

FISH WELFARE ONLINE COURSE

<https://ccmar.uaig.pt/en/advanced-tech-training/fish-welfare-online-course>



DAY 1: MONDAY, 1ST FEBRUARY 2021

08:30-09:00 – Welcoming and Instructions for online-course

SESSION 1. SENTIENCE, PAIN AND MENTAL WELFARE

09:00-10:00 - **Lynne Sneddon**. Sentience and pain. Where are we now?

10:00-11:00 - **Leonor Galhardo**. Cognition and mental aspect of welfare

11:00-12:00 – **One hour break**

SESSION 2. STRESS, PHYSIOLOGY AND WELFARE

12:00-13:00 - **Marco Vindas**. Brain, neural function and welfare

13:00-14:00 - **Luis Tort**. Neuro-immuno-endocrinology of stressed fish and welfare

14:00-15:00 - **One hour break**

15:00-16:00 - **Peter Hubbard**. Sensory mechanisms & Electrophysiology

16:00-17:00 - **Pedro Guerreiro**. Methods to assess physiological stress

DAY 2: TUESDAY, 2ND FEBRUARY 2021

SESSION 3. APPLIED BIOLOGY AND WELFARE (part I)

09:00-10:00 - **João Saraiva**. Applied ethology and welfare

10:00-11:00 – **Fco. Javier Sánchez Vázquez**. Chronobiology and fish welfare

11:00-12:00 – **One hour break**

12:00-13:00 - **Marie Laure Begout**. Assessing behaviour and welfare of farmed fish

13:00-14:00 - **Neil Duncan**. Fish reproduction and breeding programs

14:00-15:00 - **One hour break**

15:00-16:00 - **Daniel Montero**. Fish nutrition, health and welfare

16:00-17:00 - **Francesc Padrós**. Fish pathology and welfare

DAY 3: WEDNESDAY, 3RD FEBRUARY 2021

SESSION 3. APPLIED BIOLOGY AND WELFARE (part II)

09:00-10:00 - **Juan Miguel Mancera**. Anesthesia, euthanasia, relaxation in fish

10:00-11:00 - **Jeff Lines**. Stunning and Slaughtering

11:00-12:00 – **One hour break**

SESSION 4. OPERATIONAL WELFARE TOOLS AND INDICATORS

12:00-13:00 - **Pablo Arechavala-Lopez**. Environmental enrichment in captive fish

13:00-14:00 - **Martin Føre**. Precision fish farming

14:00-15:00 - **One hour break**

15:00-16:00 - **Chris Noble**. OWIs in salmon farming

16:00-17:00 - **Tommaso Petoichi**. OWIs on Mediterranean marine species

DAY 4: THURSDAY, 4TH FEBRUARY 2021

SESSION 5. WELFARE CERTIFICATIONS AND POLICY

09:00-10:00 – **M. Filipa Castanheira**. Certification and evaluation of welfare

10:00-11:00 - **Ana Roque**. European legislation on welfare of fish experimentation

11:00-12:00 – **One hour break**

12:00-13:00 - **Marita Giménez-Candela**. Animal law and fish welfare

13:00-14:00- Wrap up + FAQs about the course (*i.e. practical exercises*)

**NOTE: schedule in Central European Time (CET)*

ORGANIZED BY:

