Italy)
R. Cotrufo (Naples, Italy)
G. Di Iorio (Naples, Italy)
U. di Porzio (Naples, Italy)
A. Ferri (Rome, Italy)
T. Florio (Genoa, Italy)
G. Forloni (Milan, Italy)
F.R. Fusco (Rome, Italy)
U. Galderisi (Naples, Italy)
D. Galimberti (Milan, Italy)
G. Giaccone (Milan, Italy)
F. Giangaspero (Rome, Italy)
B. Giometto (Padua, Treviso, Italy)
M.T. Giordana (Turin, Italy)
A. Gulino (Rome, Italy)
C. Isidoro (Novara, Italy)
G. Lus (Naples, Italy)
G. Marcon (Udine, Italy)
M. Marino (Rome, Italy)
A. Mauro (Turin, Italy)
M. Melone (Naples, Italy)
A. Minarini (Bologna, Italy)
B. Moncharmont (Campobasso, Italy)
M.R. Monsurrò (Naples, Italy)
M. Morbin (Milan, Italy)
M. Nuti (Rome, Italy)
D. Pareyson (Milan, Italy)
E. Pegoraro (Padua, Italy)
B. Pollo (Milan, Italy)
T. Pozzan (Padua, Pisa, Italy)
R. Rizzuto (Padua, Italy)
T. Revesz (London, UK)
E. Rugarli (Cologne, Germany)
C. Russo (Campobasso, Italy)
A. Schenone (Genoa, Italy)
D. Schiffer (Turin, Italy)
G. Siciliano (Pisa, Italy)
A. Simeone (Naples, Italy)
A. Simonati (Verona, Italy)
G. Sancesario (Rome, Italy)
E. Scarpini (Milan, Italy)
S. Servidei (Rome, Italy)
F. Tagliavini (Milan, Italy)
F. Taroni (Milan, Italy)
E.M. Valente (Rome, Italy)
F. Volpicelli (Naples, Italy)
M. Zeviani (Milan, Italy)

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« *La nature de notre esprit, nous porte à chercher l'essence ou le pourquoi des choses. En cela, nous visons plus loin que le but qu'il nous est donné d'atteindre, car l'expérience nous apprend bientôt que nous ne pouvons pas aller au-delà du comment, c'est-à-dire de la cause prochaine ou des conditions d'existence des phénomènes*» Introduction à l'étude de la médecine expérimentale, Claude Bernard (1865)

Dear Friends,

Welcome to the 48th Congress of the Italian Association of Neuropathology and Clinical Neurobiology, held in the famous monastery of Sant'Andrea delle Dame, one of the institutional sites of the Second University of Naples.

An important event is offered this year, because the program of the 2012 Congress - jointly built with the Italian Association for Research on Aging Brain, and the contribution of the Italian Society of Pathology- will develop through the scientific dialectics between the two faces of our Neuropathology Association, the neuropathological and the neurobiological, to witness a multidisciplinary research, probably the most challenging but certainly most authentic. But here's more! If we think of other disciplines, such as molecular biology on one hand, and cognitive science on the other, it becomes clear how new processes, new synthesis, both theoretical and methodological, have become possible bringing together different approaches to the study of Nervous System.

Thus, different disciplines, starting in early 900 from the Neuron Doctrine of Santiago Ramon y Cajal, have generated a new research field, the Neurosciences, with the common concern of conceptualization and theoretical modeling. This is the result of the *mathematization of nature*, advocated by Galileo and the development of the method of investigation. Indeed, the real problem in science is not the cause that determines a phenomenon, but the phenomenon itself and the law that governs it.

However, if the revolution in Neuroscience has clearly taken place, it did not produce all of its fruits. We are still far away. Now we have to go through, step by step, with much uncertainty and infinite care, the vast *terra incognita*, which separates the Biological Sciences, from the Science of Man and Society.

Let us hope, therefore, that meetings like this release the keys to Man's progress in its uniqueness, by stimulating exchange, communication, choosing problems and by giving and receiving feedback.

Naples, the capital of the "Enlightenment", will welcome you and will play its part.

Thank you for coming and *Buona Via*,

Marina Melone



PROGRAM - AT - A - GLANCE

TIME	Thursday, 24 May, 2012	Friday, 25 May, 2012	Saturday, 26 May, 2012
8:00—	Welcome/Registrations 8:00 - 9:00	PART I 8:30 - 10:30	Case Reports 8:00 - 8:30
8:15—			
8:30—	Skills Workshop BRAIN TUMOURS 9:00 - 11:00	Coffee break 10:30 - 11:00	Skills Workshop FROM PATHOGENESIS TO THERAPY 8:30 - 10:35
8:45—			
9:00—	Coffee break 11:00 - 11:20	PART II 11:00 - 13:00	Poster Highlights 10:40 - 11:10
9:15—			
9:30—	Lectio magistralis 11:20 - 12:00	Lunch break 13:00 - 13:45	Coffee break 11:10 - 11:30
9:45—			
10:00—	Oral Communications 12:00 - 13:00	Lunch break 13:00 - 13:45	Oral communications 11:30 - 13:30
10:15—			
10:30—	Lunch break 13:00 - 13:45	Poster Session 13:45 - 15:30	Congress Conclusion 13:30 - 13:45
10:45—			
11:00—	Poster Session 13:45 - 15:30	Lectio magistralis 15:30 - 16:10	Closing Lunch 13:45 - 14:30
11:15—			
11:30—	Oral Communications 15:30 - 16:30	Oral Communications 16:15 - 17:45	
11:45—			
12:00—	Skills Workshop NEURODEGENERATIVE DISEASES 16:30 - 18:30	Skills Workshop BIOLOGICAL MARKERS 17:45 - 18:15	
12:15—			
12:30—	Congress opening Real Conservatorio di Musica San Pietro a Majella 18:45 - 19:00	Members Meeting 19:00 - 20:00	
12:45—			
13:00—	Inaugural Lecture 19:00 - 19:40		
13:15—			
13:30—	Concert 19:40 - 20:30		
13:45—			
14:00—	Cocktail 20:30 - 21:30	Social Dinner 21:00 - 23:00	
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Thursday, May 24th 2012

