

**FISV**

Federazione Italiana Scienze della Vita

*Italian Life Sciences Federation***Member Societies**

- ABCD** Associazione di Biologia Cellulare  
e del Differenziamento
- AGI** Associazione Genetica Italiana
- SIBBM** Società Italiana di Biofisica  
e Biologia Molecolare
- SICA** Società Italiana di Chimica Agraria
- 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

**Organising Committee**

- Jacopo Meldolesi* · FISV President  
*Giacomo Consalez* · FISV Secretary  
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*Zeno Varanini* · SICA  
*Alessandro Vercelli* · SINS  
*Paola Vittorioso* · SIBBM  
*Davide Zannoni* · SIMGBM

**VIII Annual Meeting**  
28 September – 1 October 2006  
Fierecongressi Conference Centre  
Riva del Garda (TN) · ITALY

**Organising Secretariat**

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## Session Organisers

### Plenary Symposia

*Giorgio Bertorelle*  
*Stefano Donadio*  
*Jacopo Meldolesi*  
*Cesare Montecucco*  
*Eduardo Patriarca*  
*Antonio Torroni*

### Parallel Symposia

*Luigi Cattivelli*  
*Gianni Del Sal*  
*Eugenia Dogliotti*  
*Maurizio Fanciulli*  
*Iliana Ferrero*  
*Laura Frontali*  
*Gilberto Fronza*  
*Donato Gallitelli*  
*Giovanni Giuliano*  
*Emilio Hirsch*  
*Fabrizio Loreni*  
*Maria Giuseppina Miano*  
*Rodolfo Negri*  
*Cristina Parolin*  
*Aurora Storlazzi*

### Minisymposia

*Alessandra Albertini*  
*Fabio Benfenati*  
*Claudia Bolognesi*  
*Claudio Brancolini*  
*Paola Branduardi*  
*Silvia Brunelli*  
*Alberto Chiarugi*  
*Massimo Crippa*  
*Francesco di Virgilio*  
*Monica Fabbri*  
*Fabio Fava*  
*Guido Frosina*  
*Silvia Giordano*  
*Girolama La Mantia*  
*Giovanna Lucchini*  
*Adriano Marocco*  
*Maurizio Memo*  
*Michele Morgante*  
*Anna Moroni*  
*Ferdinando Rossi*  
*Gian Attilio Sacchi*  
*Aniello Scala*  
*Chiara Scapoli*

### Special Interest Subgroups

*Giorgio Berton*  
*Annamaria Buschini*  
*Eugenia Cordelli*  
*Edgardo Filippone*  
*Gianfranco Gennarini*  
*Lina Ghibelli*  
*Liliana Gianfreda*  
*Roberto Mantovani*  
*Valerio Orlando*  
*Ruggero Pardi*  
*Vincenzo Zappavigna*

## Registration Desk

The registration desk at the Conference Centre opens on Thursday, 28 September, at 10:00.

The FISV 2006 Secretariat from 27 September to the end of the meeting will be at:

Fierecongressi  
Parco Lido  
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**Dear Colleagues,**

FISV 2006 will be the eighth annual meeting in the history of our Federation. We are therefore approaching a decade of life and we intend to continue to operate in the decades ahead, as we believe that plenty is still left for us to do. FISV was born thanks to the intuition, new among Italian biologists, that the segregation of scientists into traditional independent societies was a reason of weakness, both in scientific and social terms. Segregation slows the debate on many critical issues, such as the turnover of policy makers on the Italian research scene, the need for an interdisciplinary approach to scientific research, the establishment of fruitful interactions and collaborations between scientific institutions, in Italy and in the rest of the modern world. Because of their relatively small scale and restricted focus, the political impact of scientific societies, taken as separate entities, on the public opinion and on Italian politicians has been inevitably scarce. Ambitiously, FISV aims to provide a comprehensive answer to these issues.

In previous Congresses, we have demonstrated that scientists of very different origins, ranging from Environmental Biology to Neuroscience, from Plant Physiology to Pathology, can sit together and discuss themes of general and common interest; that the interactions among these scientists are fruitful; that the impact of the Federation at the social and political level is considerable and steadily growing. Those of you who have taken the trouble to visit our web site have read about the initiatives undertaken by FISV in support of scientists in this country: to debate, within our scientific community, issues pertaining to science funding and policy, as well as ways to promote the development of research in Italy and to reform the National Research Council (CNR). One of the main goals of FISV, explicitly declared in our Statute, is to become the organization of reference for life science researchers in Italy. Step by step, we are achieving this goal, even in the absence of any dedicated funding - in fact, our sole source of financial support is the yearly meeting, i.e., your participation in it.

