



Thursday, September 26, 2019

17:00 - 17:30	Opening Ceremony: Chairpersons: P. Calabresi – M. Morelli Welcome by the Rector of the University of Perugia and local Authorities Remembering Paul Greengard by F. Benfenati	Aula Magna of Rectorate, University of Perugia
17:30 - 18:15	Plenary Lecture: The Biology of Memory and Age-Related Memory Loss E.R. Kandel (<i>College of Physicians and Surgeons of Columbia University, New York, USA</i>) Chairperson: P. Calabresi	Aula Magna of Rectorate, University of Perugia
18:15	Classical Music Concert	
19:00	Welcome Cocktail	

Friday, September 27, 2019

8:30 - 9:15	Plenary Lecture: Sodium Calcium Exchanger in the Brain: A Growing Spectrum of Pathophysiological Implications L. Annunziato (<i>School of Medicine, University of Naples "Federico II", Italy</i>) Chairperson: F. Conti	Auditorium, Centro Congressi Perugia
9:15 - 10:55	Symposium 1: Molecular and cellular mechanisms underlying Parkinson's disease (<i>Joint Symposium SIN-SINS</i>) Chairpersons: G. Mancardi - M. Morelli	Auditorium, Centro Congressi Perugia
9:15	Animal models of Parkinson's Disease Fabio Blandini (<i>Fondazione Mondino, Istituto Neurologico Nazionale a Carattere Scientifico IRCCS, Pavia</i>)	
9:40	Molecular mechanisms underlying genetic forms of Parkinson's disease Alessio Di Fonzo (<i>Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan</i>)	
10:05	Mechanisms of synaptic pathology induced by alpha-synuclein Arianna Bellucci (<i>University of Brescia</i>)	
10:30	Alpha-synuclein and neuroinflammation Nicola Mercuri (<i>University of Rome Tor Vergata</i>)	
9:15 - 10:55	Symposium 2: The Neuroscience of Social Interaction: From intention coding to inter-individual motor coordination Chairpersons: A. Battaglia-Mayer - F. Conti	Trumpet Area 1+2, Centro Congressi Perugia
9:15	Coordination of Self and Other in Musical Joint Action Giacomo Novembre (<i>Italian Institute of Technology IIT, Rome</i>)	
9:40	How task interactivity shapes action observation Lucia Maria Sacheli (<i>University of Milano-Bicocca</i>)	
10:05	Intention understanding: at the intersection between kinematic coding and readout Cristina Becchio (<i>Italian Institute of Technology IIT, Genova</i>)	
10:30	Joint-action coding in the primate frontal and parietal cortex Alexandra Battaglia-Mayer (<i>Sapienza University of Rome</i>)	
9:15 - 10:55	Symposium 3: New neuroprotective approaches for the treatment of cerebral ischemic damage Chairpersons: O. Cuomo - V. Porrini	Trumpet Area 3+4, Centro Congressi Perugia
9:15	Molecular mechanisms of neuroprotection and neuroplasticity in in vitro models of ischemic and pharmacological pre- and post-conditioning Elisabetta Gerace (<i>University of Firenze</i>)	
9:40	The pharmacological inhibition of the Histone deacetylases of class IIA as neuroprotective strategy to prevent the down-regulation of sodium calcium exchanger NCX3 in brain ischemia Natascia Guida (<i>IRCCS SDN, Naples</i>)	
10:05	AntimiR-223-5p ameliorates ischemic damage and improves neurological function by preventing NCKX2 downregulation after ischemia Ornella Cuomo (<i>Federico II University of Naples</i>)	
10:30	Head Down Tilt 15° As Collateral Therapeutic In Experimental Ischemic Stroke: Efficacy, Safety And Hemodynamics Susanna Diamanti (<i>University of Milano-Bicocca</i>)	

