

## PROGRAM OF THE ONEHEALTHDRUGS MARATHON

**COST ACTION CA21111. One Health drugs against parasitic vector borne diseases in Europe and beyond.**

Structural biology & medchem 20 Nov - Monday 2pm-6pm			
Chair: Cecilia Pozzi - Ioannis Papanastasious	2:00 PM		
Opening of the event		5 minutes	
MP Costi			
Cecilia Pozzi	structural biology	20	Structural insights in the catalytic mechanism of pteridine reductase from Trypanosoma parasites for the development of antiparasitic agents
Ludovica Marotta	medchem	20	Designing Synthetic Peroxides as Promising Alternatives to Combat Drug Resistance
Maria Alice Carvalho	medchem	20	Pyrimido[5,4-d]pyrimidines: a novel class of antitrypanosomal and antileishmanial agents
Maria Paola Costi	medchem	20	High-throughput phenotypic screening and machine learning methods enabled the selection of broad spectrum low-toxicity anti-trypanosomatidic agents
Ivan Bassanini	medchem	20	A basic celastrol carboxamide derivative acts as a middle-domain, potent and selective allosteric inhibitor of Leishmania braziliensis 90kDa Heat Shock Protein
Chair : Theodora Calogeropoulou - Cecilia Pozzi	4:00 PM		
Ioannis Papanastasious	medchem	20	SQ109 analogues with trypanocidal activity
Sandra Gemma	medchem	20	Investigation of 5-nitrothiophene-2-carboxamides as Inhibitors of Trypanothione Reductase Targeting Leishmania parasites

**COST ACTION CA21111. One Health drugs against parasitic vector borne diseases in Europe and beyond.**

**Marathon Day \_ <https://www.youtube.com/watch?v=OVCziP2HPcl>**

<b>Sara Rossi</b>	<i>medchem</i>	20	Exploration of heterocyclic/oxygenated chalcones as antileishmanial agents and pilot investigation of a greener synthetic approach
<b>Theodora Calogeropoulou</b>	<i>medchem</i>	20	New antiparasitic bioisosteric ether phospholipids: synthesis and biological evaluation

#### Parasitology & nanomedicine 21 Nov Tuesday 9:30-12:30

**Chair: Anabela Cordeiro da Silva - Luis Cardoso**      **9:30 AM**

<b>Luis Cardoso</b>	<i>parasitology</i>	20	Web sources of information on topics related to Veterinary Parasitology
<b>Marlene Lucio</b>	<i>nanomedicine</i>	20	Rational design of nanotherapeutics using bioinspired mimetic models
<b>Narimantas Cenas</b>	<i>nanomedicine</i>	20	Enzymatic redox properties and mammalian cell cytotoxicity of fexinidazole
<b>Javier Santamaria-Aguirre</b>	<i>nanomedicine</i>	20	Nanomedicine synergizes Repositioning: Delamanid solid lipid nanoparticles for accessible leishmaniasis treatments

**Chair: Ana Thomas and Anabela Cordeiro**      **11:00 AM**

<b>Asghar Tabalaghi</b>	<i>prevention</i>	20	Prevention of Leishmaniasis through Personal Protection by Use of Repellent Textile
<b>Joana Tavares</b>	<i>parasitology</i>	20	Pyrimido [5,4-d] pyrimidine-based compounds as novel antimalarial and antileishmanial drugs
<b>Nuno Santarem</b>	<i>parasitology</i>	20	Visceral Leishmaniasis in Human Immunodeficiency Virus-Coinfected Patients
<b>Margarida Duarte</b>	<i>parasitology</i>	20	The essential role of mitochondrial type II NADH dehydrogenase in Leishmania

#### Young Researcher and Investigators (YRI) 22-Nov 2-6 pm

**Chair: Elisa Uliassi and Gulsah Bayraktar**      **2:00 PM**

<b>Rohini Roopnarine</b>	<i>One Health educational</i>	20	Implementing one health (oh) competencies within the veterinary & medical curricula
--------------------------	-------------------------------	----	---

