



# ITALIAN SOCIETY OF NEUROSCIENCE

## 2007 Congress

**Verona, Italy**

**September 27-30, 2007**

**Palazzo della Ragione e Palazzo della Gran Guardia**



**Programme**



## Italian Society of Neuroscience - 2007 Congress

### President of the Congress

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# ITALIAN SOCIETY FOR NEUROSCIENCE

## 2007 Congress



Verona  
September 27 - 30, 2007  
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### Programme



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## Index

### Evento speciale

<i>Le neuroscienze dello sport: cervelli di elite per atleti di elite</i> .....	9
---	---

Simultaneous parallel recording with multielectrode devices (MEA): new avenues for basic research and investigations of genetic/neurodegenerative diseases and pharmacology.....	10
--	----

Opening ceremony.....	11
-----------------------	----

### Honorary lecture

<i>Brain, body and mind</i> .....	11
-----------------------------------	----

The concept of brain in contemporary neuroscience .....	12
---	----

Cognitive neuroscience of social interaction.....	12
---	----

Advancements in neuroendocrine and autonomic control of metabolic functions and their pathological significance.....	13
--	----

Neuropeptide systems as novel targets for psychiatric disorders .....	13
---	----

Glutamate receptors and their deep evolutionary history in invertebrates .....	14
--	----

Brain ischemia and gene expression: new perspectives for the development of neuroprotective therapeutic strategy.....	14
---	----

The vulnerable brain: environmental contaminants and mental health .....	15
--	----

The biological and neuropsychological background of eating disorders: interactions with environmental risk factors .....	15
--	----

Is the neuro-developmental transcription code recapitulated following axonal injury? .....	16
--	----

Mechanisms of epileptogenesis and neuronal cell death in temporal lobe epilepsy .....	16
---	----

New roles for ATP in brain diseases .....	17
---	----

Functions of the corpus callosum: new insights from human studies .....	17
---	----

### Plenary lecture

<i>Intrinsic brain activity: a key to understand the mind?</i> .....	18
--	----

Posters.....	19
--------------	----

### Awarding of Prize for Young Italian Investigators sponsored by Istituto Nazionale di Neuroscienze

<i>Lecture of the winner: Small-scale algorithms for sensory processing in humans</i> .....	25
---	----

Nicotinic receptors and cholinergic neurotransmission .....	26
---	----

New insights into the basic mechanisms of Rett syndrome .....	26
---	----

Local regulation of neuronal morphology and function: new roles for evolutionary old rna-binding proteins .....	27
---	----

The body schema: neurophysiological correlates and neuropsychological impairments .....	27
---	----

### Honorary lecture

<i>Adult neuronal connections emerge as an outcome of assembly, disassembly and activity-dependent processes</i> .....	28
--	----

### Tavola rotonda aperta a tutta la cittadinanza

<i>Cellule staminali: aspetti bioetici</i> .....	29
--	----

Regulatory mechanisms underlying neural development .....	30
---	----

Alcohol-derived acetaldehyde: the hidden addictive compound .....	30
---	----

Receptor trafficking in neuronal plasticity .....	31
---	----

---

Functional magnetic resonance imaging in brain function and disfunction.....	31
Constructing postsynaptic assemblies: insights from excitatory and inhibitory synapses.....	32
Altered white matter communication in major psychoses: a possible common endophenotypes for schizophrenia and bipolar disorder? .....	32
Olfaction: from the nose to the brain.....	33
Action development in the brain: from visual perception to movement generation.....	33
Plenary lecture	
<i>Addiction: neurobiology of disrupted free will.....</i>	34
Posters .....	35
New methods for imaging of neural networks.....	41
Central mechanisms of pain modulation; recent advances .....	41
Mental retardation genes and synaptic dysfunctions .....	42
Representation of static and acting bodies and identification of self as distinct from others.....	42
Plenary lecture	
<i>Synaptic differentiation and specificity in mutant and fluorescent mice.....</i>	43
Neuroplasticity and drug addiction.....	44
Peripheral neuropathies: from animals to man .....	44
Mitochondrial dysfunction and oxidative stress in neurodegenerative diseases.....	45
TMS-EEG: a new window on the human brain .....	45
Synaptic vesicles and epilepsy .....	46
Amyloid toxicity in central and peripheral nervous system .....	46
New advances on movement disorders: from genetics to cognitive functions.....	47
The plasticity of face and object representations in the primate temporal lobe .....	47
Plenary lecture	
<i>The neurobiology of the placebo effect.....</i>	48
Posters .....	49
Mechanisms of neuronal degeneration.....	55
Neuroinflammation at the crossroad of neurosciences .....	56
Targeting wnt and hedgehog pathways in neurodegeneration and neuroproliferation .....	56
Multisensory space and attention: insights from the neglect syndrome .....	57
Plenary lecture	
<i>Multiple sclerosis: from neuropathology to neuroimmunology.....</i>	58
Conferenza aperta a tutta la cittadinanza	
<i>L'invecchiamento cerebrale.....</i>	59

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## Time table



### Italian Society of Neuroscience – 2007 Congress Verona, Italy - September 27-30, 2007

September, Thursday 27, 2007

From	To	Sala Mastino	Sala Cangrande	Sala Alboino	Sala Bartolomeo	Sala Colonne
10.00	13.00	<b>Evento speciale</b>				
10.30	12.30			<b>Workshop</b>		
		Ricerca scientifica nelle scienze motorie: dallo studio dei campioni sportivi il miglioramento della qualità della vita di tutti	Simposio: Le neuroscienze dello sport: cervelli di elite per atleti di elite	<i>Simultaneous parallel recording with multielectrode devices (MEA): new avenues for basic research and investigations of genetic/neurodegenerative diseases and pharmacology</i>		
16.00	16.30	<b>Opening Ceremony</b>				
16.30	17.30	<b>Honorary Lecture Giovanni Berlucchi (Italy) Brain, body and mind</b>				
17.30	19.00	<b>Symposium 1</b>	<b>Symposium 2</b>	<b>Symposium 3 (GISNe)</b>	<b>Symposium 4</b>	
		The concept of brain in contemporary neuroscience	Cognitive neuroscience of social interaction	Advancements in neuroendocrine and autonomic control of metabolic functions and their pathological significance	Neuropeptide systems as novel targets for psychiatric disorders	
From	To	GRAN GUARDIA Auditorium				
19.45	20.30	<b>Concert</b>				
20.30		<b>Welcome Dinner</b>				



**Italian Society of Neuroscience – 2007 Congress**  
**Verona, Italy - September 27-30, 2007**

**September, Friday 28, 2007**

From	To	Sala Mastino	Sala Cangrande	Sala Alboino	Sala Bartolomeo	Sala Colonne
8.30	10.00	<b>Symposium 5</b>	<b>Symposium 6</b>	<b>Symposium 7</b>	<b>Symposium 8</b>	
		Glutamate receptors and their deep evolutionary history in invertebrates	Brain ischemia and gene expression: new perspectives for the development of neuroprotective therapeutic strategy	The vulnerable brain: environmental contaminants and mental health	The biological and neuropsychological background of eating disorders: interactions with environmental risk factors	
10.00	10.30	<b>Break</b>	<b>Break</b>	<b>Break</b>	<b>Break</b>	
10.30	12.00	<b>Symposium 9</b>	<b>Symposium 10</b>	<b>Symposium 11</b>	<b>Symposium 12</b>	
		Is the neuro-developmental transcription code recapitulated following axonal injury?	Mechanisms of epileptogenesis and neuronal cell death in temporal lobe epilepsy	New roles for ATP in brain diseases	Functions of the corpus callosum: new insights from human studies	
12.00	13.00	<b>Plenary Lecture</b> <b>Maurizio Corbetta (USA)</b> <i>Intrinsic brain activity: a key to understand the mind?</i>				
13.00	14.30					<b>Posters</b>
14.30	15.30	Awarding of prize for Young Italian Investigators sponsored by Istituto Nazionale di Neuroscienze				
15.30	17.00	<b>Symposium 13</b>	<b>Symposium 14</b>	<b>Symposium 15</b>	<b>Symposium 16</b>	
		Nicotinic receptors and cholinergic neurotransmission	New insights into the basic mechanisms of Rett syndrome	Local regulation of neuronal morphology and function: new roles for evolutionary old RNA-binding proteins	The body schema: neurophysiological correlates and neuropsychological impairments	
17.00	18.00	<b>Honorary Lecture</b> <b>Alberto Cangiano (Italy)</b> <i>Adult neuronal connections emerge as an outcome of assembly, disassembly and activity-dependent processes</i>				
From	To	GRAN GUARDIA Auditorium				
20.30	22.30	Tavola rotonda aperta a tutta la cittadinanza <b>Cellule staminali: aspetti bioetici</b> Piergiorgio Strata, Mons. Ersilio Tonini moderatrice: Adriana Cavarero				



**Italian Society of Neuroscience – 2007 Congress**  
**Verona, Italy - September 27-30, 2007**

**September, Saturday 29, 2007**

From	To	Sala Mastino	Sala Cangrande	Sala Alboino	Sala Bartolomeo	Sala Colonne
8.30	10.00	<b>Symposium 17</b>	<b>Symposium 18</b>	<b>Symposium 19</b>	<b>Symposium 20</b>	
		Regulatory mechanisms underlying neural development	Alcohol-derived acetaldehyde: the hidden addictive compound	Receptor trafficking in neuronal plasticity	Functional magnetic resonance imaging in brain function and dysfunction	
10.00	10.30	<b>Break</b>	<b>Break</b>	<b>Break</b>	<b>Break</b>	
10.30	12.00	<b>Symposium 21</b>	<b>Symposium 22</b>	<b>Symposium 23</b>	<b>Symposium 24</b>	
		Constructing postsynaptic assemblies: insights from excitatory and inhibitory synapses	Altered white matter communication in major psychoses: a possible common endophenotypes for schizophrenia and bipolar disorder?	Olfaction: from the nose to the brain	Action development in the brain: from visual perception to movement generation	
12.00	13.00	<b>Plenary Lecture</b> <b>Nora Volkow (USA)</b> <i>Addiction: neurobiology of disrupted free will</i>				
13.00	15.00					<b>Poster</b>
15.00	17.00	<b>Workshop</b> (Leica, Crisell)				
15.30	17.00	New methods for imaging of neural networks	<b>Symposium 25</b>	<b>Symposium 26</b>	<b>Symposium 27</b>	
			Central mechanisms of pain modulation; recent advances	Mental retardation genes and synaptic dysfunctions	Representation of static and acting bodies and identification of self as distinct from others	
17.00	18.00	<b>Plenary Lecture</b> <b>Joshua Sanes (USA)</b> <i>Synaptic differentiation and specificity in mutant and fluorescent mice</i>				
18.00	19.30	<b>General Assembly</b>				
20.30		<b>Social Dinner</b>				



**Italian Society of Neuroscience – 2007 Congress**  
**Verona, Italy - September 27-30, 2007**

**September, Sunday September 30, 2007**

From	To	Sala Mastino	Sala Cangrande	Sala Alboino	Sala Bartolomeo	Sala Colonne	
8.30	10.00	<b>Symposium 28</b>	<b>Symposium 29</b>	<b>Symposium 30</b>	<b>Symposium 31</b>		
		Neuroplasticity and drug addiction	Peripheral neuropathies: from animals to man	Mitochondrial dysfunction and oxidative stress in neurodegenerative diseases	TMS-EEG: a new window on the human brain		
10.00	10.30	<b>Break</b>	<b>Break</b>	<b>Break</b>	<b>Break</b>		
10.30	12.00	<b>Symposium 32</b>	<b>Symposium 33 (SINS,SIN)</b>	<b>Symposium 34</b>	<b>Symposium 35</b>		
		Synaptic vesicles and epilepsy	Amyloid toxicity in central and peripheral nervous system	New advances on movement disorders: from genetics to cognitive functions	The plasticity of face and object representations in the primate temporal lobe		
12.00	13.00	<b>Plenary Lecture</b> Fabrizio Benedetti (Italy) <i>The neurobiology of the placebo effect</i>					
13.00	14.30					<b>Poster</b>	
14.30	17.00			<b>Workshop</b>			
15.00	17.00		<b>Symposium 36 (AINI, AINP, SINS)</b>	<i>Mechanisms of neuronal degeneration</i>			
15.30	17.00	<b>Symposium 37</b>	Targeting wnt and hedgehog pathways in neurodegeneration and neuroproliferation		<b>Symposium 38</b>		
					Multisensory space and attention: insights from the neglect syndrome		
17.00	18.00	<b>Plenary Lecture</b> Claudia Lucchinetti (USA) <i>Multiple sclerosis: from neuropathology to neuroimmunology</i>					
From	To	GRAN GUARDIA Auditorium					
20.30	22.30	Conferenza aperta a tutta la cittadinanza L'invecchiamento cerebrale Marco Trabucchi					

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**September, Thursday 27, 2007**

**SALA MASTINO E SALA CANGRANDE**

**10.00 - 13.00**

**EVENTO SPECIALE**

**RICERCA SCIENTIFICA NELLE SCIENZE MOTORIE: DALLO STUDIO DEI CAMPIONI SPORTIVI IL  
MIGLIORAMENTO DELLA QUALITÀ DELLA VITA DI TUTTI**

**G. Fumagalli** (Preside della Facoltà di Scienze Motorie di Verona)

**G. Lolli** (Sottosegretario al Ministero dello Sport e delle Politiche Giovanili)

**LE NEUROSCIENZE DELLO SPORT: CERVELLI DI ELITE PER ATLETI DI ELITE**

Chairman: **P. Cesari** (Verona - Italy)

Il calcio di rigore: strategie cognitive e livello della performance

**T. Agostini** (Trieste - Italy)

La funzione visio-motoria nel tiro a segno: uno studio di psicofisica

**D. Spinelli** (Rome - Italy)

Correlati elettroencefalografici di meccanismi neuronali di inibizione in atleti di elite: studi su schermitori e pugili

**F. Di Russo** (Rome - Italy)

Sistemi di risonanza motoria in giocatori professionisti di pallacanestro: studi di psicofisica e di TMS

**P. Cesari** (Verona - Italy)

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**September, Thursday 27, 2007**

**SALA ALBOINO**

**10.30 - 12.30**

**WORKSHOP**

**SIMULTANEOUS PARALLEL RECORDING WITH MULTIELECTRODE DEVICES (MEA): NEW AVENUES FOR BASIC RESEARCH AND INVESTIGATIONS OF GENETIC/NEURODEGENERATIVE DISEASES AND PHARMACOLOGY**

Chairmen: **E. Wanke** (Milan - Italy) **E. D'Angelo** (Pavia - Italy)

Changes of gene expression and of electrical properties in rat hippocampal neuronal cultures induced by blockage of GABAergic synaptic pathways

**V. Torre** (Trieste - Italy)

Network dynamics and plasticity in cortical neurons cultured on micro-electrode arrays

**M. Chiappalone** (Genoa - Italy)

MEA recording techniques reveal the spatial organization of long-term synaptic plasticity at the input stage of cerebellum

**J. Mapelli** (Pavia - Italy)

Novel strategies for studying activity-dependent plasticity and channelopathies

**E. Wanke** (Milan - Italy)

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**September, Thursday 27, 2007**

**SALA MASTINO E SALA CANGRANDE**

**16.00 - 16.30**

**OPENING CEREMONY**

**16.30 - 17.30**

**HONORARY LECTURE**

Chairman: **C.A. Marzi** (Verona - Italy)

Brain, body and mind

**G. Berlucchi** (Verona - Italy)

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**September, Thursday 27, 2007**

**SALA MASTINO**

**17.30 - 19.00**

**SYMPOSIUM 1**

**THE CONCEPT OF BRAIN IN CONTEMPORARY NEUROSCIENCE**

Chairman: **M. Morelli** (Cagliari - Italy)

Invertebrate animal models for the study of functional and neurochemical interactions: translation to humans

**F. E. Pontieri** (Rome - Italy)

Brain homologies from birds to humans

**G. Paxinos** (Sydney - Australia)

Genes, sleep and the "brain" of flies

**M. Bentivoglio** (Verona - Italy)

An android for enhancing social skills and emotion recognition in people with autism

**D. De Rossi** (Pisa - Italy)

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**SALA CANGRANDE**

**17.30 - 19.00**

**SYMPOSIUM 2**

**COGNITIVE NEUROSCIENCE OF SOCIAL INTERACTION**

Chairman: **E. Làdavas** (Bologna - Italy)

Actions understanding: neurophysiological mechanisms

**M. A. Umiltà** (Parma - Italy)

The sensorimotor side of empathy for pain

**A. Avenanti** (Bologna - Italy)

Reading motor intentions in another person's gaze

**U. Castiello** (Padua - Italy)

The role of the medial frontal cortex in social decision-making

**G. Di Pellegrino** (Bologna - Italy)

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September, Thursday 27, 2007

SALA ALBOINO

17.30 - 19.00

**SYMPORIUM 3**

**Gruppo Italiano di Scienze Neuroendocrine (GISNe)**

**ADVANCEMENTS IN NEUROENDOCRINE AND AUTONOMIC CONTROL OF METABOLIC FUNCTIONS AND THEIR PATHOLOGICAL SIGNIFICANCE**

Chairmen: **A. Bartolomucci** (Parma - Italy) **A. Moles** (Rome - Italy) **E. E. Müller** (Milan - Italy)

Pathophysiological significance of endocannabinoids and their analogues

**S. Gaetani** (Rome - Italy)

Pathophysiological significance of VGF-derived peptides

**R. Possenti** (Rome - Italy) **A. Bartolomucci** (Parma - Italy)

Gut peptides and appetite pathophysiology

**A. Torsello** (Monza - Italy)

Pathological behavioural and metabolic effects of new atypical antipsychotic drugs

**A. Moles** (Rome - Italy)

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SALA BARTOLOMEO

17.30 - 19.00

**SYMPORIUM 4**

**NEUROPEPTIDE SYSTEMS AS NOVEL TARGETS FOR PSYCHIATRIC DISORDERS**

Chairman: **L. Caberlotto** (Verona - Italy)

Neuropeptide receptors as drug targets in neuropsychiatric disorders: opportunities and challenges

**D. Hoyer** (Basel - Switzerland)

NPY and mood disorders: role of the different receptors subtypes

**E. Zambello** (Verona - Italy)

Neuropeptide S and its implication for sleep disorders

**A. Roth** (Verona - Italy)

8.30 - 10.00

**SYMPOSIUM 5**

**GLUTAMATE RECEPTORS AND THEIR DEEP EVOLUTIONARY HISTORY IN INVERTEBRATES**

Chairmen: **E. R. Brown** (Naples - Italy) **A. Di Cosmo** (Naples - Italy)

