

# 1. MECHANISMS OF NEURODEGENERATION

## A. Macromolecular interactions and Neurodegeneration

1. Public health. Therapeutic strategies for the prevention and treatment of neurodegenerative disease. Molecular basis of amyloid aggregation	Pier Luigi San Biagio <a href="mailto:pierluigi.sanbiagio@pa.ibf.cnr.it">pierluigi.sanbiagio@pa.ibf.cnr.it</a>
2. Protein conformational transitions that trigger the aggregation processes associated to neurodegenerative diseases : a nanotechnological approach	Bruno Samorì <a href="mailto:bruno.samori@unibo.it">bruno.samori@unibo.it</a>
3. Myelin proteins and demyelinating diseases	Eugenia Polverini <a href="mailto:eugenia.polverini@unipr.it">eugenia.polverini@unipr.it</a>
4. Conformational transitions of proteins from native to amyloid form	Roberto de Renzi <a href="mailto:mariagrazia.bridelli@unipr.it">mariagrazia.bridelli@unipr.it</a>
5. Role of altered composition of plasma membrane complex lipids in lipid-protein interactions, membrane organization and neurodegeneration	Sandro Sonnino <a href="mailto:Sandro.sonnino@unimi.it">Sandro.sonnino@unimi.it</a>
6.	Angelo Poletti <a href="mailto:Angelo.poletti@unimi.it">Angelo.poletti@unimi.it</a>
7. Optical and biomolecular methods for the functional investigation of neural circuits in vivo	Antonio Malgaroli <a href="mailto:Antonio.malgaroli@hsr.it">Antonio.malgaroli@hsr.it</a> Gian Giacomo Consalez <a href="mailto:Giacomo.consalez@hsr.it">Giacomo.consalez@hsr.it</a>
8. Molecular mechanisms in neurotransmission: effects in neuron and glia phenotypes in synaptic efficiency and synapopathy	Flavia Valtorta <a href="mailto:Valtorta.flavia@hsr.it">Valtorta.flavia@hsr.it</a>
9. Presynaptic molecular machinery regulation of glutamate release as a pathophysiological mechanism in amyotrophic lateral sclerosis	Maurizio Popoli <a href="mailto:Maurizio.popoli@unimi.it">Maurizio.popoli@unimi.it</a>
10. Toward exploiting the screening potential of miRNomes for the identification of genes and pathways involved in neurodegenerative disorders	Daniela Tardito <a href="mailto:Daniela.tardito@unimi.it">Daniela.tardito@unimi.it</a>
11. Stress, neuroplasticity and susceptibility to neurodegenerative and psychiatric disorders.	Marco Andrea Riva <a href="mailto:M.riva@unimi.it">M.riva@unimi.it</a>
12. Interaction of Aβ and α-synuclein with the cytoskeleton	Fabio Benfenati – Evelina Chieragatti Giuseppe Ronzitti – Anako Tsushima <a href="mailto:Fabio.benfenati@iit.it">Fabio.benfenati@iit.it</a>
13. Mechanisms of neurodegeneration and enhancement of adult neurogenesis to improve cognitive functions in Down syndrome	Fabio Benfenati – Andrea Contestabile – Diego Ghezzi – Laura Gasparini <a href="mailto:Fabio.benfenati@iit.it">Fabio.benfenati@iit.it</a>
14.	Luigia Trabace – Tucci- Colaianni- Morgese-Zotti <a href="mailto:trabace@unifg.it">trabace@unifg.it</a>
15.	Salmona Mario - Forloni <a href="mailto:Mario.salmona@marionegri.it">Mario.salmona@marionegri.it</a>
<b>B. Neurotoxic stimuli</b>	
1. CSF Glycomics in AD and other neurodegenerative	Domenico Garozzo

