

NEW CONTRIBUTION OF THE STUDY

Thesis title: Research to generate promising dwarf *Dendrobium* clones by breeding combined with mutation induction and *in vitro* culture.

Field: Crop Science; **Code:** 9.62.01.10.

PhD candidate: Nguyen Van Vinh

Supervisors: Assoc Prof. Dr. Bui Van Le and Dr. Bui Minh Tri

Educational institution: Nong Lam University, Ho Chi Minh City.

Issued number of Decision of thesis evaluation committee at University level :

Date of issuing decision :

Number of Acceptance Decision:

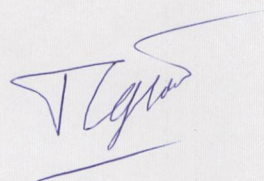
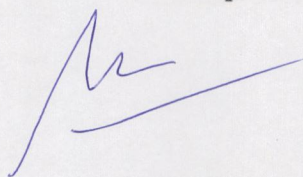
Issued date :

New findings of the thesis:

1. The thesis was a sequential and systematic research work on dwarf *Dendrobium* including breeding, selecting, evaluating as well as asexual propagation. Those studies enable to create several commercially potential *Dendrobium* lines.
2. The study applied LED lighting technology in order to optimize *in vitro* culture protocols for mutant dwarf *Dendrobium*.
3. The study is combinations between conventional and modern biotechnological techniques, between protocorm induction and protocorm mutagenesis. These combinations helped to enhanced variation rates as well as numbers of new promising *Dendrobium* lines.
4. The study established an entire procedure for creating new hybrid as well as new mutant dwarf *Dendrobium* in a short time period. Thought evaluation, the three hybrid lines and three mutants dwarf *Dendrobium* were obtained.

Supervisors

PhD candidate



Assoc Prof. Dr. Bui Van Le

Dr. Bui Minh Tri

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