

The 2nd Meeting of the Test Guidelines Harmonisation on Dendrobium

Busan, Korea

03 - 06 February 2015



STATUS OF ORCHIDS IN BRUNEI DARUSSALAM

Orchids Breeding Status

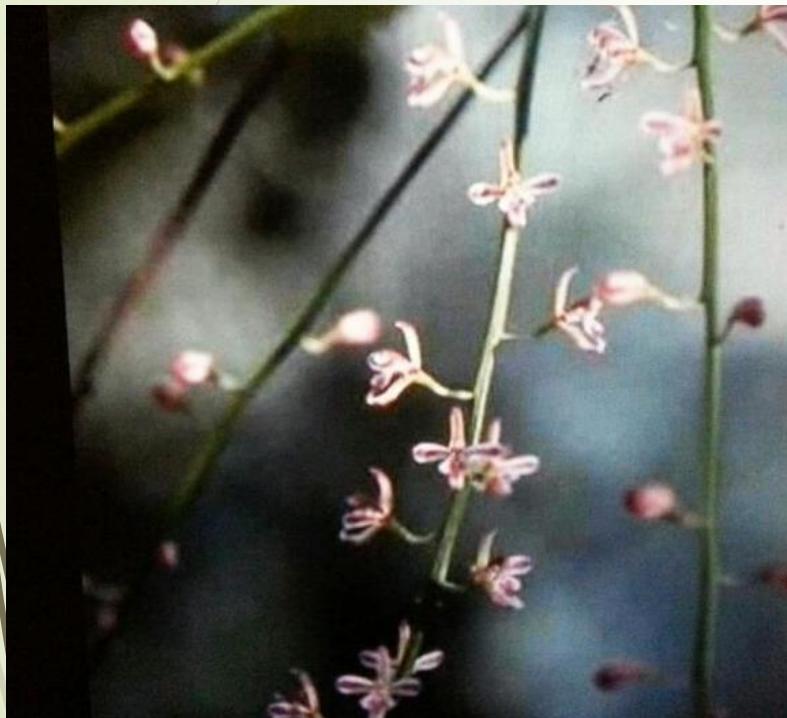
- ▶ Date of initial cross: 14 March 2014
- ▶ The total number of crosses (including replicates): 253
- ▶ Number of varieties/species used: 24
(8 local and 16 commercial varieties)

Local Species/Varieties Orchids

► Use in breeding:

| No | Local Species |
|----|----------------------------------|
| 1. | <i>Phalaenopsis pantherina</i> |
| 2. | <i>Phalaenopsis amabilis</i> |
| 3. | <i>Aerides odorata</i> |
| 4. | <i>Grammatophyllum speciosum</i> |
| 5. | <i>Phalaenopsis violacea</i> |
| 6. | <i>Cymbidium finlaysonianum</i> |
| 7. | <i>Acriopsis javanica</i> |
| 8. | <i>Cleisostoma fordii</i> |

Local Species/Varieties Orchids



Acriopsis javanica



Aerides odorata

Local Species/Varieties Orchids



Grammatophyllum speciosum



Phalaenopsis amabilis

Local Species/Varieties Orchids



Cymbidium finlaysonianum



Phalaenopsis pantherina

Commercial Species/Varieties Orchids

► Use in breeding:

| No | Commercial Species |
|----|---|
| 1. | <i>Phalaenopsis Sogo Yukidian</i> |
| 2. | <i>Phalaenopsis Lianher Beauty "M-1"</i> |
| 3. | <i>Phalaenopsis Fuller's Sunset 'ORCHIS'</i> |
| 4. | <i>Phalaenopsis Formosa Berry 'Little Pepper'</i> |
| 5. | <i>Phalaenopsis Taiwan Bat 'Black Rose'</i> |
| 6. | <i>Phalaenopsis Lightning 'New Lighten' (Mutation)</i> |
| 7. | <i>Phalaenopsis Sogo Yukidian X Phalaenopsis Taiwan Black Jack 'pink 1-2'</i> |
| 8. | <i>Phalaenopsis Shiuh-Dong Sweet Heart 'Ruby'</i> |

