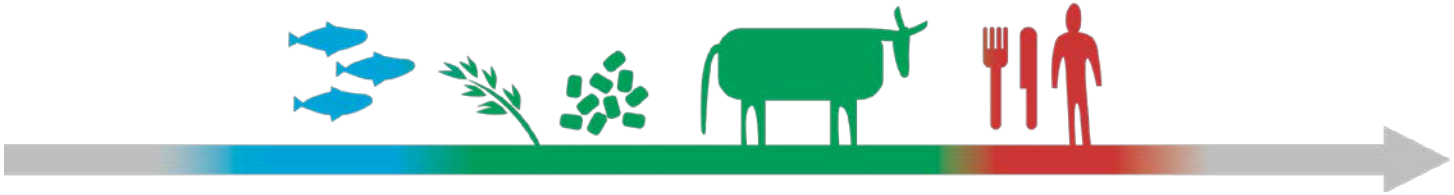
Veterinærinstituttet
Norwegian Veterinary Institute

Norwegian Veterinary Institute activities, updates and *Echinococcus canadensis* presence in Norway

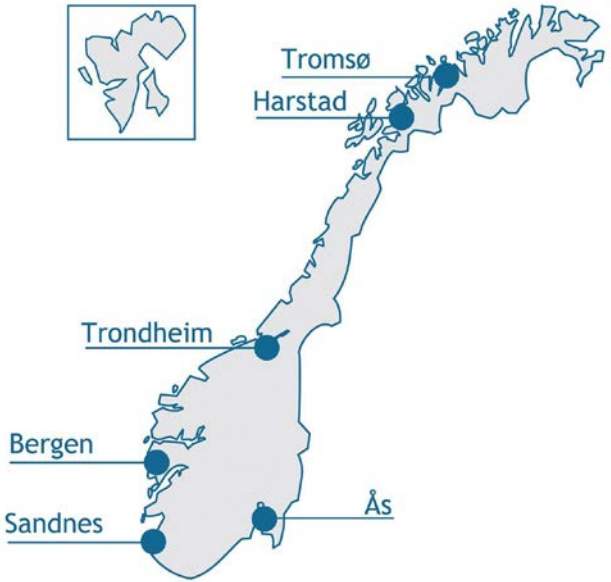
19th Workshop of the National Reference Laboratories for Parasites
6-7 November 2024, Rome

Sokratis Ptochos, BSc, DVM, PHD
sokratis.ptochos@vetinst.no
parasitt@vetinst.no

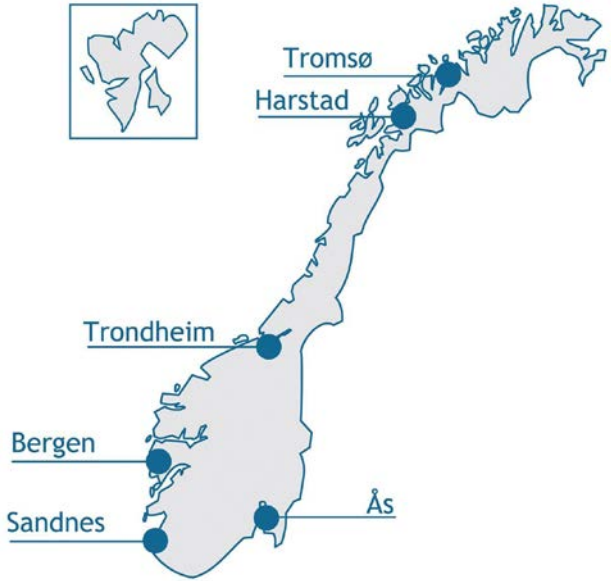


- Where - Who - What
- NRL activities
- *Echinococcus canadensis* G8/G10

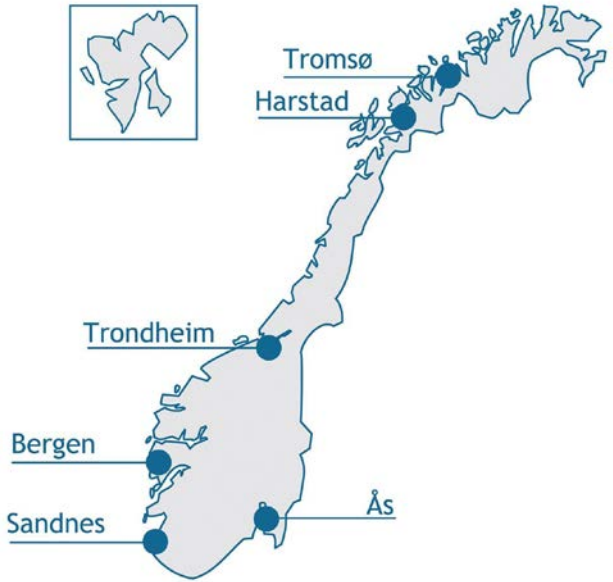
- Where, who and what
- NRL activities
- *Echinococcus canadensis* G8/G10

