

Ryan P. O'Donnell

MYCOLOGIST & BOTANIST | PHD CANDIDATE

Research School of Biology, Australian National University

✉ ryan.odonnell@anu.edu.au | 📧 rpodonnell | 🌐 rpodonnell | 🐦 rpodonnell_

🏛️ Education

Doctor of Philosophy (Ecology & Evolution)

AUSTRALIAN NATIONAL UNIVERSITY

2022–present

Master of Scientific Studies (Biodiversity Science)

UNIVERSITY OF NEW ENGLAND

2019–2021

Graduate Certificate in Science (Biodiversity Science)

UNIVERSITY OF NEW ENGLAND

2018–2019

Bachelor of Music (Performance: Classical Voice)

SYDNEY CONSERVATORIUM OF MUSIC

2014–2017

Bachelor of Arts in Communication (Media Arts and Production)

UNIVERSITY OF TECHNOLOGY SYDNEY

2011–2013

🧠 Skills

ANALYTICAL: PHYLOGENOMICS • DIVERGENCE TIME ESTIMATION • POPULATION GENETICS • BIOLOGICAL NOMENCLATURE & TAXONOMY • DATA VISUALISATION • MORPHOLOGICAL PHENETICS

COMMUNICATIONS: GRAPHIC DESIGN • PHOTOGRAPHY • VIDEO PRODUCTION • BOTANICAL ILLUSTRATION

FIELD + LAB: DNA EXTRACTION/SEQUENCING • PLANT IDENTIFICATION • FUNGAL ISOLATION AND CULTURING

PROGRAMMING: R • BASH/UNIX • L^AT_EX

🏆 Grants

National Taxonomy Research Grant Program (NTGRP)

AUSTRALIAN BIOLOGICAL RESOURCES STUDY (ABRS)

2023

\$16,818

- Systematics of Australian mycorrhizal *Ceratobasidium* (Ceratobasidiaceae)

RSB Seed Funding Grant

AUSTRALIAN NATIONAL UNIVERSITY, RESEARCH SCHOOL OF BIOLOGY

2022

\$15,000

- Evolutionary and population ecology of *Pterostylis* (Orchidaceae) and their fungal symbionts (*Ceratobasidium*, Ceratobasidiaceae)

AOF Research Grant 348/22

AUSTRALIAN ORCHID FOUNDATION

2022

\$10,000

- The evolution and diversification of the Australian Diurideae: Understanding the influence of genome size and chromosome number (project cancelled and funds returned due to poor field season)

Hansjörg Eichler Scientific Research Fund

AUSTRALASIAN SYSTEMATIC BOTANY SOCIETY

2022

\$5,000

- An integrative taxonomic study of the *Pterostylis macrosepala* (D.L.Jones) G.N.Backh. complex (Orchidaceae; Pterostylidinae)

N.C.W. Beadle Scholarship in Botany

UNIVERSITY OF NEW ENGLAND

2020

\$1,000

📖 Peer-Reviewed Publications

FIRST-AUTHOR

O'Donnell RP, Bruhl JJ, Telford IR, Wilson TC, Zimmer H, Taseski GM, Andrew RL (2023) Molecular and morphological analyses support recognition of *Prostanthera volucris* (Lamiaceae), a new species from the Central Tablelands of New South Wales. *Australian Systematic Botany* 36, 1:1–20. doi:10.1071/SB22017.

O'Donnell RP, Wilson TC, Andrew RL, Telford IR, Taseski GM, Zimmer H, Bruhl JJ (2021) Molecular phylogenetic analysis of the *Prostanthera phyllicifolia* (Lamiaceae) assemblage resolves relationships of the 'Critically Endangered' *P. gilesii* and other putative new species. *Telopea* 24, 359–375. doi:10.7751/telopea15561.

CO-AUTHOR

Hyde KD ... Zucconi L (2023) Global consortium for the classification of fungi and fungus-like taxa. *Mycosphere* 14, 1:1960–2012. doi:10.5943/mycosphere/14/1/23.

Preprints

O'Donnell RP, Bruhl JJ, Telford IR, Wilson TC, Zimmer H, Taseski GM, Andrew RL (accepted 2023) Molecular and morphological analyses support recognition of *Prostanthera volucris* (Lamiaceae), a new species from the Central Tablelands of New South Wales. doi:doi.org/10.1101/2021.12.21.473648.

Other Publications

O'Donnell RP (2022) Book Review: Presenting Science Concisely - Bruce Kirchoff. Australasian Systematic Botany Society Newsletter. 190: 27–28.

O'Donnell RP (2022) *Love Thy Neighbour* Science Write Now #6: Natural History and Historians

O'Donnell RP (2021) *Love Thy Neighbour* Boundless Writers Festival 2021

O'Donnell RP (2021) Selling systematics with storytelling: solving taxonomy's marketing problem. Australasian Systematic Botany Society Newsletter. 188: 29–30.

