



# **FISV 2008**

**X Annual Congress  
24 - 27 September**

Fierecongressi Congress Centre  
Riva del Garda (TN) - ITALY



Dear Friends,

On behalf of the FISV Executive Council and of all the Organisers, I am glad to invite you to the forthcoming Scientific Meeting to be held in Riva del Garda, 24-27 September. To get the Programme finalized was a lot of work by many people, but I found it also a lot of fun to work with them. The Programme speaks for itself, and I hope you will take a few minutes to look at all of it.

As an incoming President, it was immediately apparent to me that **Jacopo Meldolesi** was a difficult act to follow: therefore we have invited him to give the first of the officially designated FISV Lectures: this will be a great occasion. The other FISV Lecture will be given by **Enrico Coen** of Norwich, whereas **Venki Ramakrishnan** of Cambridge will be our 2008 EMBO Lecturer.

The eye-catching features on the programme must be the Plenary Symposia with highly distinguished speakers: we hope that you will find the balance of topics reasonable, as we have Cancer & Development, Copy Number Variation, and Ubiquitins. At the same time, the organisers feel that Oral Communications from submitted abstracts are very important, and more than one hundred will be presented; in fact, in order to validate the notion that they are important, some will be selected for inclusion in regular Symposia: we will have eight of these, and they cover a wide range of topics important for the FISV. We expect several hundred posters, and we hope everybody will take time not only to browse along the stands with a tumbler of beer, but also to inspect the posters themselves.

I would like to make a special mention of two evening events: one on Genetically Modified Organisms, the other on Stem Cells, in which the key speaker will be **Tim Townes** of Birmingham, AL. Needless to say, both are hot topics, scientifically and otherwise: we will have some surprise participants in the discussions, and we are sure these will be lively.

It remains for me to thank all those who have selflessly contributed to preparing the programme. I am very much looking forward to seeing you in Riva in September, when we hope to have a record-breaking attendance.

Lucio Luzzatto

President

Federazione Italiana Scienze della Vita

*Italian Life Sciences Federation*





# FISV

## Federazione Italiana Scienze della Vita

### *Italian Life Sciences Federation*

#### Member Societies

- AAI Associazione Antropologica Italiana
- ABCD Associazione di Biologia Cellulare e del Differenziamento
- AGI Associazione Genetica Italiana
- SIBBM Società Italiana di Biofisica e Biologia Molecolare
- SIBE Società Italiana di Biologia Evoluzionistica
- SICA Società Italiana di Chimica Agraria
- SIF Società Italiana di Farmacologia
- SIFV Società Italiana di Fisiologia Vegetale
- SIGA Società Italiana di Genetica Agraria
- SIMA Società Italiana di Mutagenesi Ambientale
- SIMGBM Società Italiana di Microbiologia Generale  
e Biotecnologie Microbiche
- SINS Società Italiana di Neuroscienze
- SIP Società Italiana di Patologia
- SIPaV Società Italiana di Patologia Vegetale