disease	<a href="mailto:domenico.garozzo@cnr.it">domenico.garozzo@cnr.it</a>
2. Intracellular signalling during neurodegenerative events friggere upon APP overexpression	Maurizio Tagliatalata <a href="mailto:m.tagliatalata@unimol.it">m.tagliatalata@unimol.it</a>
3. Effect of Age and neurodegenerative disorders in central neurotransmission: focus on neurotransmitter release from neuron and glia	Mario Marchi <a href="mailto:marchi@pharmatox.unige.it">marchi@pharmatox.unige.it</a>
4. Glutamate release and excitotoxicity as targets for new neuroprotective strategies in animal models of amyotrophic lateral sclerosis	Bonanno Gianbattista <a href="mailto:bonanno@pharmatox.unige.it">bonanno@pharmatox.unige.it</a>
5. Novel cytotoxic pathways in Alzheimer's disease	Bruno Bonetti <a href="mailto:Bruno.bonetti@univr.it">Bruno.bonetti@univr.it</a>
6. Basic Research: developing competitive in " <i>vitro</i> " and " <i>vivo</i> " models to study Alzheimer's disease	Francesca Ruberti <a href="mailto:f.ruberti@inmm.cnr.it">f.ruberti@inmm.cnr.it</a>
7. Evaluation of mesenchymal stem cells (MSCs) effect in Alzheimer's disease rat models competitive in " <i>vitro</i> " and " <i>vivo</i> " studies	Mariarosaria Miloso <a href="mailto:mariarosaria.miloso@unimib.it">mariarosaria.miloso@unimib.it</a>
8. New Treatment strategies (Neurodegeneration and Neuroprotection)	Patrizia Hrelia <a href="mailto:Patrizia.hrelia@unibo.it">Patrizia.hrelia@unibo.it</a>
9. Pathways leading to tau pathology – Role of nuclear tau in neurodegeneration in fronto-temporal dementia	Fabrizio Tagliavini <a href="mailto:ftagliavini@istituto-besta.it">ftagliavini@istituto-besta.it</a>
10. The physiologic and pathologic effect of Beta-amyloid 42	Massimo Tabaton <a href="mailto:mtabaton@neurologia.unige.it">mtabaton@neurologia.unige.it</a>
11. Cholesterol and amyloid-beta: is there a relation? - Study of the non muscle myosin II involvement in the processing of the amyloid precursor protein (APP) - Specific type 4 phosphodiesterase inhibitors and their impact on the production of amyloid-beta	Roberta Ricciarelli <a href="mailto:ricciarelli@medicina.unige.it">ricciarelli@medicina.unige.it</a>
12. Age-related neurodegenerative disorders associated with proteotoxic stress	Patrizia Guarneri <a href="mailto:guarneri@ibim.cnr.it">guarneri@ibim.cnr.it</a>
13. Basic research - Genetic susceptibility to Alzheimer disease and genome wide association studies - Biobanking	Dario Finazzi <a href="mailto:finazzi@med.unibs.it">finazzi@med.unibs.it</a>
14. Neurotoxic stimuli, synaptic dysfunction	Calro Sala <a href="mailto:c.sala@in.cnr.it">c.sala@in.cnr.it</a>
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16.	Andrea Ballabio <a href="mailto:ballabio@tigem.it">ballabio@tigem.it</a>
17. Pathogenesis and therapeutic targets for SBMA	Fabio Benfenati – Mara Pennuto – Chiara Scaramuzzino <a href="mailto:Fabio.benfenati@iit.it">Fabio.benfenati@iit.it</a>
18.	Luigi Zecca <a href="mailto:luigi.zecca@itb.cnr.it">luigi.zecca@itb.cnr.it</a>
<b>C. Neuro inflammation</b>	
1. Neuroimmunology of Alzheimer's disease	Marco Cosentino <a href="mailto:marco.cosentino@unisubria.it">marco.cosentino@unisubria.it</a>

