



# The proficiency test 2019

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# The Proficiency Test 2019

- The EURL organizes an annual inter-laboratory proficiency test for the NRLs.
- Aim: to assess the ability of participating laboratories to identify the non-exotic diseases listed in Council Directive 2006/88/EC Annex IV part II for Crustacean.
- This year the proficiency test will focus in the ability of participant laboratories to detect the presence of White Spot Syndrome virus
- We have followed protocols kindly provided by Kelly Bateman from CEFAS

# Preparation of material for PT – shrimps

- Shrimps (*Panaeus vannamei*) were obtained from a farm in Kiel, transported at DTU and placed at our tank facility
- Obtained shrimps were tested for WSSV, Taura Syndrome Virus, and Yellowhead virus

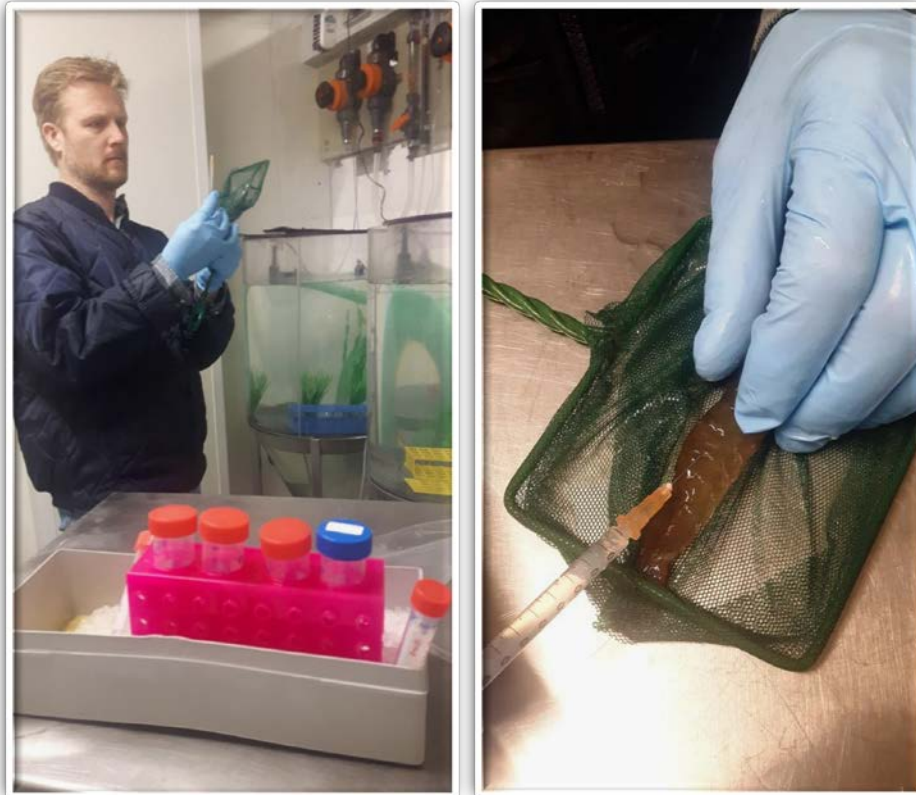


# Preparation of material for PT – inoculum

- Positive material for WSSV was transferred from CEFAS to DTU in the autumn 2018
- A WSSV positive shrimp was homogenised in sterile saline, and centrifuged to pellet down tissue debris
- Supernatant was sterile filtrated and viral load was estimated by qPCR