Evolution of glutamate receptors; focus on non-vertebrate chordates

**E. R. Brown** (Naples - Italy)

L-Glutamate and its ionotropic receptors in the nervous system of cephalopods

**A. Di Cosmo** (Naples - Italy)

Neurobiology and evolution of Ionotropic Glu Receptors in Gastropod Molluscs: genomic perspectives

**L. Moroz** (Florida - USA)

Glutamate receptor auxiliary proteins in vertebrates and invertebrates

**M. Hollmann** (Bochum - Germany)

8.30 - 10.00

**SYMPOSIUM 6**

**BRAIN ISCHEMIA AND GENE EXPRESSION: NEW PERSPECTIVES FOR THE DEVELOPMENT OF NEUROPROTECTIVE THERAPEUTIC STRATEGY**

Chairmen: **L. Annunziato** (Naples - Italy) **F. Moroni** (Florence - Italy)

Pharmacological manipulation of Histone Deacetylases (HDAC): impact on gene expression during brain ischemia and neuroinflammation

**A. Chiarugi** (Florence - Italy)

Signaling through the scavenger receptor CD36 regulates post-ischemic gene expression and ischemic brain injury

**C. Iadecola** (New York - USA)

Identification of the transcription factors modulating ncx1 gene expression in the brain

**V. Valsecchi** (Naples - Italy)

NF-kappaB transcription complexes diversely regulate neuronal cell gene expression and vulnerability to the post-ischemic injury

**I. Sarnico** (Brescia - Italy)

8.30 - 10.00

**SYMPORIUM 7**

**THE VULNERABLE BRAIN: ENVIRONMENTAL CONTAMINANTS AND MENTAL HEALTH**

Chairman: **G. Calamandrei** (Rome - Italy)

Food contaminants and human neurodevelopmental disease: a weight-of-the-evidence review of experimental data on methylmercury

**L. Manzo** (Pavia - Italy)

Genetic and environmental causes of neurodegenerative diseases

**L. Migliore** (Pisa - Italy)

Maternal exposure to endocrine disrupting chemicals: effects on behavioral development

**P. Palanza** (Parma - Italy)

Developmental exposure to organophosphorous pesticides and animal models of emotional/social disorders

**L. Ricceri** (Rome - Italy)

8.30 - 10.00

**SYMPORIUM 8**

**THE BIOLOGICAL AND NEUROPSYCHOLOGICAL BACKGROUND OF EATING DISORDERS: INTERACTIONS WITH ENVIRONMENTAL RISK FACTORS**

Chairmen: **S. Galderisi** (Naples - Italy) **A. Tortorella** (Naples - Italy)

Effortful and automatic processing in patients with eating disorder

**A. Mucci** (Naples - Italy)

Neurodevelopmental and perinatal risk factors in anorexia nervosa and bulimia nervosa

**A. Favaro** (Padua - Italy)

Early experiences as a risk factors for obesity and eating disorders in mice

**F. R. D'Amato** (Rome - Italy)

Leptin-activated molecular mechanisms in the control of eating behaviour

**P. Magni** (Milan - Italy)

The 3111T/C polymorphism of the CLOCK gene in patients with anorexia nervosa and bulimia nervosa

**A. Tortorella** (Naples - Italy)

10.30 - 12.00

**SYMPORIUM 9**

**IS THE NEURO-DEVELOPMENTAL TRANSCRIPTION CODE RECAPITULATED FOLLOWING AXONAL INJURY?**

Chairman: **S. Di Giovanni** (Tübingen - Germany)

P53 dependent transcriptional control of axon growth

**S. Di Giovanni** (Tübingen - Germany)

The role of Serum Response Factor (SRF) in nervous system development and pathology

**B. Knöll** (Tübingen - Germany)

NFAT signaling in neural development and function

**G. Crabtree** (Stanford - USA)

Control of neuronal cell fate by interaction Brn-3a transcription factor with p53 family

**V. Budhram-Mahadeo** (London - UK)

Dissecting the role of COUP-TFI: conditional approach to study regional identity, axon guidance and neuronal migration in the forebrain

**M. C. Studer** (Naples - Italy)

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**SALA CANGRANDE**

10.30 - 12.00

**SYMPORIUM 10**

**MECHANISMS OF EPILEPTOGENESIS AND NEURONAL CELL DEATH IN TEMPORAL LOBE EPILEPSY**

Chairmen: **Y. Bozzi** (Pisa - Italy) - **P. F. Fabene** (Verona - Italy)

Apoptosis signalling pathways in seizure-induced neuronal death and epileptogenesis

**D. C. Henshall** (Dublin - Ireland)

Seizure-induced brain damage, synaptic reorganization, and the latent period of epileptogenesis

**R. S. Sloviter** (Tucson - USA)

Neuroinflammation and leukocyte recruitment in epilepsy

**P. F. Fabene** (Verona - Italy)

Botulinum neurotoxin e type (BoNT/E) prevents granule cell dispersion but not epileptogenesis in a mouse model of temporal lobe epilepsy

**F. Antonucci** (Pisa - Italy)

10.30 - 12.00

**SYMPOSIUM 11**

**NEW ROLES FOR ATP IN BRAIN DISEASES**

Chairmen: **C. Verderio** (Milan - Italy) **L. Galli-Resta** (Pisa - Italy)

The P2X<sub>7</sub> receptor: a mastermind of inflammation

**F. Di Virgilio** (Ferrara - Italy)

P2X<sub>7</sub>-mediated vesicle shedding in glial cells

**C. Verderio** (Milan - Italy)

Do ionotropic ATP receptors contribute to the signalling at neuron-glia-synapses of the hippocampal CA1 subfield?

**R. Jabs** (Bonn - Germany)

On the role of the P2X<sub>7</sub> receptor in astrocyte-neuron crosstalk

**G. Carmignoto** (Padua - Italy)

Extracellular ATP mediates rapid retinal ganglion cell injury induced by intraocular pressure spikes

**L. Galli-Resta** (Pisa - Italy)

10.30 - 12.00

**SYMPOSIUM 12**

**FUNCTIONS OF THE CORPUS CALLOSUM: NEW INSIGHTS FROM HUMAN STUDIES**

Chairmen: **M. Di Stefano** (Pisa - Italy) **M. Fabri** (Ancona - Italy)

DTI study of the principal interhemispheric connection in healthy individuals and in patients after callosotomy

**F. Pizzini** (Verona - Italy)

Role of the corpus callosum in the interhemispheric transfer of somatosensory information: fMRI and neuropsychological studies on callosotomised patients

**M. Fabri** (Ancona - Italy)

Tactile and gustatory representations of the tongue in the two hemispheres

**G. Mascioli** (Ancona - Italy)

Brain lateralization in acallosal patients

**M. Lassonde** (Montreal - Canada)

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**September, Friday 28, 2007**

**SALA MASTINO E SALA CANGRANDE**

**12.00 - 13.00**

**PLENARY LECTURE**

Chairman: **G. Berlucchi** (Verona - Italy)

Intrinsic brain activity: a key to understand the mind?

**M. Corbetta** (St. Louis - USA)

**POSTERS**

**DEVELOPMENT**

- FRI-01 BDNF GENE IS A DOWNSTREAM TARGET OF NURR1 TRANSCRIPTION FACTOR IN RAT MIDBRAIN NEURONS IN VITRO  
**Volpicelli F.**, Caiazzo M., Greco D., Consales C., Leone L., Colucci D'Amato L., Perrone-Capano C., di Porzio U.
- FRI-02 SYNAPSE ASSEMBLY IN TRANSGENIC MICE LACKING A MAJOR GABA<sub>A</sub> RECEPTOR SUBUNIT  
**Patrizi A.**, Viltno L., Varoqueaux F., Brose N., Fritschy J.M., Sassoè-Pognetto M.
- FRI-03 REDUCED NEURON NUMBER IN THE HIPPOCAMPAL FORMATION OF FETUSES WITH DOWN SYNDROME  
**Guidi S.**, Bonasoni P., Ceccarelli C., Santini D., Gualtieri F., Ciani E., Bartesaghi R.
- FRI-04 MESENCHYMAL STEM CELL NEUROTROPHIC EFFECTS ON HIPPOCAMPAL NEURONS AND ASTROCYTES  
**Lentini D.**, Secci E., Gravati M., Biella G., Toselli M., Parenti M., Coco S.
- FRI-05 NEURITIN (CPG15) ENHANCES THE DIFFERENTIATING EFFECT OF NGF ON NEURONAL PC12 CELLS  
**Galbiati M.**, Cappelletti G., Ronchi C., Cartelli D., Onesto E., Poletti A.
- FRI-06 VEGF AND SEMAPHORINS MODULATE THE MIGRATION OF GnRH-SECRETING NEURONS: LINK WITH THE BLOOD VESSELS?  
**Cariboni A.**, de Agazio F., Parnavelas J., Maggi R.
- FRI-07 ENVIRONMENTAL ENRICHMENT INCREASES EARLY NEUROGENESIS IN THE DENTATE GYRUS OF THE GUINEA PIG  
**Rizzi S.**, Bianchi P., Guidi S., Ciani E., Bartesaghi R.
- FRI-08 NEUROTROPHIC EFFECTS OF BASIC FIBROBLAST GROWTH FACTOR ON CULTURED PARASYMPATHETIC NEURONS: THE ROLE OF PLC AND ERK PATHWAYS  
**Zamburlin P.**, Gilardino A., Farcito S., Audisio C., Dalmazzo S., Lovisolo D.
- FRI-09 CONDITIONAL EXPRESSION OF GLI1 IN THE BRAIN INCREASES NEURAL STEM CELL PROLIFERATION AND SELF-RENEWAL  
**Stecca B.**, Ruiz i Altaba A.
- FRI-10 IN VITRO EXPOSURE TO THYROID HORMONE FAVOURS OLIGODENDROGLIAL LINEAGE OF RAT EMBRYONIC, SKIN AND NEURAL STEM CELLS  
**Fernández M.**, Pirondi S., Paradisi M., Del Vecchio G., Giardino L., Calzà L.
- FRI-11 CHOLINERGIC CONTROL OF SCHWANN CELL DIFFERENTIATION IS DEPENDENT ON ACh RELEASED BOTH FROM AXON AND GLIAL CELL  
**Loreti S.**, Tassone A., Magnaghi V., Corsetti V., Biagioli S., Augusti-Tocco G., Tata A.M.
- FRI-12 ACETYLCHOLINE-INDUCED NEURONAL DIFFERENTIATION: MUSCARINIC RECEPTOR ACTIVATION MODULATES EGR-1 AND REST LEVELS  
**Anelli T.**, Augusti-Tocco G., Mannello F., Poiana G., Tata A.M., Tonti G.A., Biagioli S.
- FRI-13 EFFECT OF HIGH FREQUENCY ELECTROMAGNETIC FIELD EXPOSURE ON CELLULAR MODELS FOR NEURODEGENERATIVE DISEASE  
**Del Vecchio G.**, Giuliani A., Fernandez M., Lovisolo G.A., Mesirca P., Bersani F., Giardino L., Calzà L.
- FRI-14 TRANSIENT SYNAPTIC SILENCING OF DEVELOPING STRIATE CORTEX HAS PERSISTENT EFFECTS ON VISUAL FUNCTION AND PLASTICITY  
**Restani L.**, Gianfranceschi L., Rossi C., Costantini L., Rossetto O., Montecucco C., Caleo M., Maffei L.
- FRI-15 TRPC CHANNELS EXPRESSION AND FUNCTIONAL ROLE IN DEVELOPING NEUROSECRETORY CELLS  
**Dalmazzo S.**, Ariano P., Antoniotti S., Gilardino A., Giacobini P., Ricci L., Lovisolo D.

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- FRI-16 DEVELOPMENT AND PLASTICITY IN NETWORKS OF NEURONS GROWN ONTO MICROPATTERNED SUBSTRATES  
**Messa M.**, Marconi E., Baldelli P., Benfenati F.
- FRI-17 ROLE OF MAPKs IN THE RAT VISUAL SYSTEM DEVELOPMENT  
**Spigolon G.**, Amodeo E., Tonoli E., Vercelli A.
- FRI-18 LONG TERM DARK REARING INDUCES PERMANENT MORPHO-FUNCTIONAL RETINAL MODIFICATIONS  
**Di Marco S.**, Nguyen V., Maccarone R., Protti D., Bisti S.
- FRI-19 ANALYSIS OF THE WHISKER-TO-BARREL PATHWAY IN A MICROENCEPHALIC MOUSE  
**Muzzi P.**, Martinuzzi D., Di Cunto F., Vercelli A.
- FRI-20 HOW THE RELATIVE ACTIVITY PATTERN OF REINNERVATING MOTONEURONS AFFECTS SYNAPSE COMPETITION AND ELIMINATION IN THE ADULT MAMMALIAN MUSCLE  
**Favero M.**, Busetto G., Cangiano A.
- FRI-21 DICER EXPRESSION AND LOCALIZATION IN POST-MITOTIC NEURONS  
**Barbato C.**, Ciotti M.T., Serafino A., Calissano P., Cogoni C.
- FRI-22 INTERACTIONS BETWEEN SEX HORMONES, AGE AND REELIN GENE DOSAGE REGULATE PURKINJE CELL SURVIVAL DURING DEVELOPMENT  
**Biamonte F.**, Panteri R., Marino R., Caruso D., Crotti S., Melcangi R.C., Cesa R., Strata P., Yague J.G., Garcia-Segura L.M., Keller F.
- FRI-23 LEPTIN ACTION ON THE HYPOTHALAMUS OF POSTNATAL DEVELOPING MICE  
**Frontini A.**, Cinti S., Giordano A.
- FRI-24 Sema4D RECEPTOR REGULATES GONADOTROPIN HORMONE RELEASING HORMONE-1 (GnRH-1) NEURONAL MIGRATION THROUGH MET RECRUITMENT  
**Giacobini P.**, Messina A., Morello F., Tamagnone L., Giordano S., Fasolo A.
- FRI-25 EXTRACELLULAR GUANOSINE AND GTP INDUCE CELL GROWTH ARREST AND "MITOTIC SLIPPAGE" IN HUMAN SH-SY5Y NEUROBLASTOMA CELLS  
**Guarnieri S.**, Pilla R., Mancinelli R., Sacchetti S., Fanò G., Marigliò M.A.
- FRI-26 ASSOCIATION OF THE BRAIN-DERIVED-NEUROTROPHIC-FACTOR Val66Met POLYMORPHISM WITH REDUCED BDNF PROTEIN LEVELS IN AMNIOTIC FLUIDS  
**Cattaneo A.**, Marchina E., Zanardini R., Maj P.M., Moraschi S., Bocchio Chiavetto L., Riva M.A., Barlati S., Gennarelli M.

## NEUROANATOMY

- FRI-27 GLIAL EXPRESSION OF NICOTINIC ACETYLCHOLINE RECEPTORS IN THE MURINE CEREBRAL CORTEX  
**Consonni S.**, Leone S., Gandelli P., Beccetti A., Amadeo A.
- FRI-28 ANALYSIS OF P450Aro AND AND ESTROGEN RECEPTORS' mRNA EXPRESSION IN PRIMARY CELLS CULTURES FROM FETAL BOVINE BRAIN  
**Peruffo A.**, Ballarin C., Cozzi B.
- FRI-29 3-DIMENSIONAL ANALYSIS OF THE CELLULAR ORGANIZATION OF SUPRACHIASMATIC NUCLEUS IN TWO INBRED MOUSE STRAINS, C57BL/6n AND BALB/c, HAVING DIFFERENT CIRCADIAN LOCOMOTOR ACTIVITY FEATURES  
**Grillo D.**, Mangia F.
- FRI-30 EFFECTS OF RISPERIDONE TREATMENT ON SOMATOSTATIN-LIKE IMMUNOREACTIVE INTERNEURONS OF THE RAT ENTORHINAL CORTEX  
**De Nuccio F.**, Nicolardi G.
- FRI-31 HETEROGENEOUS EXPRESSION OF SNAP-25 IN RAT AND HUMAN BRAIN  
**Medici V.**, Garbelli R., Inverardi F., Amadeo A., Verderio C., Matteoli M., Frassoni C.

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- FRI-32 FOS-IMMUNOREACTIVE NEURONS IN THE LATERAL CENTRAL NUCLEUS OF AMYGDALA ACTIVATED BY HYPOTENSION WITH SPECIAL REFERENCE TO THE PARABRACHIAL NUCLEUS IN THE RAT  
**Takeuchi Y.**, Xie Q., Matsumoto Y., Warita K., Miki T.
- FRI-33 THE DEVELOPING MOUSE VOMERONASAL ORGAN: IMMUNOHISTOCHEMICAL INVESTIGATION OF EPITHELIAL MEMBRANE TRANSPORTERS  
**Merigo F.**, Mucignat-Caretta C., Zancanaro C.
- FRI-34 TRANSIENT CHOLINERGIC INNERVATION OF THE DEVELOPING SOMATOSENSORY MURINE THALAMUS  
**Amadeo A.**, Gandelli P., Leone S., Consonni S., Becchetti A.
- FRI-35 EFFECTS OF MK801 AND MPEP ADMINISTRATION ON FOS IMMUNOREACTIVITY IN A WATER T-MAZE MEMORY TASK IN THE RAT  
**Andrioli A.**, Locchi F., Colavito V., Dall'Olio R., Bertini G.
- FRI-36 ALTERATIONS OF SLEEP/WAKE REGULATORY PEPTIDERGIC NEURONS OF THE POSTERIOR HYPOTHALAMUS IN NEUROINFLAMMATORY CONDITIONS  
**Palomba M.**, Nygard M., Kristensson K., Bentivoglio M.
- FRI-37 EXPRESSION OF THE RECEPTOR PROTEIN TYROSINE PHOSPHATASE GAMMA IN MURINE NERVOUS SYSTEM  
**Lorenzetto E.**, Vezzalini M., Sorio C., Buffelli M.
- FRI-38 SOLUBLE FACTORS RELEASED FROM ASTROCYTES MODULATE THE INSULIN-LIKE GROWTH FACTOR RECEPTOR (IGF1-R) EXPRESSION IN CORTICAL NEURONS DURING IN VITRO SENESCENCE  
**Costantini C.**, Rossi F., Montresor A., Johansson J., Buffelli M., Della Bianca V.