08:00 - 09:00 Welcome - Registration

09:00 - 11:00 Workshop PATHOGENETIC MECHANISMS OF BRAIN TUMORS

Chairmen: F. Giangaspero (Rome, Italy), A. Mauro (Turin, Italy)

- A. Gulino (Rome, Italy) Molecular mechanisms of medulloblastoma stem cell control by the morphogen Hedgehog
- D. Schiffer (Turin, Italy) Cytogenesis and cell lines in the understanding of the origin of the two glioblastoma types
- F. Giangaspero (Rome, Italy) Molecular Pathology of pediatric gliomas
- T. Florio (Genoa, Italy) Role of chemokines in glioblastoma development: regulation of cancer stem cells survival
- B. Pollo (Milan, Italy) Diagnostic, prognostic and predictive factors in intracranial ependymomas: from histological diagnosis to molecular profiles

11:00 - 11:20 Coffee break

11:20 - 12:00 LECTIO MAGISTRALIS

T. Pozzan (Padua, Pisa, Italy) Ca²⁺ signalling alterations and neuronal degeneration: cause or consequence? introduced by B. Moncharmont (Campobasso, Italy)

12:00 - 13:00 Platform presentations

Chairmen: E. Capello (Genoa, Italy), M. Nuti (Rome, Italy)

- M. Antonelli, M. Badiali, V. Gleize, R. Morace, F. Buttarelli, H. Ohgaki, K. Mokhtari, M. Sanson and F. Giangaspero (Cagliari, Rome, Italy; Paris, Lyon, France) BRAF-KIAA1549 fusion gene and IDH mutations are independent genetic events in adult gliomas
- E. Maderna, R. Vuono, C. Calatuzzolo, R. Nunziata, L.G. Valentini and B. Pollo (Milan, Italy) Biomarkers of angiogenesis in 52 paediatric glial brain tumors
- C. Renna, R. Salaroli, C. De Maio and G. Cenacchi (Bologna, Italy) Tankyrase inhibition in Medulloblastoma cells by XAV939
- S. Romeo, A. Conti, G. De Luca and M. Aguenouz (Messina, Italy) VEGF-A isoforms in human astrocytomas with different grade of malignancy
- F. Pezzini, M. Bianchi, R. Carrozzo, F.M. Santorelli and A. Simonati (Verona, Rome, Pisa, Italy) Differentiation of neuroblastoma cells: putative in vitro models to investigate childhood neurodegeneration

13:00 - 13:45 Lunch break



13:45 - 15:30 Poster Session

Chairmen: M. Aguenouz (Messina, Italy), A. Simonati (Verona, Italy), D. Albani (Milan, Italy), M. Morbin (Milan, Italy), T. Florio (Genoa, Italy), L. Colucci - D'Amato (Naples, Caserta, Italy)

15:30 - 16:30 Platform presentations

Chairmen: F.R. Fusco (Rome, Italy), G. Marcon (Udine, Italy)

- F. Cesca, P. Santi, G. Dubsy de Wittenau, N. Passon, F. Curcio and R. Lonigro (Udine, Italy) Changes in the expression of calcium pumps in a rat embryonic striatum cellular model of Huntington's disease
- D. Ghezzi, M.E. Steenweg, T. Haack, L. Melchionda, D. Martinelli, E. Bertini, H. Prokisch, M.S. van der Knaap and M. Zeviani (Milan, Rome, Italy; Amsterdam, Netherlands; Neuherberg, Germany) Leukoencephalopathy with thalamus and brainstem involvement and high lactate caused by EARS2 mutation
- M.L. Moro, A. Uggetti, R. Lombardi, A. Indaco, O. Bugiani, N. Bogdanovic, A. Demarchi, B. Ghetti, G. Marcon, F. Tagliavini and G. Giaccone (Milan, Turin, Udine, Italy; Stockholm, Sweden; Indianapolis, USA) Aβ38 is abundant in the brain of patients with APP mutations inside the Aβ region and mainly builds up in vascular amyloid deposits
- L. Polito, A. Davin, R. Cazzaniga, V. Lionello, G. Forloni e A. Guaita (Milan, Italy) Hypercholesterolemia is an important risk factor for mild cognitive impairment in APOE-ε4 carriers
- T. Squillaro, N. Alessio, M. Cipollaro, M.A.B. Melone, A. Renieri, A. Giordano e U. Galderisi (Philadelphia, USA; Naples, Siena, Spoleto, Sassari, Italy) In vitro studies suggest reduced expression of methyl cytosine protein binding 2 (MECP2) affects cell commitment and maintenance in neurons by triggering senescence, new perspective for Rett syndrome

