

EU EATIP Day

Wednesday, October 9 10:30 - 17:30 EXHIBITION 2

Part I: Low impact – High output

Promoting food security and new value chains in aquaculture

Chair: Miguel Lizaso / Marta Iglesias, European Commission - DG RTD, Alexandra Neyts, EATIP

Aquaculture in Europe provides safe food of the highest quality and nutritional value, across a wide range of products adapted to consumer preferences and lifestyles. European policies and strategies recognise its potential as a full-fledged sector of the blue bioeconomy and as an essential approach to acquiring global food and nutrition security. Future-proofing our food systems in terms of sustainability, resilience and competitiveness, calls for strengthening circularity and resource efficiency.

According to the report “Food from the Oceans”¹, the biggest potential for increasing seafood production is through mariculture, especially at lower levels in the ocean food chain. In addition, the production of shellfish, algae and other low-trophic organisms contributes to carbon sequestration and eutrophication mitigation. It is therefore important to consider their suitability to produce food and feed, as well as other high value compounds for use in cosmetics, personal care, pigments, etc. Other ways of supporting the circular bio-economy are the use of waste from one aquatic species as feed for another, and the introduction of alternative feed ingredients from insects, unicellular organisms, fungi, wood and other terrestrial plants.

As a joint effort, the Healthy Oceans & Seas Unit of the European Commission, Directorate General Research and Innovation (DG RTD), and the European Aquaculture Technology and Innovation Platform (EATiP) are setting focus on the impact of European research for the benefit of aquaculture development within Europe as well as worldwide. Through three consecutive sessions, they present some major outcomes of technology and innovation efforts that contribute to tackle the bottlenecks and opportunities in aquaculture towards the overall goal of ensuring food and nutrition security. Pitching the latest results from EU funded projects will be followed up by industry-driven panel discussions.

10:30 SESSION 1: Setting the scene - How can European research and innovation stimulate sustainability and competitiveness of the aquaculture sector?

Chair and Moderator: Marta Iglesias / Miguel Lizaso, EC DG RTD and Alexandra Neyts, EATiP

10:30 **Alexandra Neyts, EATiP.** WELCOME AND INTRODUCTION TO THE SESSION

10:35 **Marta Iglesias / Miguel Lizaso, European Commission DG RTD.** R&I FOR AQUACULTURE: SCIENCE FOR THE NEW CHALLENGES

10:45 **Lorella de la Cruz, European Commission DG MARE.** WORKING TOWARDS A REVIEWED STRATEGY FOR EU AQUACULTURE: PLACING AQUACULTURE IN THE CONTEXT OF BROAD POLICY CHALLENGES

10:55 **Raphaëla Le Gouvello, International Union for Conservation of Nature (IUCN).** LOOKING AT SYNERGIES BETWEEN AQUACULTURE AND CONSERVATION

¹ Food from the Oceans - How can more food and biomass be obtained from the oceans in a way that does not deprive future generations of their benefits? High Level Group of Scientific Advisors. Scientific Opinion No. 3/2017. https://ec.europa.eu/research/sam/pdf/sam_food-from-oceans_report.pdf