Successful formats don't need major changes, so this year's Congress schedule remains largely unmodified: it includes three Main Lectures, to be given by widely acclaimed international scientists, as well as three Plenary Symposia that will deal with themes of general interest, pertaining to basic cellular and molecular mechanisms studied in a variegated set of model systems, spanning from plants to bacteria to a wide variety of animal organisms. Eight Parallel Symposia, twelve Minisymposia and the long list of Posters, together with the afternoon Sessions organized independently by the Scientific Societies, will offer more specialized presentations and discussions. Before the official opening of the Congress, seven Special Interest Subgroup (SIS) meetings will take place, independently organized by selected groups of scientists. These meetings will deal with emerging topics in cell and molecular biology, systems biology and biotechnology. Finally, the two Round Tables will deal, as usual, with key and outstanding issues of our life as science professionals: the reform of public research funding in our country, and the new prospects for scientific publishing offered by Open Access journals, in a comparison with traditional scientific publishing.

Very importantly, the foremost goal of our Federation is to foster the growth of a competitive new generation of Italian scientists. We know that the majority of our Congress delegates are young scientists, some of whom will attend our meeting for the first or second time. For these young researchers, the Riva meeting may represent a new opportunity to establish professional ties outside their lab or institute. We know all too well that, after a season of "reasonable hopes" for the future, the prospect for our young scientists has slipped back to its previous, ungratifying status. All we can say to that is that our Federation will work very hard to try and provide our junior scientists with a brighter future in their scientific and professional development.

We look forward to hosting you in Riva del Garda.

*Jacopo Meldolesi*

President

Federazione Italiana Scienze della Vita



# Programme



**11:30 A tribute to Arturo Leone** [Room 1000A]*Stefano Bonatti (Napoli)***12:00 Special Interest Subgroups****Room 1000B 1. Identification of target genes of transcription factors using chromatin immunoprecipitation and genomic microarray hybridisation (ChIP-on-Chip)**  
Organizers: V. Zappavigna, R. Mantovani, V. Orlando

Identification of downstream target genes for the HOXD13 transcription factor via a ChIP to Chip approach

*Valentina Salsi (Modena)*

ChIP on chip screening of p63 genomic targets in keratinocytes

*Maria Alessandra Vigano (Milan)*

A DNA micro-array based on Arrayed-Primer Extension (APEX) technique for the identification of fungal pathogens

*Daniele Campa (Pisa)*

A systems biology approach to identify the p63 gene regulatory network in skin

*Caterina Missero (Naples)***Press Room 2. Visualizing DNA damage: from comet assay to molecular combing**  
Organizers: E. Cordelli, A. Buschini

Comet assay: a critical overview of techniques

*Annamaria Buschini (Parma)*

Comet assay and human biomonitoring studies: is there a future?

*Massimo Moretti (Perugia)*

Comet assay in the analysis of genotoxic damage in male germ cells

*Paola Villani (Rome)*

Evaluation of differential radiation-induced fragmentation of euchromatin and heterochromatin by Comet-FISH analysis

*Pasquale Mosesso (Viterbo)*

Visualization of DNA molecules by molecular combing: a sensitive approach for the evaluation of genomic instability

*Antonella Russo (Padua)*

Phosphorylation of histone H2AX as a marker of DNA double-strand breaks

*Francesca Pacchierotti (Rome)***Room 300 3. Gene regulation and signaling in neural development**

Organizer: G. Gennarini

NKX2.1, a homeogene required for forebrain organogenesis, trans-activates the neuroepithelial marker nestin in vivo

*Stefania Guazzi (Genoa)*

Functional roles of the Sox2 transcription factor in neural stem cells of the mouse

*Rebecca Favaro (Milan)*

A functional characterization of the Dlx1/2 and Arx gene network in regulating the differentiation of the basal ganglia

*Vania Broccoli (Milan)*

Bdnf gene is a downstream target of Nurr1 transcription factor in rat midbrain neurons in vitro

*Umberto Di Porzio (Naples)*

The *Chick Ovalbumin Upstream Promoter Transcription Factor I (COUP-TFI)* plays a main role in hippocampal development

*Gemma Flore (Naples)*

Atrophen modulates the Delta-dependent specification of R3/R4 photoreceptor cell fate by Notch in the *Drosophila* eye