16:30 - 18:45 Workshop NEURODEGENERATIVE DISEASES

Chairmen: M. Melone (Naples, Italy), L. Colucci-D'Amato (Naples, Caserta, Italy)

- F. Tagliavini (Milan, Italy) Phenotypic heterogeneity of Alzheimer's disease: towards the identification of molecular determinants underlying distinct clinico - pathological subgroups
- C. Russo (Campobasso, Italy) The complex network of interactions around Amyloid Precursor Protein: possible role in neurodegeneration
- P. Calabresi (Perugia, Italy) Mechanisms of synaptic plasticity and neurodegeneration in Parkinson's Disease
- A. Simeone (Naples, Italy) Otx2 controls neuron subtype identity in ventral tegmental area (VTA) and antagonizes vulnerability to Parkinsonian toxin MPTP
- C. Isidoro (Novara, Italy) Autophagy in neurodegeneration: too much or too low?



18:45 - 19:00 Conference opening at Royal Conservatory of Music San Pietro a Majella ◉ ◻

19:00 - 19:40 OPENING LECTURE

- **R. Cotrufo (Naples)** Il mio viaggio alla ricerca dell'eutopia: ricordi e riflessioni, introduced by U.di Porzio (Naples, Italy)

19:40 - 20:30 Concert ◉ ◻

20:30 - 21:30 Cocktail

Friday, May 25th 2012

TrainingCourse:

MITOCHONDRIA AND NEURODEGENERATION: NOVEL PATHOGENETIC MECHANISMS

8:30 - 10:30 Part I

Chairmen: **C. Casali (Rome, Italy)**, **M. Zeviani (Milan, Italy)**

- **R. Rizzuto (Padua, Italy)** Mitochondria, calcium and cell death
- **V. Carelli (Bologna, Italy)** The Eye: a "mito-window" to the brain
- **E.M. Valente (Rome, Italy)** Pathways of mitochondrial dysfunction in Parkinson's disease
- **F. Taroni (Milan, Italy)** Mitochondrial maintenance and spinocerebellar degeneration

10:30 - 11:00 Coffee break

11:00 - 13:00 Part II

Chairmen: **G. Di Iorio (Naples, Italy)**, **E. Pegoraro (Padua, Italy)**

- **S. Servidei (Rome, Italy)** Central Nervous System (CNS) involvement in Mitochondrial Encephalomyopathies
- **E. Rugarli (Cologne, Germany)** Mitochondrial dysfunction in hereditary spastic paraplegias
- **A. Ferri (Rome, Italy)** The role of mitochondria in the pathogenesis of Amyotrophic Lateral Sclerosis
- **D. Pareyson (Milan, Italy)** Peripheral neuropathy as dominant or unique presentation of mitochondrial disorder

13:00 - 13:45 Lunch break



13:45 - 15:30 Poster Session

Chairmen: M.R. Monsurrò (Naples, Italy), C. Russo (Campobasso, Italy), G. Siciliano (Pisa, Italy), A. Minarini (Bologna, Italy), U. Galderisi (Naples), A. Schenone (Genoa, Italy)

15:30 - 16:15 LECTIO MAGISTRALIS

- T. Revesz (London) Frontotemporal lobar degenerations: new molecules, new ideas introduced by O. Bugiani (Milan, Italy)

16:15 - 17:50 Platform presentations

Chairmen: G. Giaccone (Milan, Italy), G. Lus (Naples, Italy)

- D. Albani, E. Ateri, A. Ghilardi, O. Bernocchi, M. Gallucci, S. Mazzuco, F. Ongaro, G. Gajo, E. Durante, L. Caberlotto, A. Zanardo, M. Siculi, M. Tettamanti, U. Lucca and G. Forloni (Milan, Treviso, Padua, Italy) Role of SIRT3 in human longevity
- G. Biella, D. Albani, R. Ghidoni, L. Benussi, M. Glionna, A. Bellucci and G. Forloni (Milan, Brescia, Italy) Loss of Progranulin (PGRN) and exosomal pathogenetic proteins trafficking
- M. Bongiani, A. Gajofatto, G. Zanusso, M. Fiorini, M.D. Benedetti e S. Monaco (Verona, Italy) Relevance of a panel of cerebrospinal fluid biomarkers in patients with a clinically isolated syndrome suggestive of Multiple Sclerosis
- L. Chico, A. Lo Gerfo, M. Mancuso, A. Rocchi, L. Petrozzi, F. Colosimo, E. Caldarazzo Ienco, C. Carlesi, D. Orsucci, C. Simoncini and G. Siciliano (Pisa, Italy) Evaluation of oxidative stress markers in relation to physical exercise in Amyotrophic Lateral Sclerosis patients
- R. Ghidoni, V. Albertini, A. Paterlini, M. Glionna, G. Binetti e L. Benussi (Brescia, Italy) Human CSF amyloid-beta peptides exosomal compartmentalization in Alzheimer's disease
- A. Martorana, G.M. Sancesario, Z. Esposito, M. Nuccetelli, R. Sorge, A. Formosa, V. Dinallo, G. Bernardi, S. Bernardini and G. Sancesario (Rome, Italy) Plasmin system of Alzheimer's disease patients: CSF analysis
- Pellerino, A. Lomartire, A. Naldi, B. Buccinnà, E. Maffeo, C. Ramondetti, E. Lupino, M.T. Rinaudo, M. Piccinini, G. De Marco and M.T. Giordana (Turin, Italy) Biomarker for Frontotemporal Lobar Degeneration (FTLD) with TDP pathology: the circulating lymphocytes
- E. Ridolfi, C. Fenoglio, M. Serpente, C. Cantoni, M. De Riz, A. Pietroboni, C. Villa, R. Bonsi, L. Piccio, N. Bresolin, D. Galimberti and E. Scarpini (Milan, Italy; St. Louis, USA) Cell free microRNA and Multiple Sclerosis: possible promising biomarkers?