## SYNAPTIC-CELLULAR PHYSIOLOGY AND PHARMACOLOGY

- FRI-39 DOPAMINE D3 RECEPTORS MEDIATE THE NEUROTROPHIC EFFECTS OF DOPAMINERGIC AGONISTS ON MESENCEPHALIC DOPAMINERGIC NEURONS  
**Collo G.**, Zanetti S., Missale C., Spano P.F.
- FRI-40 PERIAQUEDUCTAL GREY METABOTROPIC GLUTAMATE RECEPTOR SUBTYPE 7 AND 8 MEDIATE OPPOSITE EFFECTS ON AMINO ACID RELEASE, ROSTRAL VENTROMEDIAL MEDULLA CELL ACTIVITIES AND THERMAL NOCICEPTION  
**Vita D.**, Marabese I., Palazzo E., de Novellis V., Gatta L., Guida F., Rossi F., Maione S.
- FRI-41 EXPRESSION OF RELEASE-REGULATING 'GLIAL' GLYCINE TRANSPORTERS GLYT1 ON GABAergic NEURONS AND 'NEURONAL' TRANSPORTERS GLYT2 ON ASTROCYTES IN MOUSE SPINAL CORD  
**Raiteri L.**, Stigliani S., Paluzzi S., Usai C., Diaspro A., Raiteri M., Bonanno G.
- FRI-42 ROLE OF TRPV1 RECEPTORS IN THE MODULATION OF INHIBITORY NEUROTRANSMISSION IN SPINAL LAMINA II NEURONS  
**Ferrini F.**, Salio C., Lossi L., Merighi A.
- FRI-43 BRAIN CB1 AND TRPV1 RECEPTOR IMMUNOREACTIVITY IN AN ANIMAL MODEL OF HYPERDOPAMINERGIA(D3 RECEPTOR NULL MICE)  
**Cristino L.**, Micale V., De Petrocellis L., Tamburella A., Leggio G.M., Guglielmotti V., Drago F., Di Marzo V.
- FRI-44 MECHANISMS OF GLYCINE RELEASE FROM MOUSE SPINAL CORD SYNAPTOSONES  
**Luccini E.**, Raiteri L.
- FRI-45 SELECTIVE REGULATION OF [ $^3$ H]D-ASPARTATE RELEASE FROM HIPPOCAMPAL NERVE ENDINGS BY LARGE-CONDUCTANCE  $\text{Ca}^{2+}$ -AND VOLTAGE-ACTIVATED  $\text{K}^+$  (BKCA) CHANNELS  
**Martire M.**, D'Amico M., Calciano S., Iannotti F.A., Panza E., Barrese V., Viggiano D., Preziosi P., Annunziato L., Tagliafata M.
- FRI-46 REGULATION OF ASPARTATE RELEASE FROM GLUTAMATERGIC RAT NERVE ENDINGS BY POTASSIUM CHANNEL SUBUNITS OF THE KCNQ FAMILY  
**Panza E.**, Luisi R., Barrese V., Iannotti F.A., Viggiano D., Martire M., Secondo A., Canzoniero L.M.T., Annunziato L., Tagliafata M.

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- FRI-47 MODULATION BY EXTRACELLULAR cGMP OF KAINATE RECEPTORS IN RAT CEREBELLAR CORTEX  
**Marcoli M.**, Cervetto C., Paluzzi P., Maura G.
- FRI-48 NICOTINE-INDUCED TRANSCRIPTION FACTORS pCREB EXPRESSION IS POTENTIATED BY EXTRACELLULAR MATRIX MOLECULE AGRIN IN RAT HIPPOCAMPAL NEURONS IN CULTURE  
**Di Chio M.**, Tedesco V., Formaggio E., Chiamulera C., Fumagalli G.
- FRI-49 HYPERTHERMIA-INDUCED MODIFICATIONS IN THE PROPERTIES OF THE PERSISTENT SODIUM CURRENT IN NEOCORTICAL PYRAMIDAL NEURONS  
**Colombo E.**, Mantegazza M., Franceschetti S.
- FRI-50 DEPOLARIZATION-EVOKED INCREASE OF CYTOSOLIC CALCIUM CONCENTRATION: A NEW FLUORESCENT ASSAY IN RAT BRAIN CORTICAL NEURONS  
**Francisconi S.**, Salvati P., Caccia C.
- FRI-51 METABOTROPIC GLUTAMATE RECEPTORS mGluR2/3 ACTIVATION BY AGONIST TREATMENT INCREASES BRAIN DERIVED NEUROTROPHIC FACTOR (BDNF) IN MOUSE BRAIN  
**Di Liberto V.**, Bonomo A., Belluardo N., Mudò G.
- FRI-52 SNAP-25 PHOSPHORYLATION ON Ser187 MEDIATES NEGATIVE MODULATION OF NEURONAL CALCIUM DYNAMICS  
**Pozzi D.**, Condliffe S., Grumelli C., Bozzi Y., Proux-Gillardeaux V., Franceschetti S., Bianco F., Verderio C., Matteoli M.
- FRI-53 EFFECTS OF IH BLOCKADE ON THE PHYSIOLOGICAL END "EPILEPTOGENIC" BEHAVIOR OF LAYER V NEOCORTICAL NEURONS  
**Chikhladze M.**, Mantegazza M., Panzica F., Avanzini G., Franceschetti S.
- FRI-54 CALCIUM CONTRIBUTIONS DURING SYNCHRONOUS ELECTRICAL ACTIVITY OF HIPPOCAMPAL DISSOCIATED NEURONAL CULTURES  
**Pinato G.**, Torre V.
- FRI-55 INTERACTION BETWEEN EPHRINB AND mGlu RECEPTORS INDUCES MODIFICATIONS OF HIPPOCAMPAL SYNAPTIC PLASTICITY IN NEONATAL AND ADULT RATS  
**Piccinin S.**, Cinque C., Calo' L., Patanè M., Melchiorri D., Bashir Z., Eusebi F., Nicoletti F.
- FRI-56 QUANTAL PROPERTIES AND NEUROTRANSMISSION DYNAMICS AT THE GABAERGIC GOLGI CELL GRANULE CELL SYNAPSE OF RAT CEREBELLUM  
**Mapelli L.**, Rossi P., Nieuw T., D'Angelo E.
- FRI-57 CALPAIN-MEDIATED CLEAVAGE OF SNAP-25 IN HIPPOCAMPAL CULTURES AND IN BRAIN  
**Grumelli C.**, Pozzi D., Caleo M., Antonucci F., Bonanno G., Carmignoto G., Harkani T., Matteoli M., Verderio C.
- FRI-58 HIGH MOBILITY GROUP BOX 1 PROTEIN (HMGB1) STIMULATES GLUTAMATE RELEASE FROM GLIA RE-SEALED PARTICLES (GLIOSOMES) FRESHLY PREPARED FROM ADULT MOUSE BRAIN  
**Milanese M.**, Pedrazzi M., Raiteri L., Passalacqua M., Sparatore B., Bonanno G.
- FRI-59 DEPOLARIZATION-TRIGGERED GLUTAMATE EXOCYTOSIS FROM ADULT ASTROGLIA  
**Zappettini S.**, Milanese M., Raiteri L., Alloisio S., Nobile M., Bonanno G.
- FRI-60 VSD IMAGING IN RAT CEREBELLAR SLICES REVEALS ACTIVITY CLUSTERS IN THE GRANULAR LAYER  
**Gandolfi D.**, Mapelli J., D'Angelo E.
- FRI-61 NICOTINIC STIMULATION INCREASES GLUTAMATERGIC SYNAPTIC TRANSMISSION IN THE RAT CEREBELLUM  
**Prestori F.**, Bertrand D., D'Angelo E.
- FRI-62 BRAIN-DERIVED NEUROTROPHIC FACTOR (BDNF) MODULATION OF SHORT-TERM SYNAPTIC PLASTICITY IN HIPPOCAMPAL EXCITATORY SYNAPSES  
**Casagrande S.**, Boido D., Baldelli P., Benfenati F.
- FRI-63 SYNAPSINS INTERACT WITH SH3 DOMAINS OF PROTEINS INVOLVED IN THE SYNAPTIC VESICLES CYCLE  
**Onofri F.**, Messa M., Defranchi E., Monaldi I., Shupliakov O., Benfenati F.
- FRI-64 NERVOUS SYSTEM FUNCTIONAL ALTERATIONS IN SPHINGOLIPID METABOLIC PATHWAY MUTANTS: A STUDY USING THE MODEL ORGANISM DROSOPHILA MELANOGASTER  
**Magnabosco A.**, Harris G.L., Zordan M.A., Megighian A.

- FRI-65 mGlu RECEPTORS DETERMINE LOW-FREQUENCY INDUCTION OF LTD AT THE MOSSY FIBER-GRANULE CELL RELAY OF CEREBELLUM  
**D'Errico A.**, D'Angelo E.
- FRI-66 THE ROLE OF NEUROTROPHIN RECEPTOR p75 IN RAT CNS: AN INTEGRATIVE APPROACH  
**Formaggio E.**, Dalfini A., Chiamulera C., Fumagalli G.
- FRI-67 MODULATION OF NTRs EXPRESSION AND OF CHOLINERGIC FUNCTION IN IN VITRO RAT BFCNs  
**Dalfini A.**, Formaggio E., Chiamulera C., Fumagalli G.
- FRI-68 PHARMACOLOGICAL INDUCTION OF GENE EXPRESSION  
**Pegoraro S.**, Broccard F.D., Ruaro M.E., Altafini C., Bianchini D., Torre V.
- FRI-69 NEURONAL ACTIVITY AND GENE PROFILING TIME COURSE IN IN VITRO HIPPOCAMPAL NETWORKS  
**Broccard F.D.**, Pegoraro S., Ruaro E., Bianchini D., Altafini C., Torre V.
- FRI-70 PHARMACOLOGICAL AND FUNCTIONAL CHARACTERIZATION OF PRESYNAPTIC NMDA AUTORECEPTORS CONTROLLING THE RELEASE OF GLUTAMATE IN RAT HIPPOCAMPUS  
**Musante V.**, Neri E., Raiteri M., Pittaluga A.
- FRI-71 OSCILLATION, RESONANCE AND SPIKE-TIMING IN CEREBELLAR GOLGI CELLS: EXPERIMENTS AND MODELING  
**Solinis S.**, Forti L., Cesana E., Mapelli J., De Schutter E., D'Angelo E.
- FRI-72 THE MOSSY FIBER INPUT TO GOLGI CELLS IN THE CEREBELLUM: PRESENCE OF AN NMDA COMPONENT  
**Cesana E.**, Forti L., D'Angelo E.
- FRI-73 A MULTI-COMPARTMENTAL CEREBELLAR GRANULE CELL MODEL PREDICTS NEURONAL CEREBELLAR CIRCUITRY  
**Diwakar S.**, Naldi G., D'Angelo E.
- FRI-74 SYNAPSIN KO MICE: A MODEL OF TEMPORAL LOBE EPILEPSY TO TEST NEW ANTIEPILEPTIC DRUG EFFECTS  
**Boido D.**, Farisello P., Valtorta F., Baldelli P., Benfenati F.
- FRI-75 IN VIVO AND IN VITRO NEUROPROTECTION AFFORDED BY MERCAPTOSUCCINATE UNDER OXYGEN/GLUCOSE DEPRIVATION  
**Marrone M.C.**, Amantea D., Nisticò R., Mercuri N.B.
- FRI-76 NICOTINE AND NICOTINIC DRUGS NEUROPROTECTION OF GLUTAMATE-INDUCED NEUROTOXICITY IN PRIMARY CORTICAL NEURONS  
**Gaimari A.**, Tonna N., Clementi F., Gotti C.
- FRI-77 SIGNAL TRANSDUCTION PATHWAYS INVOLVED IN PROTECTIVE EFFECTS OF MELATONIN IN C6 GLIOMA CELLS  
**Esposito E.**, Muià C., Iacono A., Mattace Raso G., Bramanti P., Meli R., Cuzzocrea S.
- FRI-78 IDENTIFICATION OF THE NAD<sup>+</sup> DEPENDENT HISTONE DEACETYLASE AND LONGEVITY DETERMINANT SIRT-1 AS A cAMP RESPONSIVE ELEMENT BINDING PROTEIN (CREB) TARGET GENE IN NEURONAL CELLS  
**Chiatamone Ranieri S.**, Fusco S., Panieri E., Tesori V., Eboli M.L., Galeotti T., Pani G.
- FRI-79 ORGANIZATION OF GABAergic SYNAPTIC CIRCUITS IN THE RODENT VENTRAL TEGMENTAL AREA  
**Ciccarelli A.**, Panzanelli P., Calza A., Concas A., Giustetto M., Sassoè-Pognetto M.
- FRI-80 BEHAVIORAL SENSITIZATION TO Δ9-TETRAHYDROCANNABINOL (Δ9-THC) AND CROSS-SENSITIZATION WITH MORPHINE: BIOCHEMICAL CORRELATES  
**Cadoni C.**, Valentini V., Di Chiara G.
- FRI-81 PRESYNAPTIC PRESENCE OF SUMO-1 AND ITS REGULATORY EFFECT ON GLUTAMATE RELEASE  
**Feligioni M.**, Henley J.M.
- FRI-82 NEURONAL DIFFERENTIATION POTENTIAL OF HUMAN ADIPOSE-DERIVED ADULT STEM CELLS  
**Anghileri E.**, Marconi S., Pignatelli A., Galié M., Sbarbat A., Krampera M., Belluzzi B., Bonetti B.

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- FRI-83 BENEFICIAL EFFECTS OF FeTSPP, A PEROXYNITRITE DECOMPOSITION CATALYST, IN A MOUSE MODEL OF SPINAL CORD INJURY  
**Genovese T.**, Mazzon E., Esposito E., Muià C., Di Paola R., Bramanti P., Cuzzocrea S.

## TECHNIQUES

- FRI-84 EFFECTS OF DIFFERENT CULTURE CONDITIONS ON THE MARKERS EXPRESSION IN OLFACTORY ENSHEATHING CELLS  
**Pellitteri R.**, Spatuzza M., Russo A., Stanzani S
- FRI-85 INVESTIGATION OF RAT VASOPRESSIN 1b RECEPTOR (rV1bR) HOMO-DIMERIZATION WITH BRET BY USING FUSION™-FP  
**Tognoli C.**, Faggioni F., Corti C., Young S., Aguilera G., Griffante C.
- FRI-86 IN VIVO MULTI-PHOTON NANOSURGERY ON CORTICAL NEURONS  
**Sacconi L.**, O'Connor R.P., Jasaitis A., Masi A., Buffelli M., Pavone F.S.
- FRI-87 NETWORKS OF FUNCTIONAL CONNECTIVITY IN THE PHARMACOLOGICALLY ACTIVATED BRAIN USING FUNCTIONAL MRI IN THE RAT  
**Schwarz A.J.**, Gozzi A., Bifone A.
- FRI-88 VALIDATION OF ACUPUNCTURE POINTS IN THE RAT THROUGH SKIN ELECTRICAL RESISTANCE MEASUREMENT  
**Lorenzini L.**, Giuliani A., Capra R., Calzà L.
- FRI-89 PHARMACOLOGICAL MAGNETIC RESONANCE IMAGING ASSESSMENT OF THE EFFECTS OF GAMMA-HYDROXYBUTYRIC ACID ON BRAIN ACTIVITY  
**Muntoni A.L.**, Lu H., Scholl C.A., Stein E.A.
- FRI-90 COGNITIVE ACCOUNTS OF SECOND LANGUAGE ACQUISITION: CRITICAL PERIOD AND AGE EFFECTS  
**De Bastos Figueiredo S.A.**, Da Silva C.F.

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**September, Friday 28, 2007**

**SALA MASTINO**

**14.30 - 15.30**

**AWARDING OF PRIZE FOR YOUNG ITALIAN INVESTIGATORS SPONSORED BY  
ISTITUTO NAZIONALE DI NEUROSCIENZE**

**Lecture of the winner**

Small-scale algorithms for sensory processing in humans

**P. Neri** (London - UK)

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**September, Friday 28, 2007**

**SALA MASTINO**

**15.30 - 17.00**

**SYMPORIUM 13**

**NICOTINIC RECEPTORS AND CHOLINERGIC NEUROTRANSMISSION**

Chairmen: **F. Grassi** (Rome - Italy) **E. Cooper** (Montreal - Canada)

High Ca<sup>2+</sup> permeability of the human endplate nAChR

**F. Grassi** (Rome - Italy)

Nicotinic modulation of cholinergic transmission in the murine cerebral cortex

**A. Becchetti** (Milan - Italy)

Pharmacogenomic of the neuronal nicotinic acetylcholine receptors

**D. Bertrand** (Geneva - Switzerland)

The development, persistence, and maturation of cholinergic synapses on neurons in the absence of postsynaptic activity

**E. Cooper** (Montreal - Canada)

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**SALA CANGRANDE**

**15.30 - 17.00**

**SYMPORIUM 14**

**NEW INSIGHTS INTO THE BASIC MECHANISMS OF RETT SYNDROME**

Chairman: **T. Pizzorusso** (Pisa - Italy)

Spatio-temporal dynamics and localization of MeCP2 and pathological mutants in living cells

**M. Costa** (Pisa - Italy)

Synaptic organization and structural plasticity in a murine model of Rett's syndrome

**M. Giustetto** (Turin - Italy)

Functional characterization of CDKL5, an X-Linked gene involved in mental retardation and epileptic crisis

**C. Kilstrup-Nielsen** (Varese - Italy)

Expression pattern, neuronal dynamics and overexpression of CDKL5, the gene causing infantile spasms and atypical Rett syndrome

**V. Broccoli** (Milan - Italy)

15.30 - 17.00

**SYMPORIUM 15**

**LOCAL REGULATION OF NEURONAL MORPHOLOGY AND FUNCTION: NEW ROLES FOR EVOLUTIONARY OLD RNA-BINDING PROTEINS**

Chairman: **E. Tongiorgi** (Trieste - Italy)

The ELAV proteins and their mRNA stabilizing activity in motor neurons

**A. Ratti** (Milan - Italy)

Dendritic trafficking of Brain Derived Neurotrophic Factor (BDNF) mRNAs is a multifactorial, inducible process involving ELAV and CPEB RNA-binding proteins

**A. Vicario** (Trieste - Italy)

Neuronal sub-cellular localization of the translational repressor Pumilio 2 and its involvement in stress granule formation and dendrite morphogenesis

**P. Macchi** (Vienna - Austria)

A new function for the Fragile-X Mental Retardation Protein (FMRP) in the regulation of PSD-95 mRNA stability

**F. Zalfa** (Rome - Italy)

15.30 - 17.00

**SYMPORIUM 16**

**THE BODY SCHEMA: NEUROPHYSIOLOGICAL CORRELATES AND NEUROPSYCHOLOGICAL IMPAIRMENTS**

Chairman: **G. Vallar** (Milan - Italy)

Stance and locomotion-dependent processing of vibration-induced proprioceptive inflow

**M. Schmid** (Pavia - Italy)

Multisensory interactions in the representation of the body

**A. Gallace** (Oxford - UK)

The intraparietal cortex mediates spatial remapping of visual-tactile interactions across postures: a rTMS study

**A. Maravita** (Milan - Italy)

Body schema disorders' modulation by different kind of manipulations

**G. Bottini** (Pavia - Italy)

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**September, Friday 28, 2007**

