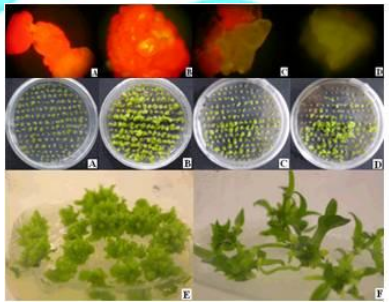
Assoc. Prof. Dr. Pattana Srifah Huehne

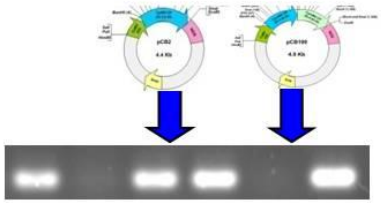
Department of Genetics

Plant Biotechnology

Orchid crop improvements for viral disease resistance



Orchid Transformation System Development



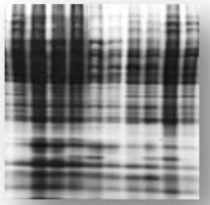
RNAi gene construction for CymMV-CP gene silencing in infected *Dendrobium* orchids

The main goal of this project is to develop the stable orchid transformation system and mediate Dendrobium and Oncidium orchid viral disease resistance to cymbidium mosaic virus and Odontoglossum ring spot virus by RNAi technology . As Orchids are one of the most economic horticulture crops in Thailand.

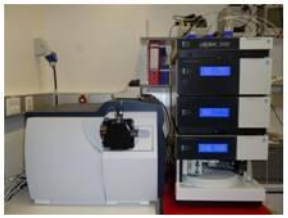
Plant Proteome

Cattleya scent orchid flower proteomic profile

Cattleya

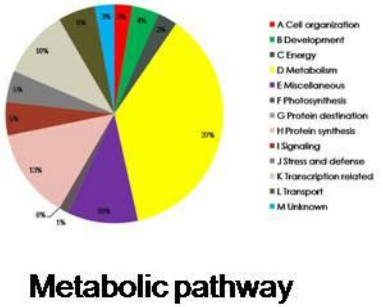


SDS-PAGE



LC/MS

Protein profile



Metabolic pathway

The aim of this project is to identify the proteomic profiles of the opened *Cattleya* Mem Tiang (scent) flowers that developmentally regulated proteome changes from dark to dawn. All proteomic profiles are analyzed by SDS-PAGE and LC/MS.

Contact: fscipns@ku.ac.th