

# Phylogenetics of DISEAE (ORCHIDACEAE)

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## Abstract

Molecular Phylogenetics Diseae (Orchidaceae) matK Diseae (Orchidaceae) are the largest and floristically most important tribe in South Africa, but their range extends to China and other parts of Asia (*Satryium*). We are using plastid matK and nuclear ITS sequences to evaluate the monophyly of tribe Diseae (Orchidaceae). We have included 34 Diseae and 24 Orchideae using four Cranichideae and Diurideae as the outgroups. Results for the plastid DNA are similar to those from ITS; they show that Diseae are paraphyletic with respect to Orchidinae, thus supporting the inclusion of all members of Diseae in the latter. Most of the subtribes of Diseae are monophyletic. Circumscription of *Habenaria* and Habenariinae remain problematic.

## About the speaker

*Tim Fulcher has been the Bioinformatics officer at Royal Botanic Gardens, Kew, for the last 5 years and is currently working on orchid molecular phylogenies. Prior to this, he did postdoctoral work on photosynthetic mechanisms in purple bacteria*

**Department of Biological Sciences  
Seminar Announcement**

*(Biodiversity and Ecology Journal Club)*

**All are welcome**

**Thurs 18 December 2003**

**4 - 5 pm**

**DBS Conference Room**

Blk S3 Level 5, Department of Biological Sciences, The National University of Singapore, Science Drive 4

Hosted by Adrian Loo

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