

Day 2 Tuesday, January 24th

11:30 am – 2:00 pm - COST Action MC meeting
Invited: Management Committee (MC) Horizontal Group (HG) and Core group members.

2:00 - 2:45 pm - Lunch break (free time)

2:45 – 3:15 pm: Management Team introducing tips and recommendations

3:15-5:30 Working groups session

WG presentations 3:15-4:00

WG1, WG2 and WG3 presentations and discussion (15' each)-HG connections.

4:00 – 4:30 pm – coffee break

WG presentations 4:30-5:30

WG4, WG5 and WG6 presentations and discussion (15' each) HG connection

5.30 – 6:30 pm Horizontal Groups sessions

- SciComm (HG1)
- Grant awarding (HG2)
- HG3-HG7

6:30 pm COST Action Conclusion

***poster session available on Twitter page during the entire duration of the meeting**

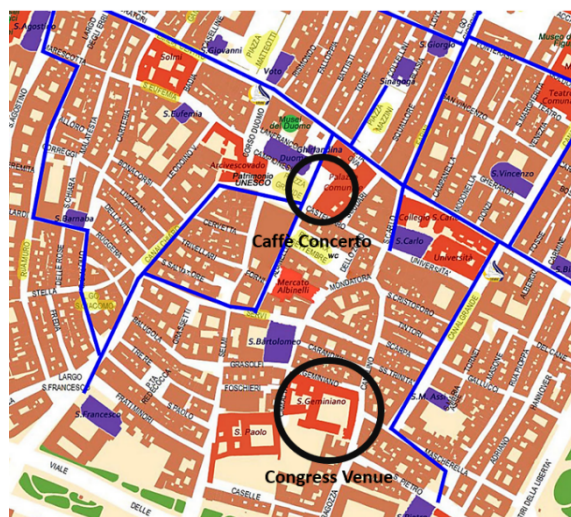
Twitter Profile: @1Healthdrugs_ca

Organizing Committee

Prof. Maria Paola Costi, PhD., University of Modena and Reggio Emilia;
Prof. Federica Pellati, PhD., University of Modena and Reggio Emilia;
Dr. Alberto Venturelli, PhD., University of Modena and Reggio Emilia;
Dr. Daniele Aiello, PhD., University of Modena and Reggio Emilia;
Dr. Virginia Brighenti, PhD., University of Modena and Reggio Emilia;
Lorenzo Tagliazucchi, MSc., University of Modena and Reggio Emilia;
Dana Zappaterra, MSc., University of Modena and Reggio Emilia;
Giulia Malpezzi, MSc., University of Modena and Reggio Emilia;
Federica Piccolo, Management Team UniMoRe

Meeting Venue

Aula Magna of Comparto San Geminiano
Via San Geminiano, 3, 41121 - Modena
Italy
+39 0592058170

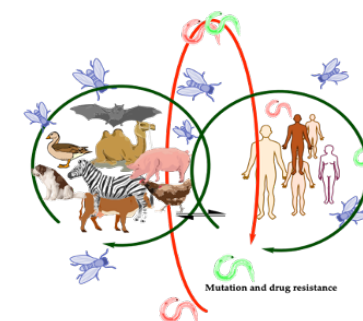


**Medicinal chemistry methods,
materials and environmental impact**

**1st Meeting of the COST Action
CA21111**

**One Health drugs against parasitic
vector borne diseases in Europe and
beyond
'OneHealthdrugs'**

Scientific Program



23rd -24th January 2023
Modena, Italy

Day 2 Tuesday, January 24th

8:30-9:00 am - participants registration and signature

9:00-11:00 am – Invited participants: **OneHealthdrugs** COST network members and external guests

9:00-10:00 am – Oral (10') and flash (5') communications. Topic B & C

Session Chair: Prof. A. Cordeiro-da-Silva & Prof. M.L. Bolognesi

-“*Harnessing Sustainable medicinal chemistry for vector-borne diseases*”. **Bolognesi M.L., University of Bologna, Italy.** (15')

-“*Waste materials from cultivated plants as a sustainable source for the discovery of novel antiparasitic agents*”. **Schmidt T.J., Munster, Institute of Pharmaceutical Biology and Phytochemistry, Germany.** (15')

-“*Antibiotic resistance challenge: global response needed*”. **Keyvan E. University of Burdur, Turkey.** (10')

-“*An Overview of the Antitrypanosomal Profile of Adamantane Scaffolds*”, **Papanastasiou I., National and Kapodistrian University of Athens, Greece.** (10')

-“*Human and Animal Filariases: Landscape, Challenges, and Control*”. **Selzer P.M., Boehringer Ingelheim Animal Health, Germany.** (10')

10:00-10:55 am

Invited lecture., “*Promoting healthy ecosystems through One Health approach in research*” **Prof A. Scagliarini, University of Bologna, Italy**