**SALA MASTINO E SALA CANGRANDE**

**17.00 - 18.00**

**HONORARY LECTURE**

Chairman: **P. Strata** (Turin - Italy)

Adult neuronal connections emerge as an outcome of assembly, disassembly and activity-dependent processes

**A. Cangiano** (Verona - Italy)

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**September, Friday 28, 2007**

**AUDITORIUM - Palazzo della Gran Guardia**

**20.30 - 22.30**

**TAVOLA ROTONDA APERTA A TUTTA LA CITTADINANZA**

Cellule staminali: aspetti bioetici

**Piergiorgio Strata, Cardinale Ersilio Tonini**

moderatrice **Adriana Cavarero**

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**September, Saturday 29, 2007**

**SALA MASTINO**

**8.30 - 10.00**

**SYMPORIUM 17**

**REGULATORY MECHANISMS UNDERLYING NEURAL DEVELOPMENT**

Chairmen: **U. Di Porzio** (Naples - Italy) **G. Gennarini** (Bari - Italy)

Cadherin and catenin function in the formation of spinal motor circuitry

**S. R. Price** (London - UK)

The EBF network regulates cerebellar neurogenesis and morphogenesis

**G. G. Consalez** (Milan - Italy)

Nurr1 transcription factor regulates Bdnf expression in midbrain dopaminergic neurons

**U. di Porzio** (Naples - Italy)

Developmental role of axonal adhesive glycoproteins regulated expression

**G. Gennarini** (Bari - Italy)

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**SALA CANGRANDE**

**8.30 - 10.00**

**SYMPORIUM 18**

**ALCOHOL-DERIVED ACETALDEHYDE: THE HIDDEN ADDICTIVE COMPOUND**

Chairman: **M. Diana** (Sassari - Italy)

Behavioral characterization of acetaldehyde in rodents

**E. Queremont** (Liege - Belgium)

Stimulant effects of intracranial injections of ethanol, acetaldehyde or acetate in rats

**M. Correa** (Castelló - Spain)

Alcohol actions on dopamine neurons require acetaldehyde

**M. Melis** (Cagliari - Italy)

Role of CYP2E1 in Sardinian alcohol-preferring rats

**C. Viaggi** (Pisa - Italy)

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**September, Saturday 29, 2007**

**SALA ALBOINO**

**8.30 - 10.00**

**SYMPOSIUM 19**

**RECEPTOR TRAFFICKING IN NEURONAL PLASTICITY**

Chairmen: **F. Clementi** (Milan - Italy) **C. Missale** (Brescia - Italy)

Nicotinic drugs regulation of neuronal nicotinic receptor traffic and expression

**C. Gotti** (Milan - Italy)

Regulation of G protein coupled receptor trafficking by receptor-receptor interactions

**C. Fiorentini** (Brescia - Italy)

Transducing membrane events into gene expression: ERK1 and 2 signalling are differentiated by their speed of permeation through the nuclear membrane

**G. Ratto** (Pisa - Italy)

Interactions of Ephrin receptors and glutamate metabotropic receptors

**F. Nicoletti** (Rome - Italy)

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**SALA BARTOLOMEO**

**8.30 - 10.00**

**SYMPOSIUM 20**

**FUNCTIONAL MAGNETIC RESONANCE IMAGING IN BRAIN FUNCTION AND DISFUNCTION**

Chairman: **A. Beltramello** (Verona - Italy)

BOLD fMRI and apnea stress

**G. Basso** (Trento - Italy)

Adaptive cerebral plasticity in multiple sclerosis: an fMRI approach

**N. De Stefano** (Siena - Italy)

MR advanced techniques in neurodegenerative diseases

**A. Falini** (Milan - Italy)

High field fMRI of brain tumors

**F. Alessandrini** (Verona - Italy)

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**September, Saturday 29, 2007**

**SALA MASTINO**

**10.30 - 12.00**

**SYMPOSIUM 21**

**CONSTRUCTING POSTSYNAPTIC ASSEMBLIES: INSIGHTS FROM EXCITATORY AND INHIBITORY SYNAPSES**

Chairmen: **M. Sassoé-Pognetto** (Turin - Italy) - **F. Gardoni** (Milan - Italy)

Assembling and function of scaffolding proteins at the post-synaptic density  
**S. Romorini** (Milan - Italy)

Intracellular mechanisms modulating postsynaptic scaffolds in the excitatory synapse  
**F. Gardoni** (Milan - Italy)

Structural requirements of gephyrin postsynaptic aggregation  
**J.M. Fritschy** (Zurich - Switzerland)

Subcellular organization of GABA<sub>A</sub> receptors and their role for synapse formation and maintenance  
**M. Sassoé-Pognetto** (Turin - Italy)

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**SALA CANGRANDE**

**10.30 - 12.00**

**SYMPOSIUM 22**

**ALTERED WHITE MATTER COMMUNICATION IN MAJOR PSYCHOSES: A POSSIBLE COMMON ENDOPHENOTYPES FOR SCHIZOPHRENIA AND BIPOLAR DISORDER?**

Chairmen: **P. Brambilla** (Udine - Italy) **S. Frangou** (London - UK)

The prefrontal cortex in major psychoses  
**S. Frangou** (London - UK)

Altered trans-callosal communication in major psychoses  
**C.A. Marzi** (Verona - Italy)

Superior temporal gyrus and language disturbances in schizophrenia  
**C. Perlini** (Milan - Italy)

Impaired functional and structural white matter communication in major psychoses  
**P. Brambilla** (Udine - Italy)

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**September, Saturday 29, 2007**

**SALA ALBOINO**

**10.30 - 12.00**

**SYMPORIUM 23**

**OLFACTION: FROM THE NOSE TO THE BRAIN**

Chairmen: **C. Mucignat** (Padua - Italy) - **C. Zancanaro** (Verona - Italy)

Microvillar cells in the control of the regeneration of the olfactory epithelium

**R. Tirindelli** (Parma - Italy)

Maturation of adult-generated dopaminergic neurons in the mice olfactory bulb: a functional study

**O. Belluzzi** (Ferrara - Italy)

Molecular factors controlling neurogenesis in the postnatal olfactory bulb

**A. Fasolo** (Turin - Italy)

Activation of the endocannabinergic system modulates odor sensitivity

**I. Manzini** (Göttingen - Germany)

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**SALA BARTOLOMEO**

**10.30 - 12.00**

**SYMPORIUM 24**

**ACTION DEVELOPMENT IN THE BRAIN: FROM VISUAL PERCEPTION TO MOVEMENT GENERATION**

Chairmen: **M. Raffi** (Bologna - Italy) **S. Squatrito** (Bologna - Italy)

Multimodal representation of visual perception

**M. Raffi** (Bologna - Italy)

Multiscale dynamics of neural activity for the control of movement initiation

**S. Ferraina** (Rome - Italy)

Electrophysiology of action/speech understanding

**L. Fadiga** (Ferrara - Italy)

Understanding mirror neurons: A bio-robotic approach

**G. Metta** (Genoa - Italy)

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**September, Saturday 29, 2007**

**SALA MASTINO E SALA CANGRANDE**

**12.00 - 13.00**

**PLENARY LECTURE**

Chairman: **G. Di Chiara** (Cagliari - Italy)

Addiction: neurobiology of disrupted free will

**N. Volkow** (Bethesda - USA)

**POSTERS**

**MOLECULAR STRUCTURES AND MECHANISMS**

- SAT-01 MOLECULAR MECHANISMS OF SYNAPSE ORGANIZATION: THE ROLE OF SYNAPSINS  
**Fornasiero E.F.**, Bonanomi D., Perlini L.E., Menegon A., Valtorta F.
- SAT-02 CHARACTERIZATION OF A TROPHIC MECHANISM MEDIATED BY FGF-2 AND ITS RECEPTOR FGFR1 EXPRESSED IN THE PRECURSOR CELLS OF THE SUBVENTRICULARZONE (SVZ) IN THE ADULT RAT BRAIN  
**Bonomo A.**, Di Liberto V., Frinchi M., Belluardo N., Fuxe K., Mudò G.
- SAT-03 POTENTIATION OF NATIVE AND RECOMBINANT P2X7-MEDIATED ERK1/2 PHOSPHORYLATION BY ARACHIDONIC ACID IN CULTURED CORTICAL ASTROCYTES AND HUMAN EMBRYONIC KIDNEY 293 CELLS  
**Barbieri R.**, Alloisio S., Ferroni S., Nobile M.
- SAT-04 MITOCHONDRIAL CALCIUM SIGNALS ARE INDUCED BY P2 RECEPTOR AGONISTS IN RAT MICROGLIAL CELLS  
**De Nuccio C.**, Bellenchi G.C., Radica T., Visentini S.
- SAT-05 p75NTR NEUROTROPHIN LOW AFFINITY RECEPTOR EXPRESSION CORRELATES WITH CELL CYCLE PHASES IN NEURONAL CELL LINES  
**Giuliani A.**, Pirondi S., Franceschini A., Del Vecchio G., Fernandez M., Hokfelt T., Xu Z.Q., Calzà L.
- SAT-06 RESPONSE OF MOUSE EMBRYONIC STEM CELL-DERIVED NEURAL PRECURSORS TO BIOMATERIAL SURFACE TOPOLOGY AND ROUGHNESS  
**Ban J.**, Ruaro M.E., Bakeine J., Torre V.
- SAT-07 THE ROLE OF THE X-LINKED MENTAL RETARDATION GENE IL1RAPL1 ON SYNAPSE FUNCTION  
**Gianfelice A.**, Bassani S., Valnegri P., Passafaro M., Sala C.
- SAT-08 ROLE OF HCRPs ADHESION MOLECULES ON NEURITE GROWTH  
**Milanese C.**, Giachello C., Gennarini G., Montarolo P.G., Ghirardi M.
- SAT-09 GENE REGULATION OF THE AXON GROWTH ASSOCIATED PROTEIN 43 DURING AXON OUTGROWTH AND REGENERATION  
**Tedeschi A.**, Nguyen T., Garay J., Gaub P., Di Giovanni S.
- SAT-10 LOCALIZATION AND BIOLOGICAL ACTIVITY OF THE NOVEL NEUROPEPTIDES OF GIANT INTERNEURONS, INVOLVED DEFENSE BEHAVIOR  
**Boguslavsky D.V.**
- SAT-11 THE CENTRAL AND PERIPHERAL EFFECTS OF UFP112, A NOVEL N/OFQ-NOP RECEPTOR LIGAND, ON COLONIC PROPULSION AND DEFECATION IN PHYSIOLOGICAL AND PATHOLOGICAL CONDITIONS  
**Broccardo M.**, Agostini S., Guerrini R., Improta G., Linari G., Petrella C.
- SAT-12 A NOVEL ENHANCER OF THE PDGF BETA-RECEPTOR GENE ACTIVATED URING THE DIFFERENTIATION OF NEUROBLASTOMA THROUGH GATA FACTOR  
**Matsumoto Y.**, Kaneko M., Yang W., Watt F., Warita K., Miki T., Takeuchi Y., Funai K.
- SAT-13 D1 AND D3 DOPAMINE RECEPTORS FORM HETEROOLIGOMERS AND COINTERNALIZE AFTER PAIRED ACTIVATION OF BOTH RECEPTORS  
**Busi C.**, Fiorentini C., Gorruso E., Spano P.F., Missale C.
- SAT-14 EFFECTS OF ANTIDEPRESSANTS ON mRNA LEVELS AND EDITING OF SEROTONIN 2C RECEPTOR IN RAT  
**Orlandi C.**, Barbon A., La Via L., Caracciolo L., Popoli M., Racagni G., Barlati S.
- SAT-15 CHRONIC PHENCYCLIDINE ADMINISTRATION REDUCES THE EXPRESSION AND EDITING OF SPECIFIC GLUTAMATE RECEPTORS IN RAT PREFRONTAL CORTEX  
**Barbon A.**, Fumagalli F., La Via L., Caracciolo L., Orlandi C., Racagni G., Riva M., Barlati S.

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- SAT-16 CHRONIC ANTIDEPRESSANT TREATMENTS INDUCED A SIGNIFICANT UP-REGULATION OF AMPA AND KA mRNA RECEPTOR CHANNELS  
**Caracciolo L.**, Barbon A., La Via L., Orlandi C., Popoli M., Racagni G., Barlati S.
- SAT-17 INTERACTION OF EARLY OLIGOMERS OF Hypf-N WITH RAT CEREBELLAR GRANULE CELLS  
**Gatta E.**, Pellistri F., Gallo A., Bucciantini M., Gliozzi A., Raimondo M., Relini A., Stefani M., Robello M.
- SAT-18 MUTATIONS CAUSING BENIGN FAMILIAL NEONATAL CONVULSIONS HIGHLIGHT CRUCIAL AMINO ACIDS FOR VOLTAGE SENSING IN KCNQ2 POTASSIUM CHANNEL SUBUNITS  
**Soldovieri M.V.**, Miceli F., Cilio M.R., Bellini G., Castaldo P., Shapiro M.S., Pascotto A., Annunziato L., Taglialatela M.
- SAT-19 FUNCTIONAL PROPERTIES OF TRUNCATED P2X7 RECEPTORS: THE EXTRACELLULAR MG<sup>2+</sup> MODULATION  
**Alloisio S.**, Barbieri R., Bozzo L., Nobile M.
- SAT-20 IN VITRO CHARACTERIZATION OF SCH1041222, A NOVEL NON COMPETITIVE mGluR1 ANTAGONIST  
**Veltri A.F.**, Foglia C., Tarozzo G., Lozza G., Petrò R., Burnett D., Hesk D., Bertorelli R., Reggiani A.
- SAT-21 PHARMACOLOGICAL REGULATION OF CALCIUM RESPONSIVE TRANSCRIPTION FACTOR, CaRF, IN THE RAT HIPPOCAMPUS  
**Caggia F.**, Alboni S., Capone G., Benatti C., Corsini D., Brunello N., Tascedda F.
- SAT-22 CO-LOCALIZATION OF GAD65/67 OR VGLUT2 WITH SNAP25 IN THE RAT CEREBELLAR CORTEX  
**Benagiano V.**, Lorusso L., Flace P., Rizzi A., Di Comite, Cagiano R., Ambrosi G.
- SAT-23 TAT-CNTF INTRACEREBROVENTRICULAR ADMINISTRATION IN RATS DO NOT PRODUCE CNTF CATABOLIC EFFECTS  
**Vieira A.S.**, Rogério F., Rezende A.C.S., Velloso L.A., Negro A., Langone F.
- SAT-24 EFFECTS OF RESTRAINT STRESS ON THE HIPPOCAMPUS OF GLUCOCORTICOID RECEPTOR IMPAIRED TRANSGENIC MICE  
**Corsini D.**, Alboni S., Blom J.M.C., Benatti C., Capone G., Caggia F., Barden N., Brunello N., Tascedda F.
- SAT-25 PROTEOSOMAL INHIBITION AND APOPTOSIS REGULATORY CHANGES IN HUMAN ISOLATED LYMPHOCYTES: THE SYNERGISTIC ROLE OF DOPAMINE  
**Bazzini E.**, Samuele A., Granelli M., Levandis G., Armentero M.T., Nappi G., Blandini F.
- SAT-26 TIME-COURSE OF JNK ACTIVATION AFTER CEREBRAL ISCHEMIA AND EFFECT OF D-JNK1 ON c-Jun AND CASPASE-3 ACTIVATION  
**Repici M.**, Centeno C., Tomasi S., Forloni G., Bonny C., Vercelli A., Borsello T.
- SAT-27 THE GALANIN-R2/R3 AGONIST AR-M1896 REDUCES CASPASE-3 EXPRESSION IN β-AMYLOID25-35 TOXICITY IN SN56 CHOLINERGIC CELL LINE  
**Pirondi S.**, Giuliani A., Hokfelt T., Giardino L., Calzà L.
- SAT-28 D-JNK1 EFFECTS ON THE TWO JNK ACTIVATORS, MKK4 AND MKK7, IN CORTICAL NEURONS  
**Mare L.**, Centeno C., Repici M., Colombo A., Bonny C., Borsello T.
- SAT-29 MECHANISMS OF THE ANTIPROLIFERATIVE EFFECTS AFFORDED BY NOVEL PYRAZOLO-PYRIMIDINE DERIVATES ON HUMAN NEUROBLASTOMA CELLS  
**Navarra M.**, Celano M., Maiuolo J., Schenone S., Botta M., Bramanti P., Russo D.
- SAT-30 A NEW FUNCTION FOR THE FRAGILE X MENTAL RETARDATION PROTEIN IN THE REGULATION OF PSD-95 mRNA STABILITY  
**De Rubeis S.**, Zalfa F., Eleuteri B., Dickson K.S., Mercaldo V., di Penta A., Tabolacci E., Chiurazzi P., Neri G., Grant S.G.N., Bagni C.
- SAT-31 MITOCHONDRIAL COMPLEX I INHIBITION INDUCED APOPTOSIS ARE MEDIATED BY THE ACTIVATION OF ATM/P53/E2F-1  
**Alvira D.**, Yeste-Velasco M., Folch J., Pallàs M., Camins A.
- SAT-32 ALTERED NMDA RECEPTOR EXPRESSION AND VASCULAR MALDEVELOPMENT CHARACTERIZE EPILEPTOGENIC FOCAL CORTICAL DYSPLASIA OF TAYLOR'S TYPE  
**Finardi A.**, Colciaghi F., Locatelli D., Setola V., LoRusso G., Battaglia G.

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- SAT-33 GABAERGIC CONTROL OF PERIPHERAL NERVOUS SYSTEM. NEW INSIGHTS FROM THE GABA-B(1) (-/-) KNOCKOUT MICE  
**Magnaghi V.**, Ballabio M., Bettler B., Colleoni M., Motta M., Trovato A., Procacci P.
- SAT-34 AGE-DEPENDENT CHANGES IN THE EXPRESSION OF CLOCK GENES IN THE SUPRACHIASMATIC NUCLEUS AND PERIPHERAL ORGANS  
**Bonaconsa M.**, Malpeli G., Bentivoglio M.

