



NATIVE LUMPFISH LARVAE

The SMARTAQUA team in collaboration with Ocean Matters

OBJECTIVE

To produce disease screened Larval lumpfish (ca. 1g) from UK broodstock captured in both south coast and Scottish waters and introduce them to the UK aquaculture market.



OUTCOME

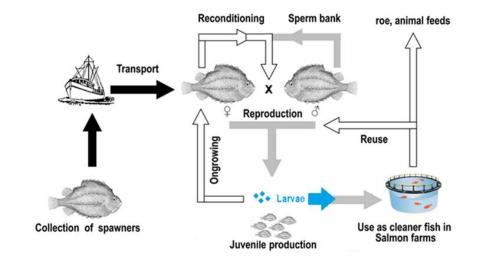
To contribute to the knowledge necessary to produce sustainable larval lumpfish sourced in UK waters, farmed in Wales for the Scottish Salmon industry.

BACKGROUND

Lumpfish provide a service to the UK salmon industry - they clean salmon off sea lice. However, the British salmon industry depends on lumpfish imported from Iceland or Norway. This project aims to reduce the need for imports from other non-UK waters. We will achieve this through a novel collaboration between Ocean Matters (the largest lumpfish producer in the UK) and the SMARTAQUA team.

ACTIVITIES

The project will consist of 6 activities involving: a) knowledge transfer; b) gaps in knowledge analysis; c) live feed larval rearing; d) larval weaning; e) sample collection for research development f) market development.









NATIVE LUMPFISH LARVAE





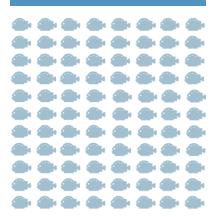
STANDARD OPERATION PROCEDURES **CONTRIBUTING TO NEW PROCESSESS**

NATIVE LUMPFISH EGGS



- 1. Degumming
- 2. Treatment with Pyceze

NATIVE LUMPFISH LARVAE



- 3. Live feed with artemia
- 4. Weaning
- 5. Transport

SCIENTIFIC PAPER



Whittaker BA, Consuegra S. Garcia de Leaniz C. 2018. **Genetic and phenotypic** differentiation of lumpfish (Cyclopterus lumpus) across the **North Atlantic: implications for** conservation and aquaculture. PeerJ 6:e5974

NEW PRODUCT: DISEASE SCREENED NATIVE LUMPFISH LARVAE

7 DISEASES SCREENED

- 1. IPNV Infectious Pancreas Necrosis Virus
- 2. ISAV Infectious Salmon Anaemia Virus
- 3. IHNV Infectious Haematopoetic Necrosis Virus
- 4. VHSV Viral Haemorrhagic Septicaemia Virus
- 5. Pasteurella
- 6. Lumpsucker virus
- 7. Nucleospora

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EMPLOYMENT INCREASE

PARTNERS COLLABORATING







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