- 11:05 **Yolanda Molares, ACUIPLUS/EATiP.** SECTOR RECOMMENDATIONS FOR GROWTH, SUSTAINABILITY AND INNOVATION – A MULTI-STAKEHOLDER PERSPECTIVE
- 11:15 **Kjell Inge Reitan, NTNU, and Jorunn Skjermo, SINTEF.** MICRO- AND MACROALGAE SESSION CHAIRS REFLECTING ON HIGH-IMPACT OUTCOMES
- 11:25 **SESSION 2 – Low trophic production technologies and new feed resources**
Chair and Moderator: Alexandra Neyts, EATiP
- 11:25 **Ole Christensen, Biomar.** CURRENT EXPERIENCES, FUTURE BOTTLENECKS AND OPPORTUNITIES OF NEW FEED INGREDIENTS FROM LOW-TROPHIC RESOURCES
- 11:35 **Ragnar Nystøyl, Kontali Analyse / EUMOFA.** MARKETS FOR LOW TROPHIC AQUACULTURE PRODUCTS – SOME CRITICAL MARKET CONSIDERATIONS
- 11:45 **Jose Carlos Quintela, NATAC BIOTECH SL.** AQUOLIVE - IMPROVING AQUACULTURE PRODUCTION WITH BIOACTIVES FROM OLIVE OIL PROCESSING BY-PRODUCTS.
- 11:55 **Maria BARBOSA, Wageningen University & Research.** MAGNIFICENT- RELIABLE MICROALGAE PRODUCTS SERVING MARKET DEMANDS FOR A SUSTAINABLE FUTURE
- 12:05 **Philip James, Nofima.** AQUAVITAE - NEW SPECIES, PROCESSES AND PRODUCTS CONTRIBUTING TO INCREASED PRODUCTION AND IMPROVED SUSTAINABILITY IN EMERGING LOW TROPHIC, AND EXISTING LOW AND HIGH TROPHIC AQUACULTURE VALUE CHAINS IN THE ATLANTIC (FUTUREEUQUA - FUTURE GROWTH IN SUSTAINABLE, RESILIENT AND CLIMATE FRIENDLY ORGANIC AND CONVENTIONAL EUROPEAN AQUACULTURE)
- 12:15 **Anne-Belinda Bjerre, DTU.** MACRO CASCADE - FUTURE GROWTH IN SUSTAINABLE, RESILIENT AND CLIMATE FRIENDLY ORGANIC AND CONVENTIONAL EUROPEAN AQUACULTURE
- 12:25 **Panel discussion: Low trophic production technologies and new feed resources**
What are the future bottlenecks and most promising opportunities on sustainable production of novel food, feed and added value products from alternative low-trophic resources?
**Ole Christensen, Ragnar Nystøyl, Philip James, Anne-Belinda Bjerre
Adriana Casillas (IPIFF), Albert Comas (ACUIPLUS / Mørenot)**
- 14:10 **SESSION 3 – Efficient management systems to optimize sustainability and competitiveness**
Chair and Moderator: Marta Iglesias / Miguel Lizaso, EC DG RTD
- 14:10 **Lorenzo Genari, EMPA.** SHELLFISH INDUSTRY - A LOW TROPHIC AQUACULTURE TO BE BOOSTED: OPPORTUNITIES AND CONSTRAINTS
- 14:20 **Ana Granados, FABRE.** INTRODUCING NEW BREEDING AND GENETIC TOOLS TO OPTIMIZE THE COMPETITIVENESS OF LOW-TROPHIC SPECIES
- 14:30 **António Marques, Instituto Portugues do Mar e da Atmosfera.** SEAFOODTOMORROW - NUTRITIOUS, SAFE AND SUSTAINABLE SEAFOOD FOR CONSUMERS OF TOMORROW
- 14:40 **Roberto Pastres, Universita Ca' Foscari Venezia.** GAIN - GREEN AQUACULTURE INTENSIFICATION IN EUROPE.
- 14:50 **Isabelle Arzul, IFREMER.** VIVALDI - PREVENTING AND MITIGATING FARMED BIVALVE DISEASES

15:00 **Panel discussion: Efficient management systems to optimize sustainability and competitiveness**
Sustainable, resilient, climate friendly and competitive practices through eco-intensification, intelligent management and new systems for the production of low-trophic species
Lorenzo Genari, Ana Granados, Isabelle Arzul, António Marques
David Bassett (EURASTiP), Jesper Heldbo (AquaCircle)

15:25 **Wrap-up and recommendations to fill the knowledge gaps on the future of low-trophic aquaculture**

Part II: AQUAEXCEL²⁰²⁰ BROKERAGE EVENT 2019 *From Research Innovation to Industry Application*

Chair and moderator: Courtney Hough, EATiP

15:40 **Courtney Hough, EATiP. WELCOME**

15:45 **Marc Vandeputte, INRA. INTRODUCING AQUAEXCEL²⁰²⁰ AND ITS RELEVANCE TO THE AQUACULTURE INDUSTRY**

15:55 **Stavros Chatzifotis, HCMR. EFFECT OF INSECT MEAL ON THE GROWTH OF EUROPEAN SEABASS**

16:05 **Ana Basto, CIIMAR. DEFATTED MEALWORM (*Tenebrio molitor*) LARVAE MEAL AS A SUSTAINABLE FEED SOURCE FOR EUROPEAN SEABASS**

16:15 **Jovanka Lukic, University of Belgrade. LACTIC ACID BACTERIA IMPROVES GROWTH AND REDUCES POTENTIALLY PATHOGENIC BACTERIA LEVELS IN PIKE PERCH**

16:25 **Interactive engagement through Kahoot**

16:35 **Jaume Pérez Sánchez, CSIC. Video AE-FishBIT: A SMART DEVICE FOR MONITORING FISH HEALTH AND WELFARE**

16:40 **Orestis Stavrakidis-Zachou, HCMR/University of Crete. AquaFishDEB: A FUNCTIONAL MODEL FOR FISH GROWTH, FEED INTAKE AND WASTE PRODUCTION IN AQUACULTURE**

16:50 **Josep Calduch-Giner, CSIC. EARLY LIFE MANAGEMENT PROTOCOL FOR OPTIMAL PERFORMANCE OF SEABREAM**

17:00 **Carla Piazzon, CSIC. REVELATION OF KEY MOLECULES DURING AMOEBIC GILL DISEASE (AGD) IN ATLANTIC SALMON**

17:10 **Interactive engagement through Kahoot**

17:20 **AQUAEXCEL²⁰²⁰ Perspectives from the Industry through EATiP**

Industry Panel discussion

Fernando Torrent (Madrid Polytechnic University), Arnault Chaperon (Caviar Pirinea), Kjell Maroni (Norwegian Seafood Research Fund - FHF), Hamish Rodger (Fish Vet Group), Adriana

Casillas (MealFood Europe / IPIFF), Jesper Heldbo (AquaCircle / MiP Denmark), Damien Toner (BIM & IATiP / MiP Ireland), Yolanda Molaes (ACUIPLUS / MiP Spain)

17:50 End of the sessions – Closing of the event.