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## Session Organisers

### Plenary Symposia

*Francesco Blasi*

*Pier Paolo Di Fiore*

*Pierdomenico Perata*

*Paolo Pinton*

*Mariano Rocchi*

*Orsetta Zuffardi*

### Parallel Symposia

*Pietro Alifano*

*Francesco Saverio Ambesi*

*Gabriella Campadelli*

*Enrico Cherubini*

*Alberto Chiarugi*

*Ferdinando Di Cunto*

*Patrizio Dimitri*

*Armando Genazzani*

*Giovanni Giuliano*

*Stefano Gustincich*

*Alberto Izzotti*

*Barbara Majello*

*Michele Morgante*

*Giovanna Riccardi*

*Rosario Rizzuto*

*Chiara Tonelli*

### Special Interest Subgroups

*Angelo Levis*

*Domenico Merlo*

### Oral Communications

*Antonio Antoccia*

*Paola Barbieri*

*Guido Barbujani*

*Luca Bonfanti*

*Vania Broccoli*

*Cecilia Bucci*

*Mario Buffelli*

*Viola Calabrò*

*Duccio Cavalieri*

*Felice Cervone*

*Laura Fanti*

*Franco Faoro*

*Fabio Fava*

*Riccardo Izzo*

*Massimo Levrero*

*Tiziana Lodi*

*Massimo Maffei*

*Roberto Mantovani*

*Caterina Missero*

*Giovanna Mottola*

*Giulio Pavesi*

*Mauro Piacentini*

*Marina Pizzi*

*Tullio Pozzan*

*Anna Maria Puglia*

*Andrea Zijno*

# **Programme**

**(Last update 23/09/2008)**

## WEDNESDAY

### 13:15 Special Interest Subgroups

Room 300 **Exposure to electromagnetic fields and adverse health effects: scientific evidence and controversies**

I. Epidemiologic studies

II. Experimental studies

Organisers: D.F. Merlo, A.G. Levis

Residential exposure to low frequency electromagnetic fields: epidemiologic evidence  
*Pietro Comba (Rome)*

Residential exposure to radiofrequency and use of cell phone: epidemiologic evidence  
*Susanna Lagorio (Rome)*

Low frequency electromagnetic fields: experimental evidence  
*Fiorella Belpoggi (Bologna)*

Radiofrequency: experimental evidence  
*Massimo Moretti (Perugia)*

Discussion and conclusions

## WEDNESDAY

### 15:30 OFFICIAL OPENING OF THE CONGRESS [Room 1000A]

Welcome addresses

*Lucio Luzzatto*, FISV President

*Gianluca Salvatori*, Assessore alla programmazione, ricerca e innovazione, Provincia autonoma di Trento

*Luciano Maiani*, President of the Consiglio Nazionale delle Ricerche - CNR

### 16:00 FISV Lecture I [Room 1000A]

Expression of neurosecretion in differentiated cells is governed by the transcription repressor factor, REST

*Jacopo Meldolesi (Milan)*

### 17:00 Plenary Symposium I [Room 1000A]

**Development and cancer** [Sponsored by CELBIO 

Organisers: F. Blasi, P. Pinton

Cell competition and cancer

*Eduardo Moreno (Madrid, Spain)*

Cell competition, apoptosis and tumour progression in *Drosophila*

*Gines Morata (Madrid, Spain)*

The Prep1 homeodomain and its role in stemness and cancer

*Francesco Blasi (Milan)*

Deconstructing cancer in the mouse and therapeutic implications: the co-clinical project

*Pier Paolo Pandolfi (Boston, MA, USA)*

### 19:00 Wine & Cheese Welcome Party

### 20:30 Round Table I [Room 1000A]

**Stem cells and health**

[in collaboration with the EMBO Science & Society programme]

Organiser: V. Orlando

Moderator, *Armando Massarenti*

*Tim M. Townes (Birmingham, AL, USA)* Induced pluripotent stem (iPS) cells and gene replacement therapy for sickle cell disease

*Elena Cattaneo (Milan)*

## THURSDAY

### 08:30 Oral Communications Session I

#### Room 300 1. Transcriptional and post-transcriptional regulation

Organisers: R. Mantovani, C. Missero

Transcription elongation of MYC-target genes is modulated by PIM1-dependent histone H3 phosphorylation at Serine 10

*Alessio Zippo (Siena)*

Polycomb/Trithorax proteins regulate NFI-A expression during normal and leukemic hematopoiesis

*Alberto Ciolfi (Rome)*

Histone H3 demethylation and its associated oxidative burst trigger initiation of Myc-induced transcription

*Stefano Amente (Naples)*

Intra-chromosomal looping within FSHD locus provides the epigenetic link between D4Z4 array and FRG1 gene expression

*Beatrice Bodega (Milan)*

A novel role for estrogen receptor in the regulation of E-Cadherin gene transcription

*Michele de Bortoli (Turin)*

MiR-128 reduces neuroblastoma cell motility and invasiveness by inhibiting Reelin and DCX expression

*Silvia Anna Ciafré (Rome)*

A long antisense RNA is transcribed at the 5' end of the human HIF-1 $\alpha$  gene upon drug inhibition of DNA Topoisomerase I

*Laura Baranello (Bologna)*

Negative regulation of mRNA stability by the RNA binding protein TNRC4 induces neuronal differentiation

*Gabriella Viero (Mattarello)*

#### Room 1000A 2. Genetics of microorganisms and microbial biotechnologies

Organisers: T. Lodi, A.M. Puglia

Can yeast smell like a cauliflower...?

