

---

## Tuesday, September 18

---

- 11.00-13.00 **Registration**
- 13.30-14.00 **Opening & Welcome**  
**Eugenio Gaudio** – Rector, Sapienza University of Rome  
**Gennaro Ciliberto** – FISV President
- 14.00-15.00 **The EMBO Keynote Lecture**  
**FISV Lecture Riccardo Cortese**  
Chair: Valeria Poli (Turin)  
**Wolf Reik** (The Babraham Institute, Cambridge and University of Cambridge, UK)  
Single cell epigenome landscape of development and ageing
- 15.00-17.00 **Plenary Symposium**  
**The Circadian Clock. A Living Organism's Best Friend in a Spinning World**  
Chairs: Alex Costa (Milan), Rodolfo Costa (Padua),  
**Amita Sehgal** (Howard Hughes Medical Institute and University of Pennsylvania, USA)  
How do clocks control behavior and physiology: insights from a small animal model  
**Jay C. Dunlap** (Geisel School of Medicine at Dartmouth, Hanover, NH, USA)  
The regulatory network governing global responses to changes in light and time  
**Alex A. R. Webb** (University of Cambridge, UK)  
Dynamic plasticity of circadian oscillators
- 17.00-17.30 **Coffee Break**
- 17.30-19.30 **Round Table** (This session will be in Italian)  
**Which future for the smart biotechnologies**  
Chair: Anna Meldolesi (Corriere della sera, CRISPeR Mania)  
**Anna Cereseto** (Università di Trento)  
**Gilberto Corbellini** (Sapienza Università di Roma)  
**Andrea Lenzi** (Sapienza Università di Roma e CNBBSV)  
**Massimo Losito** (Ateneo Pontificio Regina Apostolorum, Roma)  
**Michele Morgante** (Università di Udine)  
**Luigi Naldini** (San Raffaele, Milano e Tiget)  
**Sandro Vitale** (Istituto di Biologia e Biotecnologia Agraria, CNR, Milano)

---

## Wednesday, September 19

---

- 8.30-11.30 **Short Talks by Participants (Session I)**  
**PSI.1**
- 8.30-10.00 **Environmental Microbiology and Biotechnology (Topic 1)**  
Chairs: Duccio Cavalieri, Teresa Rinaldi  
**Annamaria Bevivino** (Rome)  
Environmental microbial signatures revealed by metagenomic analysis of the airways of cystic fibrosis patients  
**Bruno Casciari** (Rome)  
Frog-skin esculentin-1a derived peptides against *Pseudomonas aeruginosa* keratitis: anti-biofilm activity and immobilization to soft contact lenses  
**Simona Crognale** (Rome)  
Exploitation of biological As(III)-oxidation in water treatment systems: potentialities and microbiome profiling in bioreactors

**Giovanni Bacci** (Sesto Fiorentino, FI)  
Flying to Mars: the human microbiome under isolated conditions

**Francesca D'Angelo** (Rome)  
Biotechnological exploitation of bacterial communication processes: from quorum sensing inhibition to the generation of synthetic cells interfacing with natural cells

10.00-11.30 **Genetics of Microorganisms (Topic 7)**

Chair: Francesco Imperi, Renato Fani

**Sarah Hijazi** (Rome)  
Hijacking bacterial iron metabolism using the transition metal gallium

**Alice Checcucci** (Sesto Fiorentino, FI)  
Playing with the rhizobial Mega-Apps: creation and multi-omics characterization of a genomically hybrid strain in the nitrogen-fixing symbiotic bacterium *Sinorhizobium meliloti*

**Olivier Jousson** (Trento)  
The role of Type VI Secretion System on the competitiveness of *P. aeruginosa* clinical isolates

**Alessandra Polissi** (Milan)  
Characterization of an *E. coli* suppressor mutant that can survive and assemble a functional LPS transport machinery in the absence of the essential inner membrane-tethered LptC