2. Role of inflammation mechanisms in neurodegenerative diseases	Gabriela Constantin <a href="mailto:gabriela.constantin@univr.it">gabriela.constantin@univr.it</a>
3. Regional vulnerability of the brain to neurodegeneration and immune regulatory mechanisms	Marina Bentivoglio <a href="mailto:marinabentivoglio@univr.it">marinabentivoglio@univr.it</a>
4. Neurotoxic stimuli	Michela Matteoli <a href="mailto:Michela.matteoli@unimi.it">Michela.matteoli@unimi.it</a>
5. Gender and hormonal/endocrine signals in neuroinflammation role in alzheimer's disease and brain ageing	Elisabetta Vegeto <a href="mailto:Elisabetta.vegeto@unimi.it">Elisabetta.vegeto@unimi.it</a>
6. Role of pro-and anti- inflammatory cytokines in the prognosis and progression of neurodegenerative diseases	Barbara Viviani <a href="mailto:Barbara.viviani@unimi.it">Barbara.viviani@unimi.it</a>
7. Study of the role of pro-inflammatory chemokines in neuroinflammatory disorders and analysis of the therapeutic potential of chemokine synthesis inhibitors	Claudio Milanese <a href="mailto:c.milanese@angelini.it">c.milanese@angelini.it</a>
8.	Luisa Minghetti <a href="mailto:luisa.minghetti@iss.it">luisa.minghetti@iss.it</a>
<b>D. Oxidative Stress and neurodegeneration</b>	
1. In "vivo" models for differentiation and survival of neural progenitor cells, towards the Dopamine and the GABA lineages	Giorgio Merlo <a href="mailto:gmerlo@dti.telethon.it">gmerlo@dti.telethon.it</a>
2. Indagine di meccanismi molecolari alla base della malattia di Parkinson	Marco Bisaglia <a href="mailto:marco.bisaglia@unipd.it">marco.bisaglia@unipd.it</a>
3. Mitochondria, apoptosis and neurodegeneration: characterization of mitochondrial dysfunction in neurodegenerative diseases - Characterization of the molecular mechanisms underlying aging, cell senescence and neurodegenerative diseases	Antonella Bobba <a href="mailto:a.bobba@ibbe.cnr.it">a.bobba@ibbe.cnr.it</a>
4. Structural organization of the mitochondrial respiratory chain, generation of reactive oxygen species and neurodegeneration	Giorgio Lenaz <a href="mailto:giorgio.lenaz@unibo.it">giorgio.lenaz@unibo.it</a>
5. Post-genomic biochemistry of neurodegenerative diseases	Annalisa Santucci <a href="mailto:santucci@unisi.it">santucci@unisi.it</a>
<b>E. Trophic factors involvement in the neurodegeneration process</b>	
1. Towards an NGF- based therapy for Alzheimer's disease	Antonino Cattaneo <a href="mailto:a.cattaneo@ebri.it">a.cattaneo@ebri.it</a>
2. Mechanisms implicating BDNF activity in the control of adult neurogenesis	Marco Canossa <a href="mailto:marco.canossa@unibo.it">marco.canossa@unibo.it</a>

<b>F. Endocrine and Metabolic Factors</b>	
1. Membrane lipid-Protein interactions: new opportunities for human health and disease	Mauro Maccarrone <a href="mailto:mmaccarrone@unite.it">mmaccarrone@unite.it</a>
2. miRNA as sensors of neuronal stress and modulators of synaptic plasticità and memory deficits	Paola Fragapane <a href="mailto:paola.fragapane@uniroma1.it">paola.fragapane@uniroma1.it</a>
3. Developing competitive animal models to study Alzheimer's disease	Roberto Rimondini <a href="mailto:roberto.rimondini@unibo.it">roberto.rimondini@unibo.it</a>
4. Developing a non genetic model of pre symptomatic AD to hypothesize novel cell metabolic pathways and therapeutic targets	Stefano Loizzo <a href="mailto:stefano.loizzo@iss.it">stefano.loizzo@iss.it</a>
5. Genetic susceptibility to Alzheimer's disease Alzheimer's disease in women: AD as a gender disease	Rosa Maria Corbo <a href="mailto:rosamaria.corbo@uniroma1.it">rosamaria.corbo@uniroma1.it</a>
6. Pluripotent, multi-functionally protective and homeostatic amino acids, di-and tripeptides in Alzheimer's disease and the role of the brain Peptide/Histidine Trasporter 1 (PHT1)	Tiziano Verri <a href="mailto:tiziano.verri@unisalento.it">tiziano.verri@unisalento.it</a>
7. Genetic susceptibility to Alzheimer's disease (Epigenetic marks of susceptibility to Alzheimer disease)	Lucia Migliore <a href="mailto:l.migliore@geog.unipi.it">l.migliore@geog.unipi.it</a>
8. Role of altered lipid and cholesterol metabolism in neurodegenerations	Laura Colombaioni <a href="mailto:laura.colombaioni@in.cnr.it">laura.colombaioni@in.cnr.it</a>
9.	Roberto Cosimo Melcangi <a href="mailto:Roberto.melcangi@unimi.it">Roberto.melcangi@unimi.it</a>
10. Selective Alzheimer Disease Indicator -1 (Seladin-ò1): a linker between cholesterol, oxidative stress and Alzheimer's disease	Roberto Maggi <a href="mailto:Roberto.maggi@unimi.it">Roberto.maggi@unimi.it</a>
11. Neurodegenerative disorders and therapeutic strategy	Anna Petroni <a href="mailto:Anna.petroni@unimi.it">Anna.petroni@unimi.it</a>
12. Nuclear receptors, coregulators, neuroactive steroids and epigenetics in neurodegenerative disease associated to metabolic disorders	Donatella Caruso <a href="mailto:Donatella.caruso@unimi.it">Donatella.caruso@unimi.it</a>
<b>G. Cell interactions</b>	
1. The Astrocyte, not just a Bystander in Alzheimer's disease	Ubaldo Armato <a href="mailto:ubaldo.armato@univr.it">ubaldo.armato@univr.it</a>
2.	Giovanni Savettieri <a href="mailto:giosav@unipa.it">giosav@unipa.it</a>
3. Synapse and Amyloid-beta: effects on astrocyte processes, nerve terminals and network synaptic activity	Manuela Marcoli <a href="mailto:marcoli@pharmatox.unige.it">marcoli@pharmatox.unige.it</a>
4. Alzheimer's disease, Ageing	Luciano Domenici <a href="mailto:domenici@in.cnr.it">domenici@in.cnr.it</a>
<b>H. Intracellular Trafficking</b>	
1. Membrane traffic and neurodegenerative diseases: role of Rab proteins and their effectors	Cecilia Bucci <a href="mailto:cecila.bucci@unisalento.it">cecila.bucci@unisalento.it</a>