*Vera Codazzi (Milan)*

Impact of culture conditions on the transcriptional levels of *oxc* gene and the oxalate consumption in *Bifidobacterium*

*Silvia Turroni (Bologna)*

Involvement of the proteasomal subunit Rpn11 in the maintenance of mitochondrial structure and function

*Teresa Rinaldi (Rome)*

The *Saccharomyces cerevisiae* yeast as a model system to study the human mitochondrial DNA depletion syndromes (MDDS)

*Cristina Dallabona (Parma)*

Transcriptional autoregulation of *swrAA*, a gene involved in *Bacillus subtilis* motility  
*Cecilia Osera (Pavia)*

Activation of bacterial dormant genes by *Nonomuraea* sp. ATCC 39727 “mutant type”  
RNA polymerase  
*Pietro Alifano (Lecce)*

Involvement of *Deinococcus radiodurans* SRA containing gene in DNA damage repair  
*Alex Ferrandi (Varese)*

Analysis of a novel membrane protein in the opportunistic pathogen *Pseudomonas aeruginosa*  
*Andrea Milani (Milan)*

Room 1000B

**3. Stem cells, development and differentiation**

Organisers: L. Bonfanti, V. Broccoli

Reprogramming of multipotent somatic stem cells to pluripotency with only two factors  
*Bruno Di Stefano (Milan)*

Dlx3 and Raf cooperate to induce phosphorylation-dependent p63 protein degradation  
*Viola Calabrò (Naples)*

Regulation of smooth muscle cells development in zebrafish  
*Massimo M. Santoro (Turin)*

Modeling and correcting fibrous dysplasia with lentiviral vectors  
*Stefania Piersanti (Rome)*

PLGF-MMP9 expressing cells restore microcirculation and efficacy of cell therapy in aged dystrophic muscle  
*Cesare Gargioli (Rome)*

Continuous genesis of neuronal and glial progenitors in the rabbit cerebellum in the absence of germinative layers  
*Giovanna Ponti (Grugliasco)*

The interaction with iBRAF/HMG20a suggests a new role for  $\beta$ -dystrobrevin in neuronal differentiation  
*Pompeo Macioce (Rome)*

Identification of genes involved in osteoblast differentiation with an shRNA-based approach  
*Carmine Cozzolino (Naples)*

Room Belvedere

**4. DNA damage and mutagenesis**

Organisers: A. Antocchia, A. Zijno

Rescue by Pol zeta overexpression of mitochondrial DNA instability due to mutations in Pol gamma in *S. cerevisiae*  
*Enrico Baruffini (Parma)*

Gamma-glutamyltransferase expression and oxidative DNA damage in cancer cells – a potential factor in tumor progression  
*Alfonso Pompella (Pisa)*

Recombination mediates telomere length variations in fibroblasts exposed to high-LET radiations

*Antonio Antoccia (Rome)*

A novel mutation in XPD causing temperature-dependent dysfunction of the transcription/repair complex TFIIH

*Manuela Lanzafora (Pavia)*

Chemoprevention of DNA damage in bronchoalveolar lavage cells of mice exposed to cigarette smoke

*Rosanna T. Micale (Genoa)*

Micronuclei anti-b[a]pde-dna adduct related in peripheral blood lymphocytes of coke-oven workers and controls

*Sofia Pavanello (Padua)*

Human sperm genomic integrity: which information from different assays?

