

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 55 Issue 3 2007

CURRENT PERSPECTIVES IN PLANT CONSERVATION BIOLOGY

Introduction

Current perspectives in plant conservation biology.
David J. Coates and Kingsley W. Dixon 187–193

Rarity and Threat

Hierarchies of cause: understanding rarity in an endemic shrub *Verticordia staminosa* (Myrtaceae) with a highly restricted distribution.

Colin J. Yates, Philip G. Ladd, David J. Coates and Shelley McArthur 194–205

Rare plants in the Golden Gate Estuary (California): the relationship between scale and understanding.

Peggy L. Fiedler, Megan E. Keever, Brenda J. Grewell and Douglas J. Partridge 206–220

Collateral benefit: unconscious conservation of threatened plant species.

J. B. Kirkpatrick 221–224

Phytophthora cinnamomi invasion, a major threatening process to conservation of flora diversity in the South-west Botanical Province of Western Australia.

B. L. Shearer, C. E. Crane, S. Barrett and A. Cochrane 225–238

Population Biology and Genetics

Plant mating systems and assessing population persistence in fragmented landscapes.

David J. Coates, Jane F. Sampson and Colin J. Yates 239–249

Seeing the wood and the trees—predicting the future for fragmented plant populations in Australian landscapes.

Linda Broadhurst and Andrew Young 250–260

Integrating demography and fire management: an example from Florida scrub.

Eric S. Menges 261–272

The persistence niche: what makes it and what breaks it for two fire-prone plant species.

David A. Keith, Mark G. Tozer, Tracey J. Regan and Helen M. Regan 273–279

Conservation biology of banksias: insights from natural history to simulation modelling.

Byron B. Lamont, Neal J. Enright, E. T. F. Witkowski and J. Groeneveld 280–292

Scientific approaches to Australian temperate terrestrial orchid conservation.

Mark C. Brundrett 293–307

Patterns of Biodiversity

Biological survey and setting priorities for flora conservation in Western Australia.

Greg J. Keighery, Neil Gibson, Stephen van Leeuwen, Michael N. Lyons and Sue Patrick 308–315

Phylogeography provides an evolutionary context for the conservation of a diverse and ancient flora.

M. Byrne 316–325

Ex situ Conservation and Reintroduction

Seed quality for conservation is critically affected by pre-storage factors.

Robin Probert, John Adams, Julia Coneybeer, Andrew Crawford and Fiona Hay 326–335

Seed dormancy and germination stimulation syndromes for Australian temperate species.

D. J. Merritt, S. R. Turner, S. Clarke and K. W. Dixon 336–344

The contribution of *in vitro* technology and cryogenic storage to conservation of indigenous plants.

Eric Bunn, Shane Turner, Maggie Panaia and Kingsley W. Dixon 345–355

The significance of *ex situ* seed conservation to reintroduction of threatened plants.

J. A. Cochrane, A. D. Crawford and L. T. Monks 356–361

Reintroduction of rare and endangered plants: common factors, questions and approaches.

Edward O. Guerrant Jr and Thomas N. Kaye 362–370

Restoration Ecology

Managing plant populations in fragmented landscapes: restoration or gardening?

Richard J. Hobbs 371–374

Recent advances in restoration ecology, with a focus on the *Banksia* woodland and the smoke germination tool.

Deanna P. Rokich and Kingsley W. Dixon 375–389

Population-size effects on seeds and seedlings from fragmented eucalypt populations: implications for seed sourcing for ecological restoration.

Siegfried L. Krauss, Luise Hermanutz, Stephen D. Hopper and David J. Coates 390–399