



QUARTERLY RESEARCH PROGRESS REPORT

QUARTER: 1st

**Research Title: Biological Activity and Chemistry of Essential Oils for
Agriculture, Pharmaceuticals and Industry**

I. Program/Project/Study Objectives:

A. Develop products with enormous agricultural, pharmaceutical, and medicinal importance thereby opening a lot of opportunities for our agricultural students, farmers, food manufacturers and medical industries.

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

A. This project will definitely respond to the objectives of the VSU Internationalization Programs especially in the aspects of increasing collaboration with foreign HEIs on research; providing access to our students and staffs for training and studies abroad; increasing the number of foreign researchers and visiting scientists in the university, establish joint degree programs with foreign universities.

III. Highlights of accomplishments within the quarter

A. Targets for the quarter

- A1. Sample collection of identified different native trees for essential oil extraction and voucher specimen by hydrodistillation.
- A2. Antimicrobial activity testing for extracted essential oils.

B. Highlights of accomplishments

- B1. Identified twenty five (25) species of native trees within VSU vicinity.
- B2. Collected leaf and bark samples and conducted hydrodistillation of identified native tree samples.
- B3. Conducted preliminary test for antimicrobial activity of essential oils obtained from the collected different tree species.