



Tricky *Trichinella* digestions and other 2024 activities

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- ❖ Governmental
- ❖ Public health
- ❖ Veterinary infectious disease preparedness (2020)

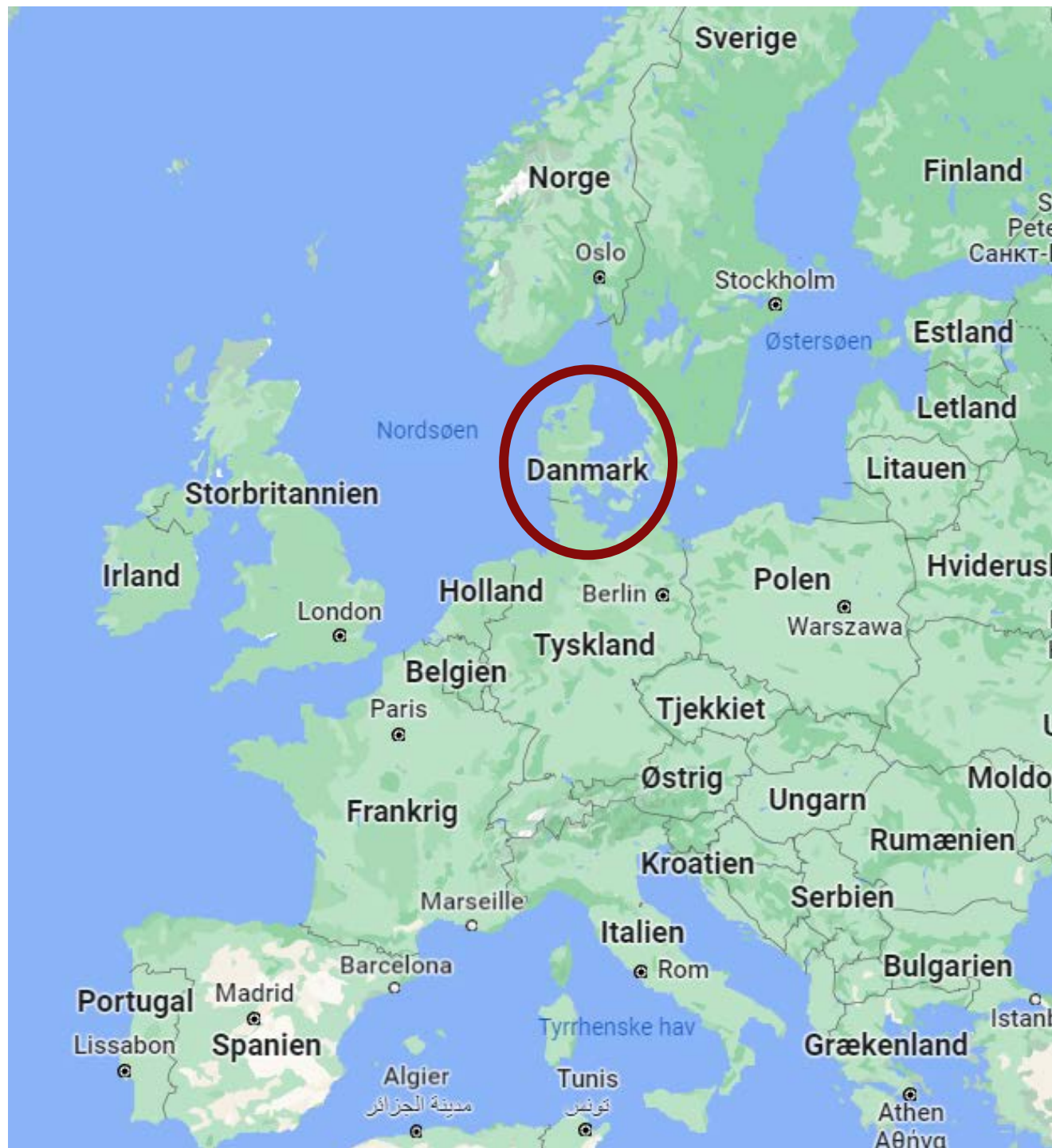
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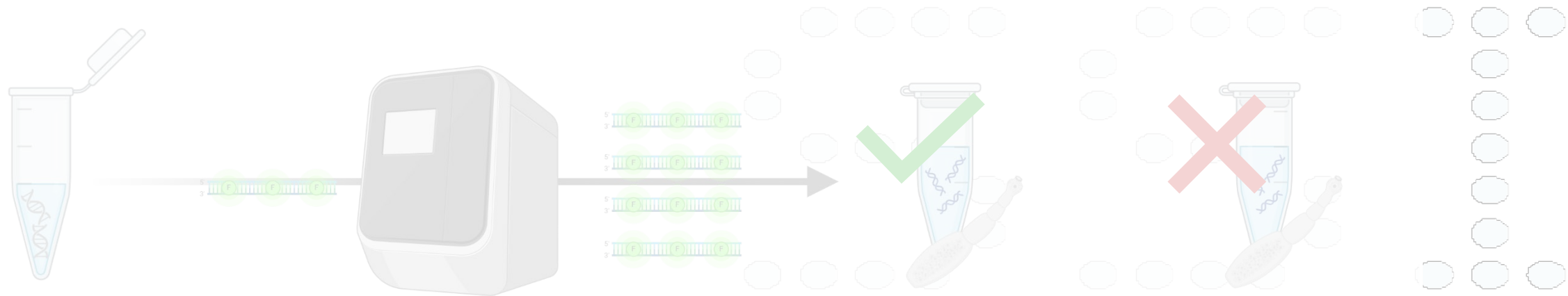
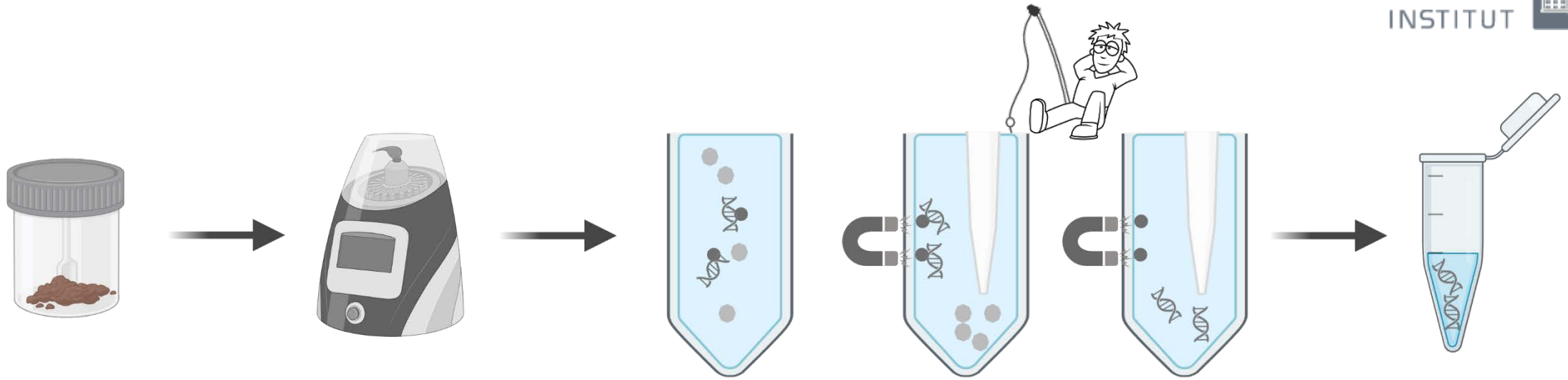