*Manolis Fanto (Milan)*

Analyses of the interactors of *kal-1*, the *C. elegans* homolog of the gene responsible for X-linked Kallmann Syndrome

*Elia Di Schiavi (Naples)*

Semaphorin signalling pathways to guide axons and migrating cells

*Luca Tamagnone (Candiolo)*

#### Meeting Room **4. Soil (bio)remediation**

**Organizers:** L. Gianfreda, E. Filippone

Contaminant bioavailability in soil: a tool to select remediation strategies

*Gianniantonio Petruzzelli (Pisa)*

Analysis of the natural genetic variation in the hyperaccumulator specie *Thlaspi caerulescens*

*Giovanna Visioli (Parma)*

Clean-up of a pluri-contaminated soil by *B. carinata*: highly biodegradable chelators and succession with wild species

*Flavia Navari-Izzo (Pisa)*

Zeolite synthesis in polluted soils: a new remediation process for heavy metal stabilization

*Roberto Terzano (Bari)*

Phytoremediation study: from laboratory to field test scale

*Meri Barbafieri (Pisa)*

Remediation of soil and water by using beneficial microorganisms

*Felice Scala (Portici)*

DNA-microarrays and gene expression analysis for risk assessment and remediation of contaminated sites

*Edoardo Puglisi (Piacenza)*

Bioremediation of historically contaminated soil by fungi: autochthonous or allochthonous strains?

*Maurizio Petruccioli (Viterbo)*

Study of the bacterial community in a diesel-fuel polluted soil undergoing bio-reclamation through landfarming treatment

*Annita Toffanin (Pisa)*

Bioremediation of a PAH-polluted soil by phytostimulation/phytoextraction in presence of cyclodextrin

*Mario Marzona (Turin)*

Rhizodegradation: a possible strategy in remediation of soils polluted with the endocrine disrupter nonylphenol?

*Mariangela Girlanda (Turin)*

**Belvedere Room 5. Network biology****Organizer: R. Pardi**

Generation and analysis of a human-mouse conserved coexpression network  
*Ferdinando Di Cunto (Turin)*

TOM: a web-based integrated approach for identification of candidate disease genes  
*Simona Rossi (Ferrara)*

A genetic analysis of actin regulation in fly cells  
*Tao Liu (London, United Kingdom)*

**Room 1000A 6. Stress response: a tribute to Arturo Leone****Organizer: L. Ghibelli**

Adenosine-mediated normoxic induction of HIF-1 through PKC and PI3K-dependent pathways in macrophages  
*Gaetano Cairo (Milan)*

Phenomic analysis of heavy metal toxicity using arrayed deletion mutant strains of the yeast *Saccharomyces cerevisiae*  
*Roberta Ruotolo (Parma)*

HSP70 release from mesoangioblast A6 stem cells through vesicles  
*Gabriella Sconzo (Palermo)*

Targeting the Heat Shock Factor 1 by RNAi in cervical cancer  
*Antonio Rossi (Rome)*

Hyperosmotic stress response  
*Pier Giorgio Petronini (Parma)*

Signaling pathways elicited by magnetic fields  
*Lina Ghibelli (Rome)*

Induction of apoptosis by cadmium in sea urchin embryos: possible involvement of extrinsic pathways  
*Simone Filosto (Palermo)*

ER Stress activates the expression of cargo receptor proteins and alters the glycoprotein transport to the Golgi complex  
*Paolo Remondelli (Fisciano)*

**Room 100 7. Cell migration and leukocyte recruitment****Organizer: G. Berton**

Trafficking of leukocytes in vivo is modulated by the scaffold protein Cybr  
*Antonio Rosato (Padua)*

The neutrophil activating protein of *Helicobacter pylori* crosses endothelia to promote neutrophils adhesion in vivo  
*Alessandra Polenghi (Padua)*

Identification of PI3Kgamma-dependent vimentin phosphorylation with a novel phosphoproteomic approach  
*Laura Barberis (Turin)*

Constitutive delocalization of PI3Kgamma selectively blocks chemotaxis by altering PtdIns(3,4,5)-P3 polarization  
*Carlotta Costa (Turin)*

$\beta$ PIX controls cell motility by regulating GIT1 distribution

*Lorena Za (Milan)*

A cross-talk between Src family kinases and Abl regulates phagocytic cell migration

*Giorgio Berton (Verona)*

p140Cap protein suppresses cell migration and tumour cell properties, regulating Src kinase activity

*Paola Defilippi (Turin)*

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

**16:00 EMBO Lecture** [Room 1000A]

Molecular mechanisms in plants that synchronise flowering with the changing seasons

*George Coupland (Cologne, Germany)*

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

**The evolution of genes and genomes**

Organizers: G. Bertorelle, A. Torroni

Neutral and adaptive evolution: current views

*Guido Barbujani (Ferrara)*

The early evolution of genetic molecules

*Antonio Lazcano (Mexico City, Mexico)*

The evolution of plant genomes: junk DNA and functional variation

*Michele Morgante (Udine)*

What made us hominidae: the genomic landscape

*Mariano Rocchi (Bari)*

**19:00 Wine & Cheese (Get together)**

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

Open Access: the way of the future in scientific publishing?

