

# MIC-MAC

## Coral reef-associated microorganisms: a forgotten and vulnerable hotspot biodiversity

### PROJECT COORDINATOR

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### GEOGRAPHICAL DEPLOYMENT

Mayotte island

### DURATION

28 months  
August 2015 /  
December 2017

### FINANCING

Fondation Total

### OVERALL BUDGET

100 000 €

### MARBEC REPRESENTATIVE

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### MARBEC TOPICS

– Micro-organisms  
and interactions  
with macro-organisms

### BUDGET FOR MARBEC

100 000 €

### OBJECTIVES

Fish and corals are among the most emblematic species of the high biodiversity found in coral reefs. However, microbes account for most of the diversity of life on our planet. We hypothesize that due to the difference in surface microbial diversity between macro-organisms species, the global surface microbial diversity is higher than the one present in the water and on the sediment and rocks. We will:

- Explore which lineages of microbes and their associated functions live at the surface of reef macroorganisms.
- Assess whether they differ and have higher diversity from the microbes living in the water column or on the sediment and rocks.
- Model the degree of vulnerability of microbial biodiversity associated to macroorganisms to two different anthropogenic disturbances (global warming and overfishing).

### 4 PARTNERS

#### CNRS (France)

*Centre National de la Recherche Scientifique*

#### IRD (France)

*Institut français de recherche pour le développement (UMR MARBEC et ENTROPIE)*

#### UM (France)

*Université de Montpellier*

#### CUFR (France)

*Centre Universitaire de Formation et de Recherche de Mayotte*