17:50 - 19:20 Workshop BIOMARKERS AND NEUROPATHOLOGIC PROCESSES

Chairmen: G. Sancesario (Rome, Italy), G. Forloni (Milan, Italy)

- D. Galimberti (Milan, Italy) Biomarkers for Alzheimer's disease and related dementias
- A. Burlina (Bassano, Italy) Biomarkers for neurometabolic hereditary diseases
- A. Chambery (Caserta, Italy) Neuroproteomics for studying neural differentiation and function
- B. Giometto (Padua/Treviso, Italy) Markers of autoimmunity in Autoimmune Encephalitis

19:20 - 20:15 AINP&NC Members Meeting

21:00 - 23:00 Cultural/convivial event at Santa Chiara Convent, Cloister and Museum ◉ ◻

Saturday, May 26th 2012

08:00 - 08:30 Case Reports

Chairmen: G. Cenacchi (Bologna, Italy), M. Melone (Naples, Italy)

- G. Giaccone, O. Bugiani, P. Ferrero, L. Orsi and F. Tagliavini (Milan, Turin, Italy) A case of Multiple Sclerosis with pure, massive superficial demyelination
- M. Morbin, K.R. Smith, J. Damiano, S. Franceschetti, D. Pareyson, D. Rossi, S. Carpenter, L. Canafoglia, S.E. Mole, J.F. Staropoli, K.B. Sims, J. Lewis, W.L. Lin, D.W. Dickson, H.H. Dahl, M. Bahlo and S.F. Berkovic (Milan, Italy; Melbourne, Australia; Porto, Portugal; Boston, Gainesville, Jacksonville, USA; London, UK) Adult onset recessive Neuronal Ceroid Lipofuscinosis (NLCs) linked to progranulin mutations
- G. Ricci, C. Simoncini, C. Passino, R. Fazzi, A. Servadio, G. Dell'Osso, S. Giannotti and G. Siciliano (Pisa, Italy) The diagnostic challenge of the amyloid myopathy: a case report
- C. Ruffmann, M. Zini, S. Goldwurm, M. Bramerio, S. Spinello, M. Gambacorta, F. Tagliavini, G. Pezzoli and G. Giaccone (Milan, Italy) Lewy body pathology and typical Parkinson disease in a patient with a (R275W) heterozygous PARK2 mutation
- E. Storti, C. Fiorillo, C. Nesti, A. Tessa, D. Cassandrini, A. Pierallini, F.M. Santorelli and C. Casali (Pisa, Rome, Latin, Italy) Mutation in the ferritin light chain gene in an Italian patient: clinical report and pathogenetic insight
- S. Testi, S. Peluso, G.M. Fabrizi, A. Paduani and A. Filla (Verona, Naples, Brescia, Italy) A novel PSEN1 mutation in a patient with early-onset Alzheimer's Disease and prominent cerebellar ataxia



08:30 - 10:40 Workshop FROM PATHOGENESIS TOWARD THERAPY

Chairmen: **M. Marino (Rome, Italy), M.T. Giordana (Turin, Italy)**

- **A. Minarini (Bologna, Italy)** New multi-target-directed ligands as potential therapeutic agents for Alzheimer's disease
- **M. Nuti (Rome, Italy)** A vaccine for glioma: the role of dendritic cells
- **C. Borselli (Berlin, Italy)** Multifunctional delivery scaffolds for functional skeletal muscle regeneration
- **M. Caiazzo (Milan, Italy)** Alternative sources of dopaminergic neurons for cell replacement therapy in Parkinson's disease
- **F. Volpicelli and L. Colucci D'Amato (Naples, Caserta Italy)** Estrogen-dependent molecular mechanism(s) of neuronal survival