**Alessandra Fortuna** (Rome)  
DksA-dependent regulation of quorum sensing in *Pseudomonas aeruginosa*

**PSI.2**

8.30-10.00 **Genomics, Proteomics and Systems Biology (Topic 2)**

Chairs: Rita Casadio, Paolo Provero

**Federico Martinelli** (Palermo)  
Meta-analysis of RNA-seq data to gain insight into crop responses to environmental stresses

**Marco Russo** (Bologna)  
Analyses of genomic R-loop maps induced by G-quadruplex ligands in human cancer cells

**Federica Zinghirino** (Catania)  
VDAC (voltage dependent anion selective channel) promoters elements and their involvement in metabolic stress

**Elisa Margherita Maffioli** (Milan)  
Nanostructured surfaces promote differentiation and maturation events in different cell types

**Marcello Manfredi** (Alessandria)  
Integrating serum proteomics, metabolomics and lipidomics to study the effect of sport activity

**PSI.3**

8.30-10.00 **Chromosome Biology, Cell Division and Cell Cycle (Topic 3)**

Chairs: Giovanni Cenci, Giulia Guarguaglini

**Valeria Palumbo** (Rome)  
Morgana/CHP-1 is required for oogenesis and early embryonic divisions in *Drosophila*

**Patrizia Lavia** (Rome)  
RANBP2: a nucleoporin with key roles in protein SUMOylation

**Ferdinando Di Cunto** (Orbassano, TO)  
Citron kinase inactivation inhibits medulloblastoma progression by inducing apoptosis and cell senescence

**Patrizia Sarogni** (Pisa)  
Cohesin over-expression promotes colorectal cancer development

**Veronica Ferrucci** (Naples)  
A genotype/ phenotype correlation study to dissect the clinical features of the PRUNE-1 syndrome (#617481)

10.00-11.30 **DNA Replication, Repair and Recombination (Topic 8)**

Chairs: Antonio Musio, Ennio Proserpi

**Serena Montalbano** (Parma)  
Identification of the biological target of new platinum, copper and nickel complexes

**Anita Palma** (Rome)

MUS81 endonuclease activity is regulated by CHK2 for replication forks rescue upon replication stress and BRCA2 depletion

**Antonella Porrazzo** (Rome)

Low doses of gamma irradiation render *Drosophila melanogaster* resistant to the DNA damage

**Elisa Palumbo** (Padua)

Identification of molecular biomarkers useful for predicting the likelihood of radiation-induced side effects in oncological patients undergoing radiotherapy

**Giulio Ticli** (Pavia)

Live cell imaging analysis of the influence of p21CDKN1A on PCNA-partners turnover at UV-induced DNA damage sites

#### **PSI.4**

#### 8.30-10.00 **Oncogenes and Tumor Suppressors (Topic 5)**

Chairs: Sara Cabodi, Miriam Martini

**Giulia Bon** (Rome)

HMGAI/E2F1 axis and NFkB pathways regulate LPS progression and trabectedin resistance

**Amani Bouzidi** (Rome)

Impact of the inhibition of the mitochondrial Serine hydroxymethyltransferase enzyme in mitochondrial respiration and cancer cell growth

**Viola Calabrò** (Naples)

Secreted YB-1 regulates NFkB signaling pathway in receiving cells

**Lidia Chellini** (Rome)

Regulation of ovarian cancer progression by IQGAP1 through endothelin-1 receptor signalling

**Silvia Soddu** (Rome)

The p53 mitotic centrosomal localization contributes to mitotic surveillance pathway

#### 10.00-11.30 **Cellular Stress, Apoptosis and Autophagy (Topic 11)**

Chairs: Daniela Barilà, Lucia Morbidelli

**Romina Burla** (Rome)

A new telomeric and ESCRT complex associated factor

**Andrea Guarino** (Naples)

YB-1 recruitment to stress granules in Zebrafish reveals a differential adaptive response

**Alberto Inga** (Trento)

An RBP complex containing DHX30 and PCBP2 operates translation control acting as gatekeeper for p53-dependent apoptosis

