



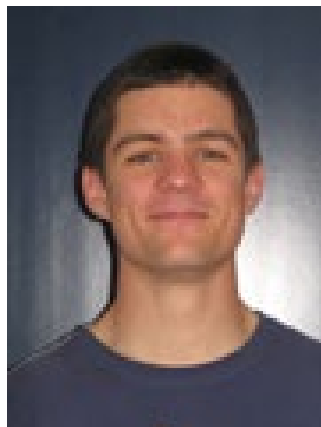
European Union Reference Laboratory for Fish and Crustacean Diseases

NATIONAL INSTITUTE OF AQUATIC RESOURCES, TECHNICAL UNIVERSITY OF DENMARK

EURL-Crustacean work done in 2022

*Morten Schiøtt,
Argelia Cuenca, Teena V. Klinge, Niccoló Vendramin,
Niels Jørgen Olesen*





Current EURL
director Niccolò
Vendramin



Senior scientist
and Coordinator
Morten Schiøtt



Senior researcher
Argelia Cuenca



Senior researcher
Lone Madsen



Senior advisor
Tine Iburg



Lab technician
Teena Klinge



Senior researcher
and section head
Britt Bang Jensen



Former EURL
director Niels
Jørgen Olesen

1-1 Organise and prepare for the 13th Annual Workshop



Report of the 13th Annual Workshop of the National Reference Laboratories for Crustacean Diseases

Kgs. Lyngby, Denmark
June 1st 2022



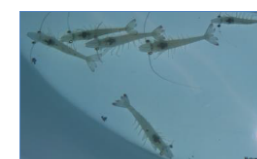
Organized by the European Union Reference Laboratory for Fish and Crustacean Diseases,
National Institute of Aquatic Resources, Technical University of Denmark, Kgs. Lyngby



Report of Special session for NRL's on new Animal Health Law

31st of May 2022

National Institute of Aquatic Resources
Technical University of Denmark
2800 Kgs. Lyngby, Denmark



Organized by the European Union Reference Laboratory for Fish and Crustacean Diseases,
National Institute of Aquatic Resources, Technical University of Denmark, Kgs. Lyngby

1-2 Organise scientific working group meetings

Working group on Diagnostic manuals for TSV and YHV1


Participants:

- **EURL: (Morten Schiøtt, Argelia Cuenca and Niels Jørgen Olesen)**
- **IZSVe (Tobia Pretto)**
- **CEFAS (Kelly Bateman and Grant Stentiford)**
- **AAHL, Geelong ACDP (Nick Moody and Peter Mohr)**


1-3 Organise Proficiency tests

PT22 WSSV: 25 laboratories in 18 EU Member States

PT22 TSV & YHV: 15 laboratories in 11 EU Member States




European Union Reference Laboratory for Fish and Crustacean Diseases
NATIONAL INSTITUTE OF AQUATIC RESOURCES, TECHNICAL UNIVERSITY OF DENMARK




Inter-laboratory proficiency test 2022
Detection of White Spot Syndrome Virus in
Shrimp Pleopods

Organised by the
European Union Reference Laboratory for Fish and Crustacean Diseases,
National Institute of Aquatic Resources,
Technical University of Denmark,
Copenhagen, Denmark

Distribution Date:	04/04/2022
Report Date:	22/08/2022
Report compiled by:	Morten Schjøtt



European Union Reference Laboratory for Fish and Crustacean Diseases
NATIONAL INSTITUTE OF AQUATIC RESOURCES, TECHNICAL UNIVERSITY OF DENMARK



Inter-laboratory proficiency test 2022
Detection of Taura Syndrome Virus (TSV) and
Yellow Head Virus 1 (YHV1) on FTA cards

Organised by the
European Union Reference Laboratory for Fish and Crustacean Diseases,
National Institute of Aquatic Resources,
Technical University of Denmark,
Copenhagen, Denmark

Distribution Date:	04/04/2022
Report Date:	22/08/2022
Report compiled by:	Morten Schjøtt

2-1 Training:

Facilitate and provide training in laboratory diagnosis:

EURL training courses Kgs. Lyngby, October 10th – 21st 2022

Course 1: Methods for implementation of surveillance procedures for listed fish diseases

Course 2: Introduction to histopathology in fish and crustacean diseases

The course is accredited to grant ECTS at PhD level to the participants.



