



# Norwegian seaweed Biorefinery Platform

Newsletter #3  
December 2020

## Leader News

With our third and last newsletter this year it is time for a small retrospect of 2020. Even with the Covid-19 situation we managed to handle the seaweed harvest and are now summing up all results from the experimental work. We are also collecting the results of the first national sampling campaign. In the autumn we hired 1 Post Doc and 4 PhDs to SBP-N, and several associated projects and PhD candidates to the platform have started this year.

With a huge potential for a lot of good seaweed related research in the coming year, I wish you all 'Glædelig jul' and look forward to continue our good collaborations in the coming year.

## Stakeholder News

### Join the seaweed revolution

SJY seaweed are releasing two new seaweed based chips to the market. Check them out at [sjyseweed.no](http://sjyseweed.no)



## Latest News

### Further analytical analyses now available

The analytical analyses of the platform continue to expand. Now it is possible to analyze both inorganic and organic arsenic. The analytical analyses are available at SINTEF Industry.

### More PhD candidates are joining the platform

There are two new PhD candidates commencing at NTNU. Their work will focus on biorefinery of seaweed and Fucoidan. A PhD candidate will start at SINTEF Industry working with products and bioactive components of seaweed. In addition, there are also two associated PhD candidates both sponsored by Nutrimar. They will work with seaweed as a source for functional feed ingredients and its effect.

### An open report on seaweed preprocessing

Seaweed preprocessing report soon be available on our web page. This Report sums up the experience with chemical and biological conservation as well as thermal conservation. Furthermore, the experience with storage in seawater and air are presented.

### Is seaweed a sustainable crop for the future?

Financial Times have visited Seaweed Solutions and SINTEF to look into the possibilities of farming seaweed crops in Norway to satisfy the growing demand for food and animal feed.

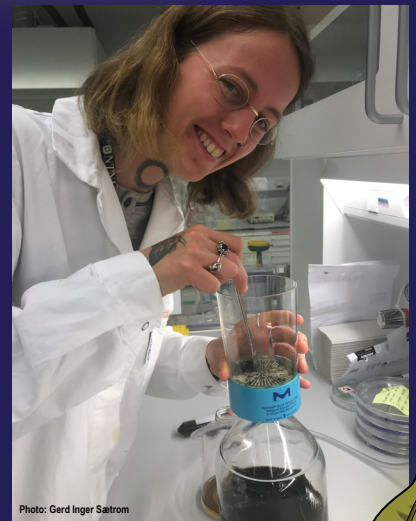


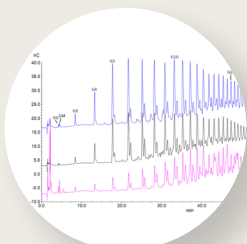
Photo: Gerd Inger Sætrum

PhD candidate Maren Oftbro jumping straight into the lab to gain some experience processing seaweed.



Photo: SINTEF

## Latest publications



Exploiting Mannuronan C-5 Epimerases in Commercial Alginate Production

[Read more](#)

[doi.org/10.3390/md18110565](https://doi.org/10.3390/md18110565)



A New Network for the Advancement of Marine Biotechnology in Europe and Beyond

[Read more](#)

[doi.org/10.3389/fmars.2020.00278](https://doi.org/10.3389/fmars.2020.00278)

### A deeper understanding of aliginate lyase reactions

Lyases are enzymes that can be used to break polymers, such as alginate, into smaller products. We are now gaining more insight into these products. The unsaturated aliginate monomer rearrangement that occurs after lyase reaction has been clarified.