

Newsletter May 2023

Dear All,

I hope this letter meets your expectations about receiving the most recent information on our OneHealthdrug COST Action.

I am sending some information about the ongoing and forthcoming activities of the network. Then you will receive detailed information.

- √ I am pleased to inform you that **STSM applications are proceeding and we are progressively using all the available grant**. These are open to all researchers. The research visiting period can be performed up to the end of August. We have a total of 26659.00 for STSM + 2000 for conference grants and for now we have assigned about 22200 euros. 1 ITC conference grant, 1 Virtual network support (VNS) and 6 STSM applications that will be granted. A few STSM are still available.
- √ Grant awarding is also open for: Dissemination activities (1000 euros) (contact Elisabeth Davioud Charvet elisabeth.davioud@unistra.fr) and mariapaola.costi@unimore.it.
- √ Our first training school **One Health Drug discovery against parasitic vector borne diseases in Europe and beyond. 8-10/05/2023 - 3 days school, Hamburg-Germany, was concluded**. Sheraz Gul has developed the Training School that was very successful. All 12 participants attended the meeting. Please find enclosed the Report by Elton Ragozi about the Training School. The list of participants is also included. Congratulations for the successful outcome Sheraz!



- Our next Training school will be in Siena: “2nd Training School "MedChem and structural biology: tools and strategies for hit and lead optimization in the One Health perspective. 27-29/09/2023 - 3days school. Calls will be opened soon.
- √ Clara Lima has been awarded to attend the following conference: “**Comparative study on a multi-parametric serological approach to feline *Leishmania* infection** “
Conference Details
Conference title: 29th conference of the World Association for the Advancement of Veterinary Parasitology
Conference web-page: <https://waavp2023.com>
Conference venue¹: in-person participation; The Leela Palace, Chennai, India
Conference start and end date: 20/08/2023 to 24/08/2023

¹ For an online conference, specify virtual participation; for hybrid conferences, specify whether it is an in-person or virtual participation.

- √ As Action Chair, I was in Brussels on the 10th of May at a COST Academy event for a training about good practice for running the Action. Therefore a few suggestions learned will be applied also in our OneHealth*drugs* such as. Next event will be on the 1st of June same place COST Academy on “How to coordinate international research networks on 1 June 2023 Agenda and Practicalities”.
- √ Our **website** will be published on Monday 29 of May 2023. Hopefully all the technical aspects are fine. The website is far from being completed and we miss information and pictures duly requested already. We hope and trust your collaboration for implementing it at best. All participants are invited to contribute with items like:
 - Nice/your preferred pictures from your lab work,
 - publications information in which you have acknowledged our OneHealth*drugs* COST Action,
 - scientific news about discoveries with comments
 - other news useful for increasing interests in our Action
 - picture should be 1000x1000 pixel

You can send it to mariapaola.costi@unimore.it for now while we are looking for someone who is interested in keeping the website updated.

If you are interested, please let me know!



SURVEYS

SURVEY 1

You have received the entry SURVEY entitled "WG6 - Survey on research perspectives for drug development targeting vector-borne diseases and environmental impact" by Clara Lima.

This data collection (or survey) was prepared by Clara and some Collaborators. We have not yet achieved the 95% coverage of the network participants that is expected, but we should persist, and this will be an excellent starting point for the network.

This data collection will be an entry ID for all new OneHealthdrugs applicants.

Description.

This questionnaire is being conducted under COST Action 21111 on "One Health drugs for Vector-Borne Diseases", aiming to survey the current trends and status of the research and drug development for the treatment of Vector-Borne Diseases. In addition, we intend to assess the level of awareness about the sustainability and environmental impact of the process of developing drugs for parasitic Vector-Borne Diseases (PVBDs). To answer each question, please select one or more options to reply to each question. The questionnaire is composed of 33 questions and shouldn't take more than 20 min to reply. The answers will be summarized and analyzed. From the results of this survey, we aim to develop training opportunities and guidelines to help researchers and their institutes produce more sustainable and environmentally safe compounds for the treatment of Parasitic Vector-Borne diseases.

This survey has to be filled by each COST participant as an entry document, all those registering to the Action are requested to fill the data collection.