European Union Reference Laboratory for Fish and Crustacean Diseases
NATIONAL INSTITUTE OF AQUATIC RESOURCES, TECHNICAL UNIVERSITY OF DENMARK

EURL Training Courses



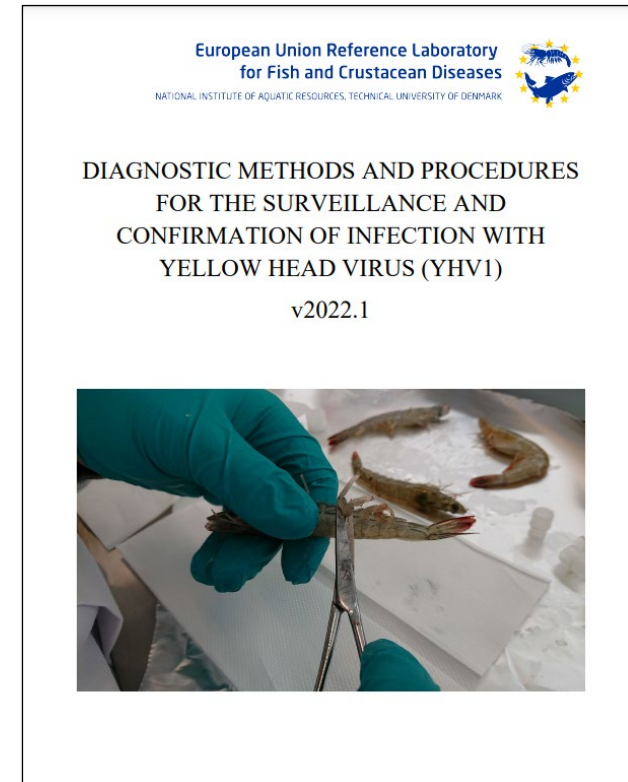
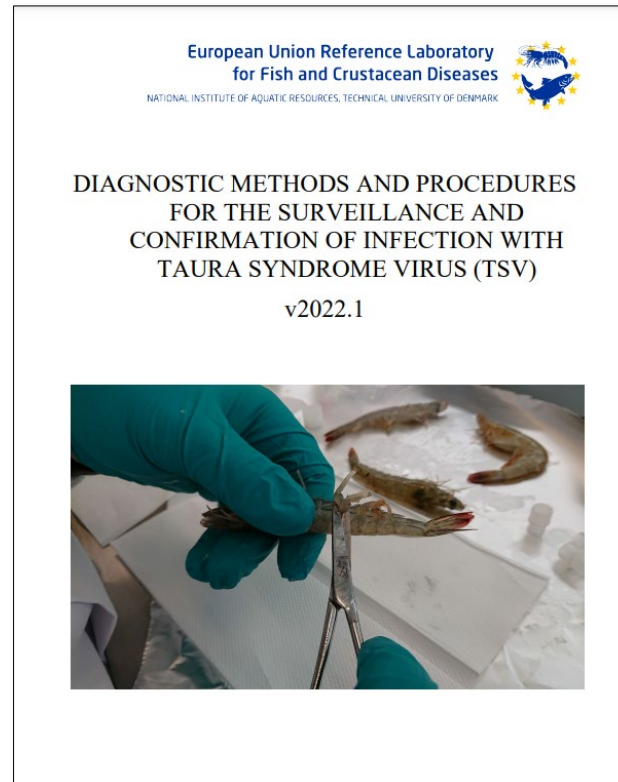
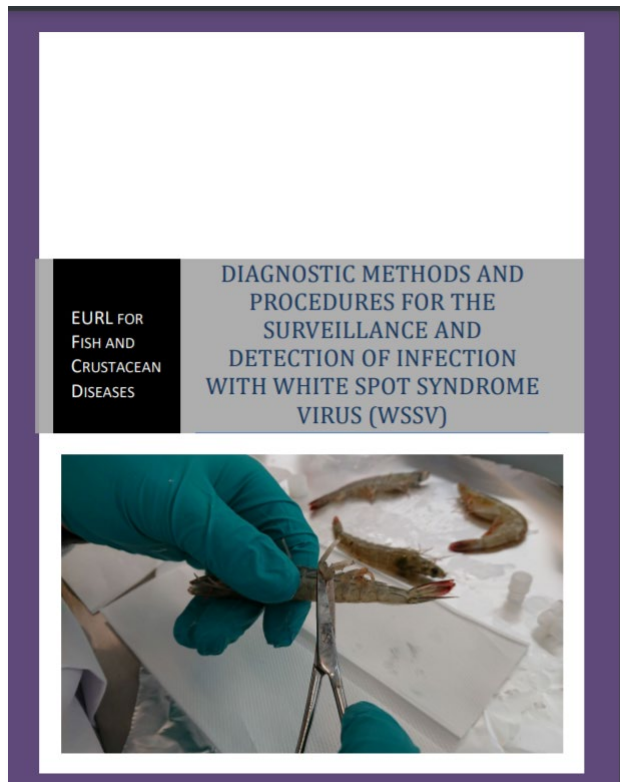
Copenhagen, October 10th – 21st 2022