9:15 – 10:55	Symposium 4: Implication of cholinergic transmission in physiology and pathology Chairpersons: A. M. Tata - A. Tassone	Sax Area 2+3, Centro Congressi Perugia
9:15	Altered cholinergic machinery in a mouse model of DYT1 dystonia Annalisa Tassone (<i>IRCCS Foundation Santa Lucia, Rome</i>)	
9:40	Pharmacological and nutraceutical modulation of cholinergic depletion Debora Cutuli (<i>Fondazione Policlinico Universitario Agostino Gemelli-IRCCS, Rome</i>)	
10:05	Clinical relevance of multimodal Magnetic Resonance Imaging in cholinergic dysfunctions Fabrizio Piras (<i>IRCCS Foundation Santa Lucia, Rome</i>)	
10:30	Cholinergic modulation of cell proliferation and differentiation in human Schwann and Schwann-like cells: implication in peripheral nerve regeneration Roberta Piovesana (<i>University of Manchester, UK</i>)	
10:55 - 11:15	Coffee Break	
11:15 – 12:00	Plenary Lecture: Seizure mechanisms and gene therapy for focal epilepsy D.M. Kullmann (<i>UCL Institute of Neurology, University College London, London, UK</i>) Chairperson: A. Pisani	Auditorium, Centro Congressi Perugia
12:00 - 14:00	Poster Session 1 and lunch	
14:00 – 14:45	Plenary Lecture: Treating neurodevelopmental disorders: challenges, issues, problems, concerns, difficulties, harms, worries, doubts, but we need to start from somewhere L. Cancedda (<i>IIT Central Research Laboratories, Genoa</i>) Chairperson: E. Cherubini	Auditorium, Centro Congressi Perugia
14:45 – 16:25	Symposium 5: Early cognitive deficits in ageing and Alzheimer' disease: from identification of disease' mechanisms to implementation of rescue strategies Chairpersons: M. Ammassari-Teule - C. Ferrarese	Auditorium, Centro Congressi Perugia
14:45	Neural compensation in Alzheimer mice: other brain circuits for intact cognition Martine Ammassari-Teule (<i>IRCCS Santa Lucia Foundation, Rome</i>)	
15:10	Autophagy induction enhances memory formation and mediates the effects of Youthful Systemic Factors in aged brain Franck Oury (<i>Université Paris Descartes-Sorbonne-Paris Cité, Paris, France</i>)	
15:35	Synaptic Mechanisms governing the pro-cognitive effects of Spermidine in ageing Giulia Torromino (<i>Institute of Cellular Biology and Neurobiology and Institute of Genetics and Biophysics, CNR, Rome</i>)	
16:00	Phosphodiesterase inhibitors as a possible therapeutic target in aging and Alzheimer's disease Daniela Puzzo (<i>University of Catania</i>)	
14:45 – 16:25	Symposium 6: Migraine: focus on CGRP and neuronal networks Chairpersons: P. Sarchielli - P. Geppetti	Trumpet Area 1+2, Centro Congressi Perugia
14:45	CGRP in the pathophysiology of migraine Alberto Chiarugi (<i>University of Firenze</i>)	
15:10	Hemiplegic migraine and synaptic plasticity Petra Mazzocchi (<i>San Raffaele Institute of Rome and University of Perugia</i>)	
15:35	Brain networks in migraine: lessons learned from spontaneous and provoked attacks Daniele Martinelli (<i>London UCL and Fondazione Mondino, Istituto Neurologico Nazionale a Carattere Scientifico IRCCS, Pavia</i>)	
16:00	New therapeutic approaches in migraine Paola Sarchielli (<i>University of Perugia</i>)	
14:45 – 16:25	Symposium 7: Anatomical and functional forebrain defects in mouse models of neurodevelopmental disorders Chairpersons: Y. Bozzi - T. Hensch	Trumpet Area 3+4, Centro Congressi Perugia
14:45	Somatosensory cortex defects in mouse models of autism spectrum disorders Yuri Bozzi (<i>University of Trento</i>)	
15:10	Neurophysiological defects in the dorsal striatum of the R451C-Neurexin3 mouse model Paola Bonsi (<i>IRCCS Foundation Santa Lucia, Rome</i>)	
15:35	Foxg1 control of neocortical stem cell progression to astrogenesis Manuela Santo (<i>SISSA Scuola Internazionale Superiore di Studi Avanzati, Trieste</i>)	
16:00	Structural connectivity in mouse models of neurodevelopmental disorders Massimo Pasqualetti (<i>University of Pisa</i>)	

