

# C404 Lab of Microbiology & Cell Biology

The Lab of Microbiology and Cell Biology represent a strategic research and training infrastructure dedicated to microbiological, cellular, and molecular sciences.

## Our vision

To establish a leading lab for environmental microbiology and cellular research, integrating microbiological, physicochemical, and molecular approaches to support comprehensive environmental assessment and scientific innovation.

## Our impact

Through the integration of environmental microbiology, physicochemical analysis, and advanced molecular methodologies, the Lab of Microbiology and Cell Biology make a substantial contribution to environmental monitoring, scientific advancement, and high-level academic and professional training.



**C404**

Laboratory of Microbiology  
and Cell Biology

## Research focus areas

**01.** Environmental water quality assessment and microbial community dynamics

**02.** Interactions between physicochemical parameters and microbial processes

**03.** Environmental microbiology of marine, river, and lagoon systems

**04.** Molecular and cellular analysis of environmental and biological samples

## What we aim to achieve

**01.** Strengthen scientific excellence in environmental microbiology and cell biology

**02.** Support integrated analysis of physicochemical and microbiological water quality

**03.** Advance the application of molecular and cellular laboratory methodologies

**04.** Ensure rigorous, standardized, and reproducible scientific research practices



## Services for partners and external stakeholders

01. Microbiological and physicochemical assessment of water systems
02. Environmental monitoring and data interpretation
03. Access to advanced molecular and cellular lab infrastructure
04. Training, capacity building, and academic collaboration

## Our core fields of operation

01. Environmental microbiology; Microbiological and physicochemical analysis of marine, river, and lagoon waters
02. Water quality monitoring and ecological assessment; Microbial indicators and biogeochemical processes
03. Cell biology and cellular stress responses
04. Molecular biology and biomolecular analysis
05. Integrated environmental and lab-based research