Hosted by the European Union Reference Laboratory for Fish and Crustacean Diseases

3. TO PROVIDE SCIENTIFIC AND TECHNICAL ASSISTANCE TO THE EUROPEAN COMMISSION AND OTHER ORGANISATIONS

3.1. Diagnostic manuals.

To have updated diagnostic manuals for all listed crustacean diseases available for Member State NRLs on the EURL website www.eurl-fish-crustacean.eu.



3.2. Survey and diagnosis. "collate and forward information on exotic and endemic diseases, that are potentially emerging in Community"

Surveillance and diagnostics of
crustacean diseases in Europe

Morten Schiøtt

3.2. Survey and diagnosis. "collate and forward information on exotic and endemic diseases, that are potentially emerging in Community"

Surveillance and diagnostics of
crustacean diseases in Europe

Morten Schiøtt

5.1 Scientific advice in relation to aquatic animal health legislation

The experts of the EURL have since September 2022 been part of a working group established by the European Food Safety Authority (EFSA) to produce guidelines for defining vector species of listed aquatic animal diseases. These guidelines will be used in commissioned work to search the scientific literature for evidence of aquatic animal species working as vector species for the relevant diseases. The work will continue in 2023.

EURL Workplan 2021-2022

Non-accomplished tasks

1. **Scientific assessment of the effect of pooling samples for surveillance and diagnostics by PCR and provision of guidelines on how to pool.**
2. **Establishment of facility** for maintaining permanent stock of shrimp.

EURL Workplan 2023-2024

2-year program

1. **PT23** accomplished; **PT24**: No major changes for listed diseases expected. *Aphanomyces astaci* will probably not be included. Maybe later.
2. **Annual Workshop 2023** accomplished. **AW 2024**: Virtual.
3. **Training course 2023**: Methods for implementation of surveillance procedures for listed fish diseases
4. **Training courses 2024**: Epidemiology? Method validation?
5. **Quality assurance**: provide help for implementing in NRL's (SOPs, visits etc.)
6. **Diagnostic methods**: Implementation of additional diagnostic methods of crustacean diseases
7. **Scientific assessment of the effect of pooling samples for surveillance and diagnostics by PCR and provision of guidelines on how to pool.**
8. **Upgrade facility for maintaining permanent stock of shrimp (and other crustaceans?).**
9. **Further update of Diagnostic manuals**
10. **Proposals for topics are VERY welcome!**

15th Annual workshop 2024

29th + 30th of May (Wednesday and Thursday) ONLY virtual.

Three workshops back to back, on fish and crustacean diseases, respectively and a closed session for the NRLs in EU and EFTA.



End of 14th Annual workshop of NRL's for Crustacean Diseases 2023

Important! Please give us feed back as soon as possible by filling the evaluation scheme send to all of you.

Upon request we will send you a signed certificate of participation.

Thank you for all the excellent presentations, valuable questions and contributions and for participating in this workshop

We are looking forward to seeing you online in 2024 and face to face in 2025





1-4 Novel molecular methods

For the EURL to have molecular diagnostic methods of the highest scientific standards and to be able to provide these methods to all Member State NRLs.

In 2021 the following new diagnostic PCR methods were introduced in the laboratory:

RT-qPCR for IMNV

qPCR for IHNV

qPCR for AHPND