

WP6 – Transfer of contaminants and effect of climate changes

WP6 Lead partner: DTU

Other partners involved: IPMA, UGent, NVI and IMARES.

WP6 Lead contact person: Kit Granby

Contact details of WP6 Leader: kgra@food.dtu.dk

Summary

The homogenized seafood, seawater, feed and sediment is sent to and analysed by the laboratories performing the different relevant contaminant determinations in WP2.

Objectives

1. Determine the carry-over of relevant priority contaminants and toxins (identified in WP3) from feed to fish (performing feeding trials on salmon, seabream and edible crab) and model accumulation and depuration of relevant compounds.
2. Assess the impact of climate change on carry-over of relevant priority contaminants from environment to seafood through experiments with seafood, using clams as case study.
3. Determine influence of plastic ingestion on level of contaminant uptake.

Tasks

Task 6.1. Study the carryover of relevant priority contaminants and toxins in feeding trials using salmon and seabream as case studies.

Task 6.1.1. Perform feeding trials to study the carryover of relevant priority contaminants trials using salmon and seabream as case studies.

Task 6.1.2. Analyze the environmental samples.

Task 6.1.3. Model the accumulation and depuration of relevant contaminants from the results of the feeding trials.

Task 6.2. Study the influence of simulated climate change on the behavior and transfer of relevant priority contaminants in marine clams.

Task 6.2.1. Perform trials to study the effect of temperature increase and ocean acidification on transfer of relevant priority contaminants from environment to clams.

Task 6.2.2. Analyze and model the environmental and homogenized clams samples for relevant priority contaminants studied.