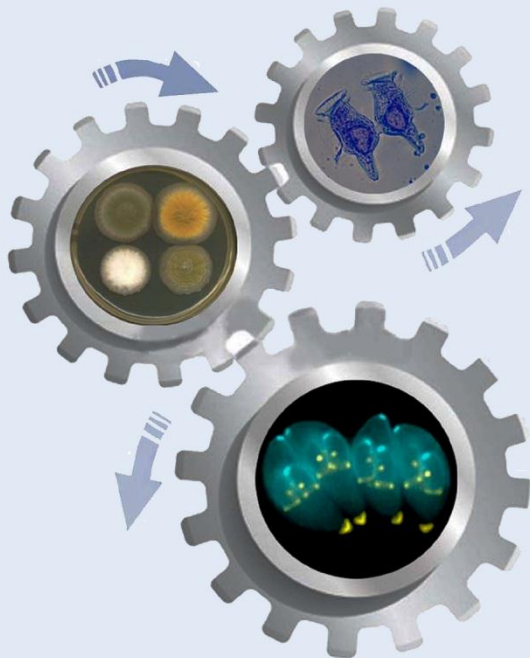




# XXIX National Congress of the ITALIAN SOCIETY of PROTISTOLOGY onlus



organized by  
**SOCIETÀ ITALIANA DI PROTISTOLOGIA ONLUS**

co-organized with  
**ISTITUTO SUPERIORE DI SANITÀ'**  
Department of Environment and Primary Prevention

in collaboration with  
**INTERNATIONAL SOCIETY OF PROTISTOLOGISTS**

**Rome, Italy 1- 4 October 2012**

## Monday 1<sup>st</sup> October

12.00      **REGISTRATION**

14.00      **Welcoming address and introduction to the work (with welcome tea)**

Dr. L. Musmeci, Director of the Dep. of Environment and Primary Prevention  
MC. Angelici *on behalf of the Local Organizing Committee*

14.20      **OPENING LECTURE**

*How many Kingdoms?*

E. Piccini (Padova, Italy)

15.20      **LECTURE**

*DNA splicing contributes to the evolution of the Paramecium genome*

F. Catania (Muenster, Germany)

**ROUND TABLE: Academic and educational activities to the Protistological Science**

Chair: G. Di Giuseppe, M.G. Chessa

16.20      *Protists in classroom: single-celled organisms for biology teaching*

F. Buonanno, M. Aquilani, MG. Trotta, C. Ortenzi

16.35      *The hall of Protistology at the Museo di Storia Naturale e del Territorio di Pisa:  
developments and correlated initiatives*

G. Di Giuseppe

17.50      *Protist tracks*

F. Cantarano

18.05      **Discussion**

## Tuesday 2<sup>nd</sup> October

### **SYMPOSIUM: SEA WATER PROTISTS** - Chair: P. Luporini, F. Dini

#### 9.00 LECTURE

*Studying the marine environment: lessons from Oxyrrhis*  
**D.J.S. Montagnes (Liverpool, UK)**

#### 10.00 *Evolution of mating systems in Euplotes*

**F. Ricci, A. Vallesi, C. Alimenti, G. Di Giuseppe, F. Dini, P. Luporini**

#### 10.20 *Phylogenetic systematics of the genus Condyllostoma (Ciliophora, Heterotrichea) by means of a multidisciplinary analytical study of some marine morphospecies*

**L. Modeo, R.J.P. Dias, N. Fernandes, G. Tomei, V. Boscaro, F. Verni, ID. Da Silva-Neto, G. Petroni**

#### 10.40-11.00 **COFFEE BREAK**

#### 11.00 *Protein cold adaptation of a novel eukaryotic phospholipase from the psychrophilic Antarctic ciliate Euplotes focardii and catalytic activity optimization for industrial application*

**G. Yang, C. De Santi, D. De Pascale, S. Pucciarelli, M. Mariani, C. Miceli**

#### 11.20 *The analysis of the transcriptome from the Antarctic ciliate Euplotes focardii: hints of cold adaptation and regulation of the genetic information.*