10:40 - 11:10 Poster Highlights

Chairmen: **G. Giaccone (Milan, Italy), C. Isidoro (Novara, Italy)**

11:10 - 11:30 Coffee break

11:30 - 13:30 Platform presentations

Chairmen: **F. Tagliavini (Milan, Italy), E. Scarpini (Milan, Italy)**

- **L. Annovazzi, V. Caldera, M. Mellai, M. Lanotte, G. Valente and D. Schiffer (Vercelli, Turin, Novara, Italy)** DNA repair and cell death after antitumor drugs in glioblastoma cell lines
- **C. Balducci, M. Messa, M. Salmona and G. Forloni (Milan, Italy)** Doxycycline reverts oligomer-mediated memory impairment in mouse models of Alzheimer's disease
- **M.G. De Pasquale, S. Messina, G.L. Vita, S. Romeo, A. Ciranni, C. Lo Giudice, M. Aguenouz and G. Vita (Messina, Italy)** Regulation of SIRT1 in Duchenne Muscular Dystrophy by miRNA-34a
- **M. Fiocchetti, E. De Marinis, M. Pellegrini, P. Ascenzi and M. Marino (Rome, Italy)** Neuroglobin: a new protein involved in estrogen protective effects in neuronal cells
- **E. Montagna, C. Giampà, A. Leuti, G. Bernardi and F.R. Fusco (Rome, Italy)** Changes in the hippocampus of the R6/2 mouse model of Huntington's disease
- **A. Pappalardo, C. Fiorillo, J. Baldacci, A. Donati, L. Pitto, F. Cremisi, C. Bruno and F.M. Santorelli (Pisa, Florence, Genoa, Italy)** Modeling Alpha - Dystroglycanopathies in Zebrafish
- **O. Petillo, A. Calarco, A. Di Salle, M. D'Apolito, S. Margarucci, S. Mucerino, U. Galderisi, M.A.B. Melone and G. Peluso (Naples, Italy)** Efficient in vitro delivery of cationic nanoparticles loading siRNA targeting mutant huntingtin
- **V. Provitera, M. Nolano, G. Caporaso, A. Stancanelli, B. Lanzillo, R. Iodice and L. Santoro [Telese Terme (BN), Naples, Italy]** Postganglionic autonomic involvement in Multiple System Atrophy: a quantitative study of sudomotor innervations

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- **A. A. Puca, A. Ferrario, F. Villa and A. Malovini (Salerno, Milan, Pavia, Italy)**
BPIFB4 missense variants associate with exceptional longevity in independent populations and influence cell signaling
- **L. Vigna, A. Uggetti, L. Pradotto, S. Gravaglia, G. Walker, M. Rizzi, M. Morbin and A. Mauro [Piancavallo, (Verbania), Italy]** From conformational alteration to amyloidogenicity of three transthyretin (TTR) mutants

13:30 - 14:15 Conference conclusions

14:15 - 15:30 Farewell Luncheon

© Extra ECM Session

▣ The Event was officially proclaimed part of “Naples May of Monuments” XVIII Edition, Naples 2012



Thursday, May 24th 2012

13:45 - 15:30 Poster Session

Chairmen: M. Aguenouz (Messina, Italy), A. Simonati (Verona, Italy), D. Albiani (Milan, Italy), M. Morbin (Milan, Italy), T. Florio (Genoa, Italy), L. Colucci - D'Amato (Naples, Caserta, Italy)

Poster session A1-9

Chairmen: D. Albiani (Milan, Italy), M. Morbin (Milan, Italy)

- A1. L. Benussi, G. Rossi, M. Glionna, A. Paterlini, V. Albertini, D. Albiani, G. Forloni, F. Tagliavini, G. Binetti and R. Ghidoni (Brescia, Milan, Italy) Genetic testing in Frontotemporal Lobar Degeneration: the role of C9ORF72 repeat expansion in Northern Italy
- A2. M. Cagnin, M. Ozzano, N. Bellio, I. Fiorentino, C. Follo and C. Isidoro (Novara, Italy) Dopamine induces apoptosis in human APP-expressing Neuro2A cells following proteolysis of APP in endosomal compartments
- A3. F. Cocco, D. Passarella, M. Nizzari, F. Barbieri, M. T. Gentile, V. Caorsi, A. Diaspro, M. Tagliatela, A. Pagano, L. Colucci-D'Amato, T. Florio and C. Russo (Campobasso, Genoa, Caserta, Naples, Italy) ABPP (and its processing) regulate an intracellular signal pathway with a fast kinetic response and Tau phosphorylation
- A4. C. Cupidi, L. Bernardi, A. Clodomiro, R. Colao, G. Puccio, F. Frangipane, M.E. Conidi, M. Anfossi, M. Gallo, S.A.M. Curcio, M. Mirabelli, N. Smirne, R. Di Lorenzo, R. Maletta, S.G. Lio, P.St. George-Hyslop, E. Rogaeva and A.C. Bruni (Lamezia Terme, Italy; Toronto, Ontario) Phenotypical and neuropathological features in a family with frontotemporal dementia with the C9ORF72 hexanucleotide repeat expansion
- A5. M.R. Monsurrò, F. Trojsi, A. Sagnelli, G. Piccirillo, L. Daniele, F. Izzo, A. Laiola, F.L. Conforti, A. Chiò and G. Tedeschi [Naples, Mangone (CS), Turin, Italy] C9ORF72 hexanucleotide repeat expansions in ten patients with Amyotrophic Lateral Sclerosis (ALS) from Campania: analysis of genotype-phenotype interaction
- A6. M. Nolano, V. Provitera, F. Manganelli, R. Iodice, A. Stancanelli, G. Caporaso, G. Mora and L. Santoro [Telese Terme (BN), Naples, Milan, Italy] Cutaneous sensory and autonomic denervation in Amyotrophic Lateral Sclerosis (ALS)
- A7. D. Passarella, F. Cocco, M. Nizzari, F. Barbieri, M. T. Gentile, V. Caorsi, A. Diaspro, M. Tagliatela, A. Pagano, L. Colucci-D'Amato, T. Florio and C. Russo (Campobasso, Genoa, Caserta, Naples, Italy) ABPP and gamma secretase modulate Tau phosphorylation and cell cycle
- A8. G. Puoti, WQ. Zou, I. Cali, C. Coppola, M. Nigro and P. Gambetti (Naples, Italy; Cleveland, OH, USA) Variable Protease-Sensitive Prionopathy and Gerstmann - Sträussler-Scheinker disease share many major clinico-pathological and biomolecular features



