SEMINAR

ALL ARE WELCOME

TEMASEK LIFESCIENCES LABORATORY

*Scan for address

7 Mar 2024 (Thur), 3pm
Auditorium (Level 1)

Hosted by: Dr Gregory JEDD

The Norwegian Seaweed Biorefinery Platform

Prof Finn Lillelund AACHMANN
Norwegian University of Science and Technology, Norway



Finn L. Aachmann is a Professor at NTNU - Norwegian University of Science and Technology, Norway. His background is in structure-function studies of marine polysaccharides, enzymes, and polysaccharide engineering. Prof. Aachmann heads the Norwegian Seaweed Biorefinery Platform as well as leading a research project on Alginate modifying Enzymes. He participated in the Norwegian Seaweed Center, SFI Industrial Biotechnology and GP Seaweed.

In the recent years, Norwegian research institutions have developed technology for seaweed processing, and analytical methods for characterization of seaweed biopolymers, chemicals, fibers, feed, food and bioactive compounds. To make better use of these advantages and knowledge, a national consortium has been established to coordinate efforts from research institutions and industry in developing technologies aiming at the creation of economically and environmentally sustainable seaweed biorefinery processes, and corresponding high-value and bulk product pipelines. This national research-driven knowledge-based platform includes the main research institutions on seaweed in Norway and the goal of the platform is to serve as a hub for research, knowledge, methodology and stakeholder networking. This 5-year project was launched in May 2019 and is funded by the Research Council of Norway. More information and publications can be found under: http://seaweedplatform.no/.

Recent Publications:

1. An assessment of physical and chemical conditions in alginate extraction from two cultivated brown algal species in Norway: Alaria esculenta and Saccharina latissimi. Nøkling-Eide, K., Langeng, A.-M., Åslund, A., Aachmann, F. L., Sletta, H., Arlov, Ø. Algal Research (2023), 69,102951 doi: 10.1016/j.algal.2022.102951
2. Sequential extraction and fractionation of four polysaccharides from cultivated brown algae Saccharina latissima and Alaria esculenta. Birgersson, P.S., Oftebro, M., Strand, W.I., Aarstad, O. A. O., Sætrom, G. I., Sletta, H., Arlov, Ø., Aachmann, F.L. Algal Research (2023), 69,102928 doi: 10.1016/j.algal.2022.102928
3. Acid preservation of cultivated brown algae Saccharina latissima and Alaria esculenta and characterization of extracted alginate and cellulose. Nøkling-Eide, K., Tan, F.C., Wangf, S., Zhou, Q., Gravdahl, M., Langeng, A.-M., Bulone, V., Aachmann, F. L., Sletta, H., Arlov, Ø. Algal Research (2023), 71,103057 doi: 10.1016/j.algal.2022.102951.