







One Health drugs against parasitic vector borne diseases in Europe and beyond Strategies for breaking the chain between the parasite reservoir in animals and infections in humans. 4-6 June 2025

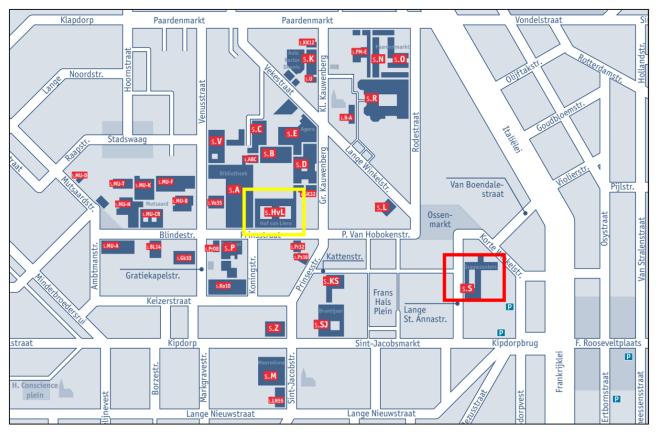
#### **OneHealth***drugs*

The OneHealthdrugs COST Action network brings together experts to advance the discovery of innovative drugs and therapeutic targets aimed at combating vectorborne infections in both human and veterinary medicine. By adhering to the principles of an optimal drug profile, our approach enhances treatment effectiveness while minimizing environmental impact.

## **Meeting Venue**

University of Antwerpen – Grauwzusters, Lange Sint-Annastraat 7, Antwerp, Belgium

#### **City campus**



For Conference: s.S - Grauwzusters - Lange Sint-Annastraat 7 For Dinner: s.HvL - Hof van Liere - Prinsstraat 13

### **Organizing committee**

#### Scientific committee

Prof. Jose Maria Alunda Prof. Mirco Bundschuh Prof. Guy Caljon Prof. Anabela Cordeiro Silva Prof. Elisabeth Davioud-Charvet Prof. Louis Maes Prof. Maria Paola Costi Prof. Joana Tavares Prof. Elisa Uliassi

#### Local supporting team

Yentl Jacobs Cassandra Present Lauren Van den Broeck Sin-Ting Wong Ting Yu

## **Meeting Program**

	day, June 4, 2025		
11:30	Registration		
12:30	Welcome address (Guy Caljon and Maria Paola Costi)		
Session	1: Industry stakeholde	rs – interface academia/industry (Translation)	
Chair: Loui	is Maes		
12:45	Thomas Geurden	Keynote lecture 1: How is the Animal Health industry driving innovation?	Page: 1
13:20	Serge Van Calenbergh	Purine nucleoside analogues against protozoan pathogens in humans and livestock: from bench to barn	Page: 2
13:40	Paul M. Selzer	Antiparasitic Research: An Animal Health Perspective	Page: 3
14:00	Guy Caljon	Strategic roadmap towards high-quality leads and drug development candidates: in vitro and in vivo laboratory approaches for kinetoplastid diseases	Page: 4
14:20	Anabel Olías Molero	Regulatory Framework for Veterinary Medicines in the European Union	Page: 5
14:40 C	Coffee break		
Session	2: Roadmap and assay	s for target and off-target effects (Pharmacology)	
Chair: Sarc	ah Hendrickx		
15:10	Sheraz Gul	In vitro and in silico methods to assess ADME-Tox and ecotoxicological profiles of compounds in drug discovery	Page: 6
15:30	José María Alunda	Academic research ecosystem: does it fit the antiparasitic drug discovery process?	Page: 7
15:50	Maria Alice Carvalho	New fused-pyrimidine derivatives as promising broad-spectrum antiparasitic agents	Page: 8
16:10	De Koning Harry	A new class of minor groove binders active against animal trypanosomiasis in vivo	Page: 9
16:30	Ioannis P. Papanastasiou	Synthesis and Evaluation of Nitroheterocyclic Aromatic Adamantanohydrazones with Trypanocidal Activity	Page: 10
16:40	Črtomir Podlipnik	OCART: A Simple Chemoinformatics Toolkit in Orange3 for Drug Discovery in Vector-Borne Diseases	Page: 11
16:50	Margarida Duarte	Metabolic Rewiring in Leishmania Lacking PRX1/2 Reveals Hidden Vulnerabilities for Drug Targeting	Page: 12
17:00 P	Poster session	·	
10.00 0	ocial event 1 – local dri	ink tasting	

