



# **2nd WG meeting – ENVIRANT, CA23154**

## **Teagasc Food Research Centre**

**Ashtown, Dublin (Ireland)**

February 12-13, 2026



**2nd WG meeting, ENVIRANT (CA23154)**  
**Teagasc Food Research Centre, Ashtown, Dublin**  
**Ireland**  
**February 12-13, 2026**

**Thursday, 12<sup>th</sup> February 2026**

Time	Activity/Theme	Speakers/Chair
08:30 - 09:15	<i>Registration</i>	
09:15- 9:30	Welcome and housekeeping	<b>Martin Danaher/Orla Keane</b>
09:30 - 10:00	Action progress overview	<b>María Martínez-Valladares</b>
10:00 - 10:30	Invited presentation	<b>Damià Barceló.</b> Climate Change, Water Scarcity and Pharmaceuticals. Global Vision and Local Solutions in the Mediterranean region: The Need for Advanced Water Treatment and Management
10:30 - 11:00	<b>Coffee Break</b>	
11:00- 11:30	WG1 -intro WG2 -intro	<b>Laura Rinaldi, Martin Danaher, Dimitrios Karpouzas, Stefan Geisen</b>
11:30 - 13:00	WG1 and WG2 Oral presentations	<ul style="list-style-type: none"> <li>• Adam Novobilský. Kinetics of Macrocyclic Lactone Residues in Sheep Feces: Implications for Environmental Exposure</li> <li>• Julie Petermann. Comparison of eprinomectine concentration in blood or feaces of sheep during repeated intramusculare injections</li> <li>• Vincenzo Mignano. 3DEEM fluorescence spectroscopy for studying biodegradability of Eprinomectin in water</li> <li>• Paul van den Brink. The use of semi-field experiments to assess the environmental impact of anthelmintic residues</li> <li>• Grazia Policastro. Environmental Impact Assessment of Anthelmintic Compound Use: A Life Cycle Assessment</li> </ul>
13:00 - 14:00	<b>Lunch Break</b>	

14:00 - 15:00	WG1/WG2 Discussion	
15:00 - 15:30	Coffee Break	
15:30-16:00	WG3- intro WG4 -intro	<b>Johannes Charlier, Mahmut Sinan Erez, Orla Keane, Edwin Claerebout</b>
16:00-17:30	WG3 and WG4. oral presentations Part1	<ul style="list-style-type: none"> <li>• Dominika Battányi. Herbal and selenium supplementation improves immunity and parasite control in lambs</li> <li>• Daniel Petrič. The effectiveness of chicory on the rumen environment in lambs with endoparasites</li> <li>• Adam Hayward. Grazing management strategies for animal health, productivity and parasite control</li> <li>• Matej Leško. Zinc oxide nanoparticles mitigate methane emissions and affect endoparasite infection in lambs</li> <li>• Hassan Azaizeh. Seasonal variation in the effects of Mediterranean polyphenol extracts on the exsheathment kinetics of goat gastro-intestinal nematode larvae</li> <li>• Miguel Peña Espinoza. Modelling factors influencing the cumulative effects of bioactive feeding on <i>Ostertagia ostertagi</i></li> </ul>

## Friday, 13<sup>th</sup> February 2026

Time Period	Activity/Theme	Speakers/Chair
09:00-09:30	Invited presentation	<b>Mercedes Vázquez.</b> Next-Generation Water Monitoring: Smartphone-Based Sensors for Emerging Contaminants
09:30 -11:00	WG3/WG4 oral presentations Part2	<ul style="list-style-type: none"> <li>• Angeliki Liakata. In vivo evaluation of tannin-rich Mediterranean agro-industrial by-products against gastrointestinal nematodes in sheep</li> <li>• Antonio Bosco. Alternative control of <i>Trichostrongylus colubriformis</i> and <i>Haemonchus contortus</i> in sheep using pomegranate and hazelnut by-products: an in vitro study</li> <li>• Nurinisa Esenbuga. The Gap Between Knowledge, Perception and Practice: Farmers' Perspectives on Sustainable Helminth Control</li> <li>• Marta Ruiz Somacarrera. Perception of the economic viability of sustainable methods for the control of helminth infections among spanish cattle farmers</li> <li>• Anastasios Ligdas. Gastrointestinal nematode control practices in Greek small ruminant farms: a questionnaire survey</li> <li>• Barbara Hinney. Worm control in cattle: veterinary recommendations and farmer practices in Tyrol, Austria</li> </ul>
11:00 - 11:30	<b>Coffee Break</b>	
11:30 - 12:30	WG3/WG4 Discussion	
12:30 -13:30	WG5-intro and discussion	<b>Eric Morgan, Vasilis Skampardonis</b>
13:30 - 14:30	<b>Lunch Break</b>	
14:30 - 15:00	WG6	<b>Marcin Mickiewicz, Adrian-Valentin Potarniche</b>
15:00-15:30	Grant Awarding Coordinator	<b>Elora Valderas García, Panagiota Ligda</b>
15:30- 16:00	<b>Coffee Break</b>	
16:00-17:00	General Discussion and way forward	<b>María Martínez-Valladares, Smaro Sotiraki</b>



