

PROGRAM

THURSDAY February 13th 2020

Session III: Nanoparticles and immunity

Chair *Adriana Vallesi* (University of Camerino) and *Gianfranco Santovito* (University of Padova)

14.00 *P. Engelmänn, K Bodó, B Kokhanyuk, P Németh, Y Hayashi* (University of Pécs)

Earthworm cellular immunity: an old story re-loaded from the nanomaterial's point of view

14.40 *M. Auguste, C Mayall, M Hocevar, D Drobne, L Canesi* (University of Genova)

Immunomodulation of selected NPs in *Mytilus* hemocytes: a morphofunctional study

15.00 *C. Ciacci, L Canesi, MV Grimmelpont, I Corsi, E Bergami, D Curzi, D Burini, VMP Bouchet, P Ambrogini, P Gobbi, Y Ujiié, Y Ishitani, R Coccioni, JM Bernhard, F Frontalini* (University of Urbino)

Effects of different nanoparticles types on benthic foraminifera *Ammonia parkinsoniana*

Session IV: Inflammation and tissue regeneration

Chair *Giuseppe Scapigliati* (University of Viterbo) and *Giovanna Parisi* (University of Palermo)

15.20 *K Bodó, Á Boros, Z László, É Rumpler, L Molnár, P Németh, P Engelmänn* (University of Pécs)

Identification of novel lumbricins in *Esenia andrei* earthworms – a missing link of annelids' antimicrobial peptides

15.40 *A. Peronato, N Franchi, L Drago, L Ballarin* (University of Padova)

Characterisation of the complement system of a colonial protochordate: study of the expression of C3, CR1, C3AR and their role in nonself recognition

16.00 *A. Vallesi, P Luporini* (University of Camerino)

Evidence for the chimeric origin of a pheromone-coding gene in *Euplotes raikovi*

16.20 Coffee Break

17.00 *C. La Corte, M Cammarata, D Parrinello, M Dara, A Grimaldi, N Baranzini, MG Parisi* (University of Palermo)

The Mediterranean anthozoan *Anemonia viridis* (Forsskål, 1775) for the study of inflammation and regeneration

17.20 *L. Pulze, F Ferraro, N Baranzini, A Grimaldi, M de Egulleor* (University of Insubria)

Morpho-functional characterization of the microenvironment in muscle cell development of *Hirudo verbana*

17.40 *F. Ferraro, L Pulze, N Baranzini, A Grimaldi, M de Egulleor* (University of Insubria)

In silico characterization of the leech *Helobdella robusta*'s matrixome

18.00 IADCI (SIICS) Members Assembly

20.00 BUS (via J. H. Dunant 3) and transfer to the Gala dinner

20.30 Gala Dinner

Session II: New trends in arthropod and mollusk immunity

Chair *Davide Malagoli* (University of Modena-Reggio Emilia) and *Gianluca Tettamanti* (University of Insubria)

9.00 *J. Rolff* (University of Berlin)

Cocktails and long lasting immunity: evolution of innate defenses and bacterial resistance

9.40 *S. Caccia*, (University of Portici, Napoli)

Horizontal gene transfer can drive the evolution of insect immune defences

10.00 *D. Bruno, A Montali, M Mastore, M Casartelli, S Caccia, A Grimaldi, M Brivio, G Tettamanti* (University of Insubria).

Analysis of cellular and humoral immune response in *Hermetia illucens* larvae

10.20 *O Romoli, A Saviane, S Mukherjee, D Brady, E Franzolin, C Rampazzo, P D'Antona, A Montali, A Squartini, G Tettamanti, S Cappellozza, A Bhunia, F Sandrelli* (University of Padova)

Innate immune response and antimicrobial peptides in the silkworm *Bombyx mori*

10.40 *A. Montali, F Berini, M Mastore, A Saviane, S Cappellozza, MF Brivio, F Marinelli, G Tettamanti* (University of Insubria)

Use of silkworm as infection model for novel antibiotic screening and development

11.00 Coffee Break

11.20 *A. Ferrari, R Fiorino, M Montanari, A Accorsi, R Simonini, D Malagoli* (University of Modena and Reggio Emilia)

20-OH-ecdysone and extracellular ATP are not pro-autophagic factors for the lepidopteran fat body cell line, IPLB-LdFB

11.40 *C Manfrin, F Capanni, L Dolzani, A Pallavicini, PG Giulianini* (University of Trieste)

Discovery and characterisation of novel CHHs involved in the immune response of the red swamp crayfish *Procambarus clarkii*

12.00 *G. Bergamini, A Accorsi, D Malagoli* (University of Modena and Reggio Emilia)

Hemocyte depletion as a tool for studying immune cell dynamics and contribution to fundamental biological processes in the freshwater snail *Pomacea canaliculata*