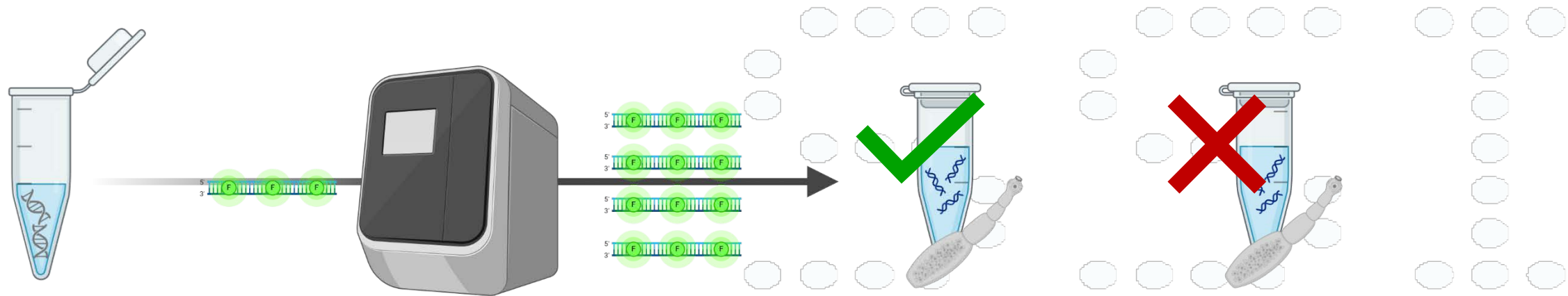
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E.M. IN DENMARK