2. Basic research. Neurodegenerative diseases	Paolo Macchi <a href="mailto:macchi@science.unitn.it">macchi@science.unitn.it</a>
<b>I. Animal models</b>	
1. Developing competitive animal models to study Alzheimer's disease	Adalberto Merighi <a href="mailto:Adalberto.merighi@unito.it">Adalberto.merighi@unito.it</a>
2. Synaptic dysfunction in neurodegeneration: characterization of gene product in functional synaptic networks under physiological and pathological conditions	Monica Di Luca <a href="mailto:monica.diluca@unimi.it">monica.diluca@unimi.it</a>
3. Nicotinic acetylcholine receptors, nicotine protection and neurodegenerative diseases - Neurogenesis and neurodegenerative diseases	Andrea Cavalli <a href="mailto:andrea.cavalli@iit.it">andrea.cavalli@iit.it</a>
4. Development of original models for Alzheimer's Disease	Antonino Cattaneo <a href="mailto:a.cattaneo@ebri.it">a.cattaneo@ebri.it</a>
5. Study of early onset Alzheimer disease in a model for Down syndrome, the Ts65Dn mouse	Renata Bartesaghi <a href="mailto:renata.bartesaghi@unibo.it">renata.bartesaghi@unibo.it</a>
6. Neurodegeneration	Sonia Levi <a href="mailto:Levi.sonia@hsr.it">Levi.sonia@hsr.it</a>
7. Non neurotoxic activity of Beta amyloid in animal models	Stefano Govoni <a href="mailto:Stefano.govoni@unipv.it">Stefano.govoni@unipv.it</a>
<b>2. PHARMACOLOGY</b>	
<b>A. Drug Design</b>	
1. Elementary mechanisms of neurodegenerative diseases	Nino Russo <a href="mailto:nrusso@unical.it">nrusso@unical.it</a>
2. Innovative drug discovery strategies for Alzheimer's disease	Carlo Melchiorre <a href="mailto:Carlo.melchiorre@unibo.it">Carlo.melchiorre@unibo.it</a>
3. Development of ligands specifically targeting the Translocator Protein 18 kDa in Alzheimer disease	Federico Da Settimo <a href="mailto:fsettimo@farm.unipi.it">fsettimo@farm.unipi.it</a>
4. Structural studies of acetylcholinesterases and their inhibitors: implications for the design of new anti-alzheimer drugs	Alberto Cassetta <a href="mailto:Alberto.cassetta@ts.ic.cnr.it">Alberto.cassetta@ts.ic.cnr.it</a>
<b>B. Drug screening</b>	
1. Development of competitive animal models for AD-GLP grade animal facility and behavioural testing	Laura Calzà <a href="mailto:laura.calza@unibo.it">laura.calza@unibo.it</a>
2. Anti-oxidant and neurodegenerative disease: molecular basis of action of phytochemicals in neuroblastoma-derived cell models	Michele Maffia <a href="mailto:michele.maffia@unisalento.it">michele.maffia@unisalento.it</a>
3. Design, synthesis and in "vitro" biological	Alberto Gasco