**08:30 Minisymposia I**

Belvedere Room

**1. Transcriptional and post-transcriptional regulation**

Organizers: G. La Mantia, M.P. Crippa

A conserved thyroid-specific enhancer in the human and mouse Pax8 locus

*Roberto Nitsch (Naples)*

Multiple regulatory regions and tissue specific transcription initiation mediate the expression of NEMO/IKK gamma gene

*Matilde V. Ursini (Naples)**In vivo* oncogenic properties of constitutively active STAT3 in the mouse*Marco Demaria (Turin)*

Identification of new cellular functions of the transcriptional CoREST-corepressor complex

*Annachiara Dall'aglio (Milan)*

Non-canonical RNA factories for non-coding RNA genes

*Erika Girardi (Rome)*

The disease genes for Split Hand/Foot Malformation type I and type IV are linked in a transcriptional regulatory cascade

*Nadia Lo Iacono (Milan)*

Functional characterization of CDKL5, a novel gene involved in the onset of Rett syndrome

*Nicoletta Landsberger (Busto Arsizio)*

Human p14ARF oncosuppressor intracellular levels are regulated by TBP-1, a component of the regulative subunit of the proteasome

*Alessandra Pollice (Naples)*

Room 1000B

**2. Genetics of microorganisms and microbial biotechnologies**

Organizers: A.M. Albertini, P. Branduardi

Effect of glucose repression mutants on chronological life span of the yeast *Kluyveromyces lactis**Lisa Rizzetto (Parma)*An AAV-containing vector replicates in *Saccharomyces cerevisiae* requiring a double strand break repair gene*Tiziana Cervelli (Pisa)**Cis-* and *trans-*activating elements involved in regulation of ferulic catabolic operon in *Pseudomonas fluorescens* BF13*Anna Grazia Ficca (Viterbo)*Study of antibiotic efflux pumps belonging to Resistance-Nodulation-Division (RND) family in *Burkholderia cenocepacia**Paola Guglierame (Pavia)*Virulence factors in *Enterococcus faecalis* strains of clinical origin*Moreno Bondi (Modena)*

Production of optically pure molecules with new microbial enzymes

*Raffaella Gandolfi (Milan)*

Identification of pneumolysin binding peptides from phage display libraries

*Giuseppina Gioffrè (Messina)*Forced expression of HveA renders cells sensitive to NF- $\kappa$ B activation by UV-inactivated HSV-1 or HSV-1 glycoprotein D*Antonio Mastino (Messina)*

**Room 300 3. Membrane trafficking, adhesion and transduction****Organizers: M. Fabbri, F. Benfenati**

Dynamic and reversible restructuring of the endoplasmic reticulum induced by PDMP in cultured cells

*Paolo Ronchi (Milan)*

The Ras2/Cdc25/Cyr1 complex is mainly localized in intracellular membranes in *Saccharomyces cerevisiae*

*Chiara Paiardi (Milan)*

Rab5 regulates Rac internalization and trafficking promoting spatial restriction of signaling and cell migration

*Andrea Palamidessi (Milan)*

NCAM: an adhesion molecule that acts as a molecular switch for FGFR signaling

*Ugo Cavallaro (Milan)*

Detection and monitoring of protein complexes on the plasma membrane of living cells using TIRFM-FRET

*Alessio Masi (Prato)*

Kidney specific ablation of beta1-integrin: a novel model of polycystic kidney disease

*Elena E. Amendola (Naples)*

**Room 1000A 4. Stem cells, development and differentiation****Organizers: F. Rossi, S. Brunelli**

Cripto signaling in ES cell differentiation: convergent pathways in stem cells and tumorigenesis

*Cristina D'Aniello (Naples)*

Emx2 and Pbx1 interact to form the scapular and pelvic regions of the vertebrate limb

*Giulia Vaccari (Modena)*

Gene expression analysis of purified embryonic and foetal myoblasts from Myf5GFP-P mice

