



Dr. Alexander Ebbing
Co-founder

"We are on the brink of the fastest, deepest, and most impactful disruption in the food and bio-based raw materials industry in human history. Seaweed aquaculture will play a central role in this transition. I want to contribute to this new world and roll up my sleeves to help others make this transition a success. For everyone."



Core Competencies

- Global expert in precision kelp farming
- Lateral thinker
- Team player
- Teaches and inspires

Work experience

2024: Co-Founder @ Ebbing Tides

Using more than a decade worth of experience to aid seaweed farmers and scale the seaweed industry.

2023: Innovation lead @ Tekkoo

Innovate towards a new world in the circular economy.

Clients: Greencycl as business developer; Cosun Beet Company as Market researcher; Brabantse Ontwikkelings Maatschappij as Food-tech Strategist; Provincie Zuid Holland as Quartermaster for the Dutch Seaweed community.

2020 - 2023: Senior Scientist @ Hortimare

Responsible for the implementation of the precision kelp farming method at Hortimare.

Clients: Kelp Blue; Ocean Rainforest; Cascadia Seaweed; Atlantic MariCulture; Royal Greenland; Greenwave

2017 - 2022: PhD candidate @ NIOZ

Validating the fundamental forces behind the precision kelp farming method. During this period we also developed the first-ever Seaweed Continuous bioReactor system (SeaCoRe) for MAD gametophytes in the world.

2012 - 2016: Project lead Breeding and Tissue culturing @ Hortimare

Responsible for the development of the first European Kelp variety. Successfully farmed and maintained two seaweed farms in Norway, which were part of an Salmon IMTA.

Quotes

"Alex – Thank you for everything you have done so far, the industry and all of us need leaders such as you" – David Howitt, Atlantic Mariculture

"You have played a pivotal role in shaping this industry and supporting the "pioneers" – David Aldridge, Sintef Ocean

"Inspiring a team to innovate through problems is what you are about!!" – Adrian Macleod, SAMS

Videos

[Ideological dilemmas of food pioneers](#)

[Lifecycle control of kelp gametophytes](#)

Expertise

I have been actively pioneering various aspects of the production process in kelp farming, from farm design and harvest technology to biomass storage and biorefinery. My specialty however lies in a particularly crucial part of the production process, which is seed control and breeding. Over the past 12 years, I have co-developed a novel cultivation method that optimizes, quantifies, automates, and ultimately allows for further upscaling in kelp farming.

In recent years, I have expanded my expertise to include circular business development, value chain directorship, and start to scale-up guidance. My multifaceted field of expertise allows me to seamlessly transition between disciplines, identifying both bottlenecks and synergies in your kelp farming endeavours.

Achievements

2022 – Innovation award recipient for the SeaCoRe system - Seagriculture seaweed conference

2017 – Openmind grant recipient - NWO

Thesis

2022 – (A)biotic factors influencing MultiAnnual Delayed (MAD) gametophytes

Publications

2020 – (a)biotic factors influencing reproduction in MAD gametophytes

2021a – Seasonality in MAD gametophytes

2021b - In-culture selection in MAD gametophyte cultures

2022 – The SeaCoRe system for large scale precision kelp farming