



# CELIA KOELLSCH

ACADEMIC CV

## PROFIL

I'm currently doing a CNRS PhD in parasitology at the University of Perpignan. I hold a Master's degree in Biodiversity, Ecology and Evolution, with a specialization in the marine environment, and have had the opportunity to develop my skills through various internships in parasitology and metagenomic analysis. In the future, I'd like to specialize in this field and pursue research.



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## TRAINING

**Two-year university degree in technology** Biological engineering, environmental option

**Bachelor of Science 2 & 3** Biology of organisms - animal behaviour option

**Master 1 & 2** Biodiversity, Ecology and Evolution option FOGEM

## QUALIFICATIONS

### LABORATORY PRACTICES

R STUDIO - QGIS - MEGA X - NESI - QIIME2

POPULUS - GENBANK

POWERPOINT - WORD - EXCEL - CANVA

PHOTOFILTRE - CLIPSTUDIO - IMAGEJ

## EXPERTISE

SAMPLING - TAKING SAMPLES

DNA/RNA EXTRACTION - DNA QUANTIFICATION

PATHOGEN IDENTIFICATION

REPORT WRITING

AUTOPSY - DISSECTION

## PROFESSIONAL EXPERIENCE

### HEALTH MONITORING COURSE IN THE ILE DE FRANCE REGION

- National study in cooperation with the ELIZ under the supervision of Mr. Karim DAOUD
- Sanitary surveillance of the Ile de France region in terms of zoonoses
- Calculation of the prevalence of multilocular echinococci on autopsied bodies of red foxes (*Vulpes vulpes*)
- Autopsies and dissections, various bacteriological, virological and mycological analyses, etc.

LRSFS

INSTITUTE FOR RESEARCH AND DEVELOPMENT OF BONDY

3 MONTHS IN 2019

### INTERNSHIP IN BACTERIOLOGY METAGENOMIC ANALYSIS

- Metagenomic analysis of the microbiome of salmonid communities in British Columbia (West Coast of Canada) using Nanopore technology.
- Water analysis, identification of pathogens (viruses, bacteria, fungi, parasites) in salmonids
- Microbiological practices (DNA/RNA extraction, DNA quantification, PCR analyses, dqPCR...)

BC CAHS

CAMPBELL RIVER - CANADA

2 MONTHS IN 2022

### INTERNSHIP IN PARASITOLOGY METAGENOMIC ANALYSIS

- Metagenomic analysis of the microbiome of acanthocephalan parasites and marine amphipods from New Zealand (Otago Region)
- Evaluation of the role of the microbiome in the phenotypic variability of the amphipod *T. serrulata* parasitized by acanthocephalans compared with uninfected amphipods.
- Microbiological practices (DNA/RNA extraction, DNA quantification, PCR analyses, sequencing, etc.)
- Bioanalysis using R studio software and the Qiime2 software package via the Jupyter platform.

DEPARTMENT OF ZOOLOGY - PARASITOLOGY

DUNEDIN, NEW-ZEALAND

6 MONTHS IN 2023