



NATIONAL ABACA RESEARCH CENTER

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QUARTERLY RESEARCH PROGRESS REPORT QUARTER: FOURTH QUARTER (October - December, 2022)

Research Title: Field Evaluation of Bio-hardened Abaca with Plant Growth Promoting Microorganisms (PGPM) as Biofertilizers

I. Program/Project/Study Objectives

Project Objectives:

- 1. To evaluate the growth and yield performance of bio-hardened tissue-cultured abaca plantlets under field condition;
- 2. To assess the diversity of microbial population in the rhizosphere of field grown tissue-cultured abaca plantlets;
- 3. To determine the nutrient uptake of field grown abaca applied with PGPM;
- 4. To document the farmers acceptability of the field evaluation trial

Relevance to VSU & College's Thrust and Priorities: II.

Highlights of accomplishments within the quarter III.

- A. Targets for the quarter
 - Regular observation of abaca plants
 - Six (6) growth parameters gathered
 - Weeding operations on the treatment plots
 - Harvested of abaca plants
 - Encoded data

B. Highlights of accomplishments

- Observed and documented the performance of abaca on the field
- Gathered monthly data: plant height (cm), number of leaves, leaf length (cm), leaf width (cm), base circumference (cm), and number of suckers of abaca on the field
- Performed weeding operations on treatments plots, and ring weeding on farmers practice treatment
- Harvested of abaca plants
- Encoded and arranged the data of abaca

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