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Systematics, epidermal defense and bioprospecting of wild orchids

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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.**
2. 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*)