

BIOFUELS GROUP- BIOMAR INSTITUTE

**FATTY ACID PRODUCING MICROALGAE STRAINS
CATALOG CREATION TO BE USED AS BIODIESEL**

Summary

We start with the isolation, characterization and cultivation of microalgae of different origin, with the aim of selecting strains whose growth is fast and their chemical profile of fatty acids is suitable for the production of biodiesel.

Next, we optimize the production process of the selected strains and we scale the microalgae culture up to pre-industrial stage, using open systems (open-pond) of up to 400 liters.

Finally we study the integrated utilization of the biomass obtained after the extraction of lipids, either directly as food or indirectly through its transformation by microorganisms.

Applications

- *Production of biofuels*
- *Recycling of residual microalgae biomass*
- *Recycling of by-products of the biodiesel production*

Patent application number

Priority date

References