- A9. S. Testi, G.M. Fabrizi, S. Pompanin and A. Cagnin (Verona, Padua, Venice, Italy)**
Autosomal dominant Alzheimer's disease with early frontal lobe involvement associated with the Met239Ile mutation of Presenilin 2 gene

Poster session B10-19

Chairmen: T. Florio (Genoa, Italy), L. Colucci-D'Amato (Naples, Caserta, Italy)

- B10. R. Carbone, M.F. de Leva, C. Criscuolo, A. Guacci, M. Lieto, G. De Michele and A. Filla (Naples, Italy)** Screening for SACS gene causing ARSACS disease in Southern Italy
- B11. C. Casali, F. Piccolo, C. Marcotulli, F. Santorelli, A. Tessa, R. Di Fabio, M.G. D'Angelo, M. Serrao, F. Pierelli and M.A.B. Melone (Latin, Pisa, Bosisio Parini (LC), Naples, Italy)** Infantile-onset Hereditary Spastic Paraplegia associated with SPAST mutations (SPG4): clinical and follow-up studies
- B12. S. Cattaldo, G. Albani, L. Pradotto, M. Moran and A. Mauro [Piancavallo (VB), Italy]** High individual variability of levodopa pharmacokinetics in Parkinson's disease
- B13. F.R. Fusco, A. Leuti, D. Laurenti, C. Giampà, E. Montagna, G. Bernardi and M.A.B. Melone (Rome, Naples, Italy)** Nuclear localization of Phosphodiesterase 10A in the R6/2 mouse striatal interneurons
- B14. A. Guacci, C. Criscuolo, M.F. de Leva, R. Carbone, M. Lieto, G. De Michele and A. Filla (Naples, Italy)** Screening for ABHD12 gene causing PHARC disease in Southern Italy
- B15. S. Magri, V. Fracasso, M. Plumari, P. Rusmini, C. Gellera, C. Pantaleoni, S. De Biasi, A. Poletti, M. Muzi-Falconi, D. DiBella and F. Taroni (Milan, Italy)** Concurrent mutations in AFG3L2 and paraplegin in patients with spinocerebellar degeneration
- B16. A. Palmieri, V. D'Argenio, G. Guerri, A. De Rosa, C. Canero, A. Daniele and F. Salvatore (Naples, Italy)** Molecular analysis of PAH gene in Italian patients affected by Phenylketonuria by DNA high throughput sequencing
- B17. C. Panteghini, G. Zorzi, P. Venco, S. Dusi, C. Reale, D. Brunetti, L. Chiapparini, F. Zibordi, B. Garavaglia, A. Simonati, E. Bertini, N. Nardocci and V. Tiranti (Milan, Verona, Rome, Italy)** Mutations of FA2H and C19orf12 are rare in Italian patients affected by Neurodegeneration with Brain Iron Accumulation
- B18. G. Querin, C. D'Ascenzo, L. Morandi, L. Mazzini, V. Silani, A. Gaiani, S. Romito, P. Melacini, E. Pegoraro and G. Soraru (Milan, Novara, Padua, Verona, Italy)** No heart involvement in SBMA patients
- B19. A. Simonati, F. Pezzini, F. Gismondi, F. Moro, A. Salviati, S. Berkovic, D. Orrico and F.M. Santorelli (Verona, Pisa, Trento, Italy; Victoria, Australia)** Ultrastructural pathology and molecular findings in 5 patients with Adult Neuronal Ceroid lipofuscinosis



Poster session C19-27

Chairmen: **M. Aguenouz (Messina, Italy), A. Simonati (Verona, Italy)**

- C19. M. Cavallari, B. Casolla, S. Romeno and F. Orzi (Rome, Italy)** Fractal analysis of retinal vessels in CADASIL and white-matter-lesion subjects
- C20. M. Gatti, R. Wurth, A. Pattarozzi, A. Bajetto, F. Barbieri and T. Florio (Genoa, Italy)** Expression of the chemokine receptors CXCR4/CXCR7 and their ligands in human meningioma: localization and potential role in tumor microvasculature
- C21. D. Giordano, R. Russo, S. Dewilde, D. Estrin, G. di Prisco, C. Viappiani and C. Verde (Naples, Parma, Italy; Wilrijk, Belgium; Buenos Aires, Argentina)** A novel globin discovered in the brain: its evolutionary and physiological significance
- C22. A. Harmouch, S. Sefiani and M. Maher (Rabat, Morocco)** Epidemiology of pediatric primary tumors of the Nervous System: A retrospective study of 633 cases from a single Moroccan institution
- C23. S. Massone, I. Vassallo, M. Castelnuovo, G. Fiorino, E. Gatta, M. Robello, R. Borghi, M. Tabaton, C. Russo, G. Dieci, R. Cancedda and A. Pagano (Genoa, Parma, Campobasso, Italy)** RNA polymerase III drives alternative splicing of the Potassium Channel Interacting Protein contributing to brain complexity and neurodegeneration
- C24. A. Paladini, M. Filibian, E. Micotti, C. Balducci, S. Dix, M. O'Neill, L. Ozmen, C. Czech, J.C. Richardson and G. Forloni (Milan, Italy; Surrey, Stevenage, Herts UK; Basel, CH)** Longitudinal Magnetic Resonance spectroscopy analysis in different transgenic mouse models of Alzheimer's disease
- C25. G. Peluso, U. Galderisi, G. Di Bernardo, A. Calarco, M. D'Apolito, O. Petillo, M. Cipollaro and M.A.B. Melone (Naples, Italy; Philadelphia, Pennsylvania, USA)** Effects of controlled delivery of FGF-2 on neural stem cell cultivation
- C26. L. Pradotto, S. Calderoni, M. Mencarelli, S. Maestrini, A. Milesi, A.M. Di Blasio and A. Mauro [Piancavallo (VB), Turin, Italy]** Adult human fibroblasts express Notch3
- C27. R. Vuono, E. Maderna, M. Patanè, C. Calatozzolo, R. Nunziata, F.C. Cacciatore, L.G. Valentini and B. Pollo (Milan, Italy)** Prognostic markers related to angiogenesis on paediatric ependymomas and medulloblastomas: study of 61 cases