**Marialuisa Piccolo** (Naples)

Nucleolipidic-based Ru(III) nanosystems induce multiple cell death pathways activation in preclinical models of human breast cancer

**Gaetana Paoletta** (Fisciano, SA)

Involvement of mitochondria and endoplasmic reticulum in stress response to the environmental pollutant 4-Nonylphenol in a human liver cell line

#### **PSI.5**

#### 8.30-10.00 **Transcriptional Mechanisms and Epigenetic Modifications (Topic 4)**

Chairs: Giacomo Donati, Aymone Gurtner

**Michele Menotta** (Urbino)

ATM unconventional splicing modulation by glucocorticoids

**Veronica Ruta** (Rome)

Strategies to inhibit PRC2 methyltransferase activity in *Arabidopsis* seedlings

**Annalisa Roberti** (Pavia)

Epigenetic marks at satellite-free and satellite-based centromeres

**Elisa Coluzzi** (Rome)

How oxidative stress affects telomere structure and telomeric epigenetic modifications?

- 10.00-11.30 **Non-coding RNA (Topic 9)**  
 Chairs: Alessandro Fatica, Francesca Orso
- Silvia Biscarini** (Rome)  
 LncRNAs in motor neuron differentiation and physiopathology
- Neri Mercatelli** (Rome)  
 HULC/miR-186/Twist: a novel molecular axis in the resistance of Ewing Sarcoma to YK-4-279
- Simone Detassis** (Trento)  
 An innovative technology for the direct detection of microRNAs in biofluids
- Giorgio Dieci** (Parma)  
 SINE-encoded ncRNA profiling unveils a new layer of epigenetic dysregulation in cancer
- Lidia Villanova** (Rome)  
 MiR-663 sustains NSCLC by inhibiting mitochondrial outer membrane permeabilization (MOMP) through PUMA/BBC3 and BTG2
- PSI.6**
- 8.30-10.00 **Plant Nutrition and Biofortification (Topic 10)**  
 Chairs: Laura De Gara, Anita Zamboni
- Francesca Cardinale** (Grugliasco, TO)  
 Strigolactones effects on root acidification ability
- Sara Cimini** (Rome)  
 Lead exposure differentially affect growth, antioxidative network and nutrient uptake in metalicolous and non-metallicolous *Zygophyllum fabago* populations
- Flaviana Marzano** (Bari)  
 Scouting cross-kingdom transfer: effect of plant microRNA on the expression of human genes involved in cell proliferation
- Pasqualina Woodrow** (Caserta)  
 Tvv1 retrotransposon family is activated by seaweed extracts in Micro-Tom genome
- Sezen Yilmaz-Sarialtin** (Ankara, Turkey)  
*In vitro* antioxidant and anti-inflammatory activities of some *viola L.* species in Turkey
- 10.00-11.30 **Photosynthesis, Metabolism and Environmental Stress (Topic 6)**  
 Chairs: Cinzia Berteà, Nicola Tomasi
- Giulia Russo** (Grugliasco, TO)  
 Strigolactones and abiotic stress in plants: modulation of abscisic acid transport
- Cecilia Brunetti** (Sesto Fiorentino, FI)  
 Abscisic acid dynamics in leaves, shoot and roots of *Populus nigra* exposed to drought: relationships with water relations and carbohydrate status
- Libero Gurrieri** (Bologna)  
 Rearrangements in carbon metabolism under osmotic stress: from central metabolism to stress response
- Davide Marzi** (Rome)  
 COP1 mediates light-controlled stamen growth in *Arabidopsis thaliana*
- Alberta Pinnola** (Verona)  
 Archeology of stress-resistance genes: a novel strategy to improve photosynthesis and productivity in crops
- 11.30-12.00 **Coffee Break**
- 12.00-13.00 **Plenary Lecture**  
 Chair: Omar Rota-Stabelli (Trento)
- Alexei Maklakov** (University of East Anglia, Norwich, UK)  
 Why do we age: disposable soma of functional trade-offs?
- 13.00-13.15 **SARTORIUS Short Talk**  
**T. Claudio Bencivenga** (Milan)  
 IncuCyte® S3: live-cell analysis system