14:45 – 16:25	Symposium 8: Astrocytes heterogeneity: from development to functional implications Chairpersons: V. Cerrato - F. Benfenati	Sax Area 2+3, Centro Congressi Perugia	
14:45	The ontogenesis of astrocytes diversity: a remarkably orderly process necessary for the correct cerebellar development and functioning Valentina Cerrato (<i>Neuroscience Institute Cavalieri Ottolenghi, Turin</i>)		
15:10	The Star Cells of Learning: Activity-Dependent and Projection-Specific Effect of Astrocytes in Memory Acquisition Inbal Goshen (<i>The Hebrew University, Jerusalem, Israel</i>)		
15:35	Long-term memory retrieval requires peri-synaptic glia for proBDNF processing and recycling of the isolated pro-peptide Beatrice Vignoli (<i>University of Trento</i>)		
16:00	Astrocyte calcium activity modulation of synaptic plasticity, focus on microdomains Gabriele Losi (<i>Istituto di Neuroscienze - Consiglio Nazionale delle Ricerche (IN-CNR)</i>)		
16:25 - 16:45	Coffee Break		
16:45 – 17:30	Plenary Lecture: Neurotrophic factors and neuronal plasticity: Mechanisms and translation E. Castrén (<i>Neuroscience Center, HiLIFE, University of Helsinki, Helsinki, Finland</i>) Chairperson: M. Popoli	Auditorium, Centro Congressi Perugia	
19:00 – 20:40	Symposium 9: Biomarkers in neurodegenerative diseases Chairpersons: L. Parnetti - D. Kullmann	Auditorium, Centro Congressi Perugia	
19:00	Tracking neurodegeneration through CSF biomarkers in neurological diseases Lorenzo Gaetani (<i>University of Perugia</i>)		
19:25	Interaction of alpha-syn with elements of autophagy-lysosomal pathway in different cell types in human brain Wilma Van de Berg (<i>University of Amsterdam, Netherlands</i>)		
19:50	Atypical D-amino acids as unconventional biomarkers of Parkinson's disease Alessandro Usiello (<i>University of Campania Luigi Vanvitelli</i>)		
20:15	Detection and characterization of abnormal alpha-synuclein in the olfactory mucosa of patients with Parkinson's disease and atypical parkinsonisms Fabio Moda (<i>Fondazione IRCCS Istituto Neurologico Carlo Besta, Milan</i>)		
20:40	Wine & Cheese		

Saturday, September 28, 2019

8:30 – 9:15	Plenary Lecture: Immunotherapy targeting the systemic immune system to combat Alzheimer's disease and age-related dementia M. Schwartz (<i>Department of Neurobiology, Weizmann Institute of Science, Rehovot, Israel</i>) Chairperson: G. Cantarella	Auditorium, Centro Congressi Perugia	
9:15 – 10:55	Symposium 10: Multiple sclerosis and neuroinflammation: towards new treatment targets Chairpersons: D. Centonze - R. Bernardini	Auditorium, Centro Congressi Perugia	
9:15	Multiple sclerosis and cognition: clinical features and synaptic bases Massimiliano Di Filippo (<i>University of Perugia</i>)		
9:40	Inflammatory synaptopathy and grey matter damage in multiple sclerosis Georgia Mandolesi (<i>San Raffaele University, Rome</i>)		
10:05	Resolving inflammation as a novel therapeutic strategy Valerio Chiurchiù (<i>Campus Bio-Medico University, Rome</i>)		
10:30	Immunological targets and new treatment algorithms Diego Centonze (<i>Neuromed Institute, Pozzilli</i>)		
9:15 – 10:55	Symposium 11: Synaptic transmission alterations in genetic and syndromic autism Chairpersons: L. Cancedda - R. Caminiti	Trumpet Area 1+2, Centro Congressi Perugia	
9:15	Functional characterization of two gene deleted in Phelan McDermid Syndrome: Shank3 and SULT4A1 Chiara Verpelli (<i>Neuroscience Institute, CNR, Milan</i>)		
9:40	Receptors dysfunction and potential therapies in Fragile X syndrome Maria Vincenza Catania (<i>Institute of Neurological Sciences, CNR, Catania</i>)		
10:05	Altered striatal and hippocampal synaptic communication in Shank KO mice Miriam Sciacaluga (<i>University of Perugia</i>)		
10:30	Alteration of striatal excitability in a rat model of autistic spectrum disorder Alessio Masi (<i>University of Camerino</i>)		

