Youth Connect

Youth Community Resilience to Climate Change in the Mekong Delta (Y-CoRe)

Watergreen

Project background

Environmental pollution, especially water pollution, has been increasing due to various sources of agricultural, industrial and domestic activities, particularly domestic wastewater. In response, the team proposed a project aimed at mitigating water pollution. The project targeted high school and university students in Can Tho City, aiming to raise awareness and provide knowledge on this issue.

The project surveyed and analysed nitrite and phosphate pollution levels in wastewater at several locations in downtown Can Tho City. Based on these findings, microorganisms were used to reduce nitrite and phosphate concentrations, which are the main causes of algal blooms. Necessary research was conducted in the Laboratory of Cell and Molecular Biology, Faculty of Natural Sciences, Can Tho University.

Project objectives

The project aimed to raise awareness among students and provide the necessary knowledge and solutions to limit water pollution.

Project overview

The project completed the following activities:

- quantified the concentrations of nitrates and phosphates in two lakes in Can Tho City
- assessed the growth and nutrient absorption capacity of microbial strains in wastewater samples

- promoted the project through collaboration with other initiatives under the Youth Community Resilience to Climate Change in the Mekong Delta (Y-CoRe) project, and by posting project updates on social media platforms.

Outstanding outcomes

Phosphate and nitrate concentrations were measured, and several physico-chemical parameters of wastewater samples were taken from Bung Xang Lake and a canal along Mac Thien Tich Street in Can Tho City.

The absorption capacity of four microbial strains for nitrates and phosphates were tested under laboratory conditions in the Molecular Biology Laboratory, Faculty of Natural Sciences, Can Tho University.

In order to facilitate promotion, the team collaborated with GreenEng under the Youth Community Resilience to Climate Change in the Mekong Delta (Y-CoRe) project.

TEAM MEMBER'S INFORMATION

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