Thank you for your help and time!

SURVEY 2

Survey on compounds database (WG1)

Description

This survey is organized by WG1, Ulrike Witting, (*Compound libraries coordination and integration of compound design*) of COST Action CA21111 "OneHealthdrugs" and collects information from COST Action members about the handling of chemical compound information and the usage of compound databases/repositories. The results will help to coordinate and integrate compound data from different resources for searching and screening purposes by the COST Action participants.

The survey is finished for this first year. The results will be presented at the next WG1 meeting planned by Ulrike Witting and Cecilia Pozzi and are very useful to start the preparation of our planned compound database. Our website will report at its opening the database selected by the network participants, under the following field WORKING AREA-> Database collections, open sources and vendors.

The survey results is enclosed in this e-mail and is deposited in FairdomHub with the following DOI

<https://doi.org/10.15490/fairdomhub.1.document.4187.1>

DISSEMINATION ACTIVITY

Annette Ives has presented Action at the following symposium: Navigating the Nexus of Infectious Diseases, Public Health and Environmental Sustainability within the Context of Climate Change" organized by the University North (Croatia) & The American Society for

Microbiology (US). The title of the talk was: CA21111: One Health drugs against parasitic vector borne diseases in Europe and beyond-Providing life-saving drugs to address high unmet medical needs while safeguarding our environment. Presenter: Annette Ives; Science and Communication horizontal group CA21111. Head of Immunology and Infectious Diseases, AC Bioscience SA. The presentation was successful and we have now new participants from that event.

We will make the Action presentation available in the website. This will be then used for every presentation on the topic by the network participants.

EVENTS Calendar - May

Finally, please stay connected with the events organized in June. Be alerted that for technical reasons the real events hours are different from those of the invitations sent through the COST web platform:

WG2 – workshop 2 entitled “Innovative sustainable approaches in antiparasitic drug discovery: towards a one Health approach”. This is planned for 22/6/2023, h14-17.

This WG2-WS2 workshop, should rise important questions about how to integrate some key sustainable actions in our ongoing research program and how to integrate some key sustainable actions in new research project.

WG2 meeting (internal event for WG participants) Event description 30 May 2023, h 15-17.

The WG2 meeting will introduce the new members with those already enrolled into WG2 and provide overview of the available technologies for medicinal chemistry/parasitology development. It will also organise the next Workshop and the agenda for the collection available technologies for the compounds chemical structure.

Event Output

Networking among participants

Shared information about available technologies

Collection process for compounds chemical structures

Update on the WG2 expected results and deliverable

Publications: ACS Infectious disease Issue associated with the Modena meeting January 2023.

The special issue was accepted by the Editor Prof. Felix Calderon.

The proposed issue is in the context of the OneHealth*drugs* COST Action focused on the topic of the discovery of antiparasitic drugs against vector borne parasitic diseases with low environmental impact. The Issue will include some articles on the medicinal chemistry methods, new drugs and environmental impact of the same other than some aspects of ecotoxicology. Both human and veterinary medicine fall within our interest. With this issue we would like to rise the interest of those experts researching in the field of parasitic infectious disease, who want to integrate their knowledge in closely related fields of high interest by considering the sustainability aspects of their research. We will also include a few manuscripts on the OneHealth concept.

Deadline for submission: 31st December 2023
Title: One Health and Vector Borne Parasitic Diseases
Editorial submission deadline: 31st January 2024
VSI in the web: February 2024
VSI editorial included in the March 2024 ACS ID issue

The issue is open for submission to all network participants. I have a list of 15 article/reviews/other types of papers therefore those who are interested in publishing in this issue can send me the manuscript title. You will receive more instructions as soon as the Issue will be opened.

For those who wants to publish with the COST acknowledgement, please follow the instructions:

Here is the link where you'll find all info related to your question. Check the box according to the type of support.
Publication if article: (c): This article/publication is based upon work from COST Action < insert name of Action or initials, CAxxxx >, supported by COST (European Cooperation in Science and Technology) If a book, all reference should appear. Details: follow this link. <https://www.cost.eu/uploads/2022/11/COST-Action-Visual-Branding-Guidelines-071122.pdf>