9:15 – 10:55	Symposium 12: Targeting synaptic dysfunction in brain disorders Chairpersons: A. Vercelli - E. Borrelli	Trumpet Area 3+4, Centro Congressi Perugia
9:15	ADAM10 in the synapse: novel insights into Alzheimer Disease pathogenesis Elena Marcello (<i>University of Milano</i>)	
9:40	The dual role of the female epilepsy-protein PCDH19 at the synapse and in the nucleus Silvia Bassani (<i>Neuroscience Institute, CNR, Milan</i>)	
10:05	Function and dysfunction of the Parkinson's Disease-related LRRK2 protein at the presynaptic site Giovanni Piccoli (<i>University of Trento</i>)	
10:30	Anti-GluA3 antibodies in Frontotemporal Dementia: effects on glutamate neurotransmission and synaptic failure Fabrizio Gardoni (<i>University of Milano</i>)	
9:15 – 10:55	Symposium 13: Metabolism influence on neuronal plasticity: from physiology to neuropsychiatric disorders Chairpersons: P. Tognini - E. Castrén	Sax Area 2+3, Centro Congressi Perugia
9:15	Nutrition and gut microbiota impact on cortical plasticity in mice Paola Tognini (<i>Scuola Normale Superiore, Pisa</i>)	
9:40	Metabolism modulates cortical plasticity in adult humans Paola Binda (<i>University of Pisa</i>)	
10:05	Creatine transporter deficiency: new insights on cell-specific vulnerability to metabolic failure Laura Baroncelli (<i>Institute of Neuroscience, CNR, Pisa</i>)	
10:30	Cellular redox imbalance and oxidative stress in Rett syndrome: Deciphering their roles as potential key players in disease progression by advanced optical sensors Michael Muller (<i>University Medical Center Göttingen, Germany</i>)	
10:55 - 11:15	Coffee Break	
11:15 – 12:00	Plenary Lecture: Dopamine regulated activation of striatal circuits E. Borrelli (<i>University of California, Irvine</i>) Chairperson: A. Usiello	Auditorium, Centro Congressi Perugia
12:00 - 14:00	Poster Session 2 and lunch	
14:00 – 14:45	Plenary Lecture: Shaping Neural Circuits by Early Experience T. Hensch (<i>Center for Brain Science, Harvard University, Cambridge, USA</i>) Chairperson: T. Pizzorusso	Auditorium, Centro Congressi Perugia
14:45 – 16:25	Symposium 14: Alpha-synuclein role in Parkinson's Disease, pre- and post-synaptic mechanisms Chairpersons: A. R. Carta - F. Blandini	Auditorium, Centro Congressi Perugia 
14:45	Structure and toxicity mechanism of pathological alpha-synuclein oligomers Alfonso De Simone (<i>College of London, UK</i>)	
15:10	The intranigral infusion of alpha-synuclein oligomer induces symptomatic and neuropathological features of Parkinson's disease Laura Boi (<i>University of Cagliari</i>)	
15:35	Alpha-synuclein pathology parallels parkinsonian phenotype progression: from human to in c-rel-/- mouse model of PD Edoardo Parrella (<i>University of Brescia</i>)	
16:00	The dopamine active transporter as an early marker of α -synucleinopathy Maria De Risi (<i>Institute of Genetics and Biophysics IGB, National Research Council, Naples</i>)	
14:45 – 16:25	Symposium 15: Purines in recovery mechanisms after neuronal damage Chairpersons: P. Popoli – D. Pellegrini	Trumpet Area 1+2, Centro Congressi Perugia
14:45	New perspectives in demyelinating disorders: A2B receptors modulate in vitro oligodendrocyte development Coppi Elisabetta (<i>University of Firenze</i>)	
15:10	Potential therapeutic role of adenosine A2A receptors in Central Nervous System disorders Alberto Martire (<i>Istituto Superiore di Sanità, Rome</i>)	
15:35	Mechanisms driving OPCs to myelinating oligodendrocytes: focus on the P2Y-like receptor GPR17 Davide Marangon (<i>University of Milano</i>)	
16:00	Adenosine A2B receptors participate in normoxic synaptic transmission and in excitotoxic damage induced by oxygen-glucose deprivation in the rat CA1 area of the hippocampus Anna Maria Pugliese (<i>University of Firenze</i>)	