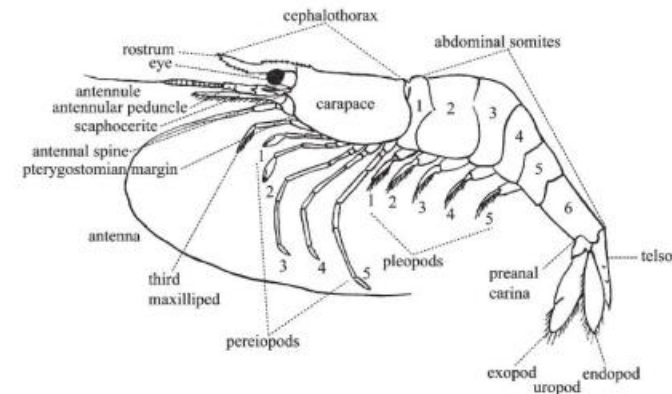
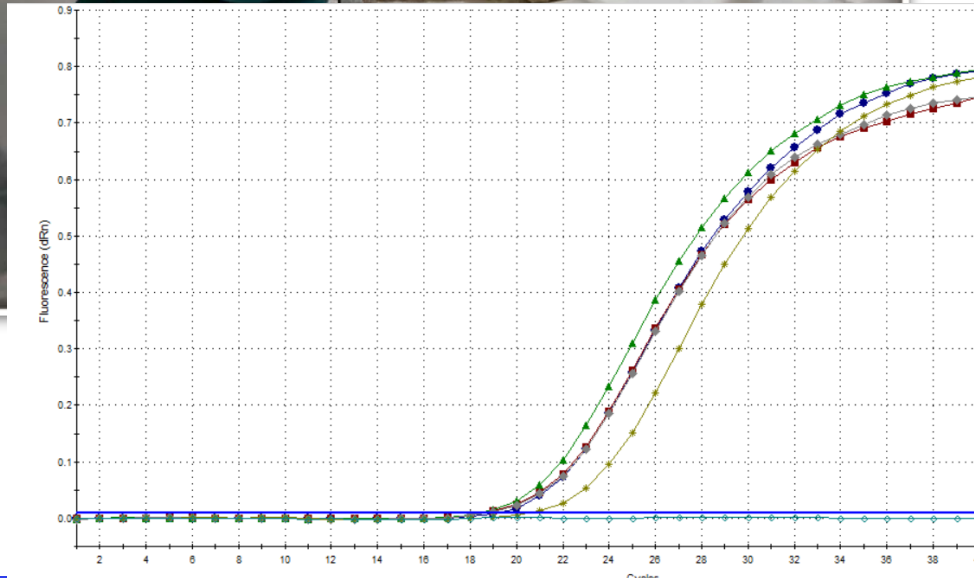
# Inoculation in naïve shrimp (*Panaeus vannamei*)



- Positive WSSV tissue homogenised supernatant was used to inoculate naïve shrimp
- 77 shrimps were inoculated by injection
- Controls were inoculated with sterile saline
- All shrimp died within 48 hrs, with no mortality in control group

# Testing of material for PT

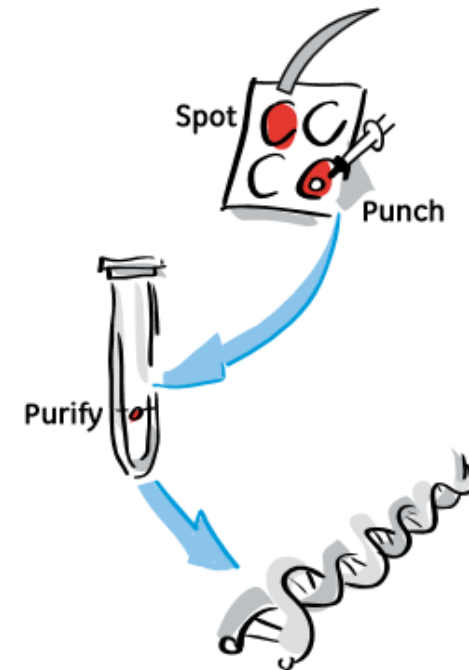
- A set of pleopods of each shrimp used was tested for the presence of WSSV by qPCR
- This was done for both infected and control group
- We tested all set of pleopods for one shrimp



# Testing of FTA cards

Testing the use of Whatman FTA cards for virus preservation and shipment

- Virus stability in FTA<sup>®</sup> card at different temperatures
- Optimization of protocols for virus recovery





# Shipment of proficiency test

- PT will be shipped in the fall 2019
- It will consist in pleopods in ethanol to be tested for the presence of WSSV



# Thanks