charaterization of multifunctional agents targeted to Alzheimer disease	<a href="mailto:alberto.gasco@unito.it">alberto.gasco@unito.it</a>
4. Yeast model to seek for molecoles which can reduce mitochondrial mutability	Liliana Ferrero Fortunati <a href="mailto:iferrero@unipr.it">iferrero@unipr.it</a>
5. Correlation between differen A-beta structural forms and cell toxicity: use of natural antioxidants delivered by nanoparticles for A-beta fibrillogenesis inhibition and serviva pathway activation	Marta Di Carlo <a href="mailto:di-carlo@ibim.cnr.it">di-carlo@ibim.cnr.it</a>
<b>C. Drug Delivery</b>	
1. Nanotechnology for health: application in the brain diseases	MA Vandelli Giovanni Tosi <a href="mailto:gtosi@unimore.it">gtosi@unimore.it</a>
2. Hybrid drug containing reservoirs for long term release in brain diseases	Angelo Montenero <a href="mailto:angelo.montenero@unipr.it">angelo.montenero@unipr.it</a>
3. New nanodevices overcoming the blood-brain barrier for the therapy of Alzheimer disease	Massimo Masserini <a href="mailto:massimo.masserini@unimib.it">massimo.masserini@unimib.it</a>
4. Lipid and polymeric nanostructures for drug targeting to the CNS in the tratment of neurodegenerative and Alzheimer is disease	Gaetano Giammona <a href="mailto:gaegiamm@unipa.it">gaegiamm@unipa.it</a>
<b>D. Novel Drugs</b>	
1.	Lamberto Maffei <a href="mailto:maffei@in.cnr.it">maffei@in.cnr.it</a>
2. Synthesis and screening of new AChE/BuChE inhibitors	Aldo Andreani <a href="mailto:Aldo.andreani@unibo.it">Aldo.andreani@unibo.it</a>
3. Drug design and synthesis of therapeutic agent for neurodegenerative disorders, particularly for Alzheimer disease	Olga Bruno <a href="mailto:obruno@unige.it">obruno@unige.it</a>
4. Recombinant antibodies against A beta oligomers	Antonino Cattaneo <a href="mailto:a.cattaneo@ebri.it">a.cattaneo@ebri.it</a>
5. Development of a novel therapeutic strategy for AD based on a natural variant of amyloid beta that hinders amyloidogenesis	Fabrizio Tagliavini <a href="mailto:ftagliavini@istituto-besta.it">ftagliavini@istituto-besta.it</a>
6. Evaluation of the use of plants' compounds with anti-STAT1 and/or No-enhancing activity in the prevention/treatment of Alzheimer disease	Hisanori Suzuki hisanori.suzuki@univr.it
7. Second generation, recombinant Abeta peptide immunogens as prototype vaccines for AD treatment/prevention (active immunization approach) and as primary antigens for the production of conformation sensitive therapeutic monoclonal antivodies ( passive immunization approach)	Simone Ottonello <a href="mailto:s.ottonello@unipr.it">s.ottonello@unipr.it</a>
8. Pediatric neurodegenerative diseases	Maurizio Scarpa <a href="mailto:maurizio.scarpa@unipd.it">maurizio.scarpa@unipd.it</a>
9. Ocular NGF administration as a novel non invasive approach to protect brain-NGF target neurons that degenerative in Alzheimer's disease	Francesca Roberti <a href="mailto:f.ruberti@inmm.cnr.it">f.ruberti@inmm.cnr.it</a>
10. New symptomatic and neuroprotective terapie for parkinsons's disease	Micaela Morelli <a href="mailto:morelli@unica.it">morelli@unica.it</a>

11. Innovative neuro-reparative strategies via the implementation of endogenous neurogenesis and gliogenesis: focus on the new P2Y-like GPR17 receptor	Maria Pia Abbracchio <a href="mailto:Mariapia.abbracchio@unimi.it">Mariapia.abbracchio@unimi.it</a>
12. Pharmacological modulation of adult neurogenesis	Maria Grazia Grilli <a href="mailto:grilli@pharm.unipmn.it">grilli@pharm.unipmn.it</a>
13. Calcium modulating drugs as therapeutic tool for Alzheimer's disease	Mounia Chami – Fabio benfenati – Dolores Del Prete <a href="mailto:Fabio.benfenati@iit.it">Fabio.benfenati@iit.it</a>
14.	Erica Maran <a href="mailto:Erica.maran@sissa.it">Erica.maran@sissa.it</a>
<b>E. Non-Pharmacological Therapies</b>	
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2.	Lamberto Maffei <a href="mailto:maffei@in.cnr.it">maffei@in.cnr.it</a>
3. Physical exercise and cognitive decline	Maurizio Tagliatela <a href="mailto:m.tagliatela@unimol.it">m.tagliatela@unimol.it</a>
4. New treatment strategies (non pharmacologic therapeutic strategies in neurodegenerative diseases)	Andrea Stracciari <a href="mailto:andrea.stracciari@aosp.bo.it">andrea.stracciari@aosp.bo.it</a>
5. Non invasive brain stimulation an integrated approach to neurorehabilitation in Alzheimer disease	Orazio Zanetti <a href="mailto:ozanetti@fatebenefratelli.it">ozanetti@fatebenefratelli.it</a>
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8.	Vania Broccoli <a href="mailto:Broccoli.vania@hsr.it">Broccoli.vania@hsr.it</a>
9. Neural re generation in the cerebellum: development of cell replacement strategies for the management of spinocerebellar ataxias	Gian Giacomo Consalez <a href="mailto:Giacomo.comsalez@hsr.it">Giacomo.comsalez@hsr.it</a> Ferdinando Rossi <a href="mailto:Ferdinando.rossi@unito.it">Ferdinando.rossi@unito.it</a>
10. Physical activity programs for elderly subjects with different grades of cognitive impairment	Federico Schena <a href="mailto:Federico.schena@univr.it">Federico.schena@univr.it</a>
<b>F. Drug Pharmacogenetics</b>	
1. Role of pharmacogenetics to identify the personalized treatment of dementia and depression.	Alberto Pilotto <a href="mailto:Alberto.pilotto@operapadrepio.it">Alberto.pilotto@operapadrepio.it</a>
<b>G. Clinical studies</b>	
1. TSPO or peripheral Benzodiazepine receptor ligands as useful tools for diagnosis and monitoring of AD patients	Silvia Selleri

