



December 2014

[View this email in your browser](#)

FISHBOOST

The next level of aquaculture breeding

Welcome to FISHBOOST's first newsletter

There is a huge potential for making European aquaculture more efficient, profitable and more sustainable. The development of better and more breeding programmes form the basis for these improvements. The collaborative EU research project FISHBOOST moves aquaculture production to the next level, working on the six major European finfish species.

This newsletter updates you about recent developments on aquaculture breeding in the FISHBOOST project.

For more information [check out our website](#).

Launching a large number of experiments

During the first year of the FISHBOOST project, a total of 14 experiments have been initiated in six EU-countries. These experiments focus on developing tools for genetic improvement of production efficiency and disease resistance in the main farmed fish species.

The experiments are based on recording economically important traits in farmed fish populations with known pedigrees and family structures. This allows effective analysis of genomics and quantitative genetics of the traits. The experiments focus on fillet yield, feed utilization, survival, and lipid deposition in common carp, turbot, rainbow trout, gilthead seabream, and European seabass. For each species, a large number of families have been produced for the genetic analyses. [Read more](#).

BASEPOP

A tool to determine individuals or strains to be included in future breeding programmes

A new software tool has been developed to create base populations in aquaculture breeding: BASEPOP. This is one of the first tangible results of the FISHBOOST project. The tool will now be tested in practice. If you are interested in BASEPOP and want more information, please contact [Anna Sonesson](#) of Nofima.

BASEPOP is a tool which has the objective to estimate the genomic relationship within and between strains through genetic markers. The information is used to optimise individual or strain contributions to a base population for a new breeding programme.

[Read more](#).

In the spotlight:

Robbert Blonk, FISHBOOST researcher.

'Exciting to develop a method that will improve aquaculture breeding in practice!'

[Read more](#) about his experiences.



New publication

'Optimizing the creation of base populations for aquaculture breeding programs using phenotypic and genomic data and its consequences on genetic progress' in [Frontiers in Genetics](#).

By Jesús Fernández, Miguel Á. Toro, Anna K. Sonesson and Beatriz Villanueva.

We look forward to working with you in 2015!

In a few weeks time, the first year of FISHBOOST will come to an end. The consortium started several experiments and significant progress is made. The FISHBOOST team is proud on the achievements so far!

For 2015, many exciting activities are planned. We will keep you up to date on new development.

The FISHBOOST team wishes you all the best for the new year and looks forward to working with you on advancing European aquaculture in 2015!



The research leading to these results has received funding from the European Union's [Seventh Framework Programme](#) for research, technological development and demonstration under grant agreement n° 613611 - FISHBOOST.

Copyright © 2014 [FISHBOOST](#) Project, All rights reserved.

You receive this newsletter because you are on the FISHBOOST contact list or on the contact list of one of our project partners and we sincerely think you might be interested in the FISHBOOST project news. Do you wish not to receive further newsletters of FISHBOOST, please click the unsubscribe button.

[unsubscribe from this list](#) [update subscription preferences](#)

MailChimp.

This publication reflects the views only of the author, and not the European Commission (EC). The EC is not liable for any use that may be made of the information contained herein.

