

Name	Counterpart	Title
Sri Rahayu	Z01	Conservation of <i>HOYA</i> species in Jambi by means of ex situ conservation and public awareness

Background

Indonesian species of the genus *Hoya* (Apocynaceae: Asclepiadaceae) have the potential of being developed as ornamental plants because of their unique and beautiful flowers. Indonesia has a particularly high diversity of *Hoya* species. And several *Hoya* species are known to occur in Jambi forests as they are listed in the Jambi diversity inventory. Despite this listing, local people know little of *Hoya* or of its potential. Therefore, *Hoya* should be conserved using *ex situ* methods and knowledge on their sustainable utilization shared with local people. The aim of this project is to empower local communities through *Hoya* planting, providing training in cultivation, and also by arranging internet marketing. These activities were included in a workshop “Introduction to the diversity of *Hoya* species in Jambi, conservation and sustainable utilization”, held at the University of Jambi on November 22nd 2017. The workshop included training and *Hoya* planting (figure 1).

Result

The workshop was fruitful and those attending took away not only useful knowledge but also *Hoya* plants to grow in their homes. Representatives from the Orchid Gardens Jambi (Pemprov) and from PT WKAS would also like to conserve *Hoya* in their conservation areas.

Development of DNA barcoding techniques to identify *Hoya* has continued. Two more loci i.e. ITS1 and *trnH psbA* were included in this research. The genes *rbcl* and *matK* were used previously but these did not provide the best results. In this research, we identified ITS1 as the best barcoding locus for identifying *Hoya* species. *TrnH psbA* worked only at the genus level.



Figure 1. Welcome speech of Dr. Sri Rahayu (left) and participants of the workshop “Introduction to the diversity of *Hoya* species in Jambi, conservation and sustainable utilization” held on 22 November 2017 at UNJA (right).