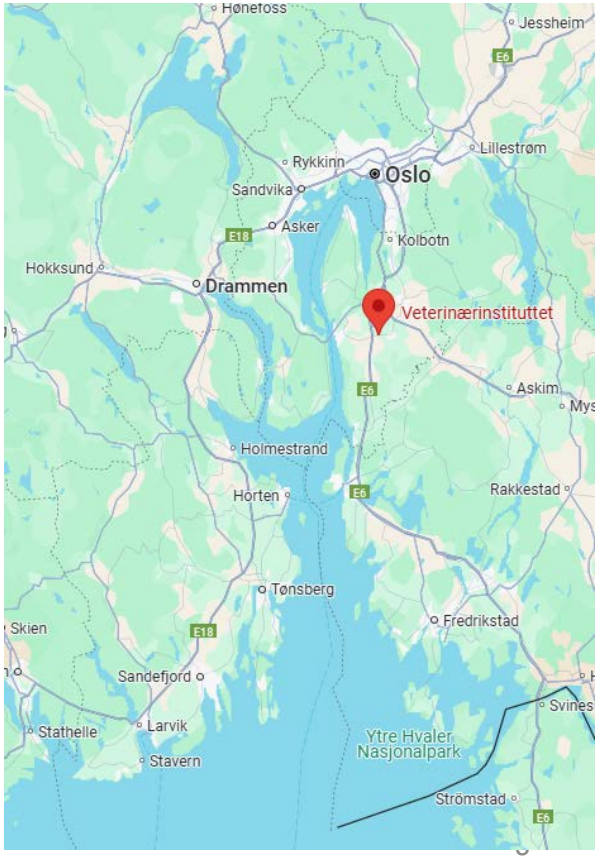


- Where, who and what
- NRL activities
- *Echinococcus canadensis* G8/G10



- Where, who and what
- NRL activities
- *Echinococcus canadensis* G8/G10





The building

The building

The team

Diagnostics & Analytics
Virology, Immunology & Parasitology (VIP)
Parasitology group

Kristin Henriksen

Kjersti Selstad Utaaker

Inger Sofie Hamnes

Jon Hagelin

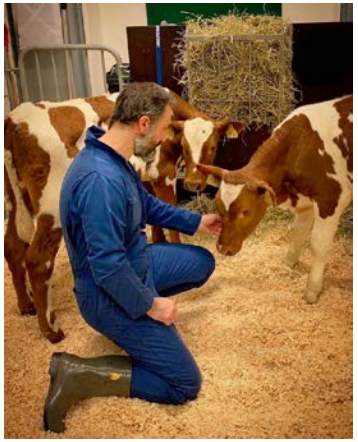
Tsegabirhan K Yohannes Tesama

Frieda Betty Ploss

Sokratis Ptochos

Services and Research

- Diagnostics
- Consultations
- Surveillance programs
- Research projects
- Preparedness & Risk Assesments
- NRL



NRL- Responsibilities

- Identification of parasites
  –Terrestrial animal parasites (food and feed)
- Educational activities – Examiners approval for *Trichinella*
- Proficiency Tests
  Nationaly - *Trichinella*

NRL- Responsibilities

- Identification of parasites –Terrestrial animal parasites (food and feed)
- Educational activities – Examiners approval for *Trichinella*
- Proficiency Tests Nationaly - *Trichinella*

- Approved in 2023
  - 1,5 M Pigs
  - 38 Horses

Inger Sofie Hamnes, Veterinærinstituttet

NRL- Responsibilities - Competence

- EURL-P PTs
  - Artificial digestion to detect *Trichinella* larvae in meat samples
  - Identification of *Trichinella* larvae at the species level by a molecular method
  - Detection of *Echinococcus* sp. worms in the intestinal mucosa of the definitive host
  - Molecular identification of *Echinococcus* at the species level

