GAPS AND BARRIERS LIMITING THE INDUSTRIAL DEVELOPMENT OF THE MICROALGAE SECTOR IN THE EUROPEAN ATLANTIC AREA
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An open discussion with experts on different topics

- Legislative gaps
- Scientific gaps
- Promising markets
- Commercial & marketing gaps
- Administrative gaps
- Technological gaps
Legislative gaps and guidelines

**Formation**
Improve knowledge of legislative staff about microalgae

**Nagoya protocol**
Create ecological footprint certification
Define regulatory framework and templates for microalgal strain import and traceability
Clearly define “domestic algae” for regulatory actions

**Food and Feed legislation**
Produce a document template for novel food production/commercialization
Define ingredients from GMO microalgae to add to the Novel Feed list
Scientific gaps and guidelines

Major gap: lack of microalgae **genomic data** interpreted by microalgae experts

Improved knowledge on **risks and prevention of contaminations**, including inter- and intraspecific interactions

Enhance validation of **proofs of concept for microalgae related products**

Improve knowledge for **biomass composition**
Promising markets

- Proteins and polysaccharides specific to microalgae (not synthesized by low-cost alternatives)
- Use of microalgae for waste bioremediation and valorization as biofertilizers
- Antimicrobial activities of microalgae and related products
- Vaccines and recombinant proteins from GMO microalgae
- Microalgal sources of food proteins

Commercial & marketing gaps and guidelines

- Decrease costs of microalgae products to increase competitiveness
- Enhance industry driven research
- Maintain marketing effort for a high quality microalgal products
- Promote marketing analysis
- Increase public funding of R&D
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Administrative gaps and guidelines

- Develop and strengthen networks between microalgae stakeholders
- Harmonize administrative procedures across agriculture, aquaculture and biotechnology

Technological gaps and guidelines

- Expertise in high scale production
- Decision supporting tools