Thursday	Thursday, June 5, 2025					
Session 3: Unintended side effects of pharmaceuticals on the ecosystem level (Environment)						
Chair: Kayl	nan Ilbeigi					
9:00	Tomas Brodin	<b>Keynote lecture 2:</b> The potential trade-off between human health and ecosystem health – ecological effects of pharmaceutical contamination				
9:30	Mirco Bundschuh	Pharmaceuticals and their potential for ecological surprises				
9:50	Johannes Charlier	Piloting sustainable worm control approaches in grazing livestock to minimize the environmental impact of anthelmintics in livestock				
10:10	Maarten Vanhove	Monogenean flatworms: petite parasites, mighty models, innovative indicators?				
10:30 C	offee break + poster vie	ewing				
Session 4 Chair: Elisa		rgets: identification and structural characterization				
10:50	Cecilia Pozzi	CA21111 OHD1 - Target database project: the BioTarget DataBase (BioT-DB)				
11:10	Joana Tavares	Contributions to drug discovery against Leishmania infantum: from target-base strategies to insights into the biology of the infection				
11:30	Benoit Stijlemans	Q586B2 is a crucial virulence factor during the early stages of Trypanosoma brucei infection that is conserved amongst trypanosomatids				
11:50	Alvaro Baeza Garcia	Targeting host and Plasmodium immunomodulators for new malaria therapeutics				
12:10 lu	inch					
<u>13:30 CC</u>	ST general assembly n	neeting				
<u>13:30 Br</u>	eakout workshop: You	ng innovators and career				
13:30	Elsa Abranches	My Career Tale: one step at a time				
14:00- 17:00	Corinne Herrijgers; Marjolijn De Clercq	Coaching session				
15:30 C	offee break + poster vie	ewing				
Chair: Bend	oît Stijlemans					
16:00	Daniel Sojka	Proteases driving the apical complex of Babesia during egress and invasion of host red blood cells				
16:20	Malgorzata Domagalska	Multi-drug tolerance in Leishmania persister-like cells				
16:40	Ana M Tomás	Metal Transporters in Leishmania: Exploring Their Potential as Drug Targets				
16:50	Jovana Ajdukovic	Heterocyclic steroid derivatives with antitrypanosomal activity and in silico binding affinity to glucose-6-phosphate dehydrogenase				
17:30: So	ocial event 2 – Chocolat	e museum				
19:30: Co	ongress dinner: Hof var	Liere University Club				
Friday Ju	ine 6, 2025					
	Session 5: Promising synthetic and natural compounds for sustainable control Chair: Ioannis P. Papanastasiou					
9:00	Elisa Uliassi	Building Bridges Between Medicinal Chemistry and Sustainability: Parasitic Diseases in the One Health Context				
9:20	Maria Paola Costi	High-Throughput Screening Selection and Deselection Process for the Identification of High-Affinity PTR1 Inhibitors				

09:40	Elisabeth Davioud- Charvet	Preparation of a library of polysubstituted 3-benzylmenadiones and design of plasmodione prodrugs			
10:00	Orazio Taglialatela- Scafati	The potential of natural products against vector-borne diseases			
	Marco Persico	Computer-aided design of new nature-inspired antimalarials			
10:30 Coj	10:30 Coffee break				
Chair: Margarida Duarte					
11:00	Roland Hellinger	Discovery, characterization and application of nature-derived cystine-knot peptides with antimicrobial activity			
11:20	Theodora Calogeropoulou	Sustainable development of novel antiparasitic agents valorising by-products of the cashew industry			
11:40	Godwin U. Ebiloma	Development of a novel Trypanosome Alternative Oxidase inhibitor with a broad- spectrum activity against the causative agents of animal Trypanosomiasis			
11:50 Concluding remarks (Guy Caljon and Maria Paola Costi)					
12:00 Adjourn – city walk					

## **Poster Presentations**

Hafidh Akkari	Bioassay guided isolation and identification of Amoebicidal and leishmanicidal compounds from Tunisian natural sources
Gülşah Bayraktar	Studies on Thiazolopyrimidine Derivatives within One Health Perspective
Dijana Blazhekovikj	Fish-borne parasitic zoonoses: One Health perspectives
Aleksandar Cvetkovski	Role of crystal engineering in repurposing drugs for therapy of antiparasitic vector-born disease: structure-property relationship
Roncareggi Davide	On the road to unravel the interactome of Leishmania molecular heat shock protein 90
Dilek Ömer Gürkan	Bridging Veterinary and Human Health: Drug Targets for Zoonotic Parasite Reservoirs
Jasmina Đorđević	TIME-CHANGE LÈVY PROCESS IIN MODELLING OF EPIDEMICS
Lori Doko	Pharmacological Advances in Vector-Borne Parasitic Diseases: Assays, Targets, and Environmental Impact
Abazaj Erjona	Risk factors, mode of transmission and potential for acute toxoplasmosis serological diagnosis: A case series of this infection occurring during pregnancy
David C. Magri	Cinchona Alkaloid Polymeric Fluorescent Logic Gates
Miguel Marín Folgado	Assessment of dyes and new strategies in the design of anthelmintic drugs
Sébastien Pomel	PEGylated liposomes encapsulating amphotericin B: an innovative formulation for the treatment of cutaneous leishmaniasis
Ricardo Monteiro	Evaluation of Novel 4-Thiazolidinone Bioisosteres of Alkylphosphocholines as anti- Trypanosomal agents
Essia Sebai	Chemical analysis and and in vitro acaricidal activity of Mentha pulegium and Thymus capitatus essential oils against Hyalomma dromedarii
Asghar Talbalaghi	Leishmaniasis and Vector Control An Emerging Threat and New Prevention Strategies
Theo Zacharis	Stakeholder Engagement for Sustainable Drug Development under the OneHealthDrugs Action





## **Miltenyi Biotec**

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