*Stefano Biressi (Milan)*

Multipotency of embryonal and newborn murine liver stem cells

*Alice Conigliaro (Rome)*

On the role of the low affinity receptor for neurotrophins in muscle development

*Daniela Deponti (Milan)*

Characterization of retinal precursor isolated from post-natal and adult neuro-retina

*Serena G. Giannelli (Milan)*

Olig2 induction upon brain lesions – implications for neuronal repair

*Annalisa Buffo (Turin)*

Behaviour of eGFP-labelled NS cells transplanted in the adult rodent brain

*Erika Reitano (Milan)*

**Press Room 5. DNA repair and mutagenesis****Organizers: C. Bolognesi, G. Frosina**

Isolation of a base excision repair complex physically associated to DNA replication and cell cycle regulatory proteins

*Eleonora Parlanti (Rome)*

Characterization of mutations in the base excision repair MUTYH gene associated with familial adenomatous polyposis

*Maria Teresa Russo (Rome)*

Cockayne syndrome B protein regulates the transcriptional program after UV irradiation

*Luca Proietti de Santis (Viterbo)*

Role of CSB protein in repairing mitomycin-C (MMC) induced DNA crosslinks

*Daria Domizio (Viterbo)*

p21<sup>CDKN1A</sup> is required to relieve the inhibition of p300 activity from PCNA during nucleotide excision repair

*Ennio Prosperi (Pavia)*

Analysis of DNA replication at common fragile site *FRA6E* (6q26)

*Antonella Russo (Padua)*

Chemopotential of topotecan, temozolomide and cisplatin toxicity by poly(ADPR)polymerase inhibitors in tumor cells

*Piera Quesada (Naples)*

The potential role of gamma-glutamyltransferase (GGT) as a factor of genomic instability and tumor progression

*Alessandro Corti (Pisa)*

## Room 100 6. Plant-pathogen interactions

Organizers: A. Scala, A. Moroni

PKPI and PI-1 expression in different potato tissues and in response to wounding and *Globodera rostochiensis* infection

*Matteo Lorito (Portici)*

Microarray analysis of nitric oxide responsive transcripts for dissect the genetic mechanisms of pathogenesis and symbiosis

*Matteo de Stefano (Verona)*

Down regulation of grape transcriptional activity following infection with *Plasmopara viticola*

*Annalisa Polverari (Verona)*

Oligogalacturonides: cell wall-derived elicitors of plant defence responses

*Roberta Galletti (Rome)*

The involvement of cell lipoperoxidation in biosynthesis of ochratoxin A by

*Aspergillus ochraceus*

*Slaven Zjalic (Rome)*

Functional characterization of the rice WRKY transcription factor gene family upon biotic and abiotic stress

*Stefano Berri (Milan)*

Tomato/CMV/satRNA interactions: pathogen and host factors involved in the virus accumulation and the disease phenotype

*Donato Gallitelli (Bari)*

Permeabilising effects of lipodepsipeptides from *Pseudomonas tolaasii* and *P. reactans* on natural and model membranes

*Manuela Coraiola (Povo)*

## 10:30 Coffee break

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

### Membrane fusion and fission in cell biology and viral infection

Organizers: C. Montecucco, J. Meldolesi

Structural studies of viral envelope proteins

*Félix A. Rey (Paris, France)*

The mechanisms of fission and fusion: similar, opposite or just different?

*Alberto Luini (Santa Maria Imbaro)*

Synaptogenesis and synaptic vesicle exocytosis and endocytosis

*Michela Matteoli (Milan)*

Snake neurotoxins, membrane bending and exo-endocytosis

*Ornella Rossetto (Padua)*

**13:00 Lunch break** (sandwich offered by FISV) [Palameeting]

**14:00 Poster presentations I** [Palameeting]

Parallel Minisymposia 1-6 & Special Interest Subgroups

**16:00 CHIARA D'ONOFRIO Lecture** [Room 1000A]

Microtubules, kinetochores and the mitotic checkpoint:  
from protein architecture to biological function  
*Andrea Musacchio (Milan)*

**17:30 Parallel Symposia I**

Room 1000A **1. DNA processing and repair**  
Organizers: E. Dogliotti, M. Fanciulli

Description of the role of the eleven factors that are used to restore a damaged DNA  
*Jean-Marc Egly (Illkirch, France)*

Mechanisms of checkpoint activation by DNA damage  
*Marco Muzi-Falconi (Milan)*

Activation of the ATM-Chk2 checkpoint response pathway by DNA damage  
*Domenico Delia (Milan)*