13.15-14.30 **Lunch time and Posters Viewing (Session I: Topics 1, 2, 3, 4, 6, 7, 8, 9, 10, 11)**

14.30-16.30 **Plenary Symposium**

**Oxidative Stress, Protein Damage and Repair: Implications in Health and Disease**

Chairs: Alessandra Polissi (Milan), Roberto Sitia (Milan)

**Frédéric Barras** (Institut Pasteur, Paris, France)

Protein homeostasis control: fighting ROS damages by repairing oxidized proteins

**Roberto Sitia** (Università Vita-Salute San Raffaele, Milan)

Tuning redox signaling in and between cells

**Alessandro Giuffrè** (CNR-IBPM, Rome)

Energy, redox status and gasotransmitters: poisons at work!

**Anna Teresa Palamara** (Sapienza University of Rome)

Recurrent Herpes Simplex Virus -1 (HSV-1) infection causes neurodegenerative signs and cognitive deficits in mice. Role of protein oxidation

16.30-17.00 **Coffee Break**

17.00-19.00 **Parallel Symposia**

**1. Emergence and Spread of Archaic and Modern Humans: News from Bones and Genomes**

Chairs: Antonio Torroni (Pavia), Luca Sineo (Palermo)

**Giorgio Manzi** (Sapienza University of Rome)

The evolution of the genus *Homo* has been driven by a series of geographical dispersals

**Robert Foley** (University of Cambridge, UK)

Evolution of *Homo sapiens* in Africa: integrating genes, fossils and behaviour

**Carles Lalueza-Fox** (CSIC-University Pompeu Fabra, Barcelona, Spain)

Genomics of the bell beaker phenomenon and the transformation of Western Europe

**Cristian Capelli** (University of Oxford, UK)

Recent, ancient and archaic genomic signatures in the Italian population

**2. Genetic and Epigenetic Mechanisms Regulating Transgenerational Inheritance**

Chairs: Michele Morgante (Udine), Antonella Russo (Padua)

**Marco Barchi** (University of Rome Tor Vergata)

Molecular mechanisms underlying X-Y chromosomes segregation errors during meiosis

**EMBO Young Investigator Lecture**

**Nicola Iovino** (Max Planck Institute of Immunobiology and Epigenetics, Freiburg, Germany)

Epigenetic inheritance through the germline in *Drosophila*

**James Hackett** (EMBL, Monterotondo, Rome)

Genetic and epigenetic regulation of the mammalian germline

**EMBO Young Investigator Lecture**

**Isabel Bäurle** (University of Potsdam, Germany)

Chromatin regulation of heat stress memory in plants

**3. Proteins as Drug Target and Drugs, and Protein Degradation as a Therapeutic Strategy**

Chairs: Alberto Boffi (Rome), Andrea Mozzarelli (Parma)

**Giuseppe Zanotti** (University of Padua)

Structural determination of proteins of *Helicobacter pylori* relevant for bacterial survival and pathogenicity

**Antonella Isacchi** (Nerviano Medical Sciences, Milan)

Kinases as drug targets: state of the art and future perspectives

**Cecilia Weigelt** (Biotech Research & Product Development, Chiesi Group, Lidingo, Sweden)

The CMC and biological development path of an enzyme replacement therapeutic drug - from idea to EMA approval

**Alessio Ciulli** (University of Dundee, Scotland, UK)

Drug design for targeted protein degradation

#### 4. Crossing Biological Barriers, in Health and Disease

Chairs: Massimo Masserini (Milan), Vito De Pinto (Catania)