### 3. HUMAN/CLINICAL RESEARCH

#### A. Human –epidemiology/risk factors

1. Pathogenic mechanisms, early diagnosis and prevention of Parkinson's disease following pesticide intake in animal model	Gabbianelli Rosita – Cinzia Nasuti <a href="mailto:rosita.gabbianelli@unicam.it">rosita.gabbianelli@unicam.it</a>
2. Effects of traffic-related particulate matter on transcription of genes implicated in neurodegeneration	Macaela Caserta <a href="mailto:micaela.caserta@uniroma1.it">micaela.caserta@uniroma1.it</a>
3. Chronobiology and neurodegeneration	Valerio Carelli <a href="mailto:Valerio.carelli@unibo.it">Valerio.carelli@unibo.it</a>
4. Gene-metal interaction as determinant of neurodegenerative diseases	Roberto Lucchini <a href="mailto:lucchini@med.unibs.it">lucchini@med.unibs.it</a>
5. Using prevention to reduce the burden of Alzheimer's disease	Stefano Mattioli <a href="mailto:s.mattioli@unibo.it">s.mattioli@unibo.it</a>
6. Construction and development of "Alzheimer-Web-GIS". Geographical correlation between Alzheimer's disease and environmental parameters. Method for mapping population-based case-control studies.	Giuseppe Mele <a href="mailto:Giuseppe.mele@unisalento.it">Giuseppe.mele@unisalento.it</a>
7. Prospective evaluation of biomarkers of inflammation in Mild Cognitive Impairment subtypes, and their role in the conversion from cognitive impairment to dementia and Alzheimer's disease	Calogero Caruso <a href="mailto:immunopatologia@unipa.it">immunopatologia@unipa.it</a>
8. Epidemiology and risk factors for Mild Cognitive Impairment, Alzheimer's disease and dementia. Population-based 7-year follow-up study.	Roberto Monastero <a href="mailto:Roberto.monastero@ki.se">Roberto.monastero@ki.se</a>
9. [moved to B.5 Epidemiology genetics]	Emilio Di Maria <a href="mailto:Emilio.dimaria@unige.it">Emilio.dimaria@unige.it</a>
10.	Salmona Mario - Forloni <a href="mailto:Mario.salmona@marionegri.it">Mario.salmona@marionegri.it</a>

#### B. Epidemiology genetics

1. Delirium in intensive care unit (ICU): evaluation of delirium as an early prognostic event functional decline, dementia or Alzheimer disease. Study of clinical, biological and genetic/epigenetic risk factors	Rita Maria Melotti <a href="mailto:Ritamaria.melotti@unibo.it">Ritamaria.melotti@unibo.it</a>
2. Multiple genetic profiles predictive of cognitive decline and dementia. Research tools for the prevention of Alzheimer's diseases.	Federico Licastro <a href="mailto:Federico.licastro@unibo.it">Federico.licastro@unibo.it</a>
3. Genetic susceptibility to Alzheimer's disease and genome wide association studies	Luisa Benussi <a href="mailto:lbenussi@fatebenefratelli.it">lbenussi@fatebenefratelli.it</a>
4. Genetic susceptibility to Alzheimer's disease: biobanking	Maria del Zompo <a href="mailto:delzompo@unica.it">delzompo@unica.it</a>
5. Innovative technologies finalized to the improvement of diagnostic tools for the molecular analysis of spino	Silvia Piacentini <a href="mailto:piacentini@neuro.unifi.it">piacentini@neuro.unifi.it</a>



