

**MAJOR PRACTICE IN MICROPROPAGATION OF CARNATION
(*Dianthus caryophyllus* L.) AT BENGUET STATE UNIVERSITY**

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An undergraduate major practice manuscript presented to the faculty of the
Department of Crop Science, College of Agriculture,
Central Luzon State University in partial
fulfillment of the requirement
for the degree


**BACHELOR OF SCIENCE IN AGRICULTURE
(Crop Science - Horticulture)**

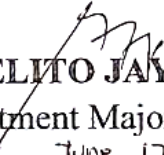
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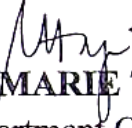
This major practice report entitled "MAJOR PRACTICE IN MICROPROPAGATION OF CARNATION (*Dianthus caryophyllus* L.) AT BENGUET STATE UNIVERSITY", prepared and submitted by JUVY ANN C. VILLENA in partial fulfillment of the requirements for the degree Bachelor of Science in Agriculture (Crop Science) is hereby accepted.


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BIOGRAPHICAL SKETCH

The author was born on August 12, 1996. She lives at #081 Pob. South, Lupao, Nueva Ecija. She is the youngest among the children of a loving couple, Mr. Nelson L. Villena and Mrs. Albelda C. Villena.

She finished her pre-elementary, elementary and highschool education at Sacred Heart Academy of Lupao, Inc. This is located at Bagong Flores, Lupao, Nueva Ecija. She was the president of the Pupils Body Organization when she was in grade six and vice president of the Student Body organization when she was in her fourth year. She was an active member of the Sacredancers. She was also a badminton and volleyball player at her school and a constant Math Quiz bee participant.

After completion of her secondary education, she decided to take the admission test at University of the Philippines and Central Luzon State University. She only passed the exam at Central Luzon State University. Her first choice was Bachelor of Science in Accountancy but she took up her second choice Bachelor of Science in Agriculture major in Crop Science with specialization in Horticulture.

She learned valuable things during her stay in the University, like perseverance and self-confidence. She was a member of the Society of Crop Science Majors which is an organization made just for Crop Science Majors.

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JUVY ANN CASITA VILLENA

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ABSTRACT

VILLENA, JUVY ANN CASITA, Department of Crop Science, College of Agriculture, Central Luzon State University, Science City of Munoz, Nueva Ecija, June 2017.

Major Practice in Micropropagation of Carnation (*Dianthus caryophyllus* L.) at Benguet State University

Venue: **Regional Tissue Culture Laboratory**
Benguet State University
Cabanao, La Trinidad, Benguet

Adviser: **Prof. Pacifico T. Vizmonte, Jr.**

This major practice with emphasis on micropropagation of carnation was conducted from December 22, 2016 to February 17, 2017 at Regional Tissue Culture Laboratory of Benguet State University in Cabanao, La Trinidad, Benguet.

The objectives of the major practice were to know the different aspects of tissue culture and gain knowledge on both experiential and technical areas and to conduct experiments to enable the MP students to: a. develop proficiency in inoculation procedures, acquire a more precise ability and technical knowledge in preparing stock solution, gain a hands-on experience in mericlone or subcloning of carnation and become familiarize with the ex-vitro acclimatization of plantlets grown from in-vitro.

The major practice student experienced laboratory activities such as preparation of stock solution, culture media and explant; inoculation of Carnation, African Violet,

Chrysanthemum, Orchid pod, Carnation and Chrysanthemum flower bud; and mericlone of Carnation and Chrysanthemum.

She also experienced working outside the laboratory like collection of explants, transplanting of survived acclimatized plantlets, weeding and sterilizing of the soil medium.

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