Friday, May 25th 2012

13:45 - 15:30 Poster Session

Chairmen: M.R. Monsurrò (Naples, Italy), C. Russo (Campobasso, Italy), G. Siciliano (Pisa, Italy), A. Minarini (Bologna, Italy), U. Galderisi (Naples, Italy), A. Schenone (Genoa, Italy)

Poster session D1-9

Chairmen: M.R. Monsurrò (Naples, Italy), C. Russo (Campobasso, Italy)

- D1. G. Biella, F. Martinelli Boneschi, G. Magnani, M. Franceschi, D. Galimberti, E. Scarpini, R. Ghidoni, L. Benussi, R. Squitti, A. Confaloni, F. Clerici, C. Mariani, G. Forloni and D. Albani (Milan, Varese, Brescia, Rome, Italy) CYP2D6 polymorphism rs1080985 as pharmacogenetic marker in Alzheimer's disease patients treated with donepezil
- D2. R. Bonsi, M. Serpente, C. Fenoglio, C. Villa, C. Cantoni, E. Ridolfi, F. Clerici, R. Ghidoni, L. Benussi, A. Marcone, M. Franceschi, S. Gallone, S. Cappa, G. Binetti, I. Rainer, C. Mariani, N. Bresolin, E. Scarpini and D. Galimberti (Brescia, Milan, Turin, Italy) TMEM106B genetic variability in patients with Alzheimer's disease
- D3. C. Fenoglio, M. Serpente, R. Bonsi, R. Del Bo, A.C. Bruni, R. Maletta, B. Nacmias, S. Sorbi, A. Marcone, S. Cappa, G. Magnani, M. Filippi, F. Agosta, G. Comi, M. Franceschi, I. Rainero, A. Confaloni, P. Piscopo, G. Bruno, A. Cagnin, F. Clerici, C. Mariani, G.P. Comi, N. Bresolin, E. Scarpini and D. Galimberti [Milan, Lamezia Terme (CZ), Florence, Turin, Rome, Padua, Italy] Frequency of the chromosome 9 hexanucleotide repeats in Italian patients with Frontotemporal Lobar Degeneration
- D4. M. Fiorini, G. Zanusso, A. Gajofatto, M. Bongianini and S. Monaco (Verona, Italy) Physicochemical properties of AB peptides in cerebrospinal fluid of Alzheimer's disease patients
- D5. M. Marizzoni, E. Micotti, M. Lorenzi, A. Paladini, A. Caroli, C. Balducci, S. Dix, M. O'Neill, C. Czech, L. Ozmen, J. C. Richardson, G. Forloni and G. Frisoni (Milan, Brescia, Bergamo, Italy; Surrey, Stevenage, Herts, UK; Basel, CH) Diffusion indexes variations in different transgenic models of Alzheimer's disease detected with diffusion tensor imaging
- D6. A. Martorana, Z. Esposito, F. Di Lorenzo, V. Giacobbe, G. Bucchi, S. Bonni, C. Caltagirone and G. Koch (Rome, Italy) Cerebrospinal fluid levels of A β -42 relationship with cholinergic cortical activity in Alzheimer's disease patients
- D7. E. Micotti, A. Paladini, M. Marizzoni, A. Caroli, C. Balducci, S. Dix, M. O'Neill, L. Ozmen, C. Czech, J. C. Richardson, G. Frisoni and G. Forloni (Milan, Brescia, Bergamo, Italy; Surrey e Stevenage, Herts UK; Basel, CH) Cerebral structural changes in different transgenic models of Alzheimer's disease with Magnetic Resonance Imaging



- D8. E. Picillo, L. Manente, A. De Luca and L. Politano (Naples, Italy)** Dysferlin expression in peripheral blood mononuclear cells (PBMC) correlates with that in skeletal muscles and supports the diagnosis of LGMD2B
- D9. G. Piscosquito, E. Salsano, F. Prada, V. Scaioli, L. Chiapparini, M. Savoiaro, G. Lauria, C. Marchesi, N. Milani and D. Pareyson (Milan, Italy)** Hirayama disease: effect of neck flexion on somatosensory evoked potentials and Magnetic Resonance Imaging

