Australian National Botanic Gardens

LIBRARY CONNECT

Supporting the ANBG's vision to inspire, inform and connect people to the Australian flora.

Sept 2022.

Hi all,

This month's Library Connect has the usual listing of new books and a selection of books we hold on integrated pest management.

The library is staffed Mon - Fri 9.30 - 4.30, but there are still restrictions on visitor numbers and, as the COVID situation is always evolving, please call or email before visiting. Visitors are encouraged to wear masks when possible. If you're not on site, I can be contacted by email, phone or Teams if you need assistance.

The "click and collect" boxes in the Visitor Centre are still available for returning items, and I'm very happy to leave items there for collection if that's easier than visiting the library.

Thank you,
Alex

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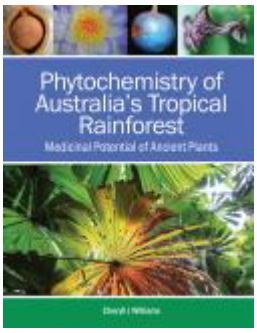
E: ANBG.Library@environment.gov.au

New books



Phytochemistry of Australia's Tropical Rainforest : medicinal potential of ancient plants / Cheryll J. Williams.

Clayton South, Vic. : CSIRO Publishing, 2021

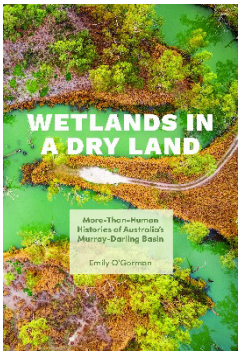
ISBN: 9781486307586

"Rare, unique and irreplaceable, precious native rainforests occupy a precariously small part of Australia while retaining a remarkable level of both biological and chemical diversity unrivalled by any other ecosystem. Australia's ancient history and traditions are intimately intertwined with the rainforest plants that humans have utilised as both food and medicine.

Phytochemistry of Australia's Tropical Rainforest *is a record of this history and details how our understanding of these plants has led to the discovery of anaesthetics, analgesics, steroids, antimalarials and more. It provides an insight into the habitat, ecology and family associations of hundreds of species and explores their future therapeutic potential, alongside phytochemical studies of the ancient plant lineages. Toxicological evaluations of important poisonous plants are also included.*

Rainforests provide shelter for unique flora and fauna that are counted among the rarest species on Earth, many of which are illustrated in this book. This comprehensive work is an essential reference for phytochemists, ethnobotanists and those with an interest in rainforests and their medicinal and botanical potential." -- Back cover.

Shelf no. **581.6340994 WIL**

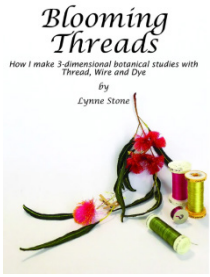
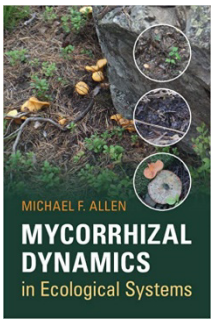


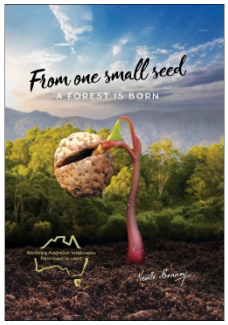
Wetlands in a dry land : more-than-human histories of Australia's Murray-Darling Basin / Emily O'Gorman.

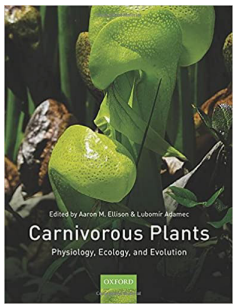
Seattle : University of Washington Press, 2021

ISBN: 9780295749037

"In the name of agriculture, urban growth, and disease control, humans have drained, filled, or otherwise destroyed nearly 87 percent of the world's wetlands over the past three centuries. Unintended consequences include biodiversity loss, poor water quality, and the erosion of cultural sites, and only in the past few decades have wetlands been widely recognized as worth preserving.

	Emily O'Gorman asks what has counted as a wetland, for whom, and with what consequences? *Using the Murray-Darling Basin, a massive river system in eastern Australia that includes over 30,000 wetland areas, as a case study and drawing on archival research and original interviews, O'Gorman examines how people and animals have shaped wetlands from the late nineteenth century to today. She illuminates deeper dynamics by relating how Aboriginal peoples acted then and now as custodians of the landscape, despite the policies of the Australian government; how the movements of water birds affected farmers; and how mosquitoes have defied efforts to fully understand, let alone control, them. Situating the region's history within global environmental humanities conversations, O'Gorman argues that we need to understand wetlands as socioecological landscapes in order to create new kinds of relationships with and futures for these places." -- Back cover.* Shelf no. **333.9180994 OGO**
	**Blooming threads : how I make 3-dimensional botanical studies with thread, wire and dye / Lynne Stone.** Marysville, Victoria : Lynne Stone, 2020 ISBN: 9780646814698 "*I spent years experimenting with machine embroidery, textile dyes, wire and a weird and wonderful collection of tools, gadgets and gizmos to evolve ways to create models of Australian native plants that look like the real thing. Now I can call myself a botanical artist even though my drawing skills are almost non-existent. This book documents my methods, not as projects for the readers to follow, but as an explanation of the results of my experiments, in the hope that others might build on them and discover even better ways to create 3-dimensional botanical studies." -- Inside cover.* Shelf no. **745.5943 STO**
	**Mycorrhizal dynamics in ecological systems / Michael F. Allen.** Port Melbourne, Vic : Cambridge University Press, 2022 ISBN: 9780521539104 *“Mycorrhizae are mutualisms between plants and fungi that evolved over 400 million years ago. This symbiotic relationship commenced with land invasion, and as new groups evolved, new organisms*