*Sabrina Manes (Ancona)*

POP's exposition in Swedish fishermen: effect on sperm quality

*Alessandra Stronati (Ancona)*

## Room Presidenza **5. Nerve muscle interactions**

Organisers: M. Pizzi, M. Buffelli

Synaptic and muscular alterations in larvae of *Drosophila melanogaster* sphingosine-1-phosphate lyase mutants

*Mauro A. Zordan (Padua)*

NFAT family members control activity-dependent specification of skeletal muscle fiber types

*Marta Murgia (Padua)*

Asynchronous activity promotes synapse competition and elimination at regenerating mammalian neuromuscular junctions

*Morgana Favero (Verona)*

Nerve and muscle interactions in embryonic chick cocultures

*Tiziana Martinello (Legnaro)*

Cortical neurons induce the expression of glutamate receptors in primary myotubes

*Michele Ettorre (Verona)*

Glutamatergic reinnervation and synapse assembly in adult rat skeletal muscle occur at preexisting cholinergic endplates

*Maura Francolini (Milan)*

Neuromuscular recovery after nerve reconstruction by means of muscle-vein-combined conduits

*Isabelle Perroteau (Turin)*

TGFbeta1 expression in muscle of mouse model of familial amyotrophic lateral sclerosis

*Elisa Onesto (Milan)*



**Room Stampa 6. Plant development and diseases**

Organisers: F. Cervone, F. Faoro

Receptors involved in plant innate immunity

*Francesca Sicilia (Rome)*Role of the ELIP1 & ELIP2 proteins of *Arabidopsis thaliana* in the PhyB-mediated seed germination process*Annalisa Rizza (Rome)*

Serine proteinase inhibitors: plant multifunctional defense factors

*David Turrà (Portici)*

New insights into Potato Virus X movement through the use of chimeric virus particles

*Selene Baschieri (Rome)*Isolation of orthologues of the cp gene and characterization of the protein PoP from *Ceratocystis populicola**Cecilia Comparini (Sesto Fiorentino)*Transcriptomic analysis of tomato shoots and roots infected by *Tomato spotted wilt virus* reveals organ-specific response*Marco Catoni (Turin)*

Identification of PGIP functional sites by integrating nucleotide variation and desolvation energy analyses

*Luca Federici (Chieti)*

Absciscic acid at the crossroads between chitosan-induced antitranspirant and antiviral activities

*Franco Faoro (Milan)***Room 120 7. Cellular stress, apoptosis and autophagy**

Organisers: T. Pozzan, M. Piacentini

Ca<sup>2+</sup> homeostasis in mammalian and plant peroxisomes*Ilaria Drago (Padua)*

MDM4 (MDMX) localizes at the mitochondria and facilitates the p53-mediated intrinsic apoptotic pathway

*Francesca Mancini (Rome)*

Effects of overexpression of spermine oxidase (SMO) in kainic acid induced excitotoxicity

*Manuela Cervelli (Rome)*

VDAC interactome revealed by TAP-tag proteomic analysis

*Vito de Pinto (Catania)*

Mitochondrial interaction of PARP-1 and Mitofilin

*Marianna N. Rossi (Rome)*

A link between mRNA degradation, apoptosis and aging in yeast

*Cristina Mazzoni (Rome)*

ATM kinase activity modulates FLIP protein stability through the regulation of ITCH  
E3-Ubiquitin Ligase activity  
*Venturina Stagni (Rome)*

Liver disease and abnormal regeneration in CSN5/JAB1 deficient liver  
*Martina Panattoni (Milan)*

## 10:30 Coffee break

## 11:00 Plenary Symposium II [Room 1000A]

### Copy Number Variation

Organisers: M. Rocchi, O. Zuffardi

Genomic duplications: an overview  
*Mariano Rocchi (Bari)*

Segmental duplication, copy-number variation and human evolution  
*Evan Eichler (Seattle, WA, USA)*

Copy number variation in the human population  
*Richard Redon (Cambridge, United Kingdom)*

Genome-wide arrays: unexpected findings in visible rearrangements  
*Orsetta Zuffardi (Pavia)*

## 13:00 Lunch break

## 14:00 Poster presentations I [Palameeting]

Themes 1-7:

1. Transcriptional and post-transcriptional regulation
2. Genetics of microorganisms and microbial biotechnologies
3. Stem cells, development and differentiation
4. DNA damage and mutagenesis
5. Nerve muscle interactions
6. Plant development and diseases
7. Cellular stress, apoptosis and autophagy

## 16:00 FISV Lecture II [Room 1000A]

Evolution and development of shape in plants  
*Enrico Coen (Norwich, United Kingdom)*

## 17:00 Coffee break

## 17:30 Parallel Symposia I

### Room 300 1. Common and divergent routes in autophagy and apoptosis

Organisers: B. Majello, R. Rizzuto

p14ARF is at the crossroad of p53-dependent and -independent cell growth control  
*Sylvie Gazzeri (Grenoble, France)*

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Characterization of the role of Pin1 as a regulator of p53 function and dysfunction

*Gianni Del Sal (Trieste)*

Molecular mechanism of autoregulation in death and survival of mammalian cells

*Francesco Cecconi (Rome)*

mTOR-independent regulation of autophagy

*Marco Sandri (Padua)*

Room 1000B **2. Integrating genomic, functional and environmental information**

Organisers: F. Di Cunto, P. Alifano

Decoding the complexity of mammalian transcriptome

*Piero Carninci (Yokohama, Japan)*

Integrating coexpression analysis with phenome information for disease genes identification

*Paolo Provero (Turin)*

Bayesian networks for the integrative analysis of genomic data

*Riccardo Bellazzi (Pavia)*

Metagenomics as a tool in population genomics of prokaryotes

*Francisco Rodriguez-Valera (Alicante, Spain)*

Genomic and phenotypic analysis of pneumococcal beta-glucoside metabolism

*Marco R. Oggioni (Siena)*

Room 1000A **3. DNA damage and chronic-degenerative diseases**

Organisers: A. Izzotti, F.S. Ambesi

Pre- and post-natal exposures to epigenetic toxicants and modulation of risk to chronic diseases

*James Trosko (East Lansing, MI, USA)*

DNA damage as a common pathogenic step in different chronic degenerative diseases

*Silvio De Flora (Genoa)*

Cardiovascular disease and DNA damage

*Mariagrazia Andreassi (Pisa)*

Mitochondrial dysfunction in chronic-degenerative diseases

*Paolo Bernardi (Padua)*

A third complementation group of UV-sensitive syndrome with a mutation in the CSA gene

*Miria Stefanini (Pavia)*

Room 120 **4. Plant natural products: more useful to plants or to humans?**

Organisers: G. Giuliano, C. Tonelli

Opening Pandora's box: genes and alkaloids galore

*Peter Facchini (Calgary, Canada)*

Carotenoids: pigments, provitamins, photoprotectants and more

*Giovanni Giuliano (Rome)*

Flavonoids and anthocyanins. Their role in plants and in human health

*Katia Petroni (Milan)*

Structural basis of enzymatic S-norcoclaurine biosynthesis

*Andrea Ilari (Rome)*

**20:30 Round Table II** [Room 1000A]

**Genetically modified organisms**

Organiser: E. Filippone

*Marcello Buiatti (Pisa)*

*Lucia Martinelli (San Michele all'Adige)*

*Fabio Veronesi (Perugia)*

## FRIDAY

### 08:30 Oral Communications Session II

Room 120

#### **8. Chromosomes, genetic diversity and evolution**

Organisers: G. Barbujani, L. Fanti

Function and evolution of *Drosophila melanogaster* heterochromatin genes

*Patrizio Dimitri (Rome)*

Terminin, a protein complex required for *Drosophila* telomere protection is functionally analogous to human shelterin

*Maurizio Gatti (Rome)*

Direct experimental evidence of the absence of gene conversion and crossing over in a satellite DNA

*Gianni Chinali (Naples)*

Insertional variability of four transposable elements in populations of the midge *Chironomus riparius*

*Sella Gabriella (Turin)*

Complete mitochondrial genome sequence from a mesolithic *Bos primigenius*: implications in cattle domestication process

