

**FACE-TO-FACE TRAINING COURSE: LABORATORY
ANIMAL SCIENCE FOR AQUATIC RESEARCH FACILITIES**

DATE: 17-21 JUNE 2019 LOCATION: INSTITUTE OF MARINE RESEARCH, NORWAY

**FREE
TRAINING COURSE**



COURSE DESCRIPTION

This course will give participants an insight into the current European legislation around animal science in research and the ethical requirements to be considered when working with animals in aquatic research facilities. This course will also train researchers in effective experimental design, experimental modelling, application of sampling regimes and maintenance of aquaculture systems by focusing on topics including; ways of Reducing, Refining and Replacing fish in experiments, transfer protocols for optimal welfare and performance, water quality and welfare in aquaculture, correct fish handling and scaling, and tank size and fish management.

COURSE CONTENT

The course will consist of four days of lectures, exercises, mini seminars and site visits designed and provided by a range of experts from around Europe. Each day will focus on a specific aspect of animal science for aquatic research facilities, these include;

- Legislation, ethics and the 3Rs and welfare
- Experimental models and model animals
- Experimental fish handling
- Scaling and experimental design

During the course there will be a visit to IMR Matre Research station (<https://bit.ly/2WGca3A>) and the Austevoll research station (<https://bit.ly/2TxUHZ3>) which will include a mini seminar entitled 'From Laboratory to Industry'.

There will also be opportunities for participants to take part in modelling exercises, putting into practice skills learned from the lectures and talks provided.

COURSE ORGANISERS

The Institute of Marine Research (IMR)(Norway), with the assistance and expertise of Nofima (Norway), Nancy-Université (France), Wageningen University & Research (WUR)(the Netherlands), Norwegian University of Science and Technology (NTNU)(Norway)

**FACE-TO-FACE TRAINING COURSE: LABORATORY
ANIMAL SCIENCE FOR AQUATIC RESEARCH FACILITIES**

DATE: 17-21 JUNE 2019 **LOCATION:** INSTITUTE OF MARINE RESEARCH, NORWAY

**FREE
TRAINING COURSE**

TARGET AUDIENCE

Primarily aquaculture researchers and students and aquaculture industry stakeholders working directly with animals.

COURSE TUTORS



Name: Tom Hansen
Position: Researcher
Organisation: Institute of Marine Research
Contact details - tomh@hi.no

Tom Hansen is a leading researcher in animal science, reproduction and developmental biology and has vast experience working in aquatic research facilities.



Name: Ragnar Nortvedt
Position: Station manager
Organisation: Matre Research Station,
Institute of Marine Research
Contact details - ragnar.nortvedt@hi.no

Ragnar Nortvedt is station manager at Matre Research Station and has more than 30 years of experience in fish welfare and nutrition, both as principal scientist and from Industry

A full overview of all course tutors can be found on the website, and includes AQUAEXCEL2020 partners from Nofima (Norway), Nancy-Université (France), Wageningen University & Research (WUR)(the Netherlands), Norwegian University of Science and Technology (NTNU)(Norway)

PRACTICAL INFORMATION:

Location: Institute of Marine Research, Bergen, Norway

Date: 17-21 June 2019

Application deadline: 8 April 2019

Language of instruction & material: English

Fees: Course attendance is **FREE**, thanks to European Commission Horizon 2020 funding. Participants are expected to pay for their own travel, subsistence and accommodation.

Maximum Participants: 25

REGISTRATION:

Official registration forms and additional course information can be found on the AQUAEXCEL2020 website at: www.aquaexcel2020.eu/index.php/aquaexcel-courses/h2020-training-courses

Note: Please do not make travel arrangements unless you have received official confirmation of selection.