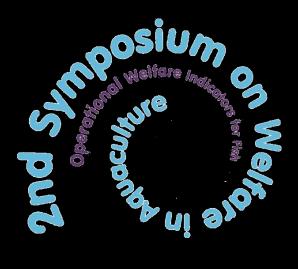
Concluding Remarks

Prof. Carlos Garcia de Leaniz Swansea University







#SWELA20 | 26 Nov 2020

Fish welfare – the challenges

1

KEYNOTE

10:00 - 10:40

Indicators of welfare status for cultured fish

Prof. Lluis Tort UAB, Spain



1. Fish are the most "used" animal, by far (30,000 million/yr)

2. Yet, their welfare needs are the least well known...what is "normal"?

3. The big game changer: <u>fish feel pain</u>... perhaps a different form of pain, but pain nonetheless (73% consumers think so)

Salmon



10:40 - 11:00

TALK 1

OWI for salmon

Dr Lars Helge Stien

IMR, Norway

1. V. challenging to measure welfare in a cage with 000s of individuals

2. Different WIs, for fish farmers it is the group that often matters the most....



3. Clear decision flow-charts and 3-alert levels have been developed for salmonids, an example adaptable to many other species...?

Lumpfish



TALK 2 11:00 - 11:20

OWI for lumpfish

Carolina Gutierrez-Rabadan Swansea University, UK

1. Little known about cleaner fish, recent species to Aquaculture

2. Importance of measuring reliability in OWIs simplification and validation



3. Practical score index (LOWSI) developed and tested: 70% are in good condition, 2% poor

Tilapia



TALK 3 11:30 – 11:50

OWI for tilapia

Dr Sonia Rey-Planellas University of Stirling, UK 1. Complex social behaviour & aggression affect welfare (*density* can be an issue)

2. Farmed mostly in developing countries where welfare needs may not be a priority



3. Few or no OWIs for the second most important farmed fish in the world!

Sea bass & sea bream





11:50 - 12:10

OWI for sea bream and sea bass

Prof. Michalis Pavlidis University of Crete, Greece

1. Each production stage faces different challenges

2. Temperature a key issue



3. Big improvements in humane slaughter

Using smart sensors - the future



TALK 5

12:10 - 12:30

Innovation on OWI using sensors

Dr Sofia Teixeira

Tyndall National Institute, Ireland



2. Smart sensors for Health and Wellbeing (not just cortisol)



3. Wide range of applications: immune, stress, growth, behaviour....

Thank you!

See you at #SWELA21

Crete

next year





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