**Francesca Re** (University of Milano-Bicocca)

Modeling the blood-brain barrier (BBB) in healthy and diseased states

**Giovanni Tosi** (University of Modena and Reggio Emilia)

Crossing the blood-brain barrier: nanomedicine jump

**Valeria Dall'Asta** (University of Parma)

Cationic amino acid transport: physiology and pathology

**Krisztina Herédi-Szabó** (SOLVO Biotechnology, Budaörs, Hungary)

Challenges and opportunities to develop drugs traversing biological barriers

#### 19.00-21.00 Societies' Time

##### AGI

19:00 Premio AGI "Ferruccio Ritossa" 2018 e presentazione del lavoro premiato

19:20 Premio Dottorato AGI/Zanichelli 2018 e presentazione del lavoro premiato

19:40 Assemblea dei Soci AGI

##### SIBV

Premi 2018:

- SIBV Seed Grants

- Giovani Biologi Vegetali

Assemblea Sociale

##### SIMAG

Assemblea dei Soci

---

## Thursday, September 20

---

#### 8.30-11.30 Short Talks by Participants (Session II)

##### PSII.1

#### 8.30-10.00 Development, Differentiation and Ageing (Topic 12)

Chairs: Daniele Condorelli, Fulvio Della Ragione

**Adriana Borriello** (Naples)

Studies on cancer-associated *CDKN1B* mutations: unravelling a novel mechanism for tumor suppressor loss of function

**Marina Bruno** (Florence)

Role of sphingosine 1-phosphate signaling axis in the differentiation of epithelial cochlear progenitors

**Roberta Cascella** (Florence)

The mechanism of neuronal toxicity by oligomers and fibrils of  $\alpha$ -synuclein

**Stefania Martucciello** (Fisciano, SA)

Tbx1 interacts genetically with Vegfr3 to regulate lymphangiogenesis in mice

**Rebecca Piccarducci** (Pisa)

Influence of APO $\epsilon$  polymorphism and physical activity on the well-being of erythrocytes: antioxidant capability and cellular membrane assessment

#### 10.00-11.30 Stem Cells, iPS, Cancer Stem Cells (Topic 18)

Chairs: Gianni Cuda, Gabriele Stocco

**Maria Giovanna Garone** (Rome)

Development of new cranial motor neuron differentiation protocol from human iPS cells carrying ALS mutations

**Chiara Giacomelli** (Pisa)

New insights on the human bone-marrow and gingival mesenchymal stem cell responses to senescence induction

**Giusj Pugliese** (Rome)

Generation of an iPSC model to investigate replicative stress as the possible molecular mechanism underlying Schimke immune-osseous dysplasia

**Alessandro Rosa** (Rome)

Dysregulation of RNA metabolism in iPSC-derived FUS mutant human motor neurons, an *in vitro* model system for Amyotrophic Lateral Sclerosis

**Federico Salaris** (Rome)

Transcriptome and proteome analysis of FXS patient-derived iPSC lines to investigate FMRP role and its interactors during neural development

## **PSII.2**

8.30-10.00 **Metabolism and its Regulation in Health and Diseases (Topic 13)**

Chairs: Mauro Magnani, Luigi Palmieri

**Giulia Guiducci** (Rome)

Beyond intermediary metabolism: characterization of the moonlighting function of human serine hydroxymethyltransferase

**Alessio Menga** (Bari)

Blockade of glutamine synthetase enhances inflammatory response in microglial cells

**Vito Porcelli** (Bari)

Molecular identification and functional characterization of a novel glutamate transporter in yeast and plant mitochondria

**Karim Zuhra** (Rome)

Synthesis and breakdown of H<sub>2</sub>S, the third gasotransmitter

**Gianluca Mattei** (Florence)

Metabolism in breast cancer: a systems biology approach

## **PSII.3**

8.30-10.00 **Human Genetics and Genomic Diversity (Topic 14)**

Chairs: Alessandro Achilli, Luca Pagani

**Michela Leonardi** (Cambridge, UK)

Human genetic diversity and the effects of subsistence strategies

**Angelica Macauda** (Pisa)

Inherited variation in the xenobiotic transporter pathway and survival of multiple myeloma (MM) patients: an IMMEnSE study

