

## CAN WE COMBAT ANTHELMINTIC RESISTANCE IN RUMINANTS?

#Onlytogetherwecan

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### CA COST ACTION CA16230 - COMBAR

Start of Action 19/09/2017  
 End of Action 18/09/2021

### MANAGEMENT STRUCTURE

MC Chair Johannes CHARLIER (BE)  
 MC Vice Chair Smaragda SOTIRAKI (EL)

Helminth parasitic pathogens cause severe disease and are amongst the most important production-limiting diseases of grazing ruminants. Frequent anthelmintic use to control these infections has resulted in the selection of drug resistant helminth populations. Anthelmintic resistance (AR) is today found in numerous major helminth species across Europe and globally.

### COMBAR (COMBatting Anthelmintic Resistance in Ruminants)

is a recently launched COST Action which aims to advance research on the prevention on solutions for AR in helminth parasites of ruminants and disseminate current knowledge among all relevant stakeholders.

THE NETWORK HAS BEEN ORGANISED AROUND 3 WORKING GROUPS (WG)



**WG 1 LEADERS**  
 Laura RINALDI  
 Georg VON SAMSON-HIMMELSTJERNA

#### IMPROVING DIAGNOSIS

which aims to prioritise, evaluate and implement cost-effective methods for the diagnosis of helminth infections and AR;

To deliver:

List of harmonised, validated and newly introduced diagnostic tests across European laboratories, and Technology Readiness Levels of new but not yet commercially available tests.

European market analysis for at least 1 novel diagnostic test.

Updated maps of occurrence of AR in ruminants in Europe.



**WG 2 LEADERS**  
 Edwin CLAEREBOUT  
 Fiona KENYON

#### UNDERSTANDING THE SOCIO-ECONOMIC ASPECTS

which aims to develop, disseminate and apply methods to study the economics and human behaviour in the field of helminth control in ruminants

To deliver:

Workshop on the economics of animal health and helminth control.

Workshop on socio-psychological research methods relevant to animal health.

White paper on the current barriers and motivations for the adoption of sustainable helminth control strategies and methods to overcome them.



**WG 3 LEADERS**  
 Eric MORGAN  
 Herve HOSTE

#### INNOVATIVE, SUSTAINABLE CONTROL METHODS

which aims to develop practical and sustainable helminth control strategies that integrate current insights from diagnostics, Targeted (Selective) Treatment approaches, epidemiology, anti-parasitic forages, vaccinology, farm economics and human behaviour.

To deliver:

Database of evidence-driven alternative control approaches.

Scientific papers on the conceptual, in silico and/or in vivo evaluation of integrated control strategies.

Road map for further research and development of Decision Support System.

Report of "best practice" guidelines for sustainable helminth control for knowledge institutions, animal health workers and professional organisations.

**COST PARTICIPANTS:** MC MEMBER: Dr Bojan ADZIC, Prof Hassan AZAIZEH, Dr Petra BANDELJ, Dr Walter BASSO, Dr Relja BECK, Dr Mirjana BOJANIC-RASOVIC, Dr Tommy BOLAND, Prof Edwin CLAEREBOUT, Prof Aleksandar CVETKOVIC, Prof Theo DE WAAL, Prof Heidi L. ENEMARK, Dr Tina Vicky Alstrup HANSEN, Dr Lisbeth HEKTOEN, Dr Guy HENDRICKX, Dr Hubertus HERTZBERG, Dr Barbara HINNEY, Prof Johan HOGLUND, Dr Herve HOSTE, Dr Jozica JEZEK, Prof Jaroslav KABA, Dr Belma KALAMUJIC STROIL, Dr Martin KASNY, Dr Fiona KENYON, Ms Malgorzata KESIK-BRODACKA, Dr Alzbeta KONIGOVA, Prof Antun KOSTELIC, Dr Alex MARKOVICS, Dr Francisco Javier MARTINEZ MORENO, Dr Maria MARTINEZ-VALLADARES, Prof Teresa MATEUS, Dr Eric MORGAN, Mr Vincenzo MUSELLA, Dr Saulius PETKEVICIUS, Dr Harm PLOEGER, Dr Ivan PUSIC, Dr Nadine RAVINET, Prof Laura RINALDI, Prof Juha-Pekka SALMINEN, Dr Stanislav SIMIN, Dr Violeta-Elena SIMION, Dr Smaragda SOTIRAKI, Prof Marina SPINU, Dr Alexandros STEFANAKIS, Prof Jovana STEFANOVSKA, Dr Jaroslav VADLEJCH, Dr Marian VARADY, Prof Georg VON SAMSON-HIMMELSTJERNA, Dr Helga WAAP, Dr Andrew WILLIAMS

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