

Talking with Titans

Solving The Raw Material Crisis: A Norwegian Perspective

Dr Margareth Øverland

Biotechnology processing of Norwegian spruce trees and seaweeds to produce high-quality microbial ingredients such as yeast can help increase protein supplies for aquaculture. Yeast contains about 50-55% crude protein with a favourable amino acid composition and bioactive components with beneficial health effects. Studies with Atlantic salmon showed that fish perform well and had positive health effects, including improved gut barrier function, immunity, and gut microbiota composition when fed yeast-based diets. However, yield, nutritional value, and health effects of yeast depend on species, fermentation, and downstream processing conditions; thus, we have been screening yeast species and different processing conditions to achieve best results. The fermentation technology has been scaled up and a field trial with Atlantic salmon in sea cages has been performed. Results will provide important information on growth performance, health and sustainability and economic aspects of yeast as a novel feed resource for Atlantic salmon.



Dr Margareth Øverland

Professor Margareth Øverland has more than 30 years experience in animal nutrition research. She coordinated and participated in many nationally and internationally funded projects in sustainable feeds for aquaculture. Currently, she is Centre Director of the innovation centre Foods of Norway, project leader for the Resilient Salmon project, and work package leader in several projects on future aquafeeds. Ongoing research is related to developing sustainable protein and lipid sources by converting natural resources to microbial ingredients by novel technology and using functional feeds to improve health and robustness of Atlantic salmon exposed to multi-stressor conditions. Dr Margareth has BSc and MSc degrees in animal nutrition from Montana State University, USA, PhD studies at the University of Minnesota, USA, and a PhD in animal nutrition from the Norwegian University of Life Sciences (NMBU) Norway.

Programme Title	Solving the Raw Material Crisis: A Norwegian Perspective
Panellists	Dr Albert Tacon & Dr Kabir Choudhury
Moderator	Dr Fanny Yasumaru
Date	16 June 2022 (Thursday)
Time	3 pm (SG); 12.30 pm (India); 9 am (Norway)
Fee	Complimentary

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