**Manuel Gentiluomo** (Pisa)

A Mendelian randomization approach to predict the risk to develop pancreatic ductal adenocarcinoma

**Marco Capodiferro** (Pavia)

Exploring the genetic history of Panamanians through ancient genomes

**Linda Ongaro** (Tartu, Estonia)

The European heritage of American populations

10.00-11.30 **Evolutionary Biology (Topic 20)**

Chairs: Giorgio Manzi, Marco Oliverio

**Valeria Russini** (Rome)

A biogeographic analysis of loss of planktotrophy in caenogastropod molluscs (Gastropoda, Nassariidae)

**Omar Rota Stabelli** (San Michele all'Adige, TN)

The genome of *Drosophila subpulchrella* helps polarising the evolution of pest traits in its sister species *Drosophila suzukii*

**Roberto Feuda** (Bristol, UK)

A common regulatory neurogenic toolkit in Bilateria

**Costantino Buzi** (Rome)

On the shoulder of the past. The scapula of the Neanderthal from Altamura, Italy

## PSII.4

### 8.30-10.00 **Neurobiology and Neuropharmacology (Topic 15)**

Chairs: Giulia Piaggio, Giorgio Racagni

**Carlo Brighi** (Rome)

Modeling Fragile X syndrome with iPSC-derived neurons as a purpose of deciphering the molecular mechanisms and the neurobiological phenotypes associated with the pathology

**Anna Maria Lucianò** (Rome)

M2 muscarinic receptors show inhibitory effects on drug resistance in human neuroblastoma cells

**Claudia Colussi** (Rome)

Nitro-oxidative stress dependent Nup153 alteration affects neural stem cell function in a mouse model of Alzheimer's disease

**Serena Faggiano** (Parma)

Human serine racemase, a drug target for neuropathologies

**Ciro Iaccarino** (Sassari)

Role of LRRK2 in the regulation of dopamine receptor trafficking

### 10.00-11.30 **Nutrition Biochemistry (Topic 19)**

Chairs: Francesco Bonomi, Silvana Hrelia

**Paola Antonia Corsetto** (Milan)

Nutrient deprivation alters lipid phenotype in triple-negative breast cancer

**Simone Luti** (Florence)

Investigating the nutraceutical properties of peptides extracted from Tuscany sourdoughs

**Laura Giusti** (Pisa)

A proteomic approach to study the neuroprotective effect of oleocanthal in SH-SY5Y cells

**Stefania Iametti** (Milan)

Structure-dependent biological activities of food-related stilbene derivatives isomers

**Pasquale Marrazzo** (Rimini)

Enhancing stem cell functionality through antioxidant supplementation

## PSII.5

### 8.30-10.00 **Immunology and Host-Pathogen Interaction (Topic 16)**

Chairs: Fiorentina Ascenzioni, Cristina Parolin

**Monica Di Paola** (Sesto Fiorentino, FI)

Strain level analysis of intestinal fungi and immune mediated host-yeast interaction

**Marta Kinga Lemieszek** (Lublin, Poland)

Beneficial effect of cathelicidin on treatment of hypersensitivity pneumonitis induced by *Pantoea agglomerans* – *in vivo* studies

**Maria Luisa Mangoni** (Rome)

How to control *Pseudomonas aeruginosa*-induced pneumonia? A lesson from derivatives of the amphibian skin peptide esculentin-1a

**Luca Cavinato** (Rome)

Escaping the oxidative burst: dual role of the *P. aeruginosa* superoxide dismutases

**Federica Runci** (Rome)

The contribution of iron uptake to *Acinetobacter baumannii* pathogenicity

### 10.00-11.30 **Plant Development and Disease (Topic 22)**

Chairs: Franco Faoro, Michela Zottini

**Alex Costa** (Milan)

Looking for aminoacid-gated calcium channels in plants: functional, biochemical and structural characterization of one GLR isoform

**Cristina Ruberti** (Muenster, Germany)

Fine-tuning the unfolded protein response in plants

**Anna Fiorillo** (Rome)

Biochemical characterization of Salt tolerance-related protein (STRP): a new protein involved in cold stress in *A. thaliana*



**Federica Locci** (Rome)

Oxidation of Damage-Associated Molecular Patterns as a homeostatic mechanism in plant immunity and development

**Vincenzo Lionetti** (Rome)

Pectin methylesterases in plant immunity: activators or susceptibility factors?