12.20 *U. Rosani, B Fromm, CM Bai, P Venier, KM Wegner* (University of List auf Sylt)

microRNAs: possible new players in bivalve antiviral immunity

12.40 *S. Greco, M Gerdol, A Pallavicini* (University of Trieste)

Evolution and molecular diversity of mytilin-like defense peptides in marine mussels

13.00 Lunch

WEDNESDAY February 12th 2020

13.00-15.00 Registration

14.45 Welcome address

Session I: Immune response and stress adaptation

Chair *Maria Rosaria Coscia* (CNR Napoli) and *Piero Giulianini* (University of Trieste)

15.00 *G. Scapigliati, A Miccoli, S Picchiatti* (University of Tuscìa)

Fish lymphocytes as an equivalent of mammalian innate-type lymphocytes?

15.40 *S. Picchiatti, F Buonocore, A Miccoli, PR Saraceni, AM Fausto, G Scapigliati* (University of Tuscìa).

T lymphocytes in the sea bass (*Dicentrarchus labrax*) intestine

16.00 *M. Dara, MG Parisi, C La Corte, D Parrinello P Giulianini, C Manfrin, M Cammarata* (University of Palermo)

Evolution, adaptation and immune functions of fish F-type lectins. The novelty of FBL from *Trematomus bernacchii* (Boulenger, 1902)

16.20 *A. Ametrano, S Greco, U Oreste, M Gerdol, MR Coscia* (CNR, Napoli)

Investigations on IgT genes of sub-Antarctic fish shed light on the CH2 exon loss

16.40 *AM Tolomeo, A Carraro, R Bakiu, S Toppo, M Gerdol, P Irato, D Pellegrino, F Garofalo, P Bisaccia, F Corrà, D Ferro, SP Place, G Santovito* (University of Trieste)

Too warm or not too warm... Is the antioxidant system of Antarctic fish ready to face climate changes?

17.00 *D Rizzotti, S Greco, M Gerdol, C Manfrin, G Santovito, A Pallavicini, PG Giulianini* (University of Trieste)

Heat stress in *Trematomus bernacchii*: bias of experimental design

17.20 *P. Bisaccia, F Corrà, M Gerdol, P Irato, G Santovito* (University of Padova)

Glutathione peroxidases in the striped rockcod *Trematomus hansonii*

17.40 *D. Melillo, R Marino, G Della Camera, P Italiani, D Boraschi* (CNR Napoli)

Assessing immunological memory in the solitary ascidian *Ciona robusta*

18.00 *L. Drago, L Ballarin, G Santovito* (University of Padova)

Stress granules in *Ciona robusta*: molecular evolution of TIAR and TTP and early evidence of their gene expression under stress conditions induced by metals

18.30-20.00 Welcome Cocktail

FRIDAY February 14th 2020

Session V: Modulators of immune response and senescence

Chair *Magda de Eguileor* (University of Insubria) and *Loriano Ballarin* (University of Padova)

9.00 *A De Vito, N Baranzini, E Balza, D Scaldaferrri, L Monti, D Baci, E Rosini, A Inforzato, R Taramelli, L Pollegioni, D Noonan, A Grimaldi, L Mortara, E Acquati* (University of Insubria)

T2 ribonuclease-mediated tumor suppression: an evolutionary conserved process involving a cross-talk between cancer cells and the immune system

9.40 *N Baranzini, E Martegani, V T Orlandi, M Reguzzoni, M de Eguileor, G Tettamanti, F Acquati, A Grimaldi* (University of Insubria)

The antibacterial role of *Hirudo verbana* RNASET2: evaluation *in vivo* and *in vitro*

10.00 *C Giaroni* (University of Insubria)

Hyaluronan, a new neuroimmune modulator of the microbiota-immune-gut-axis

10.40 Coffee break

11.00 *L Ballarin, F Cima* (University of Padova)

Preliminary data on senescence in hemocytes of the colonial ascidian *Botryllus schlosseri*

11.20 *V Longo, A Longo, A Martorana, A Lauria, A Azzolina, M Cervello, P Colombo* (University of Palermo)

Identification of a LPS induced chemo attractive peptide from *Ciona robusta*

11.40 *C Rossetti* (University of Insubria)

TLR4 present and future perspective

12.00 Concluding remarks

LUNCH:

Mensa Officine Jarit in via J. H. Dunant 2 (near to Croce Rossa)

Bar and restaurant in viale Borri

SOCIAL DINNER:

Euro 35,00 (payable at registration)

WIFI:

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Università dell'Insubria
via J.H. Dunant 3, Varese*

**XXI MEETING
12th-14th February 2020**

PROGRAM

ORGANIZING COMMITTEE

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Gianluca Tettamanti, Roberto Valvassori,
Nicolò Baranzini, Daniele Bruno, Aurora Montali,
Laura Pulze

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