## SENSORY AND MOTOR SYSTEMS

- SAT-35 A NEW APPROACH TO SPINAL CORD INJURY: CONNECTING SPARED SUPRASPINAL AXONS TO SKELETAL MUSCLES  
**Francolini M.**, Boroni F., Cambianica I., Benarese M., Alghisi M., Guarneri B., Barbon A., Bresciani R., Barlati S., Clementi F., Spano P., Brunelli G., Pizzi M.
- SAT-36 SUPERIOR COLICULUS SELECTIVE LESION NOT AFFECT VIBRISSA MOTOR CORTEX OUTPUT IN ADULT RATS  
**Veronesi C.**, Maggiolini E., Franchi G.
- SAT-37 VIBRISSAL MOTOR CORTEX SHORT-TERM PLASTICITY AFTER HOMOTOPIC CORTEX INACTIVATION IN ADULT RATS  
**Maggiolini E.**, Veronesi C., Franchi G.
- SAT-38 CHOLINERGIC MODULATION OF EXCITABILITY IN THE MICE OLFACTORY BULB: EFFECT OF LOCAL APPLICATION OF MUSCARINIC AGONISTS ON DOPAMINERGIC NEURONES  
**Pignatelli A.**
- SAT-39 GLUTAMATERGIC MODULATION OF EXCITABILITY IN THE MICE OLFACTORY BULB: EFFECT OF LOCAL APPLICATION OF METABOTROPIC AGONISTS ON DOPAMINERGIC NEURONES  
**Cifelli P.**
- SAT-40 PURSUIT EYE MOVEMENTS INVOLVE A COVERT MOTOR PLAN FOR MANUAL TRACKING: A TRANSCRANIAL MAGNETIC STIMULATION (TMS) STUDY  
**Falciati L.**, Giancesini T., Maioli C.
- SAT-41 PHOTOTRANSDUCTION AND CHANGES OF GENE EXPRESSION  
**Codega P.**, Subkhankulova T., Pocecco M., Della Santina L., Gargini C., Livesey F.J., Cervetto L., Torre V.
- SAT-42 SPATIO-TEMPORAL FILTER PROPERTIES OF VISUALLY ACTIVE NEURONS IN THE CAUDATE NUCLEUS  
**Márkus Z.**, Paróczy Z.S., Waleszczyk W.J., Wypych M., Benedek G.Y., Nagy A.
- SAT-43 SPATIO-TEMPORAL FILTER PROPERTIES ALONG THE TECTO-THALAMO-CORTICAL PATHWAY  
**Paroczy Z.**, Markus Z., Waleszczyk W., Wypych M., Nagy A., Benedek G.
- SAT-44 HCN2 CHANNELS SHAPE THE TEMPORAL RESPONSE OF ROD BIPOLAR CELLS IN THE DARKADAPTED MOUSE RETINA  
**Cangiano L.**, Gargini C., Della Santina L., Demontis G.C., Cervetto L.
- SAT-45 ROLE OF ANANDAMIDE IN THE MODULATION OF NITROGLYCERIN-INDUCED HYPERALGESIA: A STUDY IN THE RAT  
**Greco R.**, Tassorelli C., Sandrini G., Nappi G.
- SAT-46 SPHINGOSINE-1-PHOSPHATE INDUCED HEAT HYPERALGESIA BY MODULATION OF TRPV1  
**Benetti C.**, Leitner M., Biasio W., Constantin C., Andratsch M., Haberberger R., Davis J.B., Kress M.
- SAT-47 FIGHTING PAIN WITH BOTULINUM NEUROTOXINS: ANALGESIC ACTIVITY IN ANIMAL MODELS  
**Marinelli S.**, Cobianchi S., Luvìsetto S., Obara I., Makuch W., Przewlocka B., Pavone F.
- SAT-48 ACETYLCHOLINE SHOWS ANTINOCICEPTIVE EFFECTS NEGATIVELY MODULATING THE SP EXPRESSION AND VR1 ACTIVITY IN RAT SENSORY NEURONS  
**De Angelis F.**, Visentin S., Corsetti V., Biagioli S., Augusti Tocco G., Tata A.M.

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- SAT-49 CONTROL OF HIGHLY FLEXIBLE LIMBS: THE OCTOPUS CENTRAL STRATEGIES FOR REDUCING COMPLEXITY  
**Zullo L.**, Sumbre G., Flash T., Hochner B.
- SAT-50 EXPLORATION OF THE VOLUNTARY ACTIVATION DURING FORCE PRODUCTION IN HAND MUSCLES WITH TRANSCRANIAL MAGNETIC STIMULATION  
**Cacciatori C.**, Tamburin S., Benelle M., Ferrari F., Prigioni P., Zanette G., Fiaschi A.
- SAT-51 ANTICIPATORY FINGER SYNERGIES IN THE TRIPOD GRASP BEFORE AN IMPACT  
**Baud-Bovy G.**, Marino B.F.M.
- SAT-52 BEHAVIORAL PHENOTYPING AND PHARMACOLOGICAL TREATMENTS IN THE MPTP MOUSE MODEL OF PARKINSON'S DISEASE  
**Viaro R.**, Marti M., Morari M.
- SAT-53 HIGH FREQUENCY TRANSCRANIAL MAGNETIC STIMULATION (TMS) MODULATES CORTICAL AND CORTICOSPINAL RESPONSES: ATMS/EEG CO-REGISTRATION STUDY  
**Veniero D.**, Maioli C., Miniussi C.

## COGNITIVE NEUROSCIENCE AND BEHAVIOR

- SAT-54 INTRAGASTRIC ETHANOL-DERIVED ACETALDEHYDE INCREASES DOPAMINE OUTPUT IN THE NUCLEUS ACCUMBENS. IN VIVO MICRODIALYSIS  
**Sirca D.**, Mereu M., Golosio A., Enrico P., Peana A.T., Assaretti A.R., Lintas A., Diana M.
- SAT-55 BLOCKADE OF ACETALDEHYDE PREVENTS ETHANOL-INDUCED INCREASE IN MICRODIALYSATE DOPAMINE IN THE NUCLEUS ACCUMBENS  
**Mereu M.**, Sirca D., Golosio A., Enrico P., Peana A.T., Assaretti A.R., Lintas A., Diana M.
- SAT-56 CORRELATIONS BETWEEN EEG ALPHA RHYTHM AND fMRI BOLD SIGNAL. PRELIMINARY RESULTS  
**Magon S.**, Formaggio E., Manganotti P., Ricciardi G.K., Pizzini F., Zoccatelli G., Alessandrini F., Beltramello A.
- SAT-57 VISUAL IMPAIRMENT IN alpha-7 nAChR KNOCK-OUT MICE  
**Origlia N.**, Domenici L.
- SAT-58 EARLY POSTNATAL CHRONIC INFLAMMATION ALTERS PAIN RESPONSE AND ANXIETY BEHAVIOUR IN ADULT MICE  
**Benatti C.**, Alboni S., Capone G., Caggia F., Valensisi C., Tascedda F., Brunello N., Blom J.M.C.
- SAT-59 A REINFORCEMENT-FLAVoured BACK-PROPAGATION TRAINING SCHEME FOR SIMPLE RECURRENT NETWORKS  
**Grüning A.**
- SAT-60 STRUCTURAL REARRANGEMENTS WITHIN HIPPOCAMPAL-CORTICAL NETWORKS MEDIATE REMOTE MEMORY FORMATION  
**Restivo L.**, Vetere G., Bontempi B., Ammassari-Teule M.
- SAT-61 DIFFERENTIAL ROLES OF NUCLEUS BASALIS MAGNOCELLULARIS PROJECTIONS TO AMYGDALA AND TO NEOCORTEX DURING FEAR CONDITIONING IN THE RAT  
**Mariottini C.**, Baldi E., Bucherelli C.
- SAT-62 IN THE BEGINNING THERE WAS SYNCHRONIZATION: GENESIS OF A NEURAL CORRELATE OF PROCESSING DIFFERENCES  
**Toffanin P.**, Martens A.D.J., de Jong P.J., Johnson A.
- SAT-63 DIFFERENTIAL IMPACT OF BRAIN DAMAGE ON THE ACCESS MODE TO MEMORY REPRESENTATIONS: AN INFORMATION THEORY APPROACH  
**Lauro-Grotto R.**, Ciaramelli E., Loconte R., Piccini C., Treves A.
- SAT-64 EXECUTIVE CONTROL AND HEMISPHERIC LATERALIZATION: IMAGING STUDIES WITH STROOP PARADIGMS  
**Zoccatelli G.**, Tassinari G.
- SAT-65 INHIBITION OF RETURN: SUBLIMINAL CUE EFFECT  
**Mele S.**, Berlucchi G., Marzi C.A., Savazzi S.

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- SAT-66 MODIFICATIONS INDUCED ON RAT EXPLORATORY BEHAVIOR BY ACOUSTIC STIMULATION: A MULTIVARIATE ANALYSIS  
**Casarrubea M.**, Sorbera F., Matinella A., Di Giovanni G., Benigno A., Crescimanno G.
- SAT-67 THE PLACEBO EFFECT IN MUSCLE FATIGUE  
**Pollo A.**, Carlino E., Benedetti F.
- SAT-68 RELATIONSHIPS BETWEEN PERSONALITY TRAITS AND HORMONAL/INTERLEUKIN RESPONSES IN MALE KARATE WINNERS AND LOSERS  
**Dadomo H.**, Carbucicchio A., Bartolomucci A., Palanza P., Costantino C., Ferrari P.F., Brain P.F., Volpi R., Parmigiani S.
- SAT-69 EFFECTS OF PERINATAL EXPOSURE TO SUB-TOXIC DOSES OF CHLORPYRIFOS IN ADULT VIRGIN FEMALE MICE: INDUCTION OF MATERNAL BEHAVIOUR  
**Ricceri L.**, Corsi G., Pareggiani R., Venerosi A., Calamandrei G.
- SAT-70 VENTRO-LATERAL PREFRONTAL ACTIVITY DURING WORKING-MEMORY PROCESSING IS MODULATED BY MONOAMINE OXIDASE-AGENETIC VARIATION  
**Cerasa A.**, Fera F., Gioia M.C., Passamonti L., Liguori M., Lanza P., Muglia M., Magariello A., Quattrone A.
- SAT-71 THE DIFFERENCES IN DYSEXECUTIVE SYNDROME IN PATIENTS WITH FRONTAL CEREBROVASCULAR PATHOLOGY  
**Magalini A.**, Trabucco G., Bravi E., Fontana L., Boaretti C., Marcanti M., Romagnolo E., Sala F., Tomelleri G., Tinazzi M., Zanoni T., Moretto G., Bovi P.
- SAT-72 THE DORSAL STREAM FOR REACHING IN HUMANS: OPPOSITE EFFECTS OF TMS STIMULATION  
**Busan P.**, Monti F., Semenic M., Battaglini P.P.
- SAT-73 EFFECT OF SODIUM VALPROATE (DEPAKIN) ON THE EEG PATTERNS IN EPILEPTIC CHILDREN  
**Khachidze I.**, M. Gugushvili, Maloletnev V.
- SAT-74 LONG TERM CONDITIONING PROPERTIES OF SOCIAL DEFEAT ON RATS BEHAVIOUR AND ADRENAL REACTIVITY  
**Guidi A.**, Razzoli M., Carboni L., Lodico R., Arban R.
- SAT-75 TRANSIENT FOREBRAIN OVEREXPRESSION OF CRF PEPTIDE INCREASES MORNING PLASMA CORTICOSTERONE IN ADULT CONDITIONAL CRF TRANSGENIC MICE  
**Vicentini E.**, Arban R., Angelici O., Maraia G., Perico M.E., Ugolini A., Mugnaini M., Large C., Domenici E., Gerrard P., Bortner D., Mansuy I., Mangiarini L., Merlo-Pich E.
- SAT-76 TRYPTOPHAN-DEFICIENT DIET: SENSITISATION TO THE EFFECT OF D-AMPHETAMINE IN A RAT MODEL OF SCHIZOPHRENIA  
**Bortolato M.**, Frau R., Orru M., Carta M., Stancampiano R., Fadda F.
- SAT-77 BEHAVIORAL AND NEURAL ALTERATIONS IN MICE LACKING THE Gy8 PROTEIN IN THE VOMERONASAL SYSTEM  
**Sanghez V.**, Montani G., Tirindelli R., Parmigiani S., Palanza P., Ferrari P.
- SAT-78 TEENAGERS AND THEIR USE OF NEW TECHNOLOGIES  
**Cannizzaro S.**, La Barbera D., Sideli L.
- SAT-79 BEHAVIORAL AND NEUROCHEMICAL MODIFICATION OF MESOCORTICAL AND MESOLIMBIC DA MONITORED BY ACUTE AND CHRONIC MICRODIALYSIS PROBES AFTER DRUG AND FOOD CONDITIONED STIMULI  
**Bassareo V.**, Di Chiara G.
- SAT-80 NITRIC OXIDE IS PROTECTIVE AGAINST MERCURY INTOXICATION DEPRESSION  
**Nahavandi A.**, Shahbazi A., Moshiri M.

## DISORDERS OF THE NERVOUS SYSTEM

- SAT-81 WHAT IS THE FUNCTIONAL SIGNIFICANCE OF BDNF mRNA ISOFORMS? CELLS SURVIVAL IN NEUROBLASTOMA CELL LINES AFTER SELECTIVE SILENCING OF BDNF ISOFORMS  
**Baj G.**, Tongiorgi E.

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- SAT-82 COMPARATIVE PHARMACOLOGY OF ANTIDEPRESSANT DRUGS AT HUMAN AND RAT MONOAMINE TRANSPORTERS  
**Negri M.**, Benedetti R., Cavallini P., Faedo S., Andreetta F., Antolini M., Fragni M., Cavanni P., Wren P.B.
- SAT-83 THE PHARMACOLOGY OF [3H]ROLIPRAM BINDING TO PDE4 ENZYMES IN MOUSE AND MARMOSET BRAIN CORTEX  
**Cavallini P.**, Faedo S., Wren P.B.
- SAT-84 MECHANISM OF ACTION OF ALLOSTERIC mGluR2 POSITIVE MODULATORS CHARACTERIZED IN A GTPyS FUNCTIONALASSAY  
**Sava A.**, Rinaldi F., Cavanni P., Corsi M., Corti C.
- SAT-85 POST-MORTEM ANALYSIS INDICATE LEUKOCYTES RECRUITMENT IN THE BRAIN OF PATIENTS WITH EPILEPSY  
**Chakir A.**, Merigo F., Navarro Mora G., Benati D., Martinello M., Rossi B., Osculati A., Ottoboni L., Bach S., Sbarbat A., Butcher E.C., Constantin G., Fabene P.F.
- SAT-86 STATUS EPILEPTICUS-INDUCED ALTERATIONS IN THE RAT BRAIN AFTER PILOCARPINE ADMINISTRATION: NEW EVIDENCES ABOUT THE INVOLVEMENT OF CEREBRAL CORTEX AND THALAMUS  
**Zanetti L.**, Navarro Mora G., Chakir A., Schio F., Farace P., Nanni C., Trespidi S., Spinelli A., Quarta C., Ambrosini V., Sbarbat A., Fabene P.F.
- SAT-87 NEUROBEHAVIOURAL ASSESSMENT IN PRE-CLINICAL SPECIES: RODENTS, DOGS, MINI-PIGS AND MONKEYS  
**Moscardo E.**, Giarola A., Fasdelli N., Tontodonati M., Dorigatti R.
- SAT-88 PHARMACOLOGICAL STIMULATION OF NMDA RECEPTORS VIA CO-AGONIST SITE SUPPRESSES fMRI RESPONSE TO PHENCYCLIDINE IN THE RAT  
**Gozzi A.**, Herdon H., Schwarz A., Crestan V., Bifone A.
- SAT-89 THE FLINDERS RAT MODEL OF DEPRESSION: GENE-ENVIRONMENT INTERACTION AND NORTRIPTYLINE EFFECTS BY PROTEOMIC ANALYSIS  
**Piubelli C.**, De Luca M., Gruber S., Andersson W., El Khoury A., Mathé A.A., Domenici E., Carboni L.
- SAT-90 BIPOLAR DISORDER: POSITIVE ASSOCIATION WITH REV-ERB $\alpha$  GENE IN A SARDINIAN POPULATION  
**Severino G.**, Manchia M., Congiu D., Lampus S., Ardau R., Squassina A., Chillotti C., Del Zompo M.
- SAT-91 NICOTINE AND NORADRENERGIC TRANSMISSION: BETA-BLOCKER PROPRANOLOL INHIBITS REINSTATEMENT OF NICOTINE-SEEKING BEHAVIOUR IN RATS  
**Tedesco V.**, Giuliano C., Fumagalli G., Chiamulera C.
- SAT-92 D-PENICILLAMINE PREVENTS ETHANOL AND ACETALDEHYDE-INDUCED INCREASE IN MESOLIMBIC DOPAMINERGIC NEURONALACTIVITY  
**Lintas A.**, Sirca D., Peana A.T., Enrico P., Assaretti A.R., Mereu M., Golosio A., Diana M.
- SAT-93 EFFECTS OF ETHANOL AND ACETALDEHYDE ON EXTRACELLULAR REGULATED KINASES IN THE RAT NUCLEUS ACCUMBENS  
**Acquas E.**, Vinci S., Spiga S., Ibba F.
- SAT-94 DOPPEL EXPRESSION STUDIES IN HUMAN ASTROCYTIC-DERIVED TUMOR  
**Bazzoli E.**, Passarin M.G., Anghileri E., Ghimenton C., Azzalin A., Chiarelli L.R., Valentini G., Cardarelli M., Moretto G., Comincini S.

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**September, Saturday 29, 2007**

**SALA MASTINO**

**15.00 - 17.00**

**WORKSHOP**

**Sponsored by Leica and Crisel**

**NEW METHODS FOR IMAGING OF NEURAL NETWORKS**

Chairman: **F. S. Pavone** (Florence - Italy) - **A. Konnerth** (München - Germany)

Watching the brain compute and tracing its wires: new methods to solve old riddles

**W. Denk** (Heidelberg - Germany)

Calcium waves in the developing visual cortex 'in vivo'

**A. Konnerth** (München - Germany)

Non linear imaging, recording and manipulation in neural networks

**F. S. Pavone** (Florence - Italy)

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**SALA CANGRANDE**

**15.30 - 17.00**

**SYMPOSIUM 25**

**CENTRAL MECHANISMS OF PAIN MODULATION; RECENT ADVANCES**

Chairmen: **A. M. Aloisi** (Siena - Italy) **C. A. Porro** (Modena, Reggio Emilia - Italy)

Gonadal hormones modify pain and CNS

**I. Ceccarelli** (Siena - Italy)

Pharmacological modulation of brain activations and deactivations in response to nociceptive stimuli

**G. Iannetti** (Oxford - UK)

How does pain anticipation modulate brain activity?