**COST ACTION CA21111. One Health drugs against parasitic vector borne diseases in Europe and beyond.**

**Marathon Day \_ <https://www.youtube.com/watch?v=OVCziP2HPcl>**

<b>Bianca Martinengo</b>	<i>med chem</i>	20	Sustainable biocatalytic derivatization of antiparasitic natural lipids and cashew nut-shell liquid (CNSL) derivatives using unspecific peroxygenase (UPOs) enzymes
<b>Clara Lima</b>	<i>parasitology</i>	20	Comparative study on a multi-parametric serological approach to feline Leishmania infection
<b>Darline Dize</b>	<i>pharmacology</i>	20	Novel antitrypanosomal diaminoquinazoline analogues from repurposing the Medicines for Malaria Venture Open Access Pathogen Box library (MMVPBox)
<b>Ebrahim Abbasi</b>	<i>parasitology</i>	20	A perspective on human leishmaniasis and novel therapeutic methods for diagnosis, prevention, and treatment
<b>Gülşah Bayraktar</b>	<i>med chem</i>	20	Design, Synthesis and Biological Evaluation of Antileishmanial Azaheterocyclic Compounds as Inhibitors of the Parasitic Exokinase CK1 (casein kinase 1)
<b>Kayhan Ilbeigi</b>	<i>parasitology ecotox</i>	20	Evaluation of antiparasitic and (eco)toxicological characteristics of advanced nucleoside-based leads against animal trypanosomiasis
<b>Chair: Elisa Uliassi and Kayhan Ilbeigi</b> <b>4:00 PM</b>			
<b>Lorenzo Tagliazucchi</b>	<i>omics - ecotox</i>	20	Insights into host-target interaction from the proteome modulation analysis through untargeted LC-MS/MS Proteomics of drug resistant L infantum-THP1 infected cells
<b>Marko Jukic</b>	<i>drug design</i>	20	Strategic Evolution of SiDOCK@HOME: From COVID-19 Drug Design to a Broad-Spectrum Drug Search
<b>Thais Santos</b>	<i>parasitology</i>	20	Liposomes containing amphotericin B: innovative formulation for cutaneous leishmaniasis treatment
<b>Valeria Francesconi</b>	<i>medchem</i>	20	Guanidino-Containing Derivatives as Promising Agents for Targeting the Folate Enzyme Pathways in Human African Trypanosomiasis
<b>Vittoria Monaco</b>	<i>omics technology</i>	20	Activity-based Protein Profiling to investigate the interactome of the antimalarial early lead Plasmodione
<b>Giulia Malpezzi</b>	<i>omics - biol</i>	20	Preclinical investigation of H80 mechanism of action vs Miltefosine from imaging and MS proteomics for a sustainable lead development and clinical translation

**COST ACTION CA21111. One Health drugs against parasitic vector borne diseases in Europe and beyond.**

**Marathon Day \_ <https://www.youtube.com/watch?v=OVCziP2HPcl>**

## 23 Nov Ecotox & One Health. PRICE for YRI

Chair: Clara Lima & Elisa Uliassi 9:30 PM

Jérôme Estaquier	<i>pharmacology</i>	20	Single cell transcriptomics reveals altered myeloid cell profile despite the administration of an early miltefosine cure in Leishmania infantum-infected rhesus macaques.
Davioud-Charvet Elisabeth	<i>medchem</i>	20	Synthesis of chemical probes based on the early lead redox-active antiplasmodial agent, plasmodione, for metabolic and imaging studies
Dijana Blazhekovikj - Dimovska	<i>fish-ecotox</i>	20	Fish-borne zoonotic diseases with special emphasis on parasites and risks for public health
Rolf-Alexander Duering	<i>ecotox</i>	20	To be defined
Clara Lima	<i>One Health</i>	20	Changing paradigm to confront zoonotic Leishmaniasis: One Health perspective from Portugal

YRI Price awarding 15 minutes

MPCosti – Closure 10

**COST ACTION CA21111. One Health drugs against parasitic vector borne diseases in Europe and beyond.**

**Marathon Day \_ <https://www.youtube.com/watch?v=OVCziP2HPcl>**