14:45 – 16:25	Symposium 16: The RNA-Biology of motor neuron diseases Chairpersons: M. Pennuto - M. Basso	Trumpet Area 3+4, Centro Congressi Perugia
14:45	RNA and RNA-binding proteins in astrocyte-mediate toxicity of amyotrophic lateral sclerosis Piera Pasinelli (<i>Thomas Jefferson University, Philadelphia, USA</i>)	
15:10	Circular RNAs in motor neurons and muscles Irene Bozzoni (<i>University La Sapienza of Rome</i>)	
15:35	Genetic modifiers of RNA-mediated neurodegeneration in vivo Udai Pandey (<i>University of Pittsburgh, Pittsburgh, USA</i>)	
16:00	Unraveling the molecular substrate of motor neuron vulnerability to disease Emanuela Zuccaro (<i>University of Padova</i>)	
14:45 – 16:25	Symposium 17: Signalling Pathways in Intellectual Disability and Autism Spectrum Disorder: Cellular Mechanisms, Diagnostic Tools and Therapeutic Approaches Chairpersons: R. Brambilla - M. Giustetto	Sax Area 2+3, Centro Congressi Perugia
14:45	Genetic and epigenetic defects in neurodevelopmental disorders Gaia Novarino (<i>Institute of Science and Technology, Austria</i>)	
15:10	Atypical barrel cortex connectivity precedes autistic features in CDKL5 deficiency disorder mice Alessandra Raspanti (<i>University of Torino</i>)	
15:35	Protein homeostasis in Autism Spectrum Disorders Eleonora Rosina (<i>University of Lausanne, Switzerland</i>)	
16:00	CREB S133 as a key phosphorylation site for cognitive flexibility and social interaction Lorenzo Morè (<i>University of Central Lancashire, UK</i>)	
16:25 - 16:45	Coffee Break	
16:45 – 18:25	Symposium 18: New advances in the neurobiology of eating disorders (<i>Joint Symposium SIPB-SINS</i>) Chairpersons: A. Tortorella - M. Morelli	Auditorium, Centro Congressi Perugia
16:45	Preclinical studies in a animal model of Anorexia Nervosa Paola Fadda (<i>University of Cagliari</i>)	
17:10	Brain imaging correlates of taste perception in eating disorders: implications for reward mechanisms Umberto Volpe (<i>Polytechnic University of Marche, Ancona</i>)	
17:35	Oleoylethanolamide prevents binge-like palatable food consumption in female rats Silvana Gaetani (<i>University La Sapienza of Rome</i>)	
18:00	Early adverse experiences and eating disorders: evidence for a maltreated ecophenotype Alessio Monteleone (<i>University of Campania Luigi Vanvitelli</i>)	
16:45 – 18:25	Symposium 19: Running for your brain: neuroplasticity and its behavioral effects Chairpersons: A. Ieraci - C. Morrone	Trumpet Area 1+2, Centro Congressi Perugia
16:45	DThe human BDNF Val66Met polymorphism moderates the physical exercise-induced benefits in mice Alessandro Ieraci (<i>University of Milano</i>)	
17:10	p16Ink4a Prevents the Activation of Aged Quiescent Dentate Gyrus Stem Cells by Physical Exercise Laura Micheli (<i>Institute of Cell Biology and Neurobiology, CNR, Rome</i>)	
17:35	Effects of physical exercise on tau induced impairment of adult neurogenesis Nadia Canu (<i>University of Rome Tor Vergata</i>)	
18:00	Running-activated neural stem cells enhance subventricular neurogenesis and improve olfactory behaviour in p21 knockout mice Stefano Farioli-Vecchioli (<i>Institute of Cell Biology and Neurobiology, CNR, Rome</i>)	

