

ONLINE TRAINING PROGRAMME

The Practical Application of Modern Genomics in Aquaculture Breeding Programmes

As part of its capacity building activity, PerformFISH has designed a training programme on the Practical Application of Modern Genomics in Aquaculture Breeding Programmes. This one-day remote training programme will be held on-line on April 8th 2022. The course will be based on a multidisciplinary integrated approach that will translate the outcomes of the PerformFISH project into actionable opportunities for the fin-fish aquaculture industry.

The one-day training session will consist of six training topics covering the basics of a modern genomic approach to selective breeding for efficiency traits (such as disease resistance and fillet yield) and how and why to implement these concepts in modern aquaculture farms. Attendees will have several opportunities for interaction with the speakers and to participate in dedicated question and answer sessions. The participants will also be provided with a case-study of European Sea Bass based on outputs from the PerformFish project.

The training course will be divided into three topics in the morning and three topics after lunch. The training is meant to be accessible to non-genomic experts and will be of high-relevance to any fin-fish aquaculture business currently running or who envisage establishing a breeding programme.

Detailed information

Organiser	PerformFISH
Contents	Selective breeding for aquaculture, genetics, modern genomic approaches, implementing parentage assignments in aquaculture, genetics of efficiency traits, genetic evaluation of broodstock, selecting for disease/parasite resistance, European sea bass
Instructors	Costas Tsigenopoulos, Marc Vandeputte, Sara Faggion, Dimitris Chatziplis, Stravroula Oikonomou
Target Audience	Industry experts with an intermediate to high level of experience in fish fish management (particularly European sea bass and sea bream) in aquaculture settings who are currently running or interested in running breeding programmes for fin-fish aquaculture.
Location	Online, an invitation to join the session will be sent to registrants.
Date and Time	April 8th 9.30-16.00 CEST
Registration deadline	7 April 2022. Register at here https://forms.gle/mU2UVzQ1czhkFiPjZ
Fees	Attendance is free of charge as these sessions are organised by PerformFISH
Language	English

Agenda

Time CEST	Session	
9.30	Welcome Session	
9.40	Genetic and modern Genomic approaches in aquaculture	Costas Tsigenopoulos
10.25	The bases and constraints of selective breeding	Marc Vandeputte
11.10	Implementing parentage assignment and genomic selection: methods and importance	Sara Faggion
11.55	Question and Answer Session I	
12.15	Lunch	
13.15	Genetics of efficiency traits (FCR, disease resistance, fillet yield)	Marc Vandeputte
14.00	Incorporation of GxE in the genetic evaluation of fish broodstock	Dimitris Chatziplis
14.45	Selecting for disease & parasite resistance with emphasis on the European sea bass	Stravroula Oikonomou
15.30	Question and Answer Session II	
15.50	Closing Remarks	