	developed with varying adaptations to changing conditions. Based on the author's 50 years of knowledge and research, this book characterizes mycorrhizae through the most rapid global environmental changes in human history. It applies that knowledge in many different scenarios, from restoring strip mines in Wyoming and shifting agriculture in the Yucatán, to integrating mutualisms into science policy in California and Washington, D.C. *Toggling between ecological theory and natural history of a widespread and long-lived symbiotic relationship, this interdisciplinary volume scales from structure-function and biochemistry to ecosystem dynamics and global change. This remarkable study is of interest to a wide range of students, researchers, and land-use managers." -- Back cover.* Shelf no. **579.517 ALL**
	**From one small seed a forest is born / Neville Bonney.** Tantanoola, SA : Neville Bonney, [2021] ISBN: 9780648390039 "From one small seed *is a comprehensive guide to Australian native plants and their seeds. Over 700 species from 63 families and 240 genera are described with their identifying features of flowers, fruits and seeds illustrated. Each species description is accompanied by a distribution map and information about pollinators, seed dispersal, seed collection, propagation, ecology and Aboriginal names and uses. Species information is supported by introductory chapters on our changing landscapes and related topics. Lavishly illustrated with photos from the field,* From one small seed *is the ideal companion for anyone engaged in the restoration of ecosystems and landscapes in southern and central Australia as well as for plant enthusiasts and people travelling this great wide land." -- Back cover.* Shelf no. **631.521 BON**



Carnivorous plants : physiology, ecology, and evolution / Aaron M. Ellison, Lubomír Adamec (eds).

Oxford : Oxford University Press, 2019

ISBN: 9780198833727

"Carnivorous plants have fascinated botanists, evolutionary biologists, ecologists, physiologists, developmental biologists, anatomists, horticulturalists, and the general public for centuries. Charles Darwin was the first scientist to demonstrate experimentally that some plants could actually attract, kill, digest, and absorb nutrients from insect prey; his book Insectivorous Plants *(1875) remains a widely cited classic. Since then, many movies and plays, short stories, novels, coffee-table picture books, and popular books on the cultivation of carnivorous plants have been produced. However, all of these widely read products depend on accurate scientific information, and most of them have repeated and recycled data from just three comprehensive, but now long out of date, scientific monographs. The field has evolved and changed dramatically in the nearly 30 years since the last of these books was published, and thousands of scientific papers on carnivorous plants have appeared in the academic journal literature. In response, Ellison and Adamec have assembled the world's leading experts to provide a truly modern synthesis. They examine every aspect of physiology, biochemistry, genomics, ecology, and evolution of these remarkable plants, culminating in a description of the serious threats they now face from over-collection, poaching, habitat loss, and climatic change which directly threaten their habitats and continued persistence in them." -- Back cover.*

Shelf no. **583.75 CAR**

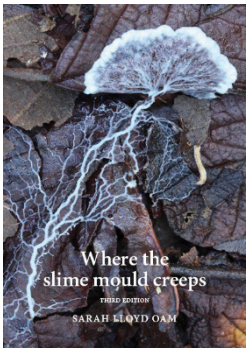
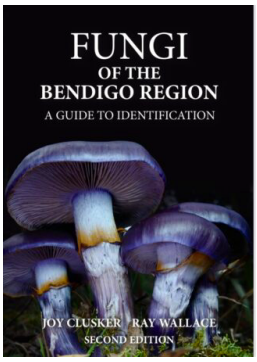
Flora of Singapore : checklist and bibliography / Singapore Botanic Gardens.

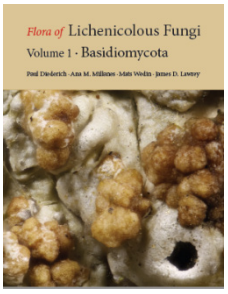
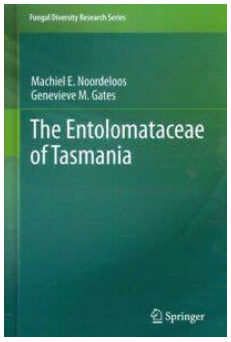
Series: Gardens' bulletin, Singapore. Supplement ; 74 (S1)