16:45 – 18:25	Symposium 20: Rett and Rett-like syndromes: From Molecules and Mechanisms to Therapeutic Approaches Chairpersons: C. Fuchs - B. De Filippis	Trumpet Area 3+4, Centro Congressi Perugia
16:45	Searching for functional biomarkers in models of neurodevelopmental disorders Raffaele Mazziotti (<i>University of Firenze</i>)	
17:10	Pharmacological targeting of the serotonergic system as a promising therapeutic approach for CDKL5 deficiency disorder Laura Gennaccaro (<i>University of Bologna</i>)	
17:35	Pharmacological stimulation of the serotonin receptor 7 substantially rescues behavioral, molecular and brain mitochondrial alterations in a mouse model of Rett syndrome Daniele Vigli (<i>Center for Behavioral Sciences and Mental Health, Istituto Superiore di Sanità, Rome</i>)	
18:00	Modulation of Rho GTPases-dependent signaling pathways as an innovative therapeutic strategy for CDKL5 deficiency disorder Bianca De Filippis (<i>Center for Behavioral Sciences and Mental Health, Istituto Superiore di Sanità, Rome</i>)	
16:45 – 18:25	Symposium 21: New central and peripheral pharmacological targets potentially involved in amyotrophic lateral sclerosis Chairpersons: T. Bonifacino - C. Bendotti	Sax Area 2+3, Centro Congressi Perugia
16:45	New biomarkers in amyotrophic lateral sclerosis: analysis of the biophysical properties and gene expression in skeletal muscle of SOD1 mouse models to identify new therapeutic approach Sabata Pierno (<i>University of Bari "Aldo Moro"</i>)	
17:10	Chronic administration of the NCX activator Neuounina improves survival and motor performances in ALS SOD1G93A mice Serenella Anzilotti (<i>IRCCS SDN, Naples</i>)	
17:35	Knocking out mGluR5 attenuates the reactive phenotype of spinal cord astrocytes from the SOD1G93A mouse model of ALS Tiziana Bonifacino (<i>University of Genova</i>)	
18:00	C9orf72 dipeptide repeats interact with molecular motors and perturb axonal transport Laura Fumagalli (<i>KU Leuven Vesalius Research Center – VIB, Leuven, Belgium</i>)	
18:25	General Assembly:	Auditorium, Centro Congressi Perugia
20:30	Social Dinner	

Sunday, September 29, 2019

8:30 – 9:15	Plenary Lecture: Brain-machine interfaces: from basic science to neurological rehabilitation M. Â. L. Nicolelis (<i>Duke University, Durham, North Carolina, USA</i>) Chairperson: A. Genovesio	Auditorium, Centro Congressi Perugia
9:15 – 10:55	Symposium 22: Neuroimaging and Connectomics in the era of Precision Psychiatry Chairpersons: U. Volpe - W. Fratta	Auditorium, Centro Congressi Perugia
9:15	Negative Symptoms and alterations in structural and functional connectivity within the reward neural circuit Giulia Giordano (<i>University of Campania Luigi Vanvitelli</i>)	
9:40	Multimodal neuroimaging to investigate the regulation of dopamine function in schizophrenia Enrico D'Ambrosio (<i>University of Bari "Aldo Moro" / King's College, London</i>)	
10:05	Resilience and genetic risk for psychosis: a connectomic study of gyrification Annabella Di Giorgio (<i>Polytechnic University of Marche, Ancona</i>)	
10:30	Electroconvulsive treatment modulates the dynamics of Large Scale Brain Networks: a resting state functional connectivity study Fabio Sambataro (<i>University of Udine</i>)	
9:15 – 10:55	Symposium 23: New perspectives in the pathogenesis of Neurological Disorders: the point of view of intracellular compartments Chairpersons: A. Scorziello - M. Schwartz	Trumpet Area 1+2, Centro Congressi Perugia
9:15	Siah2 E3 ubiquitin ligase and mNCK3 two novel players in the regulation of mitochondrial morphology and function in hypoxic neurons Antonella Scorziello (<i>University of Naples Federico II</i>)	
9:40	Alpha-synuclein is a key regulator of mitochondrial fusion and function in neuronal cells: new insights into the pathogenesis of Lewy body disorders Gaia Faustini (<i>University of Brescia</i>)	
10:05	Microtubule dysfunction in Parkinson's disease: from pure protein to human brain Graziella Cappelletti (<i>University of Milano</i>)	
10:30	Alteration of endosomal trafficking in SYNJ1-associated early-onset parkinsonism Simona Paladino (<i>University of Naples Federico II</i>)	