cerebellar Ataxias (SCA)	
<b>C. Biomarkers and early diagnosis and imaging</b>	
1. Plasma biomarkers of oxidative stress and inflammation in early detection and follow-up of dementia. 2. Vitamins and antioxidants in aging and neurodegenerative diseases	Patrizia Mecocci <a href="mailto:mecocci@unipg.it">mecocci@unipg.it</a>
3. Phenotypic and genotypic markers of early Alzheimer's disease	Salvatore Monaco <a href="mailto:Salvatore.monaco@univr.it">Salvatore.monaco@univr.it</a>
4.	Rita Casadio <a href="mailto:casadio@biocomp.unibo.it">casadio@biocomp.unibo.it</a>
5. Cerebrospinal fluid cytokine and chemokine levels as potential biomarkers for early diagnosis of Alzheimer's disease	Elio Scarpini <a href="mailto:elio.scarpini@unimi.it">elio.scarpini@unimi.it</a>
6. Individual evaluation of cognitive decline: definition of low cost non- invasive examination battery and implementation of a predictive algorithm to identify Mild cognitive impairment	Paolo Maria Rossini <a href="mailto:Paolomaria.rossini@afar.it">Paolomaria.rossini@afar.it</a>
7.	Antonella Mandas <a href="mailto:amandas@medicina.unica.it">amandas@medicina.unica.it</a>
8. Molecular imaging and genetic analysis for the early diagnosis and monitoring of Alzheimer's disease in individuals with cognitive disturbances	Alessandro Padovani <a href="mailto:padovani@med.unibs.it">padovani@med.unibs.it</a>
9. Study early diagnosis of Alzheimer's disease and follow up progression - Standardization of diagnostic instruments, harmonization and assessment tools	Giovanni B. Frisoni <a href="mailto:gfrisoni@fatebenefratelli.it">gfrisoni@fatebenefratelli.it</a>
10. Impiego dei markers biologici e neuro radiologici nella diagnosi differenziale precoce	Orazio Zanetti <a href="mailto:ozanetti@fatebenefratelli.it">ozanetti@fatebenefratelli.it</a>
11. Biomarkers in Mild cognitive Impairment: genetics and biochemical and neuroimaging studies for early diagnosis.	Sandro Sorbi <a href="mailto:sorbi@unifi.it">sorbi@unifi.it</a>
12. A multimodality index for early diagnosis of Alzheimer's disease	Flavio Nobili <a href="mailto:flaviomariano.nobili@hsanmartino.it">flaviomariano.nobili@hsanmartino.it</a>
13.	Marco Leonardi <a href="mailto:Marco.leonardi@unibo.it">Marco.leonardi@unibo.it</a>
14. Lexical semantic skills, APOE and neuroanatomical substrate of semantic memory in early diagnosis of Alzheimer's disease	Paolo Caffarra <a href="mailto:Paolo.caffarra@unipr.it">Paolo.caffarra@unipr.it</a>
15. Cognitive neuroscience of dementia: clinical and theoretical aspect	Stefano F. Cappa <a href="mailto:Cappa.stefano@hsr.it">Cappa.stefano@hsr.it</a>
16.	Massimo Filippi <a href="mailto:Filippi.massimo@hsr.it">Filippi.massimo@hsr.it</a>
17. Studies are aimed at investigating with PET the brain functional parameters and neurotransmission systems in neurological and psychiatric diseases	Daniela Perani <a href="mailto:Daniela.perani@hsr.it">Daniela.perani@hsr.it</a>
18. Global proteomics of human fibroblast for the identification of early biomarkers for dementia and Alzheimer's disease	Maurizio Popoli <a href="mailto:Maurizio.popoli@unimi.it">Maurizio.popoli@unimi.it</a>

