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Summary

Mangrove ecosystems are considered a natural source of methane emissions to the atmosphere contributing to climate change. The aim of this study will be to identify the microbial community related to the methane cycle in soil of coastal wetlands throughout a salinity gradient and its relation with physicochemical variables that influence the carbon cycle.

The presence of methanogens bacteria due to reducing conditions of coastal wetlands is expected. Quantitative data of methane activity in soil of these ecosystems by sediment incubation experiments identifying driving variables related to the carbon cycle will be obtained.

Research Expertise

- Mitigation of climate change
- Carbon storage
- Carbon sequestration
- Mangroves