



Università
Ca'Foscari
Venezia

PROJECT ACRONYM AND TITLE: NewTechAqua - New Technologies, Tools and Strategies for a Sustainable, Resilient and Innovative European Aquaculture

FUNDING PROGRAMME: Horizon 2020 – SC2 - Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the Bioeconomy

CALL: H2020-SC2-DT-BG-04-2018-2019 Sustainable European aquaculture 4.0: nutrition and breeding

SCIENTIFIC FIELDS: Aquaculture

HOST DEPARTMENT: Department of Environmental Sciences, Informatics and Statistics

SCIENTIFIC RESPONSIBLE: Roberto Pastres

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 6.723.843,50	€ 343.785,00

ABSTRACT:

The vision of the EU aquaculture industry is to grow substantially in the next decade and to provide annually 4.5 million tons of sustainable food products. To this aim, NewTechAqua intends to expand and diversify EU production of finfish, molluscs and microalgae by developing and validating technologically-advanced, resilient and sustainable new solutions. The organizational approach of NewTechAqua is to group the solutions in 6 different categories: feed, Industry 4.0, sustainable farming, genetics, new species and new products. They will be validated on conventional (Atlantic salmon, rainbow trout, seabass and seabream) and emerging (greater amberjack, meagre, Senegalese sole and grey mullet) finfish species, molluscs (Pacific oyster, mussel) and microalgae. NewTechAqua is structured in 9 WPs. WP1 will conceive, formulate, produce and demonstrate three innovative sets of aquafeeds (pro-health, organic, zero waste). WP2 will establish new Alepidemiological models for enhancing the control of parasite outbreaks in Norwegian and Mediterranean farms. Sustainable aquaculture will be also promoted by advanced model systems and technologies for mollusc and in-land fish farms eointensification. WP3 will develop innovative breeding programmes to improve performance, robustness and quality of farmed fish, mollusks and microalgae, while WP4 will achieve significant advances in reproduction technology of three emerging fish species. High-quality seafood products and sustainable food processing techniques for valorisation of byproducts will be validated. WP6 will develop a set of indicators to monitor and measure progress towards the expected impacts, while market uptake of NewTechAqua results and outputs will be ensured by a detailed exploitation strategy (WP7). Finally, NewTechAqua will achieve well-targeted communication, dissemination and maximum transfer of generated knowhow and project new technologies (WP8).

Planned Start date**Planned End date****01/01/2020****31/12/2023**

PARTNERSHIP:

1. ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA	IT	Coordinator
2. UNIVERSITA CA' FOSCARI VENEZIA	IT	Partner
3. INSTITUT DE RECERCA I TECNOLOGIA AGROALIMENTARIES	ES	Partner
4. HELLENIC CENTRE FOR MARINE RESEARCH	EL	Partner
5. UNIVERSITA DEGLI STUDI DI BARI ALDO MORO	IT	Partner
6. NOFIMA AS	NO	Partner
7. A.I.A. AGRICOLA ITALIANA ALIMENTARE S.P.A.	IT	Partner
8. AQUICULTURA BALEAR SA	ES	Partner
9. CROMARIS DIONICKO DRUSTVO ZA MARIKULTURU	HR	Partner
10. MARINE HARVEST ASA	NO	Partner
11. IRIDA AE-PRODUCTS FOR ANIMAL PRODUCTION-SERVICES	EL	Partner
12. RARA AVIS BIOTEC, S.L.	ES	Partner
13. AQUANETIX LIMITED	UK	Partner
14. Fédération Européenne des Producteurs Aquacoles	FR	Partner
15. CENTRE INTERNATIONAL DE HAUTES ETUDES AGRONOMIQUES MEDITERRANEENNES	FR	Partner
16. Il Vigneto soc agricola arl	IT	Partner
17. Greenovate! Europe	BE	Partner
18. INSTITUT FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER	FR	Partner
19. SYNDICAT DES SELECTIONNEURS AVICOLES ET AQUACOLES FRANCAIS	FR	Partner
20. ICHTHYOKALLIERGEIES ARGOSARONIKOU ANONYMI ETAIRIA	EL	Partner
21. MINISTRY OF AGRICULTURE, RURAL DEVELOPMENT AND ENVIRONMENT OF CYPRUS	CY	Partner
22. UNIVERSIDAD DE LAS PALMAS DE GRAN CANARIA	ES	Partner
23. THE SEAFOOD INNOVATION CLUSTER AS	NO	Partner
24. GALAXIDI MARINE FARM AE	EL	Partner
25. CONSIGLIO NAZIONALE DELLE RICERCHE	IT	Partner
26. CASALI ROBERTO	IT	Partner