**F. Lui** (Modena, Reggio Emilia - Italy)

Placebo and nocebo effect as models to understand cognitive modulation of pain

**L. Colloca** (Turin - Italy)

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**September, Saturday 29, 2007**

**SALA ALBOINO**

**15.30 - 17.00**

**SYMPOSIUM 26**

**MENTAL RETARDATION GENES AND SYNAPTIC DYSFUNCTIONS**

Chairmen: **C. Sala** (Milan - Italy) **C. Bagni** (Rome - Italy)

Mental retardation and translational control at synapses: new insights into the Fragile X Syndrome

**C. Bagni** (Rome - Italy)

Mental retardation linked to abnormal regulation of Rho GTPases pathways

**P. Billuart** (Paris - France)

The cognitive impairments in Gdi1 knockout mice are associated with anomalous number of synaptic vesicles

**P. D'Adamo** (Milan - Italy)

Shank3 haploinsufficiency: linking the 22q13deletion syndrome and mental retardation to synaptic dysfunctions

**C. Sala** (Milan - Italy)

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**SALA BARTOLOMEO**

**15.30 - 17.00**

**SYMPOSIUM 27**

**REPRESENTATION OF STATIC AND ACTING BODIES AND IDENTIFICATION OF SELF AS DISTINCT FROM OTHERS**

Chairmen: **V. Moro** (Verona - Italy) **C. Urgesi** (Udine - Italy)

Phantom bodies in the brain

**A. Sirigu** (Bron - France)

Multisensory illusions and bodily self

**P. Haggard** (London - UK)

Two cortical pathways for visual body processing investigated by means of transcranial magnetic stimulation

**C. Urgesi** (Udine - Italy)

Neuropsychological studies of body morphology and action recognition

**V. Moro** (Verona - Italy)

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**September, Saturday 29, 2007**

**SALA MASTINO E SALA CANGRANDE**

**17.00 - 18.00**

**PLENARY LECTURE**

Chairman: **A. Cangiano** (Verona - Italy)

Synaptic differentiation and specificity in mutant and fluorescent mice

**J. Sanes** (Boston - USA)

8.30 - 10.00

**SYMPORIUM 28**

**NEUROPLASTICITY AND DRUG ADDICTION**

Chairmen: **D. Parolaro** (Varese - Italy) **F. Fumagalli** (Milan - Italy)

Adolescent exposure to cannabinoids and long-term consequences on the adult behaviour

**N. Realini** (Varese - Italy)

Neuroplastic responses in the rat brain following single and repeated administration of cocaine: role of neurotrophic factors

**F. Fumagalli** (Milan - Italy)

Synaptic plasticity and drug dependence: the role of glutamatergic modulation in drug related behaviours and its therapeutic potential

**M. Pilla** (Verona - Italy)

Methylphenidate administration to adolescent rats drives enduring changes of gene expression, impulsive behavior and neuronal morphology

**D. Leo** (Naples - Italy)

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SALA CANGRANDE

8.30 - 10.00

**SYMPORIUM 29**

**PERIPHERAL NEUROPATHIES: FROM ANIMALS TO MAN**

Chairmen: **N. Rizzuto** (Verona - Italy) - **R. Melcangi** (Milan - Italy)

Charcot-Marie-Tooth neuropathy type 1: the teaching from animal models in understanding human pathology

**A. Schenone** (Genoa - Italy)

Animal models of axonal Guillain-Barré syndrome with antiganglioside antibodies

**A. Uncini** (Chieti - Italy)

The use of animal models in the study of chemotherapy-induced peripheral neurotoxicity

**G. Cavaletti** (Milan - Italy)

Models for the study and new strategies for the treatment of diabetes-associated neuropathy

**R. Bianchi** (Milan - Italy)

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September, Sunday 30, 2007

SALA ALBOINO

8.30 - 10.00

**SYMPORIUM 30**

**MITOCHONDRIAL DYSFUNCTION AND OXIDATIVE STRESS IN NEURODEGENERATIVE DISEASES**

Chairmen: **A. Scorziello** (Naples - Italy) **L. Canzoniero** (Benevento - Italy)

Mitochondrial dynamics and Ca<sup>2+</sup> signalling

**P. Pinton** (Ferrara - Italy)

cAMP-PK signaling to mitochondria: role of AKAP121 in mitochondrial responses to hypoxia

**A. Feliciello** (Naples - Italy)

Mitochondrial dysfunction in Huntington Disease

**L. Thompson** (Irvine - USA)

Mitochondrial dysfunction in amyotrophic lateral sclerosis

**M. T. Carri** (Rome - Italy)

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SALA BARTOLOMEO

8.30 - 10.00

**SYMPORIUM 31**

**TMS-EEG: A NEW WINDOW ON THE HUMAN BRAIN**

Chairmen: **M. Massimini** (Milan - Italy) - **P. Manganotti** (Verona - Italy)

Brain oscillatory repetitive TMS: a combined EEG/TMS study possible application in healthy subjects and in patients

**P. Manganotti** (Verona - Italy)

Neurophysiological responses to pulses of TMS applied over the cortical motor system in healthy and diseased subjects

**Y. van der Werf** (Amsterdam - The Netherlands)

EEG responses to TMS as a function of the state of vigilance

**M. Massimini** (Milan - Italy)

Modulation of EEG activities by Transcranial Magnetic Stimulation

**C. Miniussi** (Brescia - Italy)

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**September, Sunday 30, 2007**

**SALA MASTINO**

**10.30 - 12.00**

**SYMPORIUM 32**

**SYNAPTIC VESICLES AND EPILEPSY**

Chairmen: **M. Matteoli** (Milan - Italy) **F. Benfenati** (Genoa - Italy)

Synapsins and epilepsy

**P. Baldelli** (Genoa - Italy)

Regulation of intracellular calcium and network excitability by SNAP-25

**D. Pozzi** (Milan - Italy)

SV2A: a novel presynaptic target for antiepileptic drugs

**K. Miller** (Braine L'Alleud - Belgium)

Effects of botulinum neurotoxins in the central nervous system: anti-epileptic actions

**M. Caleo** (Pisa - Italy)

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**SALA CANGRANDE**

**10.30 - 12.00**

**SYMPORIUM 33**

**Società Italiana di Neuroscienze (SINS) - Società Italiana di Neurologia (SIN)**

**AMYLOID TOXICITY IN CENTRAL AND PERIPHERAL NERVOUS SYSTEM**

Chairmen: **C. Ferrarese** (Milan - Italy) **N. Rizzuto** (Verona - Italy)

Mechanisms of amyloidogenesis

**A. Sorbi** (Florence - Italy)

Novel mechanisms of activation of ADAM10: bridging synaptic failure and the amyloid cascade

**M. Di Luca** (Milan - Italy)

Interplay among β-amyloid, oxidative stress, excitotoxicity and vascular damage in Alzheimer's disease

**L. Tremolizzo** (Milan - I)

Peripheral neuropathy in systemic amyloidosis

**G. Merlini** (Pavia - Italy)

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**September, Sunday 30, 2007**

**SALA ALBOINO**

**10.30 - 12.00**

**SYMPOSIUM 34**

**NEW ADVANCES ON MOVEMENT DISORDERS: FROM GENETICS TO COGNITIVE FUNCTIONS**

Chairmen: **M. Tinazzi** (Verona - Italy) - **M. Fiorio** (Verona - Italy)

Neuroplasticity in Dystonia

**J. Classen** (Würzburg - Germany)

Sensory and cognitive functions in movement disorders. Highlights for endophenotypic traits

**M. Fiorio** (Verona - Italy)

PINK1 and Parkinson disease: insights from a mitochondrial kinase

**E. M. Valente** (Rome - Italy)

New insights into the neurophysiology of movement disorder

**J. Rothwell** (London - UK)

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**SALA BARTOLOMEO**

**10.30 - 12.00**

**SYMPOSIUM 35**

**THE PLASTICITY OF FACE AND OBJECT REPRESENTATIONS IN THE PRIMATE TEMPORAL LOBE**

Chairmen: **N. van Rijnsbergen** (Trieste - Italy) **A. Treves** (Trieste - Italy)

Responses to dynamic visual stimuli in inferotemporal cortex of the macaque monkey

**B. Jagadeesh** (Seattle - USA)

Cortical dynamics of face expression aftereffects revealed by magnetoencephalography and functional magnetic resonance imaging

**N. Furl** (London - UK)

Predicting facial expressions: adaptation after effects of changing expressions

**N. van Rijnsbergen** (Trieste - Italy)

Early modulation of repetition effects by facial emotional expression: evidence from EEG and MEG

**S. Morel** (Paris - France)

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**September, Sunday 30, 2007**

**SALA MASTINO E SALA CANGRANDE**

**12.00 - 13.00**

**PLENARY LECTURE**

Chairman: **G. Di Chiara** (Cagliari - Italy)

The neurobiology of the placebo effect

**F. Benedetti** (Turin - Italy)

**POSTERS**

**DISORDERS OF THE NERVOUS SYSTEM**

- SUN-01 AGE-DEPENDENT REGULATION OF HIPPOCAMPAL NEUROGENESIS IN A MODEL OF CHRONIC BRAIN HYPOPERFUSION  
**Sivilia S.**, Giuliani A., Del Vecchio G., Giardino L., Calzà L.
- SUN-02 PROTEIN KINASE A-REGULATORY SUBUNITS ARE DIFFERENTIALLY DISTRIBUTED IN HUMAN BRAIN TUMORS  
**Mucignat-Caretta C.**, Denaro L., D'Avella D., Caretta A.
- SUN-03 GENE DELIVERY TO THE BRAIN: BOVINE HERPESVIRUS 4 AS A VECTOR IN A RAT MODEL  
**Redaelli M.**, Cavaggioni A., Mucignat-Caretta C., Caretta A., Donofrio G.
- SUN-04 PERIPHERAL NEUROPATHY IN EBF2 NULL MICE  
**Giacomini C.**, La Padula V., Schenone A., Goutebroze L., Girault J.A., Consalez G.G., Benfenati F., Corradi A.
- SUN-05 CHOLINERGIC CONTROL OF GLIOBLASTOMA CELL LINE GROWTH IS MEDIATED BY DIFFERENT MUSCARINIC RECEPTOR SUBTYPES  
**Tata A.M.**, Augusti Tocco G., Ferretti M., Corsetti V., De Angelis F., Fabiano C., Calogero A.
- SUN-06 4-AMINOPYRIDINE-INDUCED METABOLIC ALTERATION IN THE RAT BRAIN  
**Schio F.**, Zanetti L., Navarro Mora G., Chakir A., Farace P., Nanni C., Trespidi S., Spinelli A., Quarta C., Ambrosini V., Sbarbat A., Fabene P.F.
- SUN-07 ALTERATIONS IN THE LEVELS OF NGF, ITS RECEPTOR TrkA AND NEUROFILAMENT PROTEINS IN THE SUPERIOR CERVICAL GANGLION OF MDX MICE  
**Lombardi L.**, De Stefano M.E., Paggi P.
- SUN-08 EFFECTS OF ENVIRONMENTAL ENRICHMENT IN MeCP2 KO MICE  
**Lonetti G.**, Pizzorusso T.
- SUN-09 ANATOMICAL EXAMINATION OF SYNAPSES IN A MOUSE MODEL OF RETT SYNDROME REVEALS REGION-SPECIFIC ALTERATIONS AND STRUCTURAL SYNAPTIC PLASTICITY  
**Boggio E.**, Morando L., Pallotto M., Lonetti G., Putignano E., Sassoè-Pognetto M., Pizzorusso T., Giustetto M.
- SUN-10 SURVIVAL AND EFFECTS OF STEM CELLS TRANSPLANTATION IN AN EXPERIMENTAL MODEL OF SPINAL CORD INJURY  
**Boido M.**, Garbossa D., Muraca G., Ducati A., Fontanella M., Vercelli A.
- SUN-11 MODULATION OF STRIATAL DOPAMINE RELEASE BY NEBOGLAMINE, AN ALLOSTERIC MODULATOR OF NMDARECEPTOR FUNCTIONALITY  
**Espinosa S.**, Lanza M., Caselli G.F.
- SUN-12 DELTA OPIOID RECEPTOR AGONISTS MODULATE MOTOR PERFORMANCE AND NEUROCHEMISTRY IN THE 6-HYDROXYDOPAMINE LESIONED RAT  
**Mabrouk O.S.**, Marti M., Morari M.
- SUN-13 IS AUTORECEPTOR DESENSITIZATION INVOLVED IN THE ONSET OF THERAPEUTIC IMPROVEMENT BY SSRI?  
**Valentini V.**, Frau R., Di Chiara G.
- SUN-14 ELECTROPHYSIOLOGICAL AND IMMUNOHISTOCHEMICAL STUDIES ON THE DISTRIBUTION OF SIX MEMBERS OF A-TYPE K<sup>+</sup> CHANNELS PROTEINS IN RAT CEREBELLUM GRANULAR CELLS, HIGHLIGHT THE ROLE OF THE KV 1.4 CHANNEL MODULATED BY MUSCARINIC RECEPTOR M2  
**Romeo S.**, Murgia A.R., Falugi C., Deplano S., Prestipino G.
- SUN-15 hNav1.1 SODIUM CHANNEL MIGRAINE MUTATIONS: WHY MIGRAINE AND NOT EPILEPSY?  
**Scalmani P.**, Cestèle S., Rusconi R., Franceschetti S., Mantegazza M.

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- SUN-16 DEVELOPMENT OF AN ENZYMIC BINDING ASSAY FOR IDENTIFICATION OF DKK1/LRP6 ANTAGONISTS AS THERAPY FOR NEURODEGENERATIVE DISORDERS  
**Remelli R.**, Diamanti D., Ferraro T., Lorenzini R., Roncarati R., Caricasole A.
- SUN-17 GAIN-OF-FUNCTION OF THE P/Q-type  $\text{Ca}^{2+}$  CHANNEL SELECTIVELY IN A SUBGROUP OF PUTATIVE NOCICEPTIVE TRIGEMINAL GANGLION NEURONS OF KNOCKIN MICE CARRYING A MUTATION ASSOCIATED TO FAMILIAL HEMIPLEGIC MIGRAINE TYPE 1  
**Fioretti B.**, Catacuzzeno L., Ferrari M.D., Frants R.R., van den Maagdenberg A.M.J.M., Franciolini F., Pietrobon D.
- SUN-18 ABNORMAL STRIATAL GABA TRANSMISSION IN THE MOUSE MODEL FOR THE FRAGILE X SYNDROME  
**Musella A.**, De Chiara V., Rossi S., Ferrari F., Napoli I., Prosperetti C., Bernardi G., Bagni C., Centonze D.
- SUN-19 GAIN-OF-FUNCTION OF EXCITATORY SYNAPTIC TRANSMISSION IN CORTICAL SLICES AND MICROCULTURES OF CORTICAL NEURONS FROM KNOCKIN MICE CARRYING A FAMILIAL HEMIPLEGIC MIGRAINE MUTATION IN THE P/Q-type  $\text{Ca}^{2+}$  channel (CaV2.1) GENE  
**Conti R.**, Tottene A., Santello M., Shapovalova M., Ferrari M.D., Frants R.R., van den Maagdenberg A.M.J.M., Pietrobon D.
- SUN-20 EFFECTS OF CHOLESTEROL DEPLETION ON HYPOCAMPAL SYNAPTIC TRANSMISSION  
**Frank C.**, D'Arcangelo G., Rufini S., Tancredi V.
- SUN-21 BEHAVIORAL, FUNCTIONAL AND MOLECULAR CHARACTERIZATION OF A GENE-ENVIRONMENT COMBINATION RAT MODEL OF DEPRESSION  
**Musazzi L.**, Barbiero V.S., Ryan B.K., Giambelli R., Mallei A., Mathè A.A., El Khoury A., Gruber S.H., Racagni G., Rowan M.J., Popoli M.
- SUN-22 ABETA(1-42) IMPAIRS LTP IN MOUSE ENTORHINAL CORTEX THROUGH RAGE  
**Domenici L.**, Origlia N., Arancio O., Yan S.D.
- SUN-23 TIME-DEPENDENT AND SEQUENTIAL INDUCTION OF SIGNALING, CREB ACTIVATION AND BDNF EXPRESSION INDUCED BY ANTIDEPRESSANT TREATMENT  
**Barbiero V.S.**, Tiraboschi E., Cattaneo A., Tardito D., Moraschi S., Gennarelli M., Barlati S., Racagni G., Popoli M.
- SUN-24 PROTEOMIC ANALYSIS OF A BEHAVIORAL ANIMAL MODEL OF DEPRESSION AFTER ANTIDEPRESSANT TREATMENT  
**Giambelli R.**, Vollmayr B., Barbiero V.S., Mallei A., Dormann C., Gass P., Racagni G., Popoli M.
- SUN-25 RESTRICTED LESIONS OF OLFACTORY MUCOSA ARE SUFFICIENT TO MODULATE EXPLORATORY AND SOCIAL BEHAVIOURS IN MICE  
**Bondi M.**, Mucignat-Caretta C.
- SUN-26 GLAUCOMA DOWN-REGULATES NGF PRESENCE IN THE GENICULATE NUCLEUS AND VISUAL CORTEX OF ADULT RAT: EFFECT OF EYE NGF ADMINISTRATION  
**Sposato V.**, Parisi V., Coassin M., Manni L., Antonucci M.T., Di Fausto V., Lambiase A., Aloe L.
- SUN-27 DIFFERENT BEHAVIOR OF MUTANT SOD1 IN MOTORNEURONAL AND MUSCLE CELLULAR MODELS OF AMYOTROPHIC LATERAL SCLEROSIS  
**Onesto E.**, Crippa V., Sau D., Galbiati M., Poletti A.
- SUN-28 DIFFERENT MOTOR RESPONSES AND mRNA CHANGES INDUCED BY LOW AND HIGH DYSKINETIC TREATMENTS IN THE 6-OHDARAT MODEL OF PARKINSON'S DISEASE  
**Frau L.**, Carta A.R., Pinna A., Pontis S., Morelli M.
- SUN-29 TRANSCRANIAL MAGNETIC STIMULATION DOCUMENTS MOTOR HYPEREXCITABILITY TO FLASH STIMULATION IN PATIENTS WITH PARKINSON'S DISEASE  
**Tamburin S.**, Zanette G., Manganotti P., Milanese F., Polo A., Fiaschi A.
- SUN-30 BLOCKADE OF METABOTROPIC GLUTAMATE RECEPTORS COUNTERACTS L-DOPA INDUCED DYSKINESIA IN A RODENT MODEL OF PARKINSON'S DISEASE  
**Levandis G.**, Bazzini E., Armentero M.T., Nappi G., Blandini F.
- SUN-31 NEUROPROTECTIVE POTENTIAL OF HUMAN MESENCHYMAL STEM CELLS IN A RODENT MODEL OF PARKINSON'S DISEASE  
**Armentero M.T.**, Cova L., Zennaro E., Levandis G., Calzarossa C., Bossolasco P., Mellone M., Soligo D., Lambertenghi Delilieri G., Polli E., Silani V., Blandini F.

