

Brokerage Event

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

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BioHorizon



Blue Growth + KET Biotechnology

Towards a more sustainable fish farming with smart use of microalgae/microbiomes

(DT-BG-04 2018-2019, also LC-SFS-03-2018)

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www.ncp-biohorizon.net

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Expertise: aquaculture, microalgae cultivation, phytoplankton ecology, NIVA microalgae culture collection, stakeholder engagement

Objectives:

- Use microalgae in the treatment of wastewater from land-based fish farms to improve reutilization of the water and promote alternative uses for the microalgae biomass (energy, food, feed, bioplastics...)
- This would move fish farming towards a more sustainable food system implementing circularity principles, and also increase the potential applications of the marine microbiome
- Current development in salmon farming is towards more closed and semi-closed facilities in the sea. Land-based aquaculture systems would serve as a simpler starting point for developing new methods for wastewater utilization for later implementation in sea-based closed or semi-closed systems

Topics of interest:

Fish farming

Increased circularity in fish farming

Microalgae biomass applications

Zero waste production (e.g. aquaponics)

Existing partnership:

Sogn Aqua AS, Atlantic land-based halibut farm in the Sognefjord (<http://www.sognaqua.no/>)

Required partners:

Microalgae harvesting, research and development for microalgae biomass applications

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National research institute,
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