Commercial Species/Varieties Orchids

► Use in breeding:

| No | Commercial Species |
|-----|--|
| 9. | <i>Phalaenopsis Luchia Pink 'ORCHIS-01'</i> |
| 10. | <i>Phalaenopsis Taida Salu ' Morning Sun'</i> |
| 11. | <i>Phalaenopsis Lighting (Mutation)</i> |
| 12. | <i>Phalaenopsis Younghome Angel 'ORCHID-2'</i> |
| 13. | <i>Phalaenopsis Jiuobao Green Apple</i> |
| 14. | <i>Phalaenopsis Jiuobao Red Rose</i> |
| 15. | <i>Phalaenopsis Sin-Yaun Golden Beauty</i> |
| 16. | <i>Phalaenopsis Sogo Kitty ' Lovely kitty'</i> |

Commercial Species/Varieties Orchids



Phalaenopsis Sin-Yaun Golden Beauty



Phalaenopsis Taida Salu 'Morning Sun'

Commercial Species/Varieties Orchids



Phalaenopsis Lianher Beauty "M-1"



Phalaenopsis Luchia Pink 'ORCHIS-01'

Commercial Species/Varieties Orchids



Phalaenopsis Sogo Yukidian



Phalaenopsis younghome angel

Commercial Species/Varieties Orchids



Phalaenopsis Taiwan bat



Phalaenopsis Fuller's Sunset 'ORCHIS'

Successful combination crosses

Successful combination crosses

| Pollen Parent | Seed Parent |
|-------------------------------------|---|
| <i>Phalaenopsis amabilis</i> | <i>Phalaenopsis Taiwan bat</i> |
| <i>Phalaenopsis Luchia Pink</i> | <i>Phalaenopsis amabilis</i> |
| <i>Phalaenopsis amabilis</i> | <i>Phalaenopsis Luchia Pink</i> |
| <i>Phalaenopsis Luchia Pink</i> | <i>Phalaenopsis Sogo Yukidian</i> |
| <i>Phalaenopsis Luchia Pink</i> | <i>Phalaenopsis Lianher Beauty</i> |
| <i>Phalaenopsis Luchia Pink</i> | <i>Phalaenopsis Shiuh-Dong Sweet Heart 'Ruby'</i> |
| <i>Phalaenopsis Younghome Angel</i> | <i>Phalaenopsis amabilis</i> |
| <i>Phalaenopsis Younghome Angel</i> | <i>Phalaenopsis Jiuhbao Red Rose</i> |
| <i>Phalaenopsis Lighting</i> | <i>Phalaenopsis amabilis</i> |
| <i>Phalaenopsis Lianher Beauty</i> | <i>Phalaenopsis amabilis</i> |

Propagation via tissue culture

- ▶ Focus: Local orchids
- ▶ Objective: Conservation purpose

LOCAL ORCHIDS

Phalaenopsis pantherina

Arundina graminifolia

Spathoglottis plicata

Aerides odorata

Amabilis sp

Grammatophyllum sp

Future Plan

- 1) Registration of new orchid hybrid
 - ▶ The selected plant will then be registered to the Royal Horticulture Society (RHS) as a new orchid hybrid species.

Future Plan

- 2) Mass propagation of the new orchid hybrid
 - The new registered orchid hybrid will then be mass-propagated through tissue culture. The flowers will be self-pollinated to produce seed pods which will then be harvested and its seeds germinated. Protocol for seed germination will be the same as described in 2.3.
 - The plantlets of this new orchid hybrid produced from tissue culture will then be sold at an incentive price to potential farmers who will continue to grow them to flowering stage and be sold to the consumers.

Status of Plant Variety Protection (PVP)

- ▶ Agency administering PVP: Brunei Intellectual Property Office (BrulPO)
- ▶ Draft Plant Variety Protection Order has been finalised
- ▶ To draft PVP Rules



THANK YOU

