The main vision of BYEFOULING is to provide the means for industrial, cost-effective and robust manufacturing of antifouling coatings in Europe, where SMEs are both coating components developers and production technology providers. A set of procedures, guidelines and fabrication tools will be developed, enabling short time to market for new coating concepts. The approach in BYEFOULING is to tackle the different stages of the biofouling process using innovative antifouling agents, covering surface-structured materials, protein adsorption inhibitors, quorum sensing inhibitors, natural biocides and microorganisms with antifouling properties. Encapsulation of the innovative compounds in smart nanostructured materials will be implemented to optimize coating performance and cost all along their life cycle.

Objectives of BYEFOULING

- Reduce mortality of farmed fish due to biofouling accumulation and respective control measures
- Reduce fuel costs due to drag reduction in maritime transportation and fishing vessels
- Reduce volatile organic compounds (VOCs) content in coating formulations
- Reduce risks involved in spread of fouled invasive species
- Increase operation life of floating various devices (buoys)
- Obtain coatings with extended and effective lifetime
- Reduce maintenance costs of maritime operations
Our role in the BYEFOUILING project

The AquaBioTech Group’s tasks within the BYEFOUILING project include:

- Benchmark research that define the control, risk assessment, environmental impact assessment, efficacy and performance of antifouling coatings
- Research related to the antifouling performance of antifouling agents and coatings
- Dissemination of project results and participation in networking actions
- The connection of the aquaculture industry and the project objectives
- Co-ordination of the exploitation plan of the project results
- Eco-toxicity research of the new compounds developed