

Systematics, epidermal defense and bioprospecting of wild orchids Kusuma Wati, R.

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PROPOSITIONS

Accompanying the PhD thesis Systematics, epidermal defense and bioprospecting of wild orchids **Richa Kusuma Wati**

- 1. *Glossorhyncha* Ridl. is a synonym of *Glomera* Blume this thesis, **chapters** 2&3.
- DNA-barcoding of types is essential for obtaining more information about the current distribution of poorly known species of *Glomera* – this thesis, chapter 3.
- 3. Trichomes significantly reduce the attachment of snail herbivores to orchid leaves this thesis, **chapter 4.**
- 4. An organ-based classification is phylogenetically less informative compared to a biological-response-based classification for bioprospecting of wild orchids with antimicrobial properties this thesis, **chapter 5.**
- 5. Herbarium curators should allow destructive sampling of type material with sufficient leaves to prevent species from going extinct.
- 6. Selected breeding of plants with a high density of leaf trichomes is an ecofriendly alternative to the use of pesticides.
- 7. Phylogenetic prospecting should be applied to all Indonesian orchids that can be cultivated to find alternative treatments for diseases caused by antibiotic resistant microbes.
- 8. Cultural heritage data should be disclosed more often to prepare new field explorations.
- 9. It is not the strongest of the species, nor the most intelligent, but the one most responsive to change that survives. (adapted from Charles Darwin, On the Origin of Species)
- 10. Education for women is a *conditio sine qua non* for the foundation of the next generation. (adapted from Dewi Sartika, On the Keoetamaan Istri)