A DNA-damage response in cellular senescence and tumorigenesis  
*Fabrizio D'Adda Di Fagagna (Milan)*

Room 300 **2. Genetic models of infertility: from yeast to humans**  
Organizers: A. Storlazzi, M.G. Miano

Fungi: models to study meiotic pairing and recombination  
*Denise Zickler (Orsay, France)*

Follicular epithelium differentiation and eggshell morphogenesis in *Drosophila*  
*Giuseppe Gargiulo (Bologna)*

ATM promotes chromosome axis integrity and the obligate crossover on the sex chromosomes during meiosis  
*Marco Barchi (Rome)*

*Foxl2* in the generation of the ovarian reserve and sex determination in mammals  
*Chris Ottolenghi (Baltimore, USA)*

Room 1000B **3. Synthesis and regulation of the translational apparatus in eukaryotes**  
Organizers: F. Loreni, R. Negri

Modulation of tRNA gene transcription by chromatin-associated proteins  
*Giorgio Dieci (Parma)*

Translational regulation in the synthesis of the translational apparatus  
*Fabrizio Loreni (Rome)*

Assembly and nuclear export of pre-ribosomes  
*Pierre-Emmanuel Gleizes (Toulouse, France)*

The last step of ribosomal maturation is controlled by the dual function protein p27BBP (eIF6)  
*Stefano Biffo (Milan)*

**Belvedere Room 4. Light and development****Organizers: L. Cattivelli, G. Giuliano**

PKS1 (phytochrome kinase substrate 1) is a phototropin binding protein required for phototropism

*Christian Fankhauser (Lausanne, Switzerland)*

Too much of a good thing: when light is bad for photosynthesis

*Roberto Bassi (Verona)*

The role of the DET1 complex in photomorphogenesis

*Chris Bowler (Paris, France)*

HFR1/SICS1 acts as a master negative regulator in the shade avoidance response

*Ida Ruberti (Rome)***20:30 Round Table II [Room 1000A]****Government funding of biomedical research in Italy**

**08:30 Minisymposia II****Room 100 7. Population genetics and evolution**

Organizers: M. Morgante, C. Scapoli

The evolution of races in Northern Italy by different chromosome rearrangements

*Moira Scascitelli (Rome)*Sequencing of large genomic regions in Norway spruce (*Picea abies*): an insight into a complex conifer genome*Emanuele de Paoli (Udine)*

Nuclear location and replication timing predispose chromosomal regions to the neocentromere formation

*Salvatore Saccone (Catania)*

CYP2D6 variation and the evolution of detoxifying systems

*Silvia Fuselli (Ferrara)*

Mitochondrial DNA in Tuscans: novel clues about the origin of Etruscans

*Alessandro Achilli (Pavia)*

Gene flow between East Asia and India: a comparative analysis of mtDNA and Y-chromosome in the Tharu of Terai

*Simona Fornarino (Pavia)***Room 1000B 8. Cellular stress and apoptosis**

Organizers: F. di Virgilio, C. Brancolini

Characterization of two Calmodulin binding sites in the FADD death domain

*Giuliana Papoff (Monterotondo Scalo)*

The apoptotic function of HDAC4

*Gabriela Paroni (Udine)*Molecular study of the *H. pylori* vacuolating toxin VacA-induced apoptosis*Federica Calore (Padua)*

Role of CDK9 in the activation of the p53-p21 axis in response to diverse forms of stress

*Giuliana Napolitano (Naples)*

Different involvement of ascorbate peroxidase isoenzymes during lethal and sub-lethal heat shock

*Maria Concetta de Pinto (Bari)*

Nitric oxide and cGMP are messengers in defence gene induction of ozone stressed tobacco plants

*Stefania Pasqualini (Perugia)*

The human antimicrobial peptide LL-37 induces autophagy in mammalian cells

*Francesca D'Este (Udine)***Belvedere Room 9. Environmental microbiology and ecology**

Organizer: F. Fava

Tellurite uptake in *Rhodobacter capsulatus* via an as yet uncharacterized acetate transport system*Roberto Borghese (Bologna)*Surface-active compounds production and hydrocarbon uptake mechanisms in bacteria belonging to the *Gordonia* genus*Elena Tamburini (Cagliari)*

Antagonism among psychrotrophic bacteria isolated from Antarctic seawater (Terra Nova Bay, Ross Sea)

*Renato Fani (Florence)*Behaviour of continuous cultures of *Acinetobacter johnsonii* grown at different growth rates*Simona Rossetti (Rome)*