**S. Pucciarelli, R. Rajan Devaraj, C. Miceli.**

### **SYMPOSIUM: SEA WATER PROTISTS** - Chair: C. Miceli, F. Verni

#### 11.40 LECTURE

*Benthic microalgae in the marine environment: diversity, ecological role and relations with the substrate.*

**C. Totti (Ancona, Italy)**

#### 12.40 *Advances in the Teredinibacter turnerae/Shipwoms/Boveria interaction: An Inter-Kingdom Tripartite Interaction*

**M. Senra, R. Dias, V. Boscaro, I. Silva, G. Petroni, C. Soares**

#### 13.00 *Molecular monitoring for microbial community in the mucus of Ostreopsis ovata (Dinoflagellate) mediterranean isolates*

**A. Curti, MC. Angelici**

#### 13.20 *Intracellular protein transport mechanisms in eukaryotes: ciliates and mammals use the same translocation and nuclear localization signals.*

**A. Candelori, M. Montani, A. Amici, A. Vallesi (P)**

#### 13.35-15.00 **LUNCH**

**SYMPOSIUM: NOBILI-FRANCESCHI AWARD**- Chair: G. Rosati, F.Trielli

15.00 *Multi-marker molecular characterization of ciliates and their endosymbionts*  
**V. Boscaro**

15.20 *Characterization of alpha-amylases from the psychrophilic Antarctic ciliate Euplotes focardii.*  
**V. Turturo**

15.40 *Discovering Protists: "model organisms" for a didactic project to a second class in an high school*  
**M. Castioni**

16.00 **MEETING SIP onlus**

## Wednesday 3<sup>rd</sup> October

### **SYMPOSIUM: FRESH WATER PROTISTS** - Chair: E. Piccinni, S Fokin

#### 09.00 LECTURE

*Towards a quality assessment of freshwater ecosystems through the morphological analysis of phytoplankton*

**L. Naselli-Flores (Palermo, Italy)**

10.00 *Distinct Functional Roles of Beta-Tubulin Isoforms in Microtubule Arrays of Tetrahymena thermophila*

**D. Sparvoli, P. Ballarini, S. Pucciarelli, S. Barchetta, T. Yu, C. Miceli**

10.20 *Paramecium genus. Main features to morphospecies discrimination.*

**S. Fokin**

#### 10.40 -11.00 **COFFEE BREAK**

11.00 *Molecular monitoring for pathogenic protozoa in lake water*

**P. Ade, MC. Angelici, E. Funari (P)**

11.15 *Copper induces two copper-zinc superoxide dismutase genes in Tetrahymena thermophila*

**D. Ferro, F. Boldrin, C. De Pitta', F. Cattalini, L. Guidolin, L. Tallandini, O. Coppellotti, P. Irato, E. Piccinni, G. Santovito (P)**

### **SYMPOSIUM: SOIL PROTISTS** - Chair: O. Coppellotti , A. La Terza

#### 11.30 LECTURE

*Testate amoebae communities in soils: from point to global scale*

**Y. Mazei (Penza, Russia)**

12.30 *Ciliate community structures correlates with environmental variables: investigation on agricultural and natural soils*

**D. Bharti, S. Kumar, S. Marinsalti, MG. Molina, M. Tiberi, G. Ciabocco, C. Bernacconi, E. Insom, A. La Terza**

12.50 *Ciliate biodiversity and preliminary behavioral observations from the chemoautotrophic cave ecosystem of Frasassi, Italy*

**S. Kumar, D. Bharti, F. Buonanno, C. Ortenzi A. La Terza**

13.10 *Immunohistochemical detection of aquaporin-like proteins in Dictyostelium discoideum and Paramecium primaurelia*

