

# SC2 and KET-B Brokerage Event

Food Security | Sustainable Agriculture and Forestry | Marine, Maritime  
and Inland Water Research | Bioeconomy | KET-Biotechnology |

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**NORD**  
University

Blue Growth and KET-Bio

## Macroalgae: alternative source of nutrients and bioactive compounds

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[www.ncp-biohorizon.net](http://www.ncp-biohorizon.net)

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#BioBrokerage

## Why are seaweeds interesting?

- No competition for land area and fresh water: sunlight + nutrients from sea
- Contain nutrients and compounds of interest for different industries
- Opportunity for biobased economy and new value chains

## Why is Northern Norway interesting for the seaweed industry?

- Long coast (100 000 km) and available area for diversification in aquaculture
- Arctic conditions:
  - waters with little impact from settlements and industry
  - light and climatic conditions
  - later fouling with organisms of various kinds - longer harvest periods – larger production

## FBA's expertise

- Conservation of macroalgae to preserve the nutritional and bioactive properties of macroalgae
- Studies of biological effects - digestibility, growth and bioactivity (immunostimulatory effects, intestinal health, microbiota)

## Possible topic/topics you wish to participate in

- New value chains (BG-08C-2019 – C)
- Bioactivity (SFS-11B-2019)
- Alternative sources of nutrients (LC-SFS-17-2019)
- Circular bioeconomy (CE-RUR-10-2019)
- Sustainability (DT-BG-04-2019)



## Involvement in projects in the area

- Natural sources of antioxidants – a necessity for organic animal health and welfare and product quality
- Antibacterial effect of arctic macroalgae species
- Legumes and seaweed as alternative protein sources for sheep
- Preserving macroalgae for industrial purposes
- Energy efficient PROcessing of MACroalgae in blue-green value chains
- Preserving macroalgae for industrial purposes
- Optimization of ensiling as a method for preserving macroalgal biomass (OpEnMac)
- Studies on ensiled macroalgae as a bioactive feed additive



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<https://www.nord.no/en/about/faculties-and-centres/faculty-of-biosciences-and-aquaculture/Pages/default.aspx>