2<sup>nd</sup> ENVIRANT Working Groups meeting, 12-13<sup>th</sup> February, Dublin, Ireland

## COMMUNICATIONS

---

### Guest Speakers – Oral Communications

Presenter	Communication
Damià Barceló	Climate Change, Water Scarcity and Pharmaceuticals. Global Vision and Local Solutions in the Mediterranean region: The Need for Advanced Water Treatment and Management
Mercedes Vázquez	Next-Generation Water Monitoring: Smartphone-Based Sensors for Emerging Contaminants



2<sup>nd</sup> ENVIRANT Working Groups meeting, 12-13<sup>th</sup> February, Dublin, Ireland

## COMMUNICATIONS

### Oral Communications

Working Group	Presenter	Communication
1	Adam Novobilský	Kinetics of Macrocyclic Lactone Residues in Sheep Feces: Implications for Environmental Exposure
1	Julie Petermann	Comparison of eprinomectine concentration in blood or faeces of sheep during repeated intramuscular injections
1	Vincenzo Mignano	3DEEM fluorescence spectroscopy for studying biodegradability of Eprinomectin in water
2	Paul van den Brink	The use of semi-field experiments to assess the environmental impact of anthelmintic residues
2	Grazia Policastro	Environmental Impact Assessment of Anthelmintic Compound Use: A Life Cycle Assessment
3	Dominika Battányi	Herbal and selenium supplementation improves immunity and parasite control in lambs
3	Daniel Petrič	The effectiveness of chicory on the rumen environment in lambs with endoparasites
3	Adam Hayward	Grazing management strategies for animal health, productivity and parasite control
3	Matej Leško	Zinc oxide nanoparticles mitigate methane emissions and affect endoparasite infection in lambs
3	Hafidh Akkari	Evaluation of the anthelmintic activity of <i>Acacia cyanophylla</i> Lindl against gastrointestinal nematodes of sheep: in vivo study
3	Hassan Azaizeh	Seasonal variation in the effects of Mediterranean polyphenol extracts on the exsheathment kinetics of goat gastro-intestinal nematode larvae
3	Miguel Peña Espinoza	Modelling factors influencing the cumulative effects of bioactive feeding on <i>Ostertagia ostertagi</i>
3	Angeliki Liakata	In vivo evaluation of tannin-rich Mediterranean agro-industrial by-products against gastrointestinal nematodes in sheep
3	Antonio Bosco	Alternative control of <i>Trichostrongylus colubriformis</i> and <i>Haemonchus contortus</i> in sheep using pomegranate and hazelnut by-products: an in vitro study
4	Nurinisa Esenbuga	The Gap Between Knowledge, Perception and Practice: Farmers' Perspectives on Sustainable Helminth Control



4	Marta Ruiz Somacarrera	Perception of the economic viability of sustainable methods for the control of helminth infections among spanish cattle farmers
4	Anastasios Ligdas	Gastrointestinal nematode control practices in Greek small ruminant farms: a questionnaire survey
4	Barbara Hinney	Worm control in cattle: veterinary recommendations and farmer practices in Tyrol, Austria



2<sup>nd</sup> ENVIRANT Working Groups meeting, 12-13<sup>th</sup> February, Dublin, Ireland

