

Popular scientific project description for project funded by Ekhagastiftelsen

Popular scientific project description is to be submitted within 2 months of project grant.

Application number:	2019-49
Project title:	Seaweed, a superfood for the growing population improving the bioavailability of healthy ingredients
Receiver of grant (name, address):	Susan Løvstad Holdt DTU Food Kemitorvet 202 2800 Kgs. Lyngby Denmark
Contact / project manager:	Associate Professor Susan L. Holdt
Project start (yyyy-mm-dd): *	2020-01-01
Project end (yyyy-mm-dd): *	2021-06-30
By Ekhagastiftelsen granted sum:	1.350.000 SEK

Project description: (max 150 words)

Seaweed is a sustainable and interesting additional vegetable, and is also considered as a "superfood" with a variety of bioactive compounds.

Many studies have investigated these numerous bioactive and health effects of raw seaweed, but not in the processed form that the consumers can buy. This project will therefore develop and optimize selected commonly used processing and preservation conditions for seaweed to retain the bioactive compounds. Furthermore the compounds bioaccessibility in the human body (gastrointestinal tract model) after consumption will be evaluated and optimised. In addition, the critical compounds will be investigated; e.g. high concentrations of iodine that are a bottleneck for marketing seaweed at present. The results will be compared to the legislation and nutritional recommendations existing on this topic and disseminated to stakeholders. Seaweed from Denmark, Sweden and Maine (USA) will be studied in this collaboration between DTU Food, Chalmers University and University of Maine.

* Dates for project start and end should be the dates for which the grant is received (Not dates for total project if longer than period for which grant is received)