Samples tested since 2022

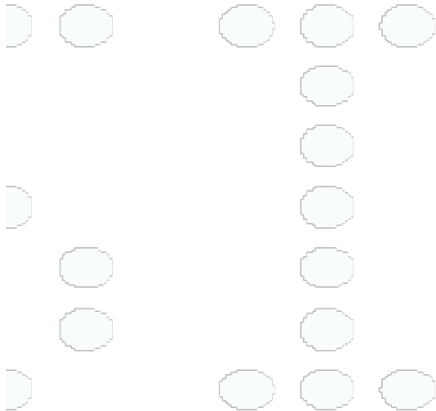
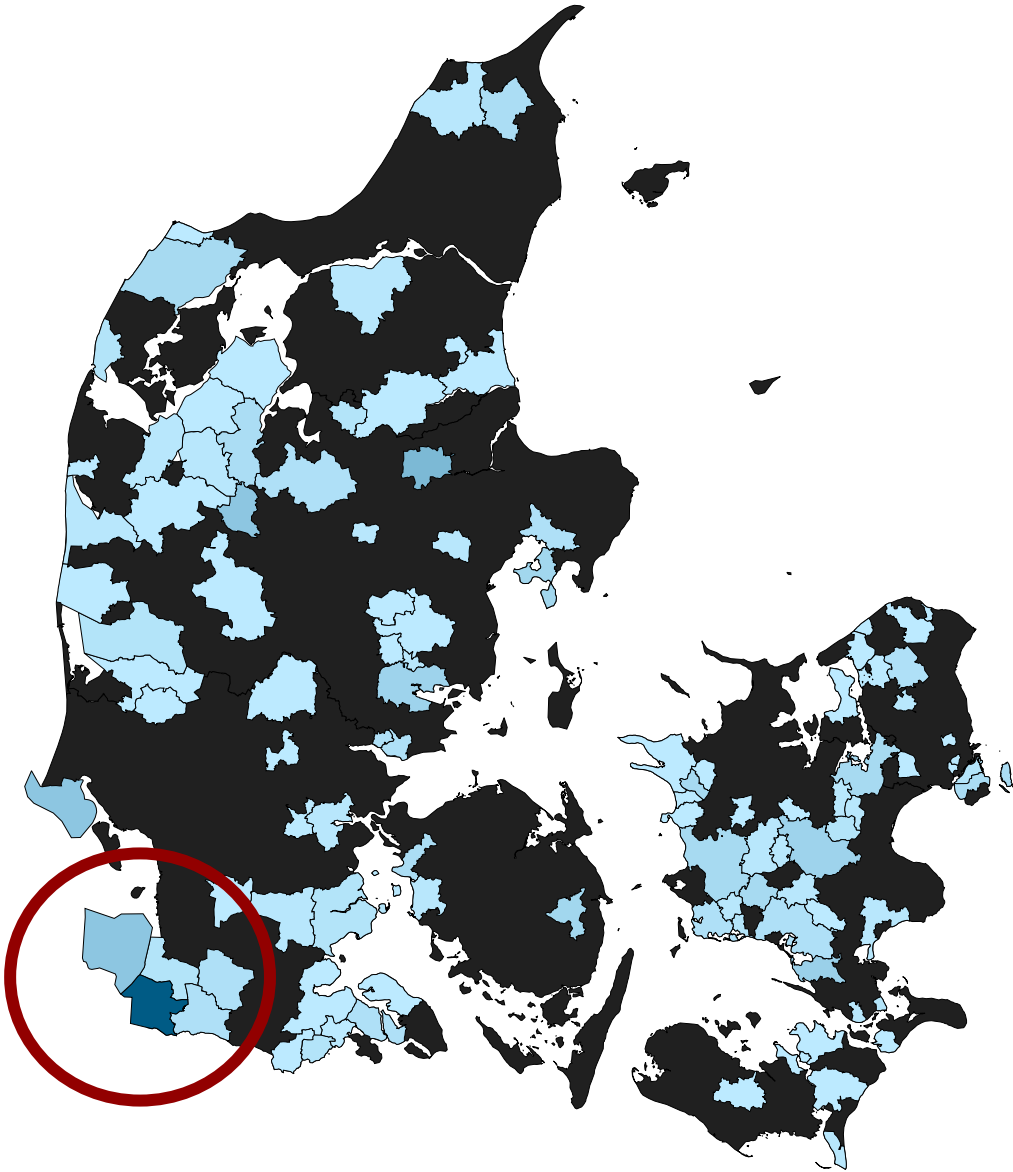