19. Parkinson's disease: cell models and biomarkers discovery -	Daniela Parolaro – Mauro Fasanaro daniela.parolaro@uninsubria.it
<b>D. Diagnosis: biomarkers</b>	
1. Proteomics of cognitive and movement disorders: Identification of molecular mechanisms associated with disease onset and phenotypic variability of frontotemporal lobar degeneration	Roberta Ghidoni <a href="mailto:rgidoni@fatebenefratelli.it">rgidoni@fatebenefratelli.it</a>
2. Peripheral markers of oxidative stress, excitotoxicity and abnormal protein metabolism in neurodegenerative disorders.	Carlo Ferrarese <a href="mailto:Carlo.ferrarese@unimib.it">Carlo.ferrarese@unimib.it</a>
3. Validation and search of CSF biomarkers for the early differential diagnosis of cognitive impairment. Development of new diagnostic approaches for prion diseases in humans.	Piero Parchi <a href="mailto:Piero.parchi@unibo.it">Piero.parchi@unibo.it</a>
4. Identification of microRNAs like biomarkers for early diagnosis of Alzheimer's disease	Antonino Cattaneo <a href="mailto:a.cattaneo@ebri.it">a.cattaneo@ebri.it</a>
5. Search of pre-clinical blood based molecular markers of Alzheimer's disease. - The physiologic and pathologic effect of beta-amyloid 42	Massimo Tabaton <a href="mailto:mtabaton@neurologia.unige.it">mtabaton@neurologia.unige.it</a>
6. Analisi Biochimica di parametri di stress ossidativo	Gabriele Siciliano <a href="mailto:gsicilia@neuro.med.unipi.it">gsicilia@neuro.med.unipi.it</a>
7. Cognitive decline in multiple sclerosis	Laura Calzà <a href="mailto:Laura.calza@unibo.it">Laura.calza@unibo.it</a>
8. Search of predictive markers of AD based on amplification of disease-specific amyloid-beta oligomers	Fabrizio Tagliavini <a href="mailto:ftagliavini@istituto-besta.it">ftagliavini@istituto-besta.it</a>
<b>E. Diagnosis: neuropsychology</b>	
1. Handwriting analysis as a novel diagnostic tool for Alzheimer's disease in the clinical and forensic settings	Maurizio Balestrino <a href="mailto:mbalestrino@neurologia.unige.it">mbalestrino@neurologia.unige.it</a>
2. Amnesic Mild Cognitive Impairment: neuropsychological features and new diagnostic criteria (Dubois et Al., 2007)	Angiola Maria Fasanaro <a href="mailto:Giola.fasanaro@virgilio.it">Giola.fasanaro@virgilio.it</a>
3.	Simona Luzzi <a href="mailto:s.luzzi@univpm.it">s.luzzi@univpm.it</a>
4.	Roberto Gallassi <a href="mailto:Roberto.gallassi@unibo.it">Roberto.gallassi@unibo.it</a>
5. Standardisation of diagnostic criteria and diagnostic instruments, harmonization and assessment tools	Manuela Contin <a href="mailto:Manuela.contin@unibo.it">Manuela.contin@unibo.it</a>
6. Individual evaluation of cognitive decline; validation of ultrafast screening tools.	Ildebrando Appollonio <a href="mailto:ildebrando.appollonio@unimib.it">ildebrando.appollonio@unimib.it</a>
<b>F. Biobanking Bioinformatics</b>	
1.	Giorgio Stanta <a href="mailto:stanta@impactsnetwork.eu">stanta@impactsnetwork.eu</a>

2. Molecular basis of Episodic Ataxia type 2 (EA2) and Spinocerebellar Ataxia type 6 (SCA6)	Francesca Ruberti <a href="mailto:f.ruberti@inmm.cnr.it">f.ruberti@inmm.cnr.it</a>
3. Deciphering neuronal apoptosis for the amyotrophic lateral sclerosis	Giuseppe Nicosia <a href="mailto:nicosia@dmi.unict.it">nicosia@dmi.unict.it</a>
<b>G. Ambient assisted living and socioeconomics</b>	
1. Home-based Empowered Living for people with dementia and Parkinson's disease	Roberto Monastero <a href="mailto:roberto.monastero@unipa.it">roberto.monastero@unipa.it</a>
2. Neuro-rehabilitation and brain functional imaging: rehabilitation customization driven by best exploitation of cerebral plasticity and health system sustainability.	Alessandra Pedrocchi <a href="mailto:pedrocchi@biomed.polimi.it">pedrocchi@biomed.polimi.it</a>
3. Role of information and communication technology (ICT) systems to improve quality of life, quality of care and safety of older patients with cognitive decline	Alberto Pilotto <a href="mailto:alberto.pilotto@operapadrepio.it">alberto.pilotto@operapadrepio.it</a>
4. A transdisciplinary oriented proposal from a social sciences perspective	Vincenzo Maria Bruno Giorgino <a href="mailto:Vincenzo.giorgino@unito.it">Vincenzo.giorgino@unito.it</a>
5. Home based Empowered living for Parkinson's disease patients	Roberto Monastero <a href="mailto:Roberto.monastero@ki.se">Roberto.monastero@ki.se</a>