*Martina Lari (Florence)*

Bayesian evidence for an independent cattle domestication event in Italy

*Stefano Mona (Ferrara)*

Detection of structural variation among interfertile *Populus* species

*Giusi Zaina (Udine)*

T cell receptor delta genes undergo to somatic hypermutation in *Camelus dromedarius*

*Micaela Mineccia (Bari)*

Room 300

#### **9. Environmental microbiology and microbial ecology**

Organisers: F. Fava, P. Barbieri

Persistence and impact of a PGPR inoculant on native microbial community of biosolids and soil

*Letizia Fracchia (Novara)*

The microbial community of Vetiver root and its involvement into essential oil biogenesis

*Elisabetta Carata (Lecce)*

Effects of symbiotic intake on the gut microbiota analyzed by PCR-DGGE and Real-Time PCR

*Federica Cruciani (Bologna)*

Assessment of novel probiotic *Lactobacillus* strains isolated from elderly persons for the production of functional foods

*Maria Cristina Verdenelli (Camerino)*

Adaptation and acclimation to diverse temperatures of obligate and facultative psychrophilic and mesophilic yeasts

*Alberto Amaretti (Modena)*

Exploiting biodiversity of biosurfactant-producing bacteria: selection, characterisation and evaluation of applicability

*Andrea Franzetti (Milan)*

Pathogenicity of environmental burkholderia cenocepacia strains

*Annamaria Bevivino (Rome)*

Microbial ecology of *V. cholerae* in the aquatic environment: perspectives for the development of new antimicrobial strategies

*Luigi Vezzulli (Genoa)*

## Room 1000A **10. Cell cycle, oncogenes and tumor suppressors**

Organisers: V. Calabrò, M. Levrero

miR-21 deregulation by Ras

*Daniela Frezzetti (Ariano Irpino)*

Src Kinases family regulate the mTOR pathway in pancreatic endocrine tumour cell lines

*Alessia Di Florio (Rome)*

STAT3 and Her2 cooperate in mammary tumorigenesis

*Isaia Barbieri (Turin)*

CDH-16 gene expression in thyroid cell differentiation and transformation

*Gaetano Cali (Naples)*

The p53 family proteins control the physiological cell cycle progression by regulating proliferative genes

*Mariano Francesco Caratozzolo (Bari)*

DNA damage and ubiquitination: identification of new molecular players

*Cristina Scandiuizzi (Novara)*

MDM2 promotes p63 nuclear export and degradation by a novel E3 ubiquitin ligase

*Francesco Galli (Milan)*

Role of the p14ARF binding partner TBP-1/PSMC3 in the control of cell growth

*Alessandra Pollice (Naples)*

## Room Belvedere **11. Plant mineral nutrition, metabolism and environmental stresses**

Organisers: R. Izzo, M.E. Maffei

Proteomic analysis of iron deficient cucumber roots

*Silvia Donnini (Milan)*

Nucleotide and transcriptional variability of UV-stress related genes among *Populus alba* L. genotypes

*Raffaello Giannini (Florence)*

Effect of sulfur availability on nitrate uptake in maize roots

*Nicola Tomasi (Udine)*

Effects of ozone on photosynthesis in *Phaseolus vulgaris* at different sensitivity

*Lucia Guidi (Pisa)*

Enzyme activities and gene expression of primary and secondary metabolism in response to UV-B in *Mentha x piperita*

*Cinzia M. Bertea (Turin)*

Adaptive responses of sunflower (cv. Katharina) plants to sea water irrigation

*Marco Antonio Russo (Catania)*

Phospholipase A2 role in durum wheat (*Triticum durum* Desf.) response to drought stress

*Daniela Trono (Foggia)*

Down-regulation of ascorbate peroxidase as part of the signalling pathway responsible for PCD in TBV-2 cells

*Laura de Gara (Bari)*

Room Stampa **12. Bioinformatics, genomics and proteomics**

Organisers: G. Pavesi, D. Cavalieri

A genome-wide computational investigation of alternative splicing reveals a ten-fold expansion of human transcriptome and proteome