Poster session E 10-18

- Chairmen: **A. Minarini (Bologna, Italy), A. Schenone (Genoa, Italy)**
- E10. E. Biasibetti, V. Zunino, G. Meineri, P. Bianco, P.R. Dell'Armeline Rocha, L. Tomassone, O. Paciello and M.T. Capucchio (Turin, Naples, Italy)** Aging lesions in bovine muscles: a comparative study with human sarcopenia
- E11. C. Caldarazzo Ienco, L. Petrozzi, D. Orsucci, G. Ricci, C. Simoncini, A. Servadio, G. Dell'Osso, A. LoGerfo, M. Mancuso and G. Siciliano (Pisa, Italy)** The possible correlation between blood lactate during ischemic exercise test, pathological and biochemical muscle findings in patients with suspected mitochondrial myopathy
- E12. E. Capello, S. Fabbri, B. Piras, E. Fiorina, G. Ursino, C. Borzone, L. Benedetti, L. Reni, G.L. Mancardi and A. Schenone (Genoa, Italy)** Cerebrospinal fluid findings in patients with chronic inflammatory demyelinating polyradiculoneuropathies (CIDP) with and without diabetes
- E13. F. Castello, E. Borgione, M. Lo Giudice, S. A. Musumeci, M. Savio, F. Di Blasi, G.A. Vitello, G. Barbarino and C. Scuderi (Troina, Italy)** Muscle biopsy in diagnostic approach of subjects with POLG1 mutations
- E14. M.L. Monaco, E. Nigro, G. Cacciapuoti, O. Scudiero, L. Di Lorenzo and A. Daniele (Naples, Italy)** Decreased concentration of total Adiponectin, its HMW oligomers and mannose binding lectin in patients affected by Myotonic Dystrophy type 1
- E15. E. Prina, M. Tunesi, F. Daniele, A. Cigada, C. Giordano and D. Albani (Milan, Legnano)** Carbomer-based hydrogels as resveratrol delivery systems
- E16. S. Ravera, M. Bartolucci, E. Capello, G.L. Mancardi, I. Panfoli and A. Morelli (Genoa, Italy)** Ectopic ATP production in myelin sheath: correlation between demyelination and axonal degeneration in Multiple Sclerosis
- E17. S. Sefiani, A. Harmouch, S. Bellarbi, M. Maher, R. Ouazzani and N. Birouk (Rabat, Morocco)** Muscular dystrophy: Histological and immunohistochemical study - About 226 cases
- E18. M. Tunesi, S. Batelli, S. Rodilossi, T. Congiu, C. Giordano and D. Albani (Milan, Varese, Italy; Munich, Germany)** Biocompatibility of a novel collagen/poly(ethylene glycol)-based hydrogel for protein delivery



Poster session F18-26

Chairmen: G. Siciliano (Pisa, Italy), U. Galderisi (Naples, Italy)

- F18.** M. Gallucci, R. Flores-Obando, S. Mazzuco, A. Zanardo, G. L. Forloni, D. Albani and E. Taioli (Milan, Padua, Treviso, Italy; Brooklyn, NY, USA) Melatonin, aging and chronic degenerative diseases. The Treviso longeva (Trelong) Study
- F19.** M.T. Gentile, C. Ciniglia, M.G. Reccia, R. Camerlingo, M.A.B. Melone and L. Colucci-D'Amato (Naples, Caserta, Italy) Ruta g. Aqueous extract inhibits proliferation of undifferentiated neural cells and induces differentiated neurons re-entry in cell cycle
- F20.** C. Giampà, A. Leuti, E. Montagna, G. Bernardi and F.R. Fusco (Rome, Italy) Beneficial effects of peripherally administered brain derived neurotrophic factor (BDNF) in the R6/2 mouse model of Huntington's disease
- F21.** A. Leuti, D. Laurenti, C. Giampà, E. Montagna, G. Bernardi and F.R. Fusco (Rome, Italy) Phosphodiesterase 10A localization in the R6/2 mouse model of Huntington's disease
- F22.** E. Nigro, O. Scudiero, M.L. Monaco, B. Messere, M.T. Carbone, A. Correra and A. Daniele (Naples, Italy) A Case of Maternal Phenylketonuria: molecular analysis of neutral amino acid transporter 1 gene
- F23.** L. Polito, A. Davin, R. Vaccaro, S. Abbondanza, E. Valle, G. Forloni and A. Guaita (Milan, Italy) Cognitive stimulation and ApoE genotype in non-demented elderly subjects: a randomized controlled study (RCT)
- F24.** C. Porcile, E. Di Zazzo, M. L. Monaco, G. D'Angelo, D. Passarella, C. Russo, A. Di Costanzo, A. Pattarozzi, M. Gatti, A. Bajetto, G. Oriani, A. Daniele and T. Florio (Campobasso, Naples, Genoa, Caserta, Italy) Adiponectin reduces cell proliferation in glioblastoma cells through a prolonged activation of mapk erk1/2
- F25.** S. Rodilossi, E. Ateri, G. Forloni and D. Albani (Milan, Italy) Sirtuins modulation and neurodegeneration
- F26.** R. Wurth, A. Pattarozzi, M. Gatti, A. Bajetto, T. Florio and F. Barbieri (Genoa, Italy) Metformin selectively inhibits the proliferative potential of tumor - initiating cells derived from human glioblastoma



Official languages of the Congress: Italian, English

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