

Nordic Centre for Sustainable and Resilient Aquatic Production (SUREAQUA)



SUREAQUA is multidisciplinary center which will provide competence, innovation and technology to ensure sustainability and resilience in aquatic and associated land-based value chains, to ultimately advance the bioeconomy transition in the Nordic region. SUREAQUA aims to make significant contributions to food and nutrient security, employment and efficient use of resources, in the context of forecasted global changes. The center is led by Fiona Provan International Research Institute of Stavanger.

The center is also an important opening for the strategic emerging research area *Aquatic Research in Changing World* in the University of Eastern Finland (UEF), creating a novel multidisciplinary network and platform for larger European level research co-operation and funding.

In the beginning of the activity of the center, we have focused in creating pilot sites for further research. Firstly, we have installed various types of photo-bioreactors which are being applied and optimized for the cultivation of microalgae in different types of wastewaters. The first results of this research have already been published in a journal (Bioresource Technology, Volume 255, May 2018, Pages 104-110). Secondly, we have participated in constructing a lab scale model freshwater aquaponics system, suitable for culturing simultaneously juvenile whitefish and different green edible plants. This kind of aquaponics system can be used for both small scale and commercial production. Additionally, we have been active in the center for defining a corresponding salt water pilot site in the North Atlantic area connected to salmon production. Our special focus has been in defining the selection of sensors, data collection and modeling.

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More detailed information can be found at:

<https://www.nordforsk.org/en/programmes-and-projects/projects/nordic-centre-for-sustainable-and-resilient-aquatic-production-sureaqua>

and in the web pages of the center of excellence:

<http://www.sureaqua.no/>