



IBA

National Graduate School in
Infection Biology and Antimicrobials



Norwegian University
of Life Sciences

One health course, 2 ECTS (full course)

Time: March 6th – 9th 2023 (Week 10)

Place: NMBU Ås Campus.

Organizing committee:

Dr. Özgün Candan Onarman Umu – Department of Paraclinical Sciences
(PARAFAG) Norwegian University of Life Sciences (NMBU)

Assoc. Prof. Sabrina Rodriguez Campos – PARAFAG NMBU

Prof. Yngvild Wasteson – PARAFAG NMBU

Prof. Lucy Robertson – PARAFAG NMBU

Assoc. Prof. Alejandro Jimenez Melendez – PARAFAG NMBU

Acknowledgements to the Elixir Norway NMBU node team:

Dr. Thu-Hien To – BIOVIT NMBU

Prof. Simen Rød Sandve – BIOVIT NMBU

Dr. Arturo Vera Ponce De Leon – BIOVIT NMBU

TENTATIVE PROGRAM

MONDAY, 6th of March 2023

- 09.00 Welcome & Poster and oral presentations of the students for introducing themselves
- 10.00 Arctic One Health, **Prof. Morten Tryland (Høgskolen i Innlandet)**
- 10.50-11.10 *Coffee Break*
- 11.10 Factors important for species crossing of virus infections, **Prof. Espen Rimstad (NMBU)**
- 12.00 *Lunch*
- 13.00-16.00 Introduction and Hands-on session on Galaxy and NeLS platforms, **Dr. Thu-Hien To (Elixir Norway NMBU Node)**

TUESDAY, 7th of March 2023

- 09.00 Applications of transcriptomics for Toxoplasma development and different toxo stages (*title TBD*), **Dr. Chandra Ramakrishnan (University of Zurich, Switzerland)**
- 10.00 Climate change vectors - One Health (*title TBD*), **Assoc. Prof. Alejandro Jimenez Melendez (NMBU)**
- 10.50-11.10 *Coffee Break*
- 11.10 Talk on Cryptosporidium (*title TBD*), **Dr. Karin Troell, National Veterinary Institute (SVA), Sweden**
- 12.00 *Lunch*
- 13.00-16.00 Hands-on session, **Dr. Karin Troell (SVA, Sweden)**
- Introduction to and instructions on CryptoGenotyper
 - Demonstration of the tool (hands-on session)
 - e-learning tool for Cryptosporidium detection and typing
- 17.00 *DINNER*

WEDNESDAY, 8th of March 2023

- 09.00 AMR in sewage (*title TBD*), **Dr. Adriana Dorota Osinska** (NMBU)
- 10.00 Risk assessment/risk modeling of foodborne diseases (*title TBD*) - **Dr. Danica Grahek-Ogden** (Norwegian Scientific Committee of Food and Environment (VKM))
- 10.50-11.10 *Coffee Break*
- 11.10 HUNT One Health project, **Dr. Øivind Øines** (Norwegian Veterinary Institute (NVI))
- 11.45-12.45 *Lunch*
- 12.45-16.00 Hand-on session on metagenomics and resistome, **Assoc. Prof. Sabrina Rodriguez Campos** (NMBU)

THURSDAY, 9th of March 2023

- 09.00 AMR surveillance within the veterinary sector in Norway, **Dr. Anne Margrete Urdal** (Norwegian Veterinary Institute (NVI))
- 10.00 Overview of international and national conditions on antibiotic use and the importance of national collaboration within the NORM /NORM-vet programs (*title TBC*), **Prof. Hege Salvesen Blix** (University of Oslo, FHI)
- 10.50-11.10 *Coffee Break*
- 11.10 AMR detection with metagenomics, possibilities and pitfalls (*title TBC*), **Dr. Thomas Haverkamp** (Norwegian Veterinary Institute (NVI)) (Online)
- 12.00 *Lunch*
- 13.00-15.45 Continue - Hands-on session on metagenomics and resistome, **Assoc. Prof. Sabrina Rodriguez Campos** (NMBU)
- 15.45 Evaluation of the course & End