No. samples

45

1

365



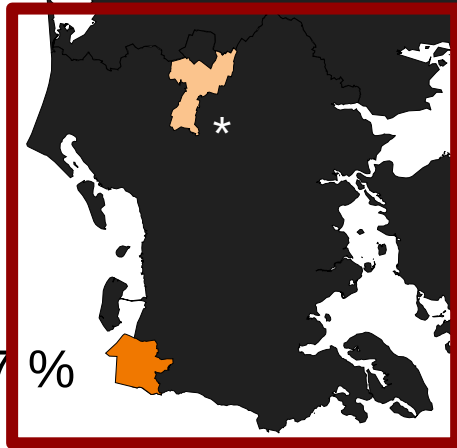
Echinococcus multilocularis detected in Denmark

❖ 3,5 % (national)

❖ SCT for 9/12
- 2–2552

17 %

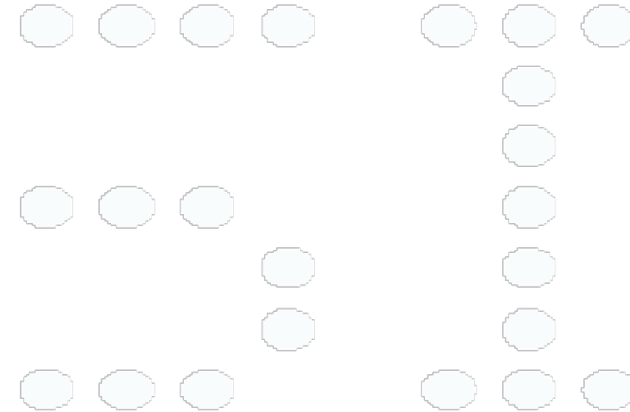
17 %



No. positives

11

1



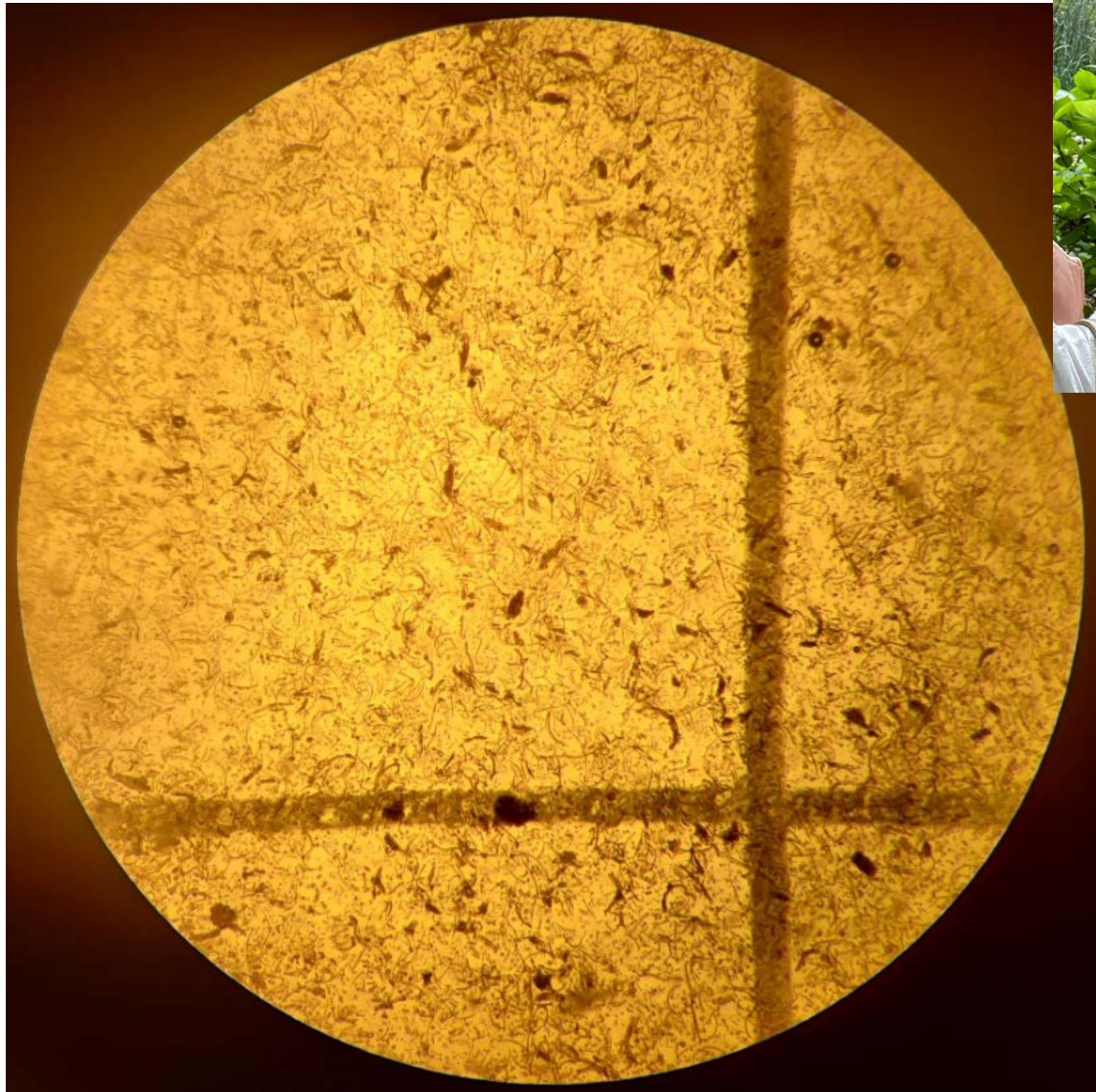
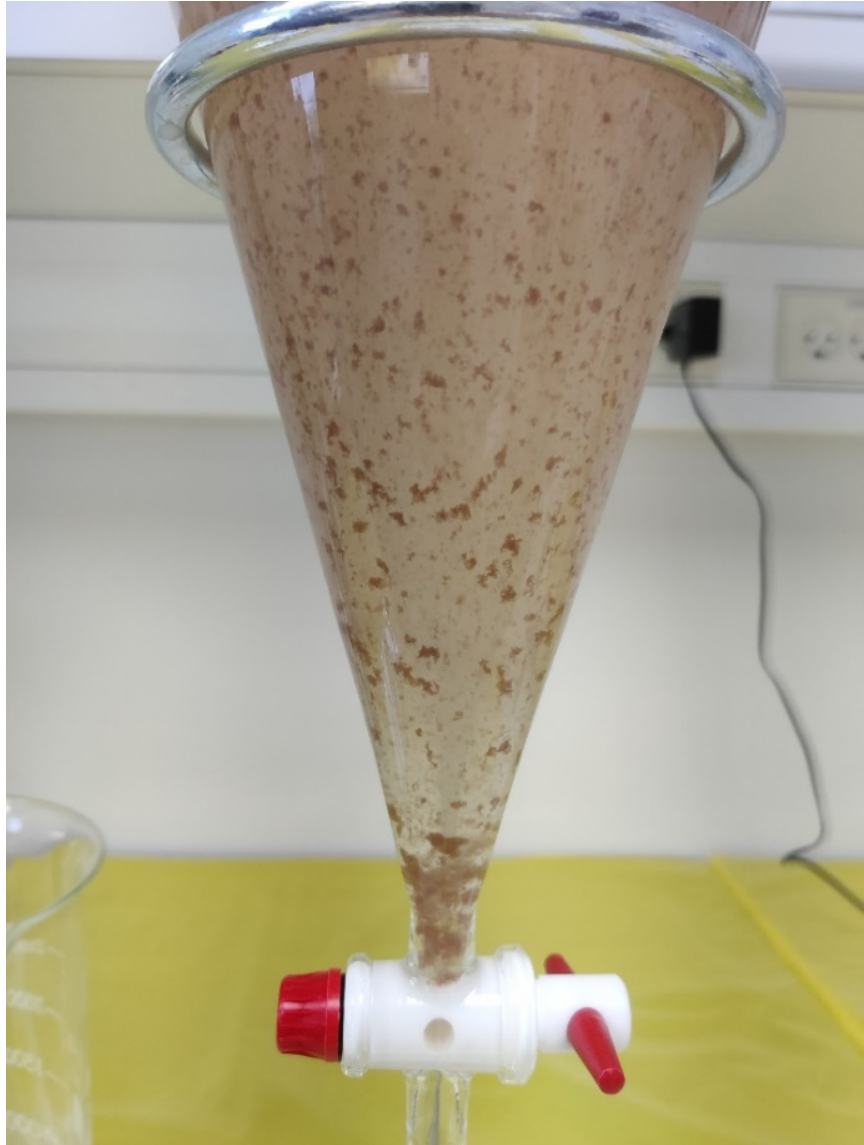
- ❖ 2012–2015*
 - 29 % (8–43 %)
- ❖ 2022–2024
 - 17 % (7–27 %)



TRICKY *TRICHINELLA*...



Last year...



- Factors with influence (varying importance)

- Meat

- Animal species, age etc.
 - Storage
 - Preparation for digestion

- Temperature (room / sample / digestion mix)

- Pepsin

- Lot
 - Liquid or powder
 - pH
 - Activity (units or NF)
 - Concentration

- Hydrochloric acid (HCl)

- Lot
 - pH
 - Concentration

- Digestion time

- Sedimentation time

- Personel

- Digestion fluid:meat ratio





- Storage temperature
- Sequential sieving → the debris stuck to the 63 μm sieve
- Alternative method?

2024



- Tween20

1 drop

2 drops

4 drops

8 drops

0 drops







- Spiked pork meatball-samples (frozen)
 - 1 ml Tween20 in 2 L
- 2/5 larvae retrieved



- Fox-digestion modifications
 - 1 ml Tween20 in 2 L
 - 80 ml sediment
 - Increased sedimentation time
- Debris but readable



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 - 1 ml Tween20 in 2 L
 - 80 ml sediment
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Future work

- Test of more spiked samples + Tween20
- Sequential sieving + Tween20?



**QUESTIONS, COMMENTS,
SUGGESTIONS?**



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Illustrationer lavet med:

Created in **BioRender.com**