Singapore : National Parks Board : Singapore Botanic Gardens, 2022

ISSN: 0374-7859

“This checklist and bibliography include the many new records of native and introduced species that have been discovered in various habitats in recent years. Species not listed here will continue to be found and published, each one an exciting new discovery and a precious part of Singapore’s natural heritage. This checklist with its extensive bibliography will also be a valuable resource for National Parks’ ongoing Flora of Singapore *project, in which the plant diversity*

	of Singapore will be described and illustrated over 14 volumes." -- Foreword. Shelf no. **581.95957 FLO** Online : https://www.nparks.gov.sg/sbg/research/publications/gardens'-bulletin-singapore/listing-of-publications
	**Where the slime mould creeps / Sarah Lloyd.** Birralee : Tympanocryptis Press, [2020] Third edition ISBN: 9780646990347 "Where the slime mould creeps *introduces the fascinating world of myxomycetes, the slime moulds. It describes their intriguing life cycle and their important ecological roles as decomposers, nutrient recyclers and food for numerous invertebrates. It also reveals their exquisite, evocative forms through microscope and camera. This third edition includes additional species, names newly described myxomycetes, and adds more time lapse images that capture the dramatic changes in colour as the fruiting bodies mature. And it briefly notes their latest role - in early 2020 scientists designed an algorithm inspired by slime mould behaviour to track dark matter in the universe." -- Back cover.* Shelf no. **579.5209946 LLO**
	**Fungi of the Bendigo region : a guide to identification / Joy Clusker, Ray Wallace.** Strathfieldsaye, Victoria : Joy Clusker and Ray Wallace, 2022 Second edition ISBN: 9780646990804 *"At first glance the box-ironbark forest which surrounds Bendigo would not appear to be a fungus-rich habitat, nor indeed further north to the even drier Whipstick mallee. The obvious exception in our region is the damper Mt. Alexander to the east of Harcourt. The dry box-ironbark forest is however host to a surprising number of fungus species. Our list contains some 300 species which we have been able to positively identify. Further to that we have recorded an extra 200 species which have remained unidentified for various reasons. This has sometimes been merely our own inability, or at*

	other times that the species, however distinctive, just did not match anything in the literature." -- Introduction. *"This second edition contains a further 65 news species and updated names." -- Back cover.* Shelf no. **579.5099454 CLU**
	**Flora of lichenicolous fungi : Volume 1, Basidiomycota / Paul Diederich, Ana M. Millanes, Mats Wedin, James D. Lawrey.** Luxembourg : National Museum of Natural History, 2022 ISBN: 9782919877263 *"This first volume of a worldwide* Flora of Lichenicolous Fungi *deals with the Basidiomycota. A total of 197 species are accepted, described, illustrated and keyed out, and 13 additional species are shortly introduced but not formally described. They belong to the Agaricomycetes and the Tremellomycetes in the Agaricomycotina, and to the Agaricostilbomycetes, Cystobasidiomycetes and Microbotryomycetes in the Pucciniomycotina, while 2 species* incertae sedis *are provisionally treated in* Syzygospora*." -- Abstract.* Shelf no. **579.59 DIE v.1 and Supplementary material**
	**The Entolomataceae of Tasmania / Machiel E. Noordeloos, Genevieve M. Gates.** Dordrecht ; Springer, ©2012 ISBN: 9789400799042 *"This book is the result of 14 years of collecting Entolomataceae in the native forests of Tasmania, Australia. The resulting 90* Entoloma *species and 10* Clitopilus *species are well documented with standardized descriptions, line drawings of fruit bodies and diagnostic microscopic characters, and, when available, with colour photographs. Thanks to the intensive search, it was possible to illustrate most species in colour. Dichotomous keys facilitate identification of the species. The species concept used is morphologically based; in several cases, however, identification to species level is supported by molecular data. -- Back cover.* Shelf no. **579.609946 NOO**

Integrated Pest Management

ANBG Library has a collection of books on Integrated Pest Management available for loan and I have listed a selection below. Please send me an email or give me a call if you would like to borrow any of them.

1. *Garden pests, diseases & good bugs : the ultimate illustrated guide for Australian gardeners / Denis Crawford.*

Sydney, NSW, Australia : HarperCollinsPublishers Australia, 2015.

https://library.awe.gov.au/cgi-bin/koha/opac-detail.pl?biblionumber=33777

Shelf no. **635.0490994 INT**

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2. *Pests, diseases and beneficials : friends and foes of Australian gardens / F. David Hockings.*

Collingwood, Vic : CSIRO Publishing, 2014

https://library.awe.gov.au/cgi-bin/koha/opac-detail.pl?biblionumber=2682

Shelf no. **635.0490994 HOC**

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3. *Keep it clean : reducing costs and losses in the management of pests and diseases in the greenhouse.*

Sydney : NSW Dept of Primary Industries, 2009.

https://library.awe.gov.au/cgi-bin/koha/opac-detail.pl?biblionumber=32239

Shelf no. **635.049 KEE**

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4. *The good bug book : beneficial organisms commercially available in Australia and New Zealand for biological pest control / contributors Richard Llewellyn ...* [et al.]

Mundubbera, Qld. : Integrated Pest Management for Australasian Biological Control Inc., 2002.
2nd ed.
https://library.awe.gov.au/cgi-bin/koha/opac-detail.pl?biblionumber=24156

Shelf no. **632.96 GOO**