**A. Amaroli, L. Gallus, M. Rossi, S. Ferrando, S. Scarfi, MA. Masini, MG. Chessa**

#### 13.30 -15.00 **LUNCH**

**ROUND TABLE: Secondary metabolites of protists: new tool in pharmacology?**

Chair: F. Buonanno, C. Vannini, A. Vallesi

15.00 *Ciliate lipidomics: the case of Coleps hirtus*

A. Anesi, F. Buonanno, M. Planchestainer, C. Ortenzi G. Guella

15.15 *Mechanical and chemical interactions in offense-defense strategies of freshwater ciliates.*

F. Buonanno, A. Anesi, G. Guella, S. Kumar, D. Bharti, A. La Terza, C. Ortenzi

15.30 Discussion

**FREE TIME**

20.00 **Social Dinner - (with possible boat cruise on the Tiber river)**

## Thursday 4<sup>th</sup> October

### **SYMPOSIUM: PATHOGENIC PROTISTS** - Chair: M. Gramiccia, D. Savoia

9.00 LECTURE

*Targeting the unique thiol metabolism in Leishmania, the Achilles' heel of the parasite. A structural biology study.*

**G. Colotti (Rome, Italy)**

10.00 *Shift towards zymodeme homogeneity of Leishmania infantum from HIV-positive patients in the HAART era*

**M. Gramiccia, T. Di Muccio, A. Scalone, L. Gradoni**

10.20 *Molecular diagnosis of Plasmodium vivax infection in the frame of european project pregvax (Plasmodium vivax infection in pregnancy).*

**M. Menegon**

10.40-11.00 **COFFEE BREAK**

### **SYMPOSIUM: PATHOGENIC PROTISTS** - Chair: S. Pucciarelli, A. Amaroli

11.00 LECTURE

*Dynamics of harmful algal blooms in the Mediterranean sea*

**A. Penna (Urbino, Italy)**

12.00 *Detection of parasitic protozoa DNA in sea water of the Taranto Bay*

**A. Curti, A. De Sanctis, MC. Angelici (P)**

12.15 *Use of photosensitized processes in the prevention and control of water- and vector-borne diseases caused by protozoa*

**O. Coppellotti, L. Guidolin, C. Fabris**

12.35 *Toxoplasma gondii DNA in goats: a preliminary report*

**F. Mancianti, S. Nardoni, L. Mugnaini, F. Pedonese, C. D'Ascenzi, F. Franco, R. Papini (P)**

12.50 *Detection of Toxoplasma DNA in serum samples of sheep from South Africa*

**L. Mugnaini, NA. Samra, CM. McCrindle, S. Nardoni, F. Mancianti, MC. Angelici**

13.10-15.00 **LUNCH**

**SYMPOSIUM: PATHOGENIC PROTISTS** - Chair: F. Mancianti, MC. Angelici

15.00 **LECTURE**

*Fungi toxins*

**P. Battilani (Piacenza, Italy) and C. Brera (Rome, Italy)**

16.00 *Antimycotic activity of some Mediterranean autochthonous plants essential oils against canine isolates of Malassezia pachydermatis*

**L. Mugnaini, S. Nardoni, L. Pistelli, A. Bertoli, M. Leonardi, F. Pisseri, F. Mancianti (P)**

16.15 *Identification and susceptibility to some antifungal drugs of yeasts isolated from healthy animals*

**S. Nardoni, L. Mugnaini, R. Papini, F. Mancianti (P)**

**ROUND TABLE: Emergent Protists** - Chair: G. Petroni, L. Gradoni

16.30 *Endemic and emerging Phlebotomine-borne diseases in Italy: a short review in the light of the EU projects EDEN and EDENext*

**M. Gramiccia**

16.45 *Molecular tools for an environmental monitoring of emerging pathogens*

**MC. Angelici**

17.00 *Toxin production in dinoflagellates: focus on Ostreopsis cf. ovate*

**L. Pezzolesi**

17.15 **Discussion**

17.30 **Final remarks**

**Acknowledgement** - on behalf of the Italian society of Protistology (SIPonlus) the President would like to thank the International society of Protistology (ISOP) for supporting the student travel during the organization of this congress, by the will of the Executive Committee.