

WP3 – Risk assessment / modeling of consumer exposure and mitigation strategies to reduce health risks.

WP3 Lead partner: UGent

Other partners involved: IPMA, DTU, ICETA, URV, AEIFORIA, AQUATT, Hortimare and Dan Salmon.

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Summary

WP3 includes a health risk analysis in order to assess the public health impact of marine environmental contaminants (including those originating from marine litter) presented in seafood. By means of a probabilistic exposure assessment for different European Member States, it is the goal to assess the health risks related to seafood consumption. Special attention will be paid to especially sensitive subgroups of population (e.g. Children, pregnant women, and aged people)

Objectives

1. To perform a risk analysis in order to assess the impact of seafood contaminants on public health. Particularly to assess the health risks of seafood consumption based on in-depth probabilistic exposure assessment.
2. To choose the relevant priority environmental contaminants to be further studied in WPs 2, 4 and 6.
3. To investigate what kind of information is necessary and should be disseminated to the general public in order to reduce public health risks from seafood consumption.
4. To develop mitigation measures such as guidelines (handbooks, best practices manual, and brochures) or regulation to achieve safety seafood.
5. To develop and test different versions of an online tool for different stakeholders to get straight forward information about the risks and benefits of seafood consumption.
6. To characterize innovative mitigation technologies either on fish and environment at pilot scale such as phycorremediation, by measuring their impact on contaminant residues contents or mitigation from trimming the fat or from other processing like curing or marinating of the fish.
7. To evaluate the interest and the restrictions of the adopted mitigation strategies.

Tasks

Task 3.1. Consumer Survey

Task 3.1.1. Pan-European consumer survey.

Task 3.1.2. Information experiment.

Task 3.2. Human health risk assessment.

Task 3.3. Mitigation strategies involving communication.

Task 3.3.1. Development of a European consumer tool to balance risk and benefits of seafood consumption.

Task 3.3.2. Tool testing.

Task 3.3.3. Guidelines.

Task 3.4. Mitigation strategies involving industrial processes.

Task 3.4.1 Phycoremediation.

Task 3.4.2. Seafood processing.