*Ernesto Picardi (Bari)*

Exploring cell cycle regulation in alpha proteobacteria

*Marco Bazzicalupo (Florence)*

Cyclic and collective gene expression in cultured yeast cells

*Michele M. Bianchi (Rome)*

Characterization and analysis of the expression pattern of microRNAs in the grapevine *Vitis vinifera*

*David S. Horner (Milan)*

A gene-wide investigation on polymorphisms in the MRP2/ABCC2 transporter and susceptibility to colon cancer

*Daniele Campa (Pisa)*

Transcriptome alterations and functional profiling of the heart of human fetuses with chromosome 21 trisomy

*Lucio Nitsch (Naples)*

Gene expression profiles and regulatory sequences in Familial Combined Hyperlipidemia patients

*Vincenzo de Simone (Naples)*

Unravelling AF4 cross-talk may give hints into the molecular pathogenesis of acute lymphoblastic leukaemia

*Armando Cevenini (Naples)*

Room 1000B **13. Membrane trafficking, adhesion and signal transduction**

Organisers: C. Bucci, G. Mottola

PKC $\beta$ II Modulates Translation Independently from mTOR and through RACK1

*Viviana Volta (Milan)*

PKA-dependent phosphorylation and  $\text{Ca}^{2+}$  as modulators of dystrobrevin-kinesin interaction

*Marina Ceccarini (Rome)*

High content analysis of  $\gamma$ -secretase activity reveals variable dominance of presenilin mutations

*Cristina Florean (Padua)*

Role of Eps8 in ErbB4-mediated migration of neural progenitor cells

*Veselin D. Petrov (Turin)*

Mechanisms of retention and dynamics of sarcoplasmic reticulum proteins in skeletal muscle cells

*Vincenzo Sorrentino (Siena)*

Gliadin peptide P31-43 interferes with Hrs localization to endocytic vesicles

*Maria Vittoria Barone (Naples)*

The COP9 signalosome: from the environmental stimuli to the cellular response

*Michol Savio (Milan)*

## 10:30 Coffee break

## 11:00 Parallel Symposia II

### Room 1000B **5. Hepatitis C virus: from molecular biology to therapeutic strategies**

Organisers: G. Riccardi, G. Campadelli

New insights into HCV replication and persistence: getting closer to the viral life cycle

*Ralph Bartenschlager (Heidelberg, Germany)*

Viral hepatitis and liver cancer: the case of hepatitis C

*Massimo Levrero (Rome)*

Challenges and successes in developing new therapies for HCV

*Raffaele De Francesco (Rome)*

Pathogenesis of HCV infection and vaccine perspectives

*Sergio Abrignani (Milan)*

### Room 1000A **6. Role of transposable elements in phenotypic diversity and genome evolution**

Organisers: P. Dimitri, M. Morgante

Dynamics of transposable elements: first steps of invasion and long term evolution

*Pierre Capy (Gif-sur-Yvette, France)*

Biology and evolution of human retrotransposons

*Haig H. Kazazian (Philadelphia, PA, USA)*

Functional roles for line1-encoded reverse transcriptase in embryonic development and tumor progression

*Corrado Spadafora (Rome)*

Transposable elements and the plant pan-genomes

*Michele Morgante (Udine)*



**Room 300 7. NAD as a key player in signal transduction**

Organisers: A. Genazzani, A. Chiarugi

Structural biology of NAD biosynthesis, a promising target for the treatment of Malaria and Tuberculosis

*Menico Rizzi (Novara)*

NAD(P) metabolites in calcium signalling

*Armando Genazzani (Novara)*

Poly(ADP-ribosyl)ation: from energy collapse to transcriptional regulation

*Alberto Chiarugi (Florence)*

Biological and molecular functions of NAD-dependent deacetylases

*John M. Denu (Madison, WI, USA)*The *de novo* NAD synthesis in *Bacillus subtilis*: functions and regulation*Alessandra M. Albertini (Pavia)***Room 120 8. Molecular regulation of synaptic plasticity**