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- SUN-32 BEHAVIORAL AND NEUROCHEMICAL CHARACTERIZATION OF AN ATAXIC MICE COLONY  
**Massella A.**, Gusciglio M., Giuliani A., D'Intino G., Antonelli T., Ferraro L., Calzà L., Giardino L.
- SUN-33 EXACERBATED AGE-DEPENDENT LOSS OF NIGRAL DOPAMINERGIC NEURONS IN NF-kappaB c-Rel -/- MICE  
**Alghisi M.**, Monfardini S., Benarese M., Baiguera C., Sarnico I., Boroni F., Spano P.F., Pizzi M.
- SUN-34 GSK-3beta AND APP PROCESSING IN ALZHEIMER'S DISEASE PATHOGENESIS  
**Ploia C.**, Colombo A., Sclip A., Forloni G., Borsello T.
- SUN-35 ANALYSIS OF THE "IN VITRO" AGGREGATION PROPERTIES OF THE ANDROGEN RECEPTOR CONTAINING AN EXPANDED POLYGLUTAMINE TRACT  
**Palazzolo I.**, Bolzonni E., Rusmini P., Gliozzi A., Relini A., Beeg M., Salmona M., Poletti A.
- SUN-36 LACK OF STRIATAL LONG-TERM DEPRESSION IN A MOUSE MODEL OF DYT1 DYSTONIA  
**Platania P.**, Martella G., Cuomo D., Bonsi P., Sciamanna G., Vita D., Sharma N., Bernardi G., Standaert D.G., Pisani A.
- SUN-37 IMPAIRED DOPAMINERGIC D2 RECEPTOR RESPONSES IN STRIATAL CHOLINERGIC INTERNEURONS IN MICE WITH THE DYT1 DYSTONIA MUTATION  
**Cuomo D.**, Martella G., Platania P., Bonsi P., Sciamanna G., Tassone A., Sharma N., Standaert D.G., Pisani A.
- SUN-38 SUBACUTE TREATMENT WITH THE NOCICEPTIN/ORPHANIN FQ RECEPTOR ANTAGONIST J-113397 ALLEVIATES HYPOKINESIA IN RESERPINE-TREATED MICE  
**Marti M.**, Viaro R., Morari M.
- SUN-39 MERGING AMYLOID-BETA CASCADE AND ACTIVITY-DEPENDENT PLASTICITY IN HIPPOCAMPUS: A POSSIBLE ROLE FOR ADAM10  
**Marcello E.**, Gardoni F., Vara H., Polli F., Epis R., Cattabeni F., Giustetto M., Di Luca M.
- SUN-40 GENE EXPRESSION PROFILING OF SKELETAL MUSCLE FROM SOD1G93A TRANSGENIC MOUSE  
**Fallini C.**, Volta M., Ratti A., Grignaschi G., Calza S., Daleno C., Bendotti C., Silani V.
- SUN-41 ORGANIZATION OF CORTICO-CORTICAL ASSOCIATIVE PROJECTIONS IN THE MOTOR AND SOMATOSENSORY REGIONS OF THE MUTANT MDX MOUSE  
**Minciacchi D.**, Del Tongo C., Nosi D., Carretta D., Catini C., Granato A.
- SUN-42 ALPHA-SYNUCLEIN AGGREGATION IN DOPAMINERGIC CELLS IS MODULATED BY GLUCOSE METABOLISM  
**Bellucci A.**, Tognazzi N., Collo G., Missale C., Spano P.F.
- SUN-43 INTRACELLULAR CALCIUM DYSREGULATION BY TAU-P301L IN RAT PRIMARY CORTICAL NEURONS  
**Zampese E.**, Brunello L., Ghidoni R., Benussi L., Binetti G., Fasolato C., Pizzo P.
- SUN-44 EFFECTS OF THE NEW ADENOSINE A2A RECEPTOR ANTAGONIST ST1535 IN RAT MODELS OF PARKINSON'S DISEASE: ACUTE AND SUBCHRONIC STUDIES  
**Tronci E.**, Simola N., Borsini F., Schintu N., Frau L., Carminati P., Morelli M.
- SUN-45 PRESYNAPTIC ALTERATIONS IN THE BRAIN OF A MURINE MODEL OF NIEMANN-PICK DISEASE  
**Vara H.**, Camoletto P., Morando L., Giustetto M., Ledesma M.D., Sassoé-Pognetto M.
- SUN-46 DENDRITIC SPINES ALTERATION IN NEURONS LACKING ACID SPHINGOMYELINASE  
**Camoletto P.G.**, Morando L., Sassoé-Pognetto M., Dotti C.G., Ledesma M.D.
- SUN-47 ASSOCIATION OF THE hOGG1 Ser326Cys POLYMORPHISM WITH SPORADIC AMYOTROPHIC LATERAL SCLEROSIS  
**Coppedè F.**, Mancuso M., Lo Gerfo A., Carlesi C., Piazza S., Rocchi A., Migliore L., Murri L., Siciliano G.
- SUN-48 GLUTAMATERGIC TRANSMISSION IS ALTERED IN EAE MICE: PRELIMINARY RESULTS  
**Marte A.**, Pepicelli O., Uccelli A., Mancardi L., Casazza S., Raiteri M., Fedele E.
- SUN-49 ADENOSINE A2A RECEPTORS AND MODULATION OF NEUROTROPHIC EFFECTS  
**Potenza R.L.**, Tebano M.T., Martire A., Domenici M.R., Pèzzolla A., Popoli P.

- 
- SUN-50 BEHAVIOURAL STUDY OF ENGRAILED MUTANT MICE AS MODEL OF PARKINSON'S DISEASE  
**Pontis S.**, Pinna A., Sgadò P., Corsini G.U., Morelli M.
- SUN-51 EFFECT OF DELTA OPIOID RECEPTORS BLOCKADE ON TURNING BEHAVIOR INDUCED BY DOPAMINE AGONISTS IN UNILATERALLY 6-HYDROXYDOPAMINE-LESIONED RATS  
**Fenu S.**, Spina L., Longoni R., Di Chiara G.
- SUN-52 SYNAPTIC DEGENERATION IN EARLY ALZHEIMER DISEASE:TOWARDS THE DEFINITION OF THE CELLULAR AND MOLECULAR MECHANISMS  
**D'Amelio M.**, Cavallucci V., De Zio D., Carrara P., Moreno S., Cecconi F.
- SUN-53 6-HYDROXYDOPAMINE DENERVATION INFLUENCES THE NITRIC OXIDE/cGMP SIGNALING OF THE RAT STRIATUM: AN IN VIVO MICRO-IONTOPHORETIC STUDY  
**Galati S.**, Stefani A., Procopio T., Marzetti F., D'Angelo V., Sancesario G., Scarnati E., Stanzione P., Fedele E.
- SUN-54 DISTRIBUTION OF GROUP I METABOTROPIC GLUTAMATE RECEPTORS IN THE SPINAL CORD IN TRANSGENIC MICE WITH A G93A MUTANT SOD1 GENE  
**Laureanti F.**, D'Antoni S., Berretta A., Seminara G., Giuffrida-Stella A.M., Longone P., Spalloni A., Giuffrida R., Catania M.V.
- SUN-55 ENHANCED VULNERABILITY OF TAU-MUTANT MOTONEURONS TO PERIPHERAL AXONAL DAMAGE  
**Cupidi C.**, Mariotti R., Mehari Kassa R., Giaccone G., Bugiani O., Bentivoglio M.
- SUN-56 GENERATION OF AN HUMAN NH-2 DERIVED TAU FRAGMENT IMPAIRING MITOCHONDRIAL FUNCTION DURING APOPTOSIS OF CHOLINERGIC NEURONS  
**Amadoro G.**, Corsetti V., Atlante A., Gentile A., Canu N., Cencioni M.T., Rohn T., Calissano P.
- SUN-57 CLINICAL AND GENETIC EVALUATION OF A FAMILY SHOWING BOTH AUTISM AND EPILEPSY  
**Redaelli S.**, Combi R., Provenzi M., Cornaggia C.M., Dalprà L.
- SUN-58 CHARACTERIZATION OF MORPHOLOGIC ALTERATIONS OF BNUU-treated RAT NEOCORTEX  
**Moroni R.**, Regondi M.C., Inverardi F., Garbelli R., Spreafico R., Frassoni C.
- SUN-59 MICROARRAY PROFILE OF SEIZURE DAMAGE-REFRACTORY HIPPOCAMPAL CA3 IN A MOUSE MODEL OF EPILEPTIC PRECONDITIONING  
**Jimenez-Mateos E.M.**, Hatazaki S., Bellver-Estelles C., Henshall D.C.
- SUN-60 ELETROPHYSIOLOGICAL PROPERTIES OF MUTANT alpha2beta4 nAChR LINKED TO A FORM OF AUTOSOMAL NOCTURNAL FRONTAL LOBE EPILEPSY (ADNFLE)  
**Di Resta C.**, Ambrosi P., Morini R., Beccetti A.
- SUN-61 NEUROGENESIS IN ADULT HUMAN DENTATE GYRUS OF PATIENTS WITH TEMPORAL LOBE EPILEPSY  
**Paradisi M.**, Fernández M., Sivilia S., Marucci G., Giulioni M., Pozzati E., Zucchelli M., Calbucci F., Antonelli T., Giardino L., Calzà L.
- SUN-62 NITRIC OXIDE CONTROL OF EXPERIMENTAL MODEL OF PARTIAL EPILEPTIC SEIZURES: IN VIVO AND IN VITRO ELECTROPHYSIOLOGICAL STUDY IN THE RAT  
**Carletti F.**, D'Agostino S., Rizzo V., Sardo P., Ferraro G., La Grutta V.
- SUN-63 PUMA AND p53 IN THE SETTING OF SEIZURE-INDUCED NEURONAL DEATH  
**Engel T.**, Hatazaki S., Koegel I., Bellver-Estelles C., Jimenez-Mateos E.M., Prehn J.H.M., Henshall D.C.
- SUN-64 THE EXPRESSION OF IMPORTIN-BETA 1 IN THE HIPPOCAMPUS IS REGULATED DURING EPILEPTOGENESIS  
**Bozzi Y.**, Scali M., Caleo M., Brillì E.
- SUN-65 MISFOLDING AND EPILEPTOGENIC MUTATIONS OF NEURONAL VOLTAGE GATED SODIUM CHANNELS  
**Rusconi R.**, Combi R., Scalmani P., Bechi G., Franceschetti S., Dal Pra L., Mantegazza M.
- SUN-66 MODULATORY EFFECTS OF NEUROSTEROIDS ON EPILEPTOGENESIS IN THE PILOCARPINE MODEL OF TEMPORAL LOBE EPILEPSY  
**Baldelli E.**, Longo D., Rogawski M.A., Avoli M., Biagini G.

- 
- SUN-67 SEIZURE SUSCEPTIBILITY OF HIV-1 TAT-TRANSGENIC MICE: IMPLICATIONS FOR THE ROLE OF TAT IN HIV-1 ASSOCIATED NEUROPATHY (HAN)  
**Zucchini S.**, Caputo A., Brocca Cofano E., Bonaccorsi A., De Michele R., Altavilla G., Barbanti-Brodano G., Simonato M.
- SUN-68 PROEPILEPTIC INFLUENCE OF A FOCAL VASCULAR LESION AFFECTING ENTORHINAL CORTEX-Ca3 CONNECTIONS AFTER STATUS EPILEPTICUS  
**Longo D.**, Baldelli E., Conti M., Guerrini, Sironi L., Gelosa P., Zini I., Avoli M., Biagini G.
- SUN-69 PROTECTIVE ACTIONS OF DNS II IN EPILEPSY MODEL IN MICE  
**Liaquat Raza M.**, Perveen H., Zeeshan M., Ahmad M., Shaheen F., Simjee S.U.
- SUN-70 SYNAPSIN I AND SYNAPSIN II KNOCKOUT MICE EXHIBIT A DISTINCT AGE-DEPENDENT HYPEREXCITABILITY IN HIPPOCAMPAL-ENTORHINAL CORTEX SLICES  
**D'Arcangelo G.**, Tancredi V., Corradi A., Benfenati F.
- SUN-71 THE ROLE OF CORTEX IN ABSENCE EPILEPSY: FOCAL OR GENERALIZED EPILEPSY?  
**Pellitteri M.**, Navarro Mora G., Chakir A., Opri S., Galie M., Merigo F., Sbarbati A., van Luijtelaar G., Fabene P.F.
- SUN-72 DOES LPS-INDUCED INFLAMMATION TRIGGER EPILEPTOGENIC MECHANISMS IN PILOCARPINE TREATED RATS?  
**Navarro Mora G.**, Schio F., Zanetti L., Chakir A., Sbarbati A., Fabene P.F.
- SUN-73 ACETYLATION OF NF-KAPPAB p50/p65 IN THE EPIGENETIC REGULATION OF TRANSCRIPTION: A NEUROPROTECTIVE TARGET IN BRAIN ISCHEMIA  
**Lanzillotta A.**, Boroni F., Sarnico I., Benarese M., Spano P.F., Pizzi M.
- SUN-74 GLUTAMATE RECEPTORS AND POLY(ADP-RIBOSE) POLYMERASE: DIFFERENTIAL INVOLVEMENT IN MODELS OF ISCHEMIC PRECONDITIONING AND POSTCONDITIONING IN VITRO  
**Gerace E.**, Scartabelli T., Moroni F., Chiarugi A., Pellegrini-Giampietro D.
- SUN-75 TIME-DEPENDENT CHANGES DUE TO ISCHEMIA-REPERFUSION INJURY IN RAT PIAL MICROCIRCULATION  
**Vagnani S.**, Lapi D., Marchiafava P.L., Longoni B., Mosca F., Colantuoni A.
- SUN-76 OVEREXPRESSION OF AKAP121 IN HEK293 CELLS REGULATES MEMBRANE POTENTIAL AND CALCIUM CONCENTRATION IN MITOCHONDRIA EXPOSED TO HYPOXIC CONDITIONS  
**Adornetto A.**, Scorziello A., Carlucci A., Feliciello A., Annunziato L.
- SUN-77 A PRETREATMENT WITH MPEP, A SPECIFIC METABOTROPIC GLUTAMATE RECEPTOR SUBTYPE 5 ANTAGONIST, PROTECTS AGAINST AMPA-MEDIATED MOTOR NEURON DEATH IN MIXED SPINAL CORD CULTURES  
**D'Antoni S.**, Berretta A., Seminara G., Spalloni A., Longone P., Laureanti F., Giuffrida R., Giuffrida-Stella A.M., Sortino M.A., Catania M.V.
- SUN-78 TESTOSTERONE DERIVATIVES ARE NEUROPROTECTIVE AGENTS IN EXPERIMENTAL DIABETIC NEUROPATHY  
**Roglio I.**, Giatti S., Pesaresi M., Bianchi R., Cavaletti G., Caruso D., Scurati S., Lauria G., Melcangi R.C.
- SUN-79 THYROID HORMONE ADMINISTRATION FAVOURS REMYELINATION IN EXPERIMENTAL ALLERGIC ENCEPHALOMYELITIS IN THE NON-HUMAN PRIMATE MARMOSET (CALLITHRIX JACCHUS)  
**D'Intino G.**, Lorenzini L., Del Vecchio G., Perretta G., Taglioni A., Calzà L., Giardino L.
- SUN-80 EVALUATION OF SEIZURE SUSCEPTIBILITY IN A MUTANT MOUSE OF CLN-8 GENE, A MODEL OF PROGRESSIVE EPILEPSY WITH MENTAL RETARDATION  
**Barbera S.**, Bigini P., Balosso S., Vezzani A., Mennini T.
- SUN-81 PROGESTERONE AND ITS DERIVATIVES AS PROTECTIVE AGENTS IN EXPERIMENTAL DIABETIC NEUROPATHY  
**Giatti S.**, Roglio I., Pesaresi M., Bianchi R., Cavaletti G., Garcia-Segura L.M., Lauria G., Melcangi R.C.
- SUN-82 INTERACTIONS BETWEEN mGlu1 RECEPTORS AND ENDOCANNABINOIDs IN HIPPOCAMPAL POST-ISCHEMIC NEURONAL DEATH  
**Scartabelli T.**, Landucci E., Cozzia A., Moroni F., Mannaioni G., Pellegrini-Giampietro D.

- 
- SUN-83 NEUROPROTECTION BY ERYTHROPOETIN AND DARBOPOETIN-ALFA FOLLOWING EXPERIMENTAL INTRACEREBRAL HEMORRHAGE  
**Graziano F.**, Grasso G., Carletti F., Stagno V., Meli F., Iacopino D.G.
- SUN-84 HETEROGENEITY OF THE VASCULAR PHENOTYPE IN HUMAN BRAIN TUMOURS  
**Girolamo F.**, Errede M., Capobianco C., Roncali L., Frei K., Virgintino D.
- SUN-85 NCX1 AND NCX3 GENE PRODUCTS CONSTITUTE NOVEL ADDITIONAL TARGETS FOR THE PRO-SURVIVAL ACTION OF Akt/PKB PATHWAY  
**Saggese M.**, Formisano L., Secondo A., Strabella R., Vito P., Valsecchi V., Molinaro P., Di Renzo G., Annunziato L.
- SUN-86 NEUROPROTECTION BY THE A2A RECEPTOR ANTAGONIST SCH58261 IN THE MPTP MODEL OF PARKINSON'S DISEASE: STUDY OF THE INFLAMMATORY REACTION  
**Schintu N.**, Carta A.R., Morelli M.
- SUN-87 KNOCKOUT OF A2A ADENOSINE RECEPTOR IS NEUROPROTECTIVE AGAINST MPTP-INDUCED DOPAMINERGIC DEGENERATION AND GLIOSIS  
**Carta A.R.**, Schintu N., Morelli M.
- SUN-88 THERAPEUTIC EFFECT OF PURINERGIC ANTAGONISM IN NOCICEPTIVE HYPERSENSITIVITY FOLLOWING TO MOUSE MONONEUROPATHY: PERIPHERAL AND CENTRAL INVOLVED MECHANISMS  
**Trovato A.E.**, Franchi S., Magnaghi V., Panerai A.E., Procacci P., Sacerdote P., Valsecchi A.E., Colleoni M.
- SUN-89 NGF PROMOTES MICROGLIAL MIGRATION THROUGH THE ACTIVATION OF ITS HIGH AFFINITY RECEPTOR: INTERACTION WITH TGF-beta AND RELEVANCE TO CHRONIC NEURODEGENERATIVE DISEASES  
**Carnevale D.**, De Simone R., Ambrosini E., Ajmone-Cat M.A., Minghetti L.
- SUN-90 NGF AND BDNF LEVELS IN THE BRAIN AND BLOOD OF CLOZAPINE OR HALOPERIDOL TREATED RATS  
**Fiore M.**, Di Fausto V., Iannitelli A., Aloe L.
- SUN-91 LESION EVOLUTION IN PIAL MICROCIRCULATION AFTER TRANSIENT OCCLUSION OF THE MIDDLE CEREBRAL ARTERY IN RATS  
**Lapi D.**, Vagnani S., Marchiafava P.L., Colantuoni A.
- SUN-92 TISSUE FACTOR PATHWAY INHIBITOR AND HYPERHOMOCYSTEINEMIA IN ALZHEIMER'S DISEASE AND MILD COGNITIVE IMPAIRMENT  
**Piazza F.**, Galimberti G., Conti E., Galbussera A., Borroni B., Isella V., Longoni M., Speranza T., Pogiani E. M., Padovani A., Ferrarese C.
- SUN-93 MULTIDIMENSIONAL EVALUATION OF QUALITY OF LIFE IN CHRONIC PAIN PATIENTS TREATED WITH SPINAL CORD STIMULATION  
**Vignale L.**, Masini M., Dondoli C.
- SUN-94 PSYCHOPHYSIOLOGICAL PROFILE IN PAIN  
**Masini M.**, Vignale L., Dondoli C.