Intracellular behaviour of *Legionella pneumophila* and other aquatic bacteria in *Acanthamoeba polyphaga*  
*Elisa Guerrieri (Modena)*

Study of bacteriocins with broad activity spectrum produced by enterococci isolated from food and drinking water  
*Immacolata Anacarso (Modena)*

Photoacclimation in the green sulfur bacterium *Chlorobium tepidum*: specificities and broader implications  
*Alberto Vianelli (Varese)*

The neutrophil-activating protein of *Helicobacter pylori* promotes Th1 immune responses  
*Andrea Cappon (Padua)*

## Press Room 10. Plant mineral nutrition and metabolism

Organizers: A. Marocco, G.A. Sacchi

A transcription factor is involved in the formation of white lupin cluster roots?  
*Nicola Tomasi (Udine)*

Metabolic changes in iron-stressed dicotyledonous plants  
*Graziano Zocchi (Milan)*

Fe deficiency induces sulphate uptake and redistribution of reduced sulphur pool in barley plants  
*Stefania Astolfi (Viterbo)*

A survey of P2-G6PDH in barley roots: a biochemical and molecular approach  
*Sergio Esposito (Naples)*

Functional characterization of the *Lotus japonicus* AMT1 family  
*Enrica D'Apuzzo (Naples)*

Stress-dependent and light-dependent regulatory pathways of photosynthetic glyceraldehyde-3-phosphate dehydrogenase  
*Paolo Trost (Bologna)*

Transcript co-regulation for identifying genes involved in glucosinolates metabolism and regulation in *Arabidopsis*  
*Piero A. Morandini (Milan)*

Polyamine catabolism in *Arabidopsis thaliana*  
*Paraskevi Tavladoraki (Rome)*

## Room 300 11. Neurodegeneration and neurorepair mechanisms

Organizers: M. Memo, A. Chiarugi

Regulation of PSD-95 mRNA stability: a new function for the Fragile X Mental Retardation Protein  
*Silvia de Rubeis (Rome)*

MicroRNA expression in different brain regions in mice in basal conditions and in response to stressful stimuli  
*Carlo Presutti (Rome)*

Neurodegenerative diseases and protein misfolding: novel targets and new inhibitors  
*Alessandra Pani (Monserrato)*

Zn<sup>2+</sup>: a novel ionic trigger of brain injury  
*Stefano Sensi (Chieti Scalo)*

Nicotine and neurodegeneration: studies on nicotinic receptor subunit knockout mice  
*Michele Zoli (Modena)*

Mesenchymal stem cells support hippocampal neuron survival and synaptogenesis and stimulate glial proliferation  
*Silvia Coco (Monza)*

**Room 1000A 12. Cell cycle, oncogenes and tumor suppressors**

Organizers: G. Lucchini, S. Giordano

Mechanisms involved in trafficking and degradation of the Ron tyrosine kinase receptor  
*Serena Germano (Novara)*Study of the role of p130Cas adaptor molecule in ErbB2-mediated tumorigenesis  
*Sara Cabodi (Turin)*

A role for the Ran GTPase in control of mitotic completion and reconstitution of the interphase state

*Patrizia Lavia (Rome)*

A functional interplay between Aurora-A, Plk1 and TPX2 at spindle poles

*Giulia Guarguaglini (Rome)*

Mechanism of Aurora B activation by INCENP and inhibition by Hesperadin

*Fabio Sessa (Milan)*

Regulation of Myc family's proteins by ARF

*Barbara Majello (Naples)*

Role of PARP activity during cell cycle re-entry

*Mariarosaria Carbone (Rome)*

Deregulated expression of kinetochore protein Hec1 impairs cell cycle progression and causes cell death

*Marta Mattiuzzo (Rome)***10:30 Coffee break****11:00 Parallel Symposia II****Room 300 5. p53 protein family: from mechanisms to patients**

Organizers: G. Fronza, G. Del Sal

Upstream of wild type p53: modifiers and activators

*Silvia Soddu (Rome)*

Mutant p53 proteins: between loss and gain of function

*Giovanni Blandino (Rome)*

Genetic and epigenetic determinants of p53- and p73-dependent apoptosis predict outcome of chemotherapy in vivo

*Tim Crook (London, United Kingdom)*

Reactivation of the p53 tumor suppressor function by small molecules

*Galina Selivanova (Stockholm, Sweden)***Room 1000B 6. Models of mitochondrial diseases**

Organizers: I. Ferrero, L. Frontali

Mitochondrial disorders: a tale of two genomes

*Massimo Zeviani (Milan)**Saccharomyces cerevisiae* as a model organism for mitochondrial diseases.

