

# AUSTRALIAN JOURNAL OF BOTANY

A journal for papers in ecology and ecophysiology; conservation biology and biodiversity; forest biology and management; cell and molecular biology; palaeobotany; reproductive biology and genetics; mycology and pathology; and structure and development

---

**Contents**   Volume 57   Issue 1   2009

## Ecology and Ecophysiology

Phenological trends among Australian alpine species: using herbarium records to identify climate-change indicators.

*R. V. Gallagher, L. Hughes and M. R. Leishman* 1–9

Correlates of grass-species composition in a savanna woodland in northern Australia.

*K. A. Scott, S. A. Setterfield, A. N. Andersen and M. M. Douglas* 10–17

## Reproductive Biology and Genetics

The pollinators of *Eucalyptus regnans* (Myrtaceae), the world's tallest flowering plant species.

*A. Rod Griffin, Andrew B. Hingston and Clifford P. Ohmart* 18–25

*Short Communication.* A catch-all leguminous tree: *Erythrina velutina* visited and pollinated by vertebrates at an oceanic island.

*Ivan Sazima, Cristina Sazima and Marlies Sazima* 26–30

An experimental study of the pollination biology of the perennial halophyte *Frankenia pauciflora* var. *gunnii* (Frankeniaceae) in a South Australian salt marsh.

*Duncan A. Mackay and Molly A. Whalen* 31–36

Pollinator specificity, cryptic species and geographical patterns in pollinator responses to sexually deceptive orchids in the genus *Chiloglottis*: the *Chiloglottis gunnii* complex.

*Colin C. Bower and Graham R. Brown* 37–55

## Cell Molecular Biology

Involvement of nitric oxide in ultraviolet B-induced activation of phenylalanine ammoniumlyase and stimulation of flavonoid biosynthesis in *Ginkgo biloba* leaves.

*Gangping Hao, Xihua Du, Renjiu Shi, Jianmei Wang and Lei Feng* 56–64

## Structure and Development

Comparative floral ontogeny in *Adesmia* (Leguminosae: Papilionoideae: Dalbergieae).

*Maria Cecília de Chiara Moço and Jorge Ernesto de Araujo Mariath* 65–75

## Systematics

Phylogenetic relationships among southern South American species of *Camptosema*, *Galactia* and *Collaea* (Diocleinae: Papilionoideae: Leguminosae) on the basis of molecular and morphological data.

*Silvana M. Sede, Daniela Tosto, Paola Talia, Melissa Luckow, Lidia Poggio and Renée Fortunato* 76–86