## **PSII.6**

8.30-10.00

### **Biotransformations (Topic 17)**

Chairs: Loredano Pollegioni, Raffaele Porta

**Paola Branduardi** (Milan)

Optimizing the biotransformation of residual biomasses by ameliorating the effectiveness of cell factories

**Mohammed Sabbah** (Naples)

Innovative chitosan-based biodegradable plastics as food coating and wrapping

**Valeria Vecchi** (Verona)

Identification of two novel hemicellulosolytic enzymes from the hyperthermophilic bacterium *Thermotoga neapolitana* and their exploitation for lignocellulose degradation

**Andrea Franzetti** (Milan)

Removal and biodegradation of air pollutants by plant-bacteria interactions in urban areas

**Sara Ragucci** (Caserta)

Purification and characterization of a novel peroxidase from seeds of *Araujia sericifera* Brot

10.00-11.30

### **Glycoconjugates (Topic 21)**

Chairs: Alberto Passi, Alessandro Prinetti

**Livia Cabitta** (Milan)

Identification of the antigen recognized by rHIgM22, a remyelination-promoting human monoclonal antibody and his effect on glial cells

**Ilaria Caon** (Varese)

The long non coding RNA HAS2-AS1 regulates breast cancer cells aggressiveness acting as a competing endogenous RNA

**Elena Caravà** (Varese)

Role of TNF $\alpha$  on endothelial glycocalyx

**Michela Pucci** (Bologna)

Glycosylation in colorectal cancer: role of B4GALNTII and Sialyl Lewis x antigen

11.30-12.00

### **Coffee Break**

12.00-13.00

### **Plenary Lecture**

Chair: Mario Pezzotti (Verona)

**Luis Herrera Estrella** (LANGEBIO, Mexico)

Genetically modified plants: past, present and future

13.00-13.15

### **SENECO Short Talk** (This talk will be in Italian)

**Ettore Senes** (Milan)

Ultrasound-assisted emerging technologies for applied and basic research

13.15-14.30

### **Lunch time and Posters Viewing (Session II: Topics 5, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22)**

14.30-16.30

### **Plenary Symposium**

#### **Life is Also a Matter of Taste and Smell**

Chairs: Roberto Barale (Pisa), Guglielmina Nadia Ranzani (Pavia)

**Wolfgang Meyerhof** (Saarland University, Homburg, Germany)

Different tongues for different people? - Genetics of bitter taste receptors and perceptual differences in individuals and the population

**Catia Sternini** (UCLA, Los Angeles, CA, USA)

Gut bitter taste receptors as sensors of luminal content

**Paolo Gasparini** (University of Trieste)  
Genes and food preferences and their role in personal choices, lifestyle and health

**Darren Logan** (Wellcome Trust Sanger Institute, Cambridge, UK)  
Do you smell what I smell? The genetics of olfaction

16.30-17.00 **Coffee Break**

17.00-19.00 **Parallel Symposia**

**1. RNA Biology**

Chairs: Irene Bozzoni (Rome), Salvatore Oliviero (Turin)

**Dan Dominissini** (Sheba Medical Center & Tel-Aviv University, Israel)  
Concepts and controversies in epitranscriptomics

**Danny Incarnato** (IIGM, Turin)  
Dissecting the RNA structurome to decipher *in vivo* RNA folding dynamics

**Gian Gaetano Tartaglia** (Centre for Genomic Regulation and ICREA, Barcelona, Spain)  
Aggregation, neurodegeneration and RNA networks