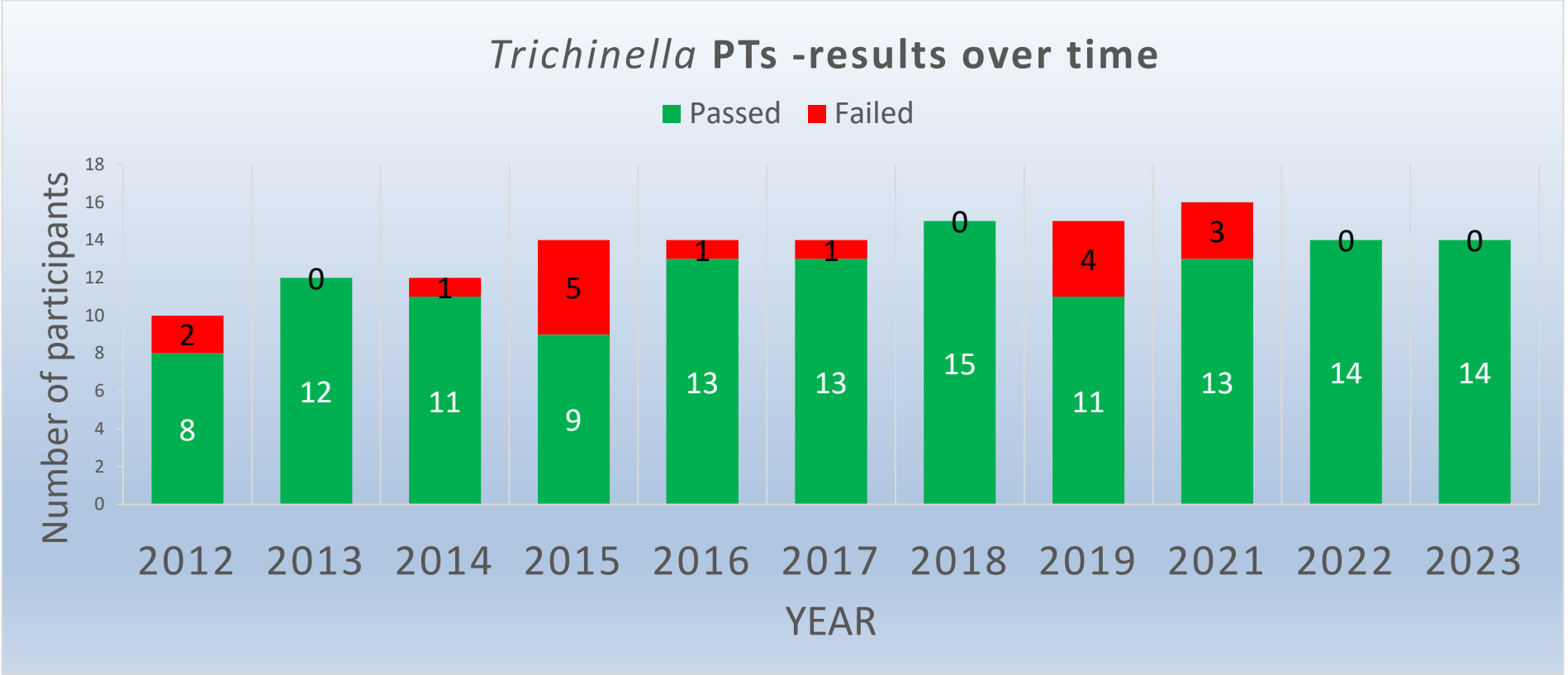
National PTs

- Purpose: Test the capacity of National labs to identify *Trichinella* larvae in meat

- Participants: 15±1 National labs (including 1 outside Norway)

- Meat type: miced pork muscle
- Samples weight: 100g
- PT panel composition (eg. 2024): 3 positive samples (3/4/5 *T. spiralis* larvae) and 2 negative
- Frequency: 2 times per year

National PTs – Results – Overtime comparison



National PTs – Conclusions

- 2 specific laboratories fail the PTs more frequently than the rest.
- All laboratories manage to pass the PT on the follow up tests.
- There is overtime improvement on the total outcome.

Veterinærinstituttet

Norwegian Veterinary Institute

www.vetinst.no