The example of Friedreich ataxia.

*Francoise Foury (Louvain La Neuve, Belgium)*Functional characterization of mitochondrial disease genes in *Drosophila**Mauro A. Zordan (Padua)*

Mitochondrial dysfunction in neurodegeneration and ageing

*Nils-Goran Larsson (Stockholm, Sweden)*

**Room 1000A 7. Migration and pathfinding****Organizer: E. Hirsch**

Finding their way - how cells sense and respond to chemoattractant gradients

*Richard A. Firtel (La Jolla, USA)*

Signaling modules in leukocyte integrin activation

*Carlo Laudanna (Verona)*

PI3Kgamma: the molecular compass of migrating leukocytes

*Emilio Hirsch (Turin)*

The chemokine decoy receptor D6: mechanism of action and role in vivo

*Massimo Locati (Milan)***Belvedere Room 8. Emerging viruses****Organizers: D. Gallitelli, C. Parolin**

Plant virus evolution: the past, the present and the future

*Roger Hull (Norwich, United Kingdom)*

Emerging and reemerging virus diseases: a continuous challenge

*Carlo De Giuli Morghen (Milan)*

Molecular and biological evolution of highly pathogenic H5N1 avian influenza virus

*Nicola Decaro (Valenzano)*

SARS – a short wrap-up

*Konrad Stadler (Siena)***13:00 Lunch break** (sandwich offered by FISV) [Palameeting]**14:00 Poster presentations II** [Palameeting]

Parallel Minisymposia 7-12

**16:00 FISV Lecture** [Room 1000A]Regulation of gene expression in the brain:  
promoter choice, alternative splicing, and microRNAs*Tom Maniatis (Cambridge, MA, USA)*

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**17:00 Scientific Society Meetings****ABCD**

- 17:00 Premiazione della miglior Tesi di Dottorato ABCD 2006 (Simona Salati) e del miglior Poster ABCD 2006 (Sara Cipolat)
- 17:20-18:00 Ruolo dell'antigene CD34 nel differenziamento di cellule staminali emopoietiche  
*Simona Salati*
- 18:00-19:00 ABCD President Lecture  
Toward an understanding of p63 gene function in development and disease  
*Caterina Missero*
- 19:00-20:00 Assemblea Soci ABCD

**AGI**

- 17:30 Premio di Dottorato: Relazione del vincitore e consegna del Premio
- 18:00 Assemblea Soci AGI

**SIBBM**

- 17:00-18:00 Premio SIBBM per il miglior lavoro 2005
- 18:00-19:00 Conferenza organizzata dall'ABCD
- 19:00-20:00 Assemblea della Società

**SIFV**

- 17:00 Assemblea della Società  
Premio "A. Baccharini Meandri"
- 20:00 Cena Sociale

**SIMA**

- 17:00 Premio giovane ricercatore. Lecture.  
Premio miglior poster SIMA  
Assemblea Soci SIMA

**SIMGBM**

- 17:00-17:30 Premio F. Tatò (SIMGBM)  
Molecular basis of herpes simplex virus-1: entry and fusion  
*T. Gianni*
- 17:30-18:00 Premio Novartis (Siena, Italy)  
The 1rp gene and its role in Type I fimbriation in *Citrobacter rodentium*  
*A. Cordone*
- 18:00-19:00 Lecture SIMGBM  
Transcriptional response in *H. pylori*: a few regulators generate complex solutions  
*Vincenzo Scarlato (Bologna)*

**09:00 Plenary Symposium III** [Room 1000A]**Symbiosis: new views over old associations**

Organizers: E. Patriarca, S. Donadio

Obligate intracellular endosymbionts of insects: from genomes to function

*Roy Gross (Würzburg, Germany)*

Metabolites from microbial symbionts

*Jörn Piel (Bonn, Germany)*

Early signalling pathways in nitrogen fixing symbiosis.

*Maurizio Chiurazzi (Naples)*

Endobacteria and arbuscular mycorrhizal fungi: symbiosis inside symbiosis

*Paola Bonfante (Turin)***11:00 Coffee break****11:30 GIORGIO TECCE Lecture** [Room 1000A]

MicroRNAs and chromosomal abnormalities in cancer cells

*Carlo Croce (Columbus, OH, USA)***12:30 CLOSING CEREMONY** [Room 1000A]



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