



ADVANCED RESEARCH AND INNOVATION CENTER

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ACCOMPLISHMENT REPORT

January 01 - March 31, 2022

Research projects accomplishments:

Research Title: Bioactivity and molecular characterization of lead compounds from candidate antidiabetic indigenous plants (VSU-IP-2021-6)

- 1. Checked status of chemicals and reagents after Typhoon Odette.
- 2. Checked bioactivity of identified plant extracts.
- 3. Re-collected identified plant samples for re-extraction.
- 4. Re-assayed newly extracted samples.
- 5. Checked plant samples for essential oil contents.
- 7. Finalized protocol for enzyme kinetic experiment.
- 8. Outsourced and prepared chemicals and reagents for phytochemical analysis.
- 9. Phytochemical analysis of bioactive plant extracts.

Research Title: Nanomaterial-encapsulated microbial inoculant as tuber sett coating to enhance growth, yield, and micronutrient uptake of purple yam (VSU-IP-2021-11)

- 1. Optimized encapsulation method of bacteria in nanomaterial-alginate microbeads.
- 2. Mass produced the nanomaterial-alginate microbeads in preparation for the purple yam planting season.
- 3. Collected and prepared soil samples for pH analysis.
- 4. Collected soil samples for sterilization and potting.

Research Title: Bioactivity activity and chemistry of essential oils for agriculture, pharmaceuticals and Industry (VSU-IP-2021-13)

- Checked the collected plant samples of indigenous tree species found within the Visayas State University
- 2. Air-dried the collected plant samples to be used in extracting essential oil.
- 3. Started the extraction of essential oils from the collected indigenous tree species.
- 4. Followed up procured glass wares and chemicals to be used in the project.
- 5. Hired two (laboratory aide) and one (1) laborer.

Building improvements:

- 1. Fire extinguishers in every laboratory are installed
- 2. Other building implements are installed, such as a key box, first-aid box, and suggestion box.
- 3. Lights bulbs are installed in the rooms on the third floor of the building.
- 4. A biometrics system is installed and is ready for use.



Vision:

A globally competitive university for science, technology, and environmental

Mission:

Development of a highly competitive human resource, cutting-edge scientific knowledge and innovative technologies for sustainable communities and environment.

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