“*Understanding One Health intervention in vector borne zoonotic diseases in Africa*” **Prof M. Venter, University of Pretoria, South Africa.**

10:55-11:30 am – rich coffee break

Session Chair: Dr. S. Gul & Prof. K. Goździk

4:30-4:50pm Invited lecture. *Delivering high quality antiparasitic agents against trypanosomatid infections.* **Dr. S. Gul, Fraunhofer Institute for Translational Medicine and Pharmacology, Germany.**

4:50-6:50pm– Oral (10') and flash (5') communications. Topic A

-“*Structural biology platforms and strategies to increase turnover of drug discovery projects*”. **Mazzorana M., Diamond Light Source Ltd, UK.** (15')

-“*Structural investigation of key folate enzymes of Trypanosoma parasites for the discovery of novel antiparasitic agents*”. **Pozzi C., University of Siena, Italy.** (15')

-“*Crystal engineering for antiparasitic drug multicomponent crystal: crosscut in drug discovery and drug development*”. **Cvetkovski A., University of Goce Delcev, North Macedonia.** (15')

-“*Imaging infections by vector-borne protozoan parasites applied to drug discovery*”. **Joana Tavares, University of Porto, Portugal.** (15')

-“*Discovery of novel antiparasitic agents against Leishmania infantum infection*”. **Anabela Cordeiro da Silva., University of Porto, Portugal.** (10')

-“*Machine Learning and Protein Structure Prediction in Drug Design against Neglected Diseases and in Toxicology*”. **García-Sosa T.A., University of Tartu, Estonia.** (10')

-“*Bringing Inorganic Layered Nanomaterials to the Frontline Research Against Vector-Borne Diseases and Cancer*”. **Dragoi B., Regional Institute of Oncology Iasi, Romania.** (10')

-“*Toxic effects of oleanolic acid glucuronides (GlcUAOA) extracted from Calendula officinalis flowers on the protozoan parasites; Babesia microti and Toxoplasma gondii*”. **Goździk K., University of Warsaw, Poland.** (10')

-“*4-Amino-1,8-naphthalimide-ferrocene conjugates: Potential antiparasitic vector-borne lead compounds*”. **Magri D.C., University of Malta, Malta.** (10')

-“*One Health approach to drug development: Cashew Nut-Shell Liquid bio-based derivatives for leishmaniasis*”. **Martinengo B., University of Bologna, Italy.** (5' flash)

6:50 – 7:00 pm - Summary and conclusions

7:45 pm - dinner together at Caffè Concerto restaurant

(<https://www.caffeconcertomodena.it/>) Piazza Grande 26, 41121 –

Day 1 Monday, January 23rd

12:00-2:00pm - participants registration and signature

2:00pm - get together and opening;
Introduction by **Prof. Gianluca Marchi**, Pro-Rector Vicario of the University of Modena and Reggio Emilia
Prof. Maria Paola Costi, chair of the COST Action
Prof. Anabela Cordeiro-da-Silva, vice-chair of the COST Action
Prof. Maria Laura Bolognesi, President of the Medicinal Chemistry Division of the Italian Chemical Society.

2:15-6:50pm – Invited participants: **OneHealthdrugs** COST Action members and external guests

Session Chair: Prof. T. Calogeropoulou & Prof S. Gemma

2:15pm - Invited lecture. “*1979-2022: A life of research on protozoan parasites responsible of Neglected Diseases*”.
Prof. F. Gamarro Conde, Instituto de Parasitología y Biomedicina “López Neyra” (IPBLN-CSIC), Granada, Spain, Spain.

2:45-4:00pm- Oral (10') and flash (5') communications. Topic A

-“*Selective targeting of proteasome(s) – an innovative strategy to combat ticks and tick-borne diseases*”. **Sojka D., Czech Academy of Sciences, Czech Republic.** (15')

-“*Fragment-to-Lead Optimization of Novel Anti-Leishmania Trypanothione Reductase Inhibitors*”. **Uliassi E., University of Bologna, Italy.** (10')

-“*A class of valuable (pro-)activity-based protein profiling probes: application to the redox-active antiplasmodial agent, plasmodione*”. **Davioud-Charvet E., University of Strasbourg, France.** (10')

-“*Synthesis and biological evaluation of new antiparasitic phosphomimetics*” **Calogeropoulou T., National Hellenic Research Foundation, Greece.** (10')

-“*Structure-based optimization of 5-nitrothiophene-2- carboxamides as trypanothione reductase inhibitors against Leishmania*”. **Gemma S., University of Siena, Italy.** (10')

-“*Differences in Leishmania amastigotes infectivity and drug susceptibility in canine versus human macrophages*”, **Calvo-Alvarez E., University of Milan, Italy.** (5' flash)

4:00-4:30: coffee break (group picture)