

Program

7 June - BIOLOGICAL INTERACTIONS: FROM BASIC TO APPLIED RESEARCH

- 8.30 Apertura punto desk-segreteria per accreditamento

Chairs: Silvana Piersanti and Manuela Rebora

- 9.00 Summer school work start (DCBB Director Alceo Macchioni and PhD Course Coordinator Manuela Rebora)
- Coevolutionary dynamics in biological interactions
 - 9.30 **S. Gorb** "Insect attachment from the plant perspective" (Dep. of functional morphology and biomechanics, University of Kiel, Germany)
 - 10.30 **E. Conti** "Chemical ecology of entomophagous insects" (Dep. Scienze Agrarie, Alimentari e Ambientali, Unipg)
- 11.00 coffee break and poster session
 - 11.30 **L. Ederli** "Mechanisms of plant defense against insect herbivores" (Dep. Scienze Agrarie, Alimentari e Ambientali, Unipg)
 - 12.00 **V. Saitta** "Chemical and visual cues interaction in host-plant selection: the case study of the melon ladybird" (Dep. Scienze Agrarie, Alimentari e Ambientali, Unipg)
 - 12.15 **M. Sevarika** "Intraspecific communication in spittlebugs" (Dep. Scienze Agrarie, Alimentari e Ambientali, Unipg)
 - 12.30 **I. Cardinali** "DNA-based methodological approaches and their applications" (Dep. Chimica, Biologia e Biotecnologie, Unipg)
 - 12.45 **L. Brustenga** "Living with a back-seat driver, can neurotropic pathogens alter red fox behavior and habitat use?" (Dep. Medicina Veterinaria, Unipg)
- 13.00 Lunch and poster session

Chairs: Antonia Concetta Elia and Gianandrea La Porta

- Bridging Theory and Practice in Environmental Research
 - 14.30 **G. Mancinelli** "Stable isotopes are a tool for assessing the impact of non-indigenous species" (Dep. Scienze e Tecnologie Biologiche ed Ambientali, Unisalento)
 - 15.00 **E. Goretti/D. Cappelletti** "Bioindicators and environmental pollution" (Dep. Chimica, Biologia e Biotecnologie, Unipg)

- 16.00 coffee break and poster session
 - 16.30 **D. Mattioli** "Life programme the European tools for habitat and species conservation" (Noesis European Development Consulting)
 - 17.00 **V. Della Bella** "Bioindicators for the evaluation of the ecological quality of surface waters: benthic diatoms" (ARPA Umbria)
 - 17.30 **G. Lombardi** "Breeding birds in Umbria: research methods, population trends and multi-species indicators" (Regione Umbria)

- 18.00 Closure of works

8 June - NOVEL AND RISING THREATS TO HUMAN HEALTH AND WELLBEING

- 8.30 Apertura punto desk-segreteria per accreditamento

Chairs: Barbara Camilloni and Ermanno Federici

- Threats from emerging pathogens and antimicrobial resistance
 - 09.00 **C. Bietta** "The SARS-CoV-2 pandemic: an epidemiological perspective" (UOSD Epidemiologia USL Umbria 1)
 - 09.30 **R. Spaccapelo** "Genomic aspects of the SARS-CoV-2 evolution" (Dep. Medicina e Chirurgia, Unipg)
 - 09.50 **M. Petricciuolo** "Wastewater-based detection and surveillance of SARS-CoV-2" (Dep. Chimica, Biologia e Biotecnologie, Unipg)
 - 10.10 **A. Michelucci** "Does the Sars-Cov-2 3a protein functions as an ion channel?" (Dep. Chimica, Biologia e Biotecnologie, Unipg)

- 10.30 coffee break and poster session
 - 11.00 **A. Mencacci** "Antimicrobial resistance in human pathogens" (Dep. Medicina e Chirurgia, Unipg)
 - 11.30 **B.T. Cenci Goga** "Antimicrobial Resistance of microorganisms detected in food" (Dep. Medicina Veterinaria, Unipg)
 - 12.00 **E. Albini** "Resistance to oxazolidinones in *Enterococcus* spp: an emerging threat in a One health scenario" (RS7 Ricerca e Sviluppo, Istituto Zooprofilattico Sperimentale dell'Umbria e delle Marche "Togo Rosati")
 - 12.15 **M. Torricelli** "Novel insights and perspectives on *Toxoplasma gondii*, a re-emergent foodborne and environmental pathogen" (RS7 Ricerca e Sviluppo, Istituto Zooprofilattico Sperimentale dell'Umbria e delle Marche "Togo Rosati")

- 12.30 Lunch and poster session

Chairs: Luigi Catacuzzeno and Giovanna Traina

- Focus on New Technologies for Life Sciences
 - 14.30 **M. Marinelli** "Next-Generation Sequencing in Life Sciences – Explore the technology" (Illumina Italy srl)

- Threats from the environment and life-style
 - 15.10 **C. De Waure** "The burden of unhealthy lifestyles: data, challenges, and perspective" (Dep. Medicina e Chirurgia, Unipg)
 - 15.40 **M. R. Ceccarini** "Genomics and metabolomics of eating disorders (DCA) for diagnostic and therapeutic purposes" (Dep. Scienze Farmaceutiche, Unipg)

- 16.00 coffee break and poster session
 - 16.30 **F. Cimmino** "Endocannabinoids and their congeners in obesity and mitochondrial bioenergetics" (Dep. Biologia, Unina)
 - 17.00 **M. Moretti** "Genotoxicity in drinking water" (Dep. Scienze Farmaceutiche, Unipg)
 - 17.30 **I. Bellezza** "Influence of mycotoxins on gut health" (Dep. Medicina e Chirurgia, Unipg)

- 17.50 Closure of Summer School works