

REPORT – EELSUPPORT

AQUA2024 – August 26-30, 2024

Bella Centre, Copenhagen, Denmark

Session "Eels"

Jonna Tomkiewicz and Arjan Palstra



AQUA
2024

Session "Eels"

Chairs: Jonna Tomkiewicz and Arjan Palstra

EAS Thematic Group: "European Eel - development of breeding and hatchery technology"

COST Action: "Solving bottlenecks in eel reproduction to support sustainable aquaculture" (EELSUPPORT) CA22163

REPORT – EELS Session AQUA2024

An eel session was included in the aquaculture conference AQUA2024 held August 26-30, 2024, at the Bella Centre, Copenhagen, Denmark. The conference was a combined event organized by the World Aquaculture Society and the European Aquaculture Society. It was attended by app. 3800 participants.

The European Aquaculture Society comprises a Thematic Group: “European Eel – development of breeding and hatchery technology” that gives a session or workshop every second year. This year’s session “Eels” was organized jointly with the COST Action: “Solving bottlenecks in eel reproduction to support sustainable aquaculture” (EELSUPPORT) CA22163, inviting action members to present relevant contributions to the aquaculture society and stakeholders.

The Eels session took place August 28 from 14-17.30 co-chaired by Dr. Jonna Tomkiewicz, head of the EAS Thematic Group and EELSUPPORT member, and Arjan Palstra, head of the EELSUPPORT Action. The session included 11 oral presentations and three poster presentations – also available as e-posters during the conference. Seven of the presentations and one poster were given by EELSUPPORT participants. Around 50 people attended the session, including 16 participants from eel support. Most of the presentations and posters were directed towards the development of eel hatchery technology, while a few were giving perspective to the natural eel population.

The session was concluded by a general discussion lead by the chairs. The program is given on the following page. A short EEL-SUPPORT meeting was held after the session.

Dr. Jonna Tomkiewicz, Technical University of Denmark, National Institute of Aquatic Resources, Kgs. Lyngby, Denmark.

Dr. Arjan Palstra, Wageningen University & Research, Animal Breeding and Genomics, Wageningen, The Netherlands.



AQUA2024 – Program of the session Eels August 28 from 14–17.30.

EELS

Wednesday, August 28 14:00 - 17:30 MR 18

Chairs: Jonna Tomkiewicz, Arjan Palstra

WEDNESDAY

- 14:00** **Jonna Tomkiewicz**, Sebastian N. Politis, Sune Riis Sørensen, Paraskevas Koumpiadis, Daniela Eliana Sganga
CLOSING THE CYCLE OF THE EUROPEAN EEL *Anguilla anguilla*
- 14:15** **Arjan Palstra**, Caroline Durif, Sandra Ramos Judez, Jonna Tomkiewicz, Justas Dainys, Sylvie Dufour, Marina Morini, Laura Gentile, Pauline Jehannet, Annalisa Zaccaroni
COST ACTION EEL SUPPORT: SOLVING BOTTLENECKS IN EEL REPRODUCTION TO SUPPORT SUSTAINABLE AQUACULTURE
- 14:30** **Ana Gavrilović**, Irena Vardić Smrzlić, Damir Kapetanović, Tena Radočaj, Oliver Barić, Jurica Jug Dujaković
VIRAL DISEASES SCREENING FOR THE BROODSTOCK COLLECTION OF EUROPEAN EEL *Anguilla anguilla* FROM NERETVA DELTA, CROATIA
- 14:45** **Daniela Eliana Sganga**, Francesca Bertolini, Jonna Tomkiewicz
TRANSCRIPTOMIC PROFILING TO IDENTIFY BROODSTOCK QUALITY BIOMARKERS IN EUROPEAN EEL
- 15:00** **Christiaan Henkel**
TOWARDS A SINGLE-CELL ATLAS OF EEL DEVELOPMENT: LESSONS FROM SALMON
- 15:15** **Fan Yang**, Elisa Benini, Sune Sørensen, Christopher Albertsen, Ian Butts, Jonna Tomkiewicz, Sebastian Politis
ESCAPE RESPONSES IN EUROPEAN EEL *Anguilla anguilla* LARVAE TO MECHANICAL AND VISUAL STIMULI
- 15:30** **Camillo Rosso**, D. Nolte, R. Leemans, D. Cardoso
CLOSING THE LIFE CYCLE OF EUROPEAN EEL *Anguilla anguilla* IN CAPTIVITY: AN OVERVIEW OF LEPTOCEPHALUS LARVAE REARING
- 15:45** **Sebastian Politis**, Jonna Tomkiewicz, Sune R. Sørensen
BOTTLENECKS IN EUROPEAN EEL LARVAL AND LEPTOCEPHALUS CULTURE
- 16:00** **ePosters Pitch Talks**
- 16:15** **Manu Kumar Gundappa**, Tessa van der Hammen, Hendrik-Jan Megens, Reindert Nijland, Arjan P. Palstra
PREDICTION OF AGE AND SEX IN EUROPEAN EEL *Anguilla anguilla* FROM DNA SEQUENCING BASED EPIGENETIC PROFILING
- 52
- HOW TO IMPROVE STATUS AND WELLBEING OF EEL *Anguilla anguilla* IN SERBIA?
- 16:45** **Jurica Jug Dujaković**, Oliver Barić, Tena Radočaj, Ana Gavrilović
CORRELATION BETWEEN BIOLOGICAL PARAMETERS OF EUROPEAN EEL *Anguilla anguilla* FROM THE NERETVA DELTA, CROATIA
- 17:00** **Discussion**