

# Studies on the shade culture for the ornamental ferns native in Taiwan

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## Abstract

*Doryopteris concolor* is a sciophyte, which requires shade for commercial production. The results of cultivation trial in Taitung district show the 80+50% double layers shade level had superior lamina length, lamina width, plant height and plant diameter to another shade level. There were significant difference between them.

*Cyathea lepifera* is not a sciophyte, so less shade were required for commercial production. The results of cultivation trial in Taitung district show the 40% shade level had superior lamina thick to another shade level, 60% shade level had superior stem high to another shade level. There were significant different between them, too.

As to *Angiopteris palmiformis*, which is a insensitive plant to light. Besides the number of frond per plant, other characters in plant were no significant different among 5 treatments. It is interesting that tuber of this species gradually large, according the light intensity becoming strong.

Key words: shade culture, ferns, ornamental.

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