

# OLIVIER COLLARD

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## TECHNICAL SKILLS

- **Genomics:** PCR, DNA library, DNA extraction, Electrophoresis
- **Bioenergetic:** Photosynthetic parameters measurement
- **Field:** Fieldwork in multiple reef, setting up heat stress systems for coral experiments
- **Computational:** Programming languages (R, Python, git)

## EXPERIENCE

### Graduate Research Assistant

Smithsonian tropical institute (Republic of Panama)

10/2022-10/2023

*Pocillopora* spp. Symbiodiniaceae assemblage variation with temperature and salinity fluctuations across the TEP of Panama  
DNA extraction on 500 coral samples. PCR. DNA sequencing. Fieldwork on multiple reefs. Respirometry and Photosynthesis measurement on coral samples. Test of metabolic responses under temperature and salinity stress.

Adv : Dr. Matthieu Leray, Dr. Diana Lopez.

### Undergraduate Research Assistant

University of Liège (Belgium)

3-9/2022

Evaluation of the impact of temperature and light on bioenergetics (photosynthesis/respiration) in corals.

Protein analysis on gel NPAGE. Long-term/short-term thermal and UV stress on corals using a closed aquarium setup. Analysis of photosynthetic activity. HPLC. Statistical analysis on R.

Adv : Dr. Pierre Cardol.

### Undergraduate Research Assistant

University of Liège (Belgium)

2/2022

Internship

Measurement of ROS production by Symbiodiniaceae under light stress. Realization of protein analysis by WESTERN BLOT. Measurement of Chlorophyll content. Cell counting. Cultivation of Symbiodiniaceae. Spectrometry.

Adv : Dr. Stephane Roberty.

### Undergraduate Research Assistant

University of Terengganu (Malaysia)

2-6/2021

Identification of marine antifouling compounds from marine resources.

Isolation and culture of bacteria from sponges. Extraction of crude extract. Microbial culture using the air membrane surface technique. Antifouling activity test. Thin-layer chromatography.

Adv.: Dr. Ismail.

### Undergraduate Research Assistant

University of Mons (Belgium)

2-6/2021

Internship

Histological cuts of 50 starfish podia samples using a microtome. Immunolabelling of proteins contained in the podia. PCR. Electrophoresis

Adv.: Dr. Flammang.

## EDUCATION

- M.S. Oceanography. University of Liège, Liège, Belgium 2020-2022
- B.S. Biotechnology. Higher Education Institution of Condorcet, Ath, Belgium. 2017-2020

## AWARDS

- Erasmus+ scholarship \$7.200

## CONFERENCE PRESENTATIONS

- Annual Fellows's Symposium 2023 (Smithsonian Tropical Research Institute (Panama))

## OTHER SKILLS

**Languages** English: professional proficiency. French: native. Spanish: conversational.

**Licence** PADI Advanced open water Diver (15 dives)