## COMMUNICATIONS

### Poster Communications

Working Group	Presenter	Communication
1	Vera Virtudes	Analysis of Closantel, Ivermectin, Fenbendazole, and Rafoxanide in the manure and urine following treatment of cattle
2	Omer Cevdet Bilgin	Ecological Impacts of Anthelmintic Residues in Pasture-Based Livestock Systems: A Meta-Analysis
2	Serdal Dikmen	Heat Stress, Climate Extremes, and Their Influence on Anthelmintic Excretion and Environmental Persistence in Grazing Ruminants
2	Šárka Petrová	The pathway of anthelmintics through manure, soil and plants
3	Filip Štrbac	Evaluation of the Anthelmintic Potential of <i>Mentha x piperita</i> L., <i>Thymus vulgaris</i> L., <i>Origanum vulgare</i> L. and <i>Artemisia absinthium</i> L. Dry Hydroethanolic Extracts against Gastrointestinal Nematodes in Sheep
3	Karlién Supré	Quantification and benchmarking the use of anthelmintics on pilot farms and beyond
3	Jorge Francisco González	Preventive treatment in non-parasitised animals. Importance of diagnosis prior to chemoprophylaxis
3	Ulrike Peschel	On-farm project on sustainable parasite control
3	Essia Sebai	Exploring <i>Myrtus communis</i> as a Plant-Based Anthelmintic for <i>Haemonchus contortus</i> and <i>Heligmosomoides polygyrus</i>
3	Johan Höglund	A Targeted Treatment Approach for Controlling <i>Ascaridia galli</i> in Laying Hens
3	Tomas Kupčinskas	From Routine Deworming to Targeted Selective Treatment: Evidence for Sustainable Helminth Control in Lithuanian Sheep Farms
3	Zsófia Kelemen	Integrated Parasitological and Environmental Monitoring at Szépalma: A Hub Model for Sustainable Animal Health Management
3	Hannes J. C. Bijkerk	Anthelmintic stewardship: an essential step towards sustainable dairy farming
3	Anthony George	Use of UK bark extracts for nematode control



---

<b>3</b>	Nikol Reslová	Enabling Evidence-Based Deworming in Czech Sheep and Goats: Rapid Detection of <i>H. contortus</i> and Resistance-Oriented Diagnostics
<b>4</b>	Aleksandar Maksimovic	Analysis of Anthelmintic in Livestock Production in the Brčko District of BiH
<b>4</b>	Teresa L. Mateus	A draft-proposal for a focus group about awareness of anthelmintic resistance and its residues environmental impact

---



Working Group 4. OVERCOMING BARRIERS: to implement sustainable worm control practices.

Poster Communication

## **A draft-proposal for a focus group about awareness of anthelmintic resistance and its residues environmental impact**

Teresa L. Mateus<sup>1</sup>, Oliva M. D. Martins<sup>2</sup>, Fiona Vande Velde<sup>3</sup>, Sinéad Flannery<sup>4</sup>, Edwin Claerebout<sup>3</sup>, and Orla Keane<sup>5</sup>

<sup>1</sup> CISAS - Center for Research and Development in Agrifood Systems and Sustainability, Escola Superior Agrária, Instituto Politécnico de Viana do Castelo, Rua Escola Industrial e Comercial de Nun'Álvares, 4900-347 Viana do Castelo, Portugal

<sup>2</sup> Transdisciplinary Research Center in Education and Development, based in Instituto Politécnico de Bragança, Campus de Santa Apolónia, 5300-253 Bragança, Portugal

<sup>3</sup> Laboratory of Parasitology, Ghent University, Salisburylaan 133, B-9820 Merelbeke, Belgium

<sup>4</sup> School of Agriculture and Food Science, University College Dublin, Dublin, Ireland.

<sup>5</sup> Animal & Bioscience Dept, Teagasc, Grange, Dunsany, Co. Meath, Ireland

A focus group is a qualitative research methodology that utilizes group interaction to discuss a specific topic and is particularly useful for gaining a deeper understanding of the context surrounding a problem or specific phenomenon. Through in-depth interviews conducted with small and homogeneous groups (4 to 12), the moderator facilitates the discussion. The group should feel free to express their perspective. A proposal to conduct a focus group targeting ruminant veterinarians is presented, aiming to identify potential barriers, uncover hidden challenges, and explore opportunities and motivations for implementing sustainable practices. Veterinarians would be selected through convenience sampling. To explain the implementation, this research developed a guide based on a theoretical framework. The guide helps to implement the group interview. Finally, the data should be analysed. This phase involves transcription and categorization of data. The guide is based on the COM-B Model (Capability, Opportunity, Motivation led to Behaviour change). The variables (and respective indicators) would be Capability/Knowledge (knowledge, its source, and recommendations), local perception (perception, its source, and advisors), opportunity (support, training, and animal/environmental health), and motivation (willingness to change, enablers, and barriers). Some questions to be included would be: what are the main challenges you face in your daily professional life? Or how do you currently suggest farmers control helminths? Do you diagnose it in your daily practice? What do you know about the presence of anthelmintic drugs in the environment and their ecological impact? Hopefully, we'll get more information to set up focus groups with the producers.