9:15 – 10:55	Symposium 24: Astroglial cells in genetic diseases Chairpersons: S. Ferroni - A. Maggi	Trumpet Area 3+4, Centro Congressi Perugia
9:15	Emerging role of inwardly-rectifying K ⁺ channels in autism Mauro Pessia (<i>University of Perugia</i>)	
9:40	Astrocytes: new stars in leukodystrophy pathogenesis Elena Ambrosini (<i>Department of Neuroscience, Istituto Superiore di Sanità ISS, Rome</i>)	
10:05	Regulation of astrocytic chloride channels in health and disease Raúl Estévez (<i>IDIBELL-Universitat de Barcelona</i>)	
10:30	Kidins220/ARMS controls astrocyte signaling and neuron-astrocyte communication Fabrizia Cesca (<i>University of Trieste / Italian Institute of Technology IIT, Genoa</i>)	
10:55 - 11:15	Coffee Break	
11:15 – 12:00	Plenary Lecture: Brain Sexual dimorphism: a question of sex or gender? A. Maggi (<i>Department of Pharmacological and Biomolecular Sciences, University of Milano, Italy</i>) Chairperson: A. Poletti	Auditorium, Centro Congressi Perugia
12:00 – 13:40	Symposium 25: The dopaminergic system in neurodegenerative diseases: experimental and clinical investigations Chairpersons: M. D'Amelio - G. Di Chiara	Trumpet Area 1+2, Centro Congressi Perugia
12:00	Degeneration of mesolimbic dopamine pathways in a mouse model of AD: the role of ventral tegmental area Annalisa Nobili (<i>IRCCS Santa Lucia Foundation and University Campus Bio-medico, Rome</i>)	
12:25	Dopaminergic dysfunction in the ventro tegmental- mesocortical pathways in AD: a structural and molecular imaging study Silvia Caminiti (<i>San Raffaele Scientific Institute, Milan</i>)	
12:50	Dopaminergic potentiation of impaired cortical plasticity in AD patients: from neurophysiological observations to clinical trials Giacomo Koch (<i>Tor Vergata Policlinic, Rome</i>)	
13:15	Neuroimaging evidence for dopaminergic contribution to AD pathophysiology in patients at different disease stages Marco Bozzali (<i>IRCCS Santa Lucia Foundation</i>)	
12:00 – 13:40	Symposium 26: Use of novel cutting edge techniques: a multidisciplinary approach to investigate neural circuits of memory and fear processing Chairpersons: G. Sciamanna - M. Â. L. Nicoletis	Trumpet Area 3+4, Centro Congressi Perugia
12:00	The neural circuits in fear processing and extinction: an optogenetic approach Giuseppe Sciamanna (<i>University of Rome Tor Vergata</i>)	
12:25	Conditional mouse mutants, electrophysiology and behavioral analysis for the understanding of cerebellar function and dysfunctions Giorgio Grasselli (<i>Italian Institute of Technology IIT, Genoa</i>)	
12:50	An innovative treatment by optogenetic stimulation to foster anxiety modulation needed for extinction and emotional processing in trauma-related pathologies Daniela Laricchiuta (<i>IRCCS Fondazione Santa Lucia, Rome</i>)	
13:15	Eternal sunshine of the spotless mind! Transcranial Magnetic stimulation over dorsolateral prefrontal cortices erases human fear responses and prevents the return of fear Borgomaneri Sara (<i>University of Bologna / Centre for studies and researches in Cognitive Neuroscience, Cesena</i>)	
13:40	Farwell Lunch	