



The challenge

Adriatic mariculture provides highly valued fish products for both local and distant markets. This sector can further develop thanks to new available technologies and stronger information for consumers. The sector can offer high qualification job opportunities and boost local economy.

The team

Within **AdriAquaNet** project, **4 industries, 1 consortium** and **6 research laboratories** from both **Italy** and **Croatia** are teaming up to develop and apply technologies for fish farming and marketing. This is the first ever initiative for improving the quality of fish farming and marketing by cooperation between both sides of the Adriatic Sea.

Project Partner 2

UNIVERSITY OF TRIESTE DEPARTMENT OF LIFE SCIENCES

81 teaching staff, 28 technical staff, 103 research collaborators - dsv.units.it/en

THE TEAM

EXPERTISE

A

Sabina Passamonti, Dr. med. PhD
Team manager, Leader WP2-communication

→ Medical biochemistry, pharmacology of dietary flavonoids, enzyme kinetics and inhibition. International R&I cooperation. EFSA panel expert.

B

Alberto Pallavicini, B.Sc., PhD
R&D in genetics of fish wellness

→ Genetics, ecogenomics, fish immunity, bioinformatics. Deputy rector for international relations and mobility.

C

Antonella Bandiera, B.Sc., PhD
R&D on bilirubin bioassay element

→ Molecular biology, synthetic biology, human-elastin-like polypeptides.

D

Federica Tramer, B.Sc., PhD
R&D on assay development

→ Biochemistry, enzyme kinetics, cell biology, oxidative stress, enzymatic and non enzymatic antioxidant mechanism.

E

Paola Sist, Dr. Chem., PhD,
*Research job funded by AdriAquaNet
Assay development and application
in fish serum*

→ Applied chemistry, analytics, biological sample management.

F

Anna Corrente
Financial manager

→ Financial administration and reporting.



A



B



C



D



E



F

Roles in AdriAquaNet

WP2 - Communication

Leader

WP 4.3 - Welfare monitoring

Development of an assay to monitor
bilirubin in fish serum

Analysis of stress-related
genes in fish tissues

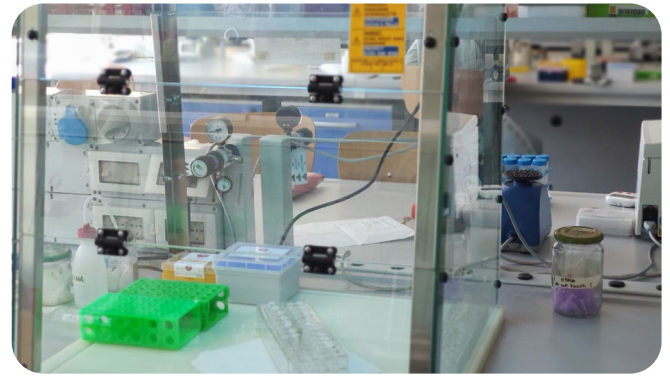
Lab 1 – Molecular biology

Leader: Antonella Bandiera

- Exploitation of recombinant DNA technology for production and analysis of **HELP*** and its conjugates.
- Production of **HUG****, a probe for the fluorimetric analysis of bilirubin in biofluids.

* Human Elastin-Like Polypeptides

** HELP-UnaG



Lab 2 – Biochemistry

Leader: Federica Tramer

- Equipped for performing **enzyme assays** in biological samples.
- Runs bioassays for **drug activity screening**.
- Performs R&D of a HUG-based **fluorimetric assay of bilirubin** in fish serum.

Lab 3 – Genomics & bioinformatics

Leader: Alberto Pallavicini

- Equipped for performing **sequencing and analysis of genomic data**.
- Runs comparative analysis of **immunity genes** in animals.
- Expression analysis of **stress-related genes in fish**.

PARTNERSHIP

RESEARCH INSTITUTES

LP UNIVERSITY OF UDINE
Dept. of Agricultural, Food, Environmental and Animal Sciences

PP1 CROATIAN VETERINARY INSTITUTE

PP2 UNIVERSITY OF TRIESTE – Dept. of Life Sciences

PP3 INSTITUTE OF OCEANOGRAPHY AND FISHERIES

PP4 ISTITUTO ZOOPROFILATICO SPERIMENTALE DELLE VENEZIE

PP5 UNIVERSITY OF RIJEKA
Faculty of Tourism and Hospitality Management

PP6 NATIONAL RESEARCH COUNCIL OF ITALY
Institute of Biomolecular Chemistry (ICB)

CONSORTIUM

PP7 KLASTER MARIKULTURA

SMEs

PP8 FRIŠKINA Ltd

PP9 ITTICA CALDOLI SARL -POGGIO IMPERIALE

PP10 ORADA ADRIATIC Ltd

PP11 FRIULTROTA DI PIGHIN Ltd

PRIORITY

Blue Innovation

DURATION

01.01.2019 - 30.06.2022

COORDINATOR

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PP2 SHARE

€ 287.737,40

