

## OHD conference Antwerp

**Wednesday, June 4, 2025**

11:30: Registration

12:30: Welcome address (Guy Caljon and Maria Paola Costi)

### **Session 1: Industry stakeholders – interface academia/industry (Translation)**

*Chair: ...*

12:45: Keynote lecture (**Thomas Geurden**; Zoetis, Belgium)

How is the Animal Health industry driving innovation?

13:20: Invited lecture (**Serge Van Calenbergh**; UGent, Belgium)

Purine nucleoside analogues against protozoan pathogens in humans and livestock: from bench to barn.

13:40: Selected abstract (**Paul M. Selzer**; Boehringer Ingelheim, Germany)

Antiparasitic Research: An Animal Health Perspective

14:00: Invited lecture (**Guy Caljon**, UAntwerp, Belgium)

Strategic roadmap towards high-quality leads and drug development candidates: in vitro and in vivo laboratory approaches for kinetoplastid diseases

14:20: Invited lecture (**Anabel Olías Molero**; AEMPS, Spain)

Regulatory Framework for Veterinary Medicines in the European Union

*14:40: Coffee break*

### **Session 2: Roadmap and assays for target and off-target effects (Pharmacology)**

*Chair: ...*

15:10: Invited lecture (**Sheraz Gul**, Fraunhofer Institute, Germany)

In vitro and in silico methods to assess ADME-Tox and ecotoxicological profiles of compounds in drug discovery

15:30: Selected abstract (**José María Alunda**; University Complutense Madrid, Spain)

Academic research ecosystem: does it fit the antiparasitic drug discovery process?

15:50: Selected abstract (**Maria Alice Carvalho**; Universidade do Minho, Portugal)

New fused-pyrimidine derivatives as promising broad-spectrum antiparasitic agents

16:10: Selected abstract (**De Koning Harry**; University of Glasgow, United Kingdom)

A new class of minor groove binders active against animal trypanosomiasis in vivo

16:30: Turbo talk 1 (**Ioannis P. Papanastasiou**; National and Kapodistrian University of Athens, Greece)

Synthesis and Evaluation of Nitroheterocyclic Aromatic Adamantanohydrazones with Trypanocidal Activity

16:40: Turbo talk 2 (**Črtomir Podlipnik**; University of Ljubljana, Slovenia)

OCART: A Simple Chemoinformatics Toolkit in Orange3 for Drug Discovery in Vector-Borne Diseases

16:50: Turbo talk 3 (**Margarida Duarte**; i3S, Portugal)

Metabolic Rewiring in Leishmania Lacking PRX1/2 Reveals Hidden Vulnerabilities for Drug Targeting

*17:00: Poster session*

*18:00: Social event 1 – local drink tasting*

**Thursday, June 5, 2025**

**Session 3: Unintended side effects of pharmaceuticals on the ecosystem level (Environment)**

*Chair: ...*

9:00 Keynote lecture (**Tomas Brodin**; SLU Umea, Sweden)

The potential trade-off between human health and ecosystem health – ecological effects of pharmaceutical contamination

9:30 Invited lecture (**Mirco Bundschuh**; RPTU, Germany)

Pharmaceuticals and their potential for ecological surprises

9:50 Invited lecture (**Maarten Vanhove**; U Hasselt, Belgium)

Monogenean flatworms: petite parasites, mighty models, innovative indicators?

*10:10 Coffee break + poster viewing*

**Session 4: Parasite and host targets: identification and structural characterization**

*Chair: ...*

10:30 Invited lecture (**Cecilia Pozzi**; University of Siena, Italy)

CA21111 OHD1 - Target database project: the BioTarget DataBase (BioT-DB)

10:50 Invited lecture (**Joana Tavares**; i3S, Portugal)

Contributions to drug discovery against *Leishmania infantum*: from target-based strategies to insights into the biology of the infection

11:10 Invited lecture (**Yann Sterckx**; UA, Belgium)

Harnessing the unique features of camelid single-domain antibodies to tackle protozoan parasites

11:30 Invited lecture (**Benoit Stijlemans**; VUB, Belgium)

Q586B2 is a crucial virulence factor during the early stages of *Trypanosoma brucei* infection that is conserved amongst trypanosomatids

11:50 Invited lecture (**Alvaro Baeza Garcia**; UA, Belgium)

Targeting host and Plasmodium immunomodulators for new malaria therapeutics

*12:10 lunch*

**13:30 COST general assembly meeting**

**Breakout workshop: Young innovators and career development**

13:30 Invited lecture (**Elsa Abranches**; ViSync Technologies SA, Portugal)

My Career Tale: one step at a time

14:00-17:00 **Corinne Herrijgers** and **Marjolijn De Clercq** (Talent team, University of Antwerp, Belgium)

Coaching session

*15:30 Coffee break + poster viewing*

16:00: Selected abstract (**Daniel Sojka**; Czech Academy of Sciences, Czech Republic)

Proteases driving the apical complex of *Babesia* during egress and invasion of host red blood cells

16:20: Selected abstract (**Malgorzata Domagalska**; Institute of Tropical Medicine, Belgium)

Multi-drug tolerance in *Leishmania* persister-like cells

16:40: Turbo talk 1 (**Ana M Tomás**; i3S, Portugal)

Metal Transporters in *Leishmania*: Exploring Their Potential as Drug Targets

16:50: Turbo talk 2 (**Jovana Ajdukovic**; University of Novi Sad, Serbia)

Heterocyclic steroid derivatives with antitrypanosomal activity and in silico binding affinity to glucose-6-phosphate dehydrogenase

*17:30: Social event 2 – Chocolate museum*

*19:30: Congress dinner: Hof van Liere University Club*

**Friday June 6, 2025**

**Session 5: Promising synthetic and natural compounds for sustainable control**

*Chair: ...*

- 9:00 Invited lecture (**Johannes Charlier**; Kreavet, Belgium)  
Piloting sustainable worm control approaches in grazing livestock to minimize the environmental impact of anthelmintics in livestock
- 9:20 Invited lecture (**Elisa Uliassi**; University of Bologna, Italy)  
Building Bridges Between Medicinal Chemistry and Sustainability: Parasitic Diseases in the One Health Context
- 9:40 Invited lecture (**Maria Paola Costi**; University of Modena, Italy)  
High-Throughput Screening Selection and Deselection Process for the Identification of High-Affinity PTR1 Inhibitors
- 10:00 Invited lecture (**Elisabeth Davioud-Charvet**; CNRS Strasbourg, France)  
Preparation of a library of polysubstituted 3-benzylmenadiones and design of plasmodione prodrugs

*10:20 Coffee break*

- 10:50: Invited joint lecture  
**Orazio Taglialatela-Scafati**; University of Naples, Italy  
The potential of natural products against vector-borne diseases  
**Marco Persico**; University of Naples, Italy  
Computer-aided design of new nature-inspired antimalarials
- 11:20: Selected abstract (**Roland Hellinger**; Medical University of Vienna, Austria)  
Discovery, characterization and application of nature-derived cystine-knot peptides with antimicrobial activity
- 11:40: Turbo talk 1 (**Theodora Calogeropoulou**; National Hellenic Research Foundation, Greece)  
Sustainable development of novel antiparasitic agents valorising by-products of the cashew industry
- 11:50: Turbo talk 2 (**Godwin U. Ebiloma**; University of Salford, United Kingdom)  
Development of a novel Trypanosome Alternative Oxidase inhibitor with a broad-spectrum activity against the causative agents of animal Trypanosomiasis.

*12:00 Adjourn – city walk*