O'Donnell RP (2012) *John A Douglas - Body Fluid - The Seven Cycles* Exhibition essay - Chalkhorse Gallery

O'Donnell RP (2012) *James Oram - Moments of Must Have* Exhibition essay - Chalkhorse Gallery

Conference Presentations

O'Donnell RP, Wong DJ, Peakall R, Phillips RD, Linde CC (2022) "Fungal symbiont shifts inform subtribal relationships in terrestrial orchids". International Mycological Congress 2024, 11–15 August 2024.

O'Donnell RP, Linde CC, May TW (2024) "Rise up, *Rhizoctonia*: moving to one fungus, one name in the Ceratobasidiaceae (Agaricomycetes; Cantharellales)" (Poster). International Mycological Congress 2024, 11–15 August 2024.

O'Donnell RP, Linde CC, May TW (2023) "Rise up, *Rhizoctonia*: moving to one fungus, one name in the Ceratobasidiaceae (Agaricomycetes; Cantharellales)". Biosystematics 2023, 26–30 November 2023.

O'Donnell RP, Wong DJ, Peakall R, Phillips RD, Linde CC (2022) "Detangling the Diurideae: Phylogenomics and fungal symbionts provide an updated evolutionary framework". Australasian Evolution Society 2022, 14–16 December 2022.

O'Donnell RP, Wong DJ, Peakall R, Phillips RD, Linde CC (2022) "Detangling the Diurideae: Phylogenomics and fungal symbionts provide an updated evolutionary framework". Australasian Systematic Botany Society EMCR Conference 2022, 15–16 November 2022.

O'Donnell RP, Andrew RL, Telford IR, Wilson TC, Zimmer H, Taseski GM, Bruhl JJ (2021) "Morphological and molecular evidence aid resolution of *Prostanthera phyllicifolia* s. l. (Lamiaceae)". Australasian Systematic Botany Society Annual Conference 2021, 12–16 July 2021. *Runner up: Pauline Ladiges Prize for best student presentation.*

Other Presentations & Panels

Invited Speaker & Panelist: 'An Evening With 500 Queer Scientists' World Pride 2023

Presenter: 'Walks & Talks: Orchids From Australia & Abroad' 13/08/2022

Presenter: 'Rare Plants - Large and Small' with Costa Georgiadis 12/05/2021

Panelist: Reel Science: Plants - Sydney Science Trail/National Science Week 21/08/2021

Teaching

AUSTRALIAN NATIONAL UNIVERSITY

2023 S1 **BIOL1003:** Biology 1: Evolution, Ecology and Genetics

2023 S1 **BIOL8291:** Research Presentation Skills

2022 S2 **BIOL3207/BIOL6207:** Data Science for Biologists

2022 S2 **BIOL2114/BIOL6114:** Evolution

Awards & Scholarships

- 2023 ANU University-Wide 3-Minute Thesis (3MT) Competition Grand Finalist
- 2023 ANU College of Science 3-Minute Thesis (3MT) Competition: First Place
- 2022 ANU Research School of Biology 3-Minute Thesis (3MT) Competition: People's Choice Award
- 2022 ANU Research School of Biology 3-Minute Thesis (3MT) Competition: Runner Up Prize
- 2022 Australian Government Research Training Program Scholarship (2022–2025)
- 2021 University of New England Vice-Chancellor's Scholar
- 2017 Berlin Opera Academy Robert Earl White Memorial Scholarship
- 2017 Berlin Opera Academy Elizabeth Luxon Memorial Scholarship
- 2017 Pacific Opera Young Artist Scholarship
- 2016 Estivo European Chamber Music Summer School Scholarship
- 2015 Best Comedic Film: Tampa Bay Underground Film Festival
- 2014 Best Short Film: Melbourne Underground Film Festival
- 2012 Firstdraft Gallery Emerging Writers Residency
- 2010 University of Sydney Kathleen Garnham Laurence Prize for Fine Arts

Media

Radio Interview: *Fuzzy Logic 2XXfm, Live at Floriade 2024* 15/09/2024

Radio Interview: *ABC Radio, Science Friction with Natasha Mitchell 'World Pride 2023 - Love Your Nature'* 17/02/2023

Radio Interview: *ABC Radio Evenings with Christine Anu* 21/8/2021

Podcast Interview: *Royal Botanic Garden Sydney 'Branch Out' Podcast - Starting in Science*

Interview: *The Music, With Sylvie*

Interview: *University of New England, #StudyLifeUNE*

Exhibitions

2021 **The Margaret Flockton Award**

Professional Memberships

2023–present **Australasian Mycological Society** 2020–present **Australasian Systematic Botany Society**