**Julie Martone** (Sapienza University of Rome)  
Lnc-049, a cytoplasmic long non-coding RNA involved in skeletal muscle differentiation

**2. Inflammation and Disease**

Chairs: Carlo Riccardi (Perugia), Paolo Pinton (Ferrara)

**Cecilia Garlanda** (Humanitas University, Milan)  
IL-1R8, a negative regulator of inflammation and checkpoint molecule

**Francesco Di Virgilio** (University of Ferrara)  
ATP: the quintessential DAMP

**Maria Lina Bernardini** (Sapienza University of Rome)  
PAMPs: linking bacterial recognition and inflammatory response

**Stefano Bruscoli** (University of Perugia)  
Glucocorticoid and B cell functions: role of Glucocorticoid-Induced Leucine Zipper (GILZ)

**3. Carbon Cycle and Climate Change: the Future**

Chairs: Luca Espen (Milano), Sergio Esposito (Napoli)

**Maria De Nobili** (University of Udine)  
Soil, the second active planet scale interface: effects and perspectives of climate change

**Nick Ostle** (Lancaster University, UK)  
Climate change and soil biotic carbon cycling

**Mauro Centritto** (IVALSA, CNR, Florence)  
Evolution of stomatal and mesophyll conductance: implications for carbon and water exchange in drylands

**Rémi Lemoine** (CNRS and University of Poitiers, France)  
Flux of carbon from leaves to roots in plants under environmental stress

21.00 **Social Dinner**

---

## Friday, September 21

---

8.30-10.30 **Plenary Symposium**

**Farming for Pharming: Plants as Biofactories (in the Production of Vaccines, Antibiotics, Anticancer)**

Chairs: Eugenio Benvenuto (Rome), Franco Faoro (Milan)

**George P. Lomonosoff** (John Innes Centre, Norwich, UK)  
Plant-based expression of virus-like particles and their use in biomedicine and bionanotechnology

**Emanuela Noris** (CNR, Torino)  
Transient expression of anticancer and antiviral antigens in plants

**Julian K-C. Ma** (St. George's, University of London, UK)  
Molecular pharming in tobacco to provide antibody based solutions for global health

**Selene Baschieri** (ENEA Centro Ricerca Casaccia, Rome)  
Plant-derived vaccines and smart drugs

**Linda Avesani** (University of Verona)  
Plant-made nanomaterials for diagnosis and therapy

10.30-11.30 **Plenary Lecture**

Chair: Bianca Colonna (Rome)

**Josep Casadesús** (University of Seville, Spain)  
Waddington's landscapes in the microbial world

11.30-11.45 **SEQUENTIA BIOTECH Short Talk**

**Walter Sanseverino** (Barcelona, Spain)  
When computer science meets life science: novel bioinformatics approaches to improve NGS data interpretation

11.45-12.00 **Coffee Break**

12.00-14.00 **Plenary Symposium**

**Regulatory Network Dynamics: from Interaction to Function**

Chairs: Matteo Barberis (Amsterdam, The Netherlands), Pier Luigi Martelli (Bologna)

**FEBS National Lecturer - Luis Serrano Pubul** (Centre for Genomic Regulation, Barcelona, Spain)

Comprehensive systems analysis of the transcriptome and its regulation of a genome reduced bacterium

**Matteo Barberis** (University of Amsterdam, The Netherlands)

Deciphering yeast physiology by a multi-scale framework integrating cell cycle and metabolism

**Davide Cacchiarelli** (TIGEM, Napoli)

Understanding transcription factors biology through genomics

**Adil Mardinoglu** (KTH Royal Institute of Technology, Stockholm, Sweden)

The employment of systems biology in treatment of liver diseases

**Poster Prizes and Closing Remarks**

15.00-17.00 **Societies' Time**

**SIBV**

Elevator Pitch Session

Premio Assunta Baccarini Melandri

**SIMGBM**

Consegna Premi Franco Tatò e Mario Campa 2018

Assemblea Generale dei Soci

**Riunione PO BIO/10**