

AQUACULTURE TECHNOLOGICAL INNOVATION CENTER, **AQUAPACÍFICO**

Impact Area: Fisheries and Aquaculture.

Speciality: Applied R+D and technology-based innovation in aquaculture. Prototyping and development of solutions for the aquaculture industry. Consulting, Technology Transfer and other services to promote aquaculture entrepreneurship and capacity generation.

AquaPacífico is an aquaculture technological innovation center for the north-central area of Chile, arising from the alliance of two institutions in the scientific-productive field: the University Católica del Norte and Fundación Chile.

This technological center, through the implementation of four main lines of aquaculture work: Fish, Molluscs, Algae and Nutrition, is generating R+D+i activities in each of them, contributing with this to the development of native fish farming. in the northern part of Chile, to the strengthening of APEs, the implementation of innovative technologies for aquaculture, aquaculture diversification, adaptation to climate change, among others.

The support infrastructure for these technological lines, both for R+D and services, consists mainly of a recirculation unit (RAS), photobioreactors for the cultivation of microalgae and a pilot food plant for the prototyping of nutritional solutions.

The projects and services in which AQP is involved are: (1) In mollusks, a FIC-R that seeks to generate technology for the continuous production of oyster seeds; and a FONDEF IDEA, on molecular markers in bivalve seeds. (2) In fish, a FONDEF IDEA, on molecular markers in *Seriola lalandi* and violacea, and a service to the Atacama Yellow Tail Company that consists of the maintenance of *Seriola lalandi* reproductive stock.

(3) In algae, work is being done on a service for the company Angloamerican, whose objective is to produce macrocystis for the generation of blue carbon bonds. And (4) in Nutrition, a Pilot Food Plant is in the process of being implemented.

Research lines:

- AquaPacífico four main lines of work: Mollusks, fish, algae and nutrition.

Technological Centers



>> AGREEMENTS IN FORCE WITH
NATIONAL COMPANIES, CENTERS
AND UNIVERSITIES:

28



Technological Centers



>> CONTACT INFORMATION:

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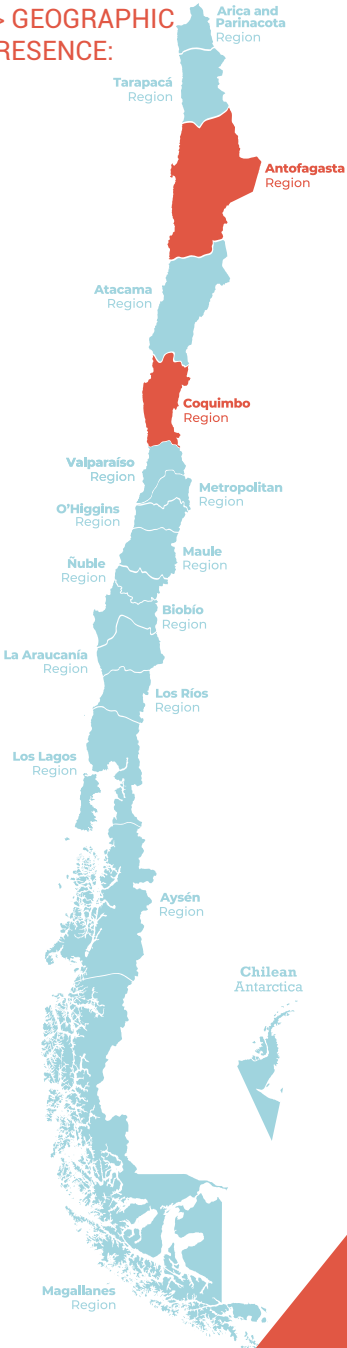


>> RESEARCHERS:

Associate Researchers:
Hernán Pérez, Katherine Alveal.

Assistant Researchers:
Pedro Toledo, Katherine Brokordt, Rodrigo Rojas, María Cristina Morales, Gonzalo Álvarez, Claudio Álvarez, Jesús Antonio López.

>> GEOGRAPHIC PRESENCE:



>> MAIN ACHIEVEMENTS:

- 6 current agreements with public and private sectors (celebrated in the period 2023 - 2024).
- 6 projects with public funding awarded.
- 2 services with companies (Atacama Yellow Tail, Angloamerican).
- National and international linkage for the development of aquaculture projects with companies such as: Cultivos Marinos San Cristóbal, Hidrocultivos, Inchalam, Atacama Yellow Tail SPA SeaCorp (Peru), Tilap Group (Saudi Arabia), Living Seas (USA), among others.



>> LINKS WITH COMPANIES OR OTHER SECTORS OF SOCIETY:

- The center's dissemination activities have focused on promoting instances of exchange and transfer of knowledge, opening spaces for conversation, connection and loyalty, as well as generating opportunities for the articulation and construction of collaborative work networks with different actors with which AquaPacífico relates in the aquaculture field. In this context, the center permanently holds seminars focused on academics, researchers, higher education students and decision makers. Added to this are the various workshops aimed at Small Scale Aquaculturists, aquaculture companies and students from the Tongoy High School in professional technical training in aquaculture, in addition to participation in various fairs linked to marine sciences.