Organisers: E. Cherubini, S. Gustincich

Regulation of synapses by AMPA receptor trafficking

*Edward Ziff (New York, NY, USA)*

Molecular mechanisms of cortical plasticity

*Tommaso Pizzorusso (Pisa)*

Determinants of synaptic latencies in cortical circuits

*Dominique Debanne (Marseille, France)*

Synaptic plasticity and the function of neuronal circuits

*Egidio D'Angelo (Pavia)***13:00 Lunch break****14:00 Poster Presentations II [Palameeting]**

Themes 8-13:

- 8. Chromosomes, genetic diversity and evolution
- 9. Environmental microbiology and microbial ecology
- 10. Cell cycle, oncogenes and tumor suppressors
- 11. Plant mineral nutrition, metabolism and environmental stresses
- 12. Bioinformatics, genomics and proteomics
- 13. Membrane trafficking, adhesion and signal transduction

**16:00 Chiara D'Onofrio Lecture [Room 1000A]**

T-cell co-stimulation at the immunological synapse

*Antonella Viola (Milan)*

**17:00 Meetings of Individual Scientific Societies****ABCD**

- 17:00 Proclamazione Premi ABCD 2008: miglior tesi di Dottorato (*Carlotta Giorgi*), miglior poster (*Roberta Sartori*)
- 17:15 *Carlotta Giorgi* "PML at the Endoplasmic Reticulum-mitochondria contact sites plays a critical role in apoptosis"
- 17:45 Assemblea Soci ABCD

**AGI**

- 17:30 AGI Executive Council Meeting
- 18:15 Ph.D. thesis AGI/Zanichelli award, with presentation of the awarded work
- 18:45 AGI members' meeting

**SIBBM**

- 17:00 SIBBM annual assembly

**SIMA**

- 17:15 Premiazione del miglior "Giovane Ricercatore": *Maria Grazia Longobardi*, "Alterazioni postgenomiche in una malattia neurologica rara di origine mutazionale, la sindrome Aicardi-Goutières"  
Premiazione del miglior poster
- 18:00 Assemblea dei Soci SIMA

**SIMGBM**

- 17:15 Consegna dei seguenti premi e presentazione dei lavori premiati:  
Premio SIMGBM "Franco Tatò" 2008, per la miglior tesi di dottorato in Microbiologia generale  
Premio SIMGBM-NAICONS 2008 per la migliore tesi di dottorato in Biotecnologie microbiche  
Premio "NOVARTIS" 2008 per il miglior lavoro sul tema "Microrganismi patogeni: genomica funzionale, meccanismi di patogenicità e vaccini"  
Symposium "Horizontal gene transfer and bacterial evolution"  
Organiser: M. Bazzicalupo
- 18:20 Prokaryotic horizontal gene transfer and its evolutionary potential  
*Wilfried Wackernagel (Oldenburg, Germany)*
- 19:05 From *E. coli* to *Shigella*: the evolution of a pathogenic bacteria between gain and loss of transcriptional activators  
*Bianca Colonna (Rome)*
- 19:25 Barriers to horizontal gene transfer in *Sinorhizobium* natural populations  
*Lorenzo Ferri (Florence)*
- 20:00 Cena-buffet
- 21:00 Assemblea dei soci SIMGBM

## SATURDAY

### 09:00 Plenary Symposium III [Room 1000A]

**The ubiquitin/UBL system** [Sponsored by Organisers: P. Perata, P.P. Di Fiore

The Ub system in endocytosis and signaling  
*Simona Polo (Milan)*

Machinery and functions of SUMOylation  
*Frauke Melchior (Goettingen, Germany)*

The ubiquitin proteasome system in EBV infection and oncogenesis  
*Maria Masucci (Stockholm, Sweden)*

CULLIN-based E3s in plant hormone signalling: a special focus on DELLA proteins  
*Pascal Genschik (Strasbourg, France)*

### 11:00 Coffee break

### 11:30 **EMBO Lecture** [Room 1000A]

What we have learned from structures of the ribosome  
*Venki Ramakrishnan (Cambridge, United Kingdom)*

### 12:30 CLOSING OF CONGRESS [Room 1000A]



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