14.30 - 17.00

**WORKSHOP**

**MECHANISMS OF NEURONAL DEGENERATION**

Chairman: **O. Bugiani** (Milan - Italy)

Tauopathy in human and experimental variant Creutzfeldt-Jakob disease

**G. Giaccone** (Milan - Italy)

The activation of Cdk5 is not correlated with pathologic tau protein in animal models

**R. Borghi** (Genoa - Italy)

Molecular interplay between alpha-synuclein, dj-1 and hsp70 in cellular models of oxidative stress

**G. Forloni** (Milan - Italy)

TNF alpha-dependent activation of JNK and p38 MAP kinases in the cervical spinal cord of wobbler mice, and possible involvement in motor neuron degeneration

**T. Mennini** (Milan - Italy)

Mitochondrial toxicity in cell models for familial amyotrophic lateral sclerosis

**L. Cantoni** (Milan - Italy)

Mitochondrial Ca<sup>2+</sup> handling in murine models of motoneuron diseases

**I. Grecchi** (Pavia - Italy)

Mechanisms of protein aggregation in a mouse model of familial amyotrophic lateral sclerosis

**C. Bendotti** (Milan - Italy)

The relevance of the axonal-SMN (a-SMN) protein in the process of axonogenesis and in the pathogenesis of Spinal Muscular Atrophy

**G. Battaglia** (Milan - Italy)

Neurodegeneration in central motor circuits and relationship with muscular target

**R. Mariotti** (Verona - Italy)

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**September, Sunday 30, 2007**

**SALA CANGRANDE**

**15.00 - 17.00**

**SYMPOSIUM 36**

**Associazione Italiana di Neuroimmunologia (AINI), Associazione Italiana di Neuropatologia (AINP) e Società Italiana di Neuroscienze (SINS)**

**NEUROINFLAMMATION AT THE CROSSROAD OF NEUROSCIENCES**

Chairmen: **M. Bentivoglio** (Verona - Italy) - **N. Rizzuto** (Verona - Italy) - **G. Martino** (Milan - Italy)

Clinical features of multiple sclerosis and inflammatory demyelinating disorders of the central nervous system

**G.L. Mancardi** (Genoa - Italy)

Neuroinflammation and neurodegeneration

**M. Schwartz** (Rehovot - Israel)

Lymphoid neogenesis in chronic neuroinflammation

**F. Aloisi** (Rome - Italy)

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**SALA MASTINO**

**15.30 - 17.00**

**SYMPOSIUM 37**

**TARGETING WNT AND HEDGEHOG PATHWAYS IN NEURODEGENERATION AND NEUROPROLIFERATION**

Chairmen: **G. Gaviraghi** (Siena - Italy) **G. C. Terstappen** (Siena - Italy)

Targeting the Wnt signaling pathway for therapy of Alzheimer's Disease

**A. Caricasole** (Siena - Italy)

Wnt signaling in ischemia and epilepsy

**C. Busceti** (Isernia - Italy)

Hedgehog signaling biology

**A. Ruiz i Altaba** (Geneva - Switzerland)

Targeting the Hedgehog signaling pathway for therapy of brain tumors

**A. Bakker** (Siena - Italy)

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**September, Sunday 30, 2007**

**SALA BARTOLOMEO**

**15.30 - 17.00**

**SYMPOSIUM 38**

**MULTISENSORY SPACE AND ATTENTION: INSIGHTS FROM THE NEGLECT SYNDROME**

Chairman: **F. Pavani** (Trento - Italy)

Auditory neglect and what it can teach us on space and conscious awareness

**L. Deouell** (Jerusalem - Israel)

Unisensory and multisensory extinction

**A. Farnè** (Bron Cedex - France)

Multisensory-based rehabilitation approaches of visual spatial neglect

**F. Frassinetti** (Bologna - Italy)

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**September, Sunday 30, 2007**

**SALA MASTINO E SALA CANGRANDE**

**17.00 - 18.00**

**PLENARY LECTURE**

Chairmen: **A. Schenone** (Genoa - Italy) **F. Aloisi** (Rome - Italy)

Multiple sclerosis: from neuropathology to neuroimmunology

**C. Lucchinetti** (Rochester, Mn - USA)

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**September, Sunday 30, 2007**

**AUDITORIUM - Palazzo della Gran Guardia**

**20.30 - 22.30**

**CONFERENZA APERTA A TUTTA LA CITTADINANZA**

Chairmen: **A. Fiaschi** (Verona - Italy) **G. Moretto** (Verona - Italy)

L'invecchiamento cerebrale

**Marco Trabucchi**

## Authors Index

### A

Acquas E.	.40
Adornetto A.	.53
Agostini T.	.9
Alessandrini F.	.31
Alghisi M.	.51
Alloisio S.	.36
Aloisi A.M.	.41
Aloisi F.	.56; .58
Alvira D.	.36
Amadeo A.	.21
Amadoro G.	.52
Andrioli A.	.21
Anelli T.	.19
Anghileri E.	.23
Annunziato L.	.14
Antonucci F.	.16
Armentero M.T.	.50
Avenanti A.	.12

### B

Bagni C.	.42
Baj G.	.39
Bakker A.	.56
Baldelli E.	.52
Baldelli P.	.46
Ban J.	.35
Barbato C.	.20
Barbera S.	.53
Barbieri R.	.35
Barbiero V.S.	.50
Barbon A.	.35
Bartolomucci A.	.13
Bassareo V.	.39
Basso G.	.31
Battaglia G.	.55
Baud-Bovy G.	.38
Bazzini E.	.36
Bazzoli E.	.40
Becchetti A.	.26
Bellucci A.	.51
Belluzzi O.	.33
Beltramello A.	.31
Benagiano V.	.36
Benatti C.	.38
Bendotti C.	.55
Benedetti F.	.48
Benetti C.	.37
Benfenati F.	.46
Bentivoglio M.	.56
Berlucchi G.	.11; .18
Bertrand D.	.26
Biamonte F.	.20
Bianchi A.	.44
Billuart P.	.42
Boggio E.	.49
Boguslavsky D.V.	.35
Boido D.	.23
Boido M.	.49
Bonaconsa M.	.37

Bondì M.	.50
Bonomo A.	.35
Borghi R.	.55
Bortolato M.	.39
Bottini G.	.27
Bozzi Y.	.16; .52
Brambilla P.	.32
Broccard F.D.	.23
Broccardo M.	.35
Broccoli V.	.26
Brown E.R.	.14
Budhram-Mahadeo V.	.16
Bugiani O.	.55
Busan P.	.39
Busceti C.	.56
Busi C.	.35

### C

Caberlotto L.	.13
Cacciatori C.	.38
Cadoni C.	.23
Caggia F.	.36
Calamandrei G.	.15
Caleo M.	.46
Camoletto P.G.	.51
Cangiano A.	.28; .43
Cangiano L.	.37
Cannizzaro S.	.39
Cantoni L.	.55
Canzoniero L.	.45
Caracciolo L.	.36
Cariboni A.	.19
Caricasole A.	.56
Carletti F.	.52
Carmignoto G.	.17
Carnevale D.	.54
Carri M.T.	.45
Carta A.R.	.54
Casagrande S.	.22
Casarrubea M.	.39
Castiello U.	.12
Cattaneo A.	.20
Cavaletti A.	.44
Cavallini P.	.40
Ceccarelli I.	.41
Cerasa A.	.39
Cesana E.	.23
Cesarì P.	.9
Chakir A.	.40
Chiappalone M.	.10
Chiarugi A.	.14
Chiatamone Ranieri S.	.23
Chikhladze M.	.22
Ciccarelli A.	.23
Cifelli P.	.37
Classen J.	.47
Clementi F.	.31
Codega P.	.37
Collo G.	.21
Colloca L.	.41
Colombo E.	.22
Consalez G.G.	.30
Consonni S.	.20
Conti R.	.50

Cooper E.	.26
Coppedè F.	.51
Corbetta M.	.18
Correa M.	.30
Corsini D.	.36
Costa M.	.26
Costantini C.	.21
Crabtree G.	.16
Cristino L.	.21
Cuomo D.	.51
Cupidi C.	.52

### D

D'Adamo P.	.42
D'Amato F.R.	.15
D'Amelio M.	.52
D'Angelo E.	.10
D'Arcangelo G.	.53
D'Errico A.	.23
D'Intino G.	.53
Dadomo H.	.39
Dalfini A.	.23
Dalmazzo S.	.19
D'Antoni S.	.53
De Angelis F.	.37
De Bastos Figueiredo S.A.	.24
De Nuccio C.	.35
De Nuccio F.	.20
De Rossi D.	.12
De Rubeis S.	.36
De Stefanò N.	.31
Del Vecchio G.	.19
Denk W.	.41
Deouell L.	.57
Di Chiara G.	.34; .48
Di Chio M.	.22
Di Cosmo A.	.14
Di Giovanni S.	.16
Di Liberto V.	.22
Di Luca M.	.46
Di Marco S.	.20
Di Pellegrino G.	.12
Di Porzio U.	.30
Di Resta C.	.52
Di Russo F.	.9
Di Stefano M.	.17
Di Virgilio F.	.17
Diana M.	.30
Diwakar S.	.23
Domenici L.	.50

### E

Engel T.	.52
Espinosa S.	.49
Esposito E.	.23

### F

Fabene P.F.	.16
Fabri M.	.17
Fadiga L.	.33
Falciati L.	.37
Falini A.	.31
Farnè A.	.51
Fasolo A.	.57
	.33

Favaro A.	15	Guidi S.	19	Marinelli S.	37
Favero M.	20	<b>H</b>		Mariotti R.	55
Feliciello A.	45	Haggard P.	42	Mariottini C.	38
Feligioni M.	23	Henshall D.C.	16	Márkus Z.	37
Fenu S.	52	Hollmann M.	14	Marrone M.C.	23
Fernández M.	19	Hoyer D.	13	Marte A.	51
Ferraina S.	33	<b>I</b>		Marti M.	51
Ferrarese C.	46	Iadecola C.	14	Martino G.	56
Ferrini F.	21	Iannetti G.	41	Martire M.	21
Fiaschi A.	59	<b>J</b>		Marzi C.A.	11; 32
Finardi A.	36	Jabs R.	17	Mascioli G.	17
Fiore M.	54	Jagadeesh B.	47	Masini M.	54
Fiorentini C.	31	Jimenez-Mateos E.M.	52	Massella A.	51
Fioretti B.	50	<b>K</b>		Massimini M.	45
Fiorio M.	47	Khachidze I.	39	Matsumoto Y.	35
Forloni G.	55	Kilstrup-Nielsen C.	26	Matteoli M.	46
Formaggio E.	23	Knöll B.	16	Medici V.	20
Fornasiero E.F.	35	Konnerth A.	41	Melcangi R.	44
Francisconi S.	22	<b>L</b>		Mele S.	38
Francolini M.	37	Làdavas E.	12	Melis M.	30
Frangou S.	32	Lanzillotta A.	53	Mennini T.	55
Frank C.	50	Lapi D.	54	Mereu M.	38
Frassinetti F.	57	Lassonde M.	17	Merigo F.	21
Frau L.	50	Laureanti F.	52	Merlini G.	46
Fritschy J.M.	32	Lauro-Grotto R.	38	Messa M.	20
Frontini A.	20	Lentini D.	19	Metta G.	33
Fumagalli F.	44	Leo D.	44	Migliore L.	15
Furl N.	47	Levandis G.	50	Milanese C.	35
<b>G</b>		Liaquat Raza M.	53	Milanese M.	22
Gaetani S.	13	Lintas A.	40	Miller K.	46
Gaimarri A.	23	Lombardi L.	49	Minciachì D.	51
Galati S.	52	Lonetti G.	49	Minüssi C.	45
Galbiati M.	19	Longo D.	53	Missale C.	31
Galderisi S.	15	Lorenzetto E.	21	Moles A.	13
Gallace A.	27	Lorenzini L.	24	Morel S.	47
Galli-Resta L.	17	Loreti S.	19	Morelli M.	12
Gandolfi D.	22	Lucchinetti F.	58	Moretto G.	59
Gardonì F.	32	Luccini E.	21	Moro V.	42
Gatta E.	36	Lui F.	41	Moroni F.	14
Gaviraghi G.	56	<b>M</b>		Moroni R.	52
Gennarini G.	30	Mabrouk O.S.	49	Moroz L.	14
Genovese T.	24	Macchi P.	27	Moscardo E.	40
Gerace E.	53	Magalini A.	39	Mucci A.	15
Giaccone G.	55	Maggiolini E.	37	Mucignat C.	33
Giacobini P.	20	Magnabosco A.	22	Mucignat-Caretta C.	49
Giacomini C.	49	Magnaghi V.	37	Müller E.E.	13
Giambelli R.	50	Magni P.	15	Muntoni A.L.	24
Gianfelice A.	35	Magon S.	38	Musante V.	23
Giatti S.	53	Mallamaci A.	12	Musazzi L.	50
Girolamo F.	54	Mancardi G.L.	56	Musella A.	50
Giuliani A.	35	Manganotti P.	45	Muzzi P.	20
Giustetto M.	26	Manzini I.	33	<b>N</b>	
Gotti C.	31	Manzo L.	15	Nahavandi A.	39
Gozzi A.	40	Mapelli J.	10	Navarra M.	36
Grassi F.	26	Mapelli L.	22	Navarro Mora G.	53
Graziano F.	54	Maravita A.	27	Negri M.	40
Grecchi I.	55	Marcello E.	51	Neri P.	25
Greco R.	37	Marcoli M.	22	Nicoletti F.	31
Grillo D.	20	Mare L.	36	<b>O</b>	
Grumelli C.	22			Onesto E.	50
Grünning A.	38			Onofri F.	22
Guarnieri S.	20			Origlia N.	38
Guidi A.	39			Orlandi C.	35

**P**

Palanza P.	.15
Palazzolo I.	.51
Palomba M.	.21
Panza E.	.21
Paradisi M.	.52
Paroczy Z.	.37
Parolaro D.	.44
Patrizi A.	.19
Pavani F.	.57
Pavone F.S.	.41
Paxinos G.	.12
Pegoraro S.	.23
Pellitteri M.	.53
Pellitteri R.	.24
Perlini C.	.32
Peruffo A.	.20
Piazza F.	.54
Piccinin S.	.22
Pignatelli A.	.37
Pilla M.	.44
Pinato G.	.22
Pinton P.	.45
Pirondi S.	.36
Piubelli C.	.40
Pizzini F.	.17
Pizzorusso T.	.26
Platania P.	.51
Ploia C.	.51
Pollo A.	.39
Pontieri F.E.	.12
Pontis S.	.52
Porro C.A.	.41
Possenti R.	.13
Potenza R.L.	.51
Pozzi D.	22; 46
Prestori F.	.22
Price S.R.	.30

**Q**

Quertemont E.	.30
---------------	-----

**R**

Raffi M.	.33
Raiteri L.	.21
Ratti A.	.27
Ratto G.	.31
Realini N.	.44
Redaelli M.	.49
Redaelli S.	.52
Remelli R.	.50
Repici M.	.36
Restani L.	.19
Restivo L.	.38
Ricceri L.	15; 39
Rizzi S.	.19
Rizzuto N.	44; 46; 56
Roglio I.	.53
Romeo S.	.49
Romorini S.	.32
Roth A.	.13
Rothwell J.	.47
Ruiz i Altaba A.	.56
Rusconi R.	.52

**S**

Sacconi L.	.24
Saggese M.	.54
Sala C.	.42
Sanes J.	.43
Sanghez V.	.39
Sarnico I.	.14
Sassoé-Pognetto M.	.32
Sava A.	.40
Scalmani P.	.49
Scartabelli T.	.53
Schenone A.	44; 58
Schintu N.	.54
Schio F.	.49
Schmid M.	.27
Schwartz M.	.56
Schwarz A.J.	.24
Scorziello A.	.45
Severino G.	.40
Sircia D.	.38
Sirigu A.	.42
Sivilia S.	.49
Sloviter R.S.	.16
Soldovieri M.V.	.36
Solinis S.	.23
Sorbi A.	.46
Spigolon G.	.20
Spinelli D.	.9
Sposato V.	.50
Squattrito S.	.33
Stecca B.	.19
Strata P.	.28
Studer M.C.	.16

**T**

Takeuchi Y.	.21
Tamburin S.	.50
Tata A.M.	.49
Tedeschi A.	.35
Tedesco V.	.40
Terstappen G.C.	.56
Thompson L.	.45
Tinazzi M.	.47
Tirindelli R.	.33
Toffanin P.	.38
Tognoli C.	.24
Tongiorgi E.	.27
Torre V.	.10
Torsello A.	.13
Tortorella A.	.15
Trabucchi M.	.59
Tremolizzo L.	.46
Treves A.	.47
Tronci E.	.51
Trovato A.E.	.54

**U**

Umiltà M.A.	.12
Uncini A.	.44
Urgesi C.	.42

**V**

Vagnani S.	.53
Valente E.M.	.47

Valentini V.	.49
Vallar F.	.27
Valsecchi V.	.14
van der Werf Y.	.45
van Rijsbergen N.	.47
Vara H.	.51
Veltri A. F.	.36
Veniero D.	.38
Verderio C.	.17
Veronesi C.	.37
Viaggi C.	.30
Viaro R.	.38
Vicario A.	.27
Vicentini E.	.39
Vieira A.S.	.36
Vignale L.	.54
Vita D.	.21
Volkow N.	.34
Volpicelli F.	.19

**W**

Wanke E.	.10
----------	-----

**Z**

Zalfa F.	.27
Zambello E.	.13
Zamburlin P.	.19
Zampese E.	.51
Zancanaro C.	.33
Zanetti L.	.40
Zappettini S.	.22
Zoccatelli G.	.38
Zucchini S.	.53
Zullo L.	.38

---

## Notes

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## Notes

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