O'Donnell

MYCOLOGIST & BOTANIST | PHD CANDIDATE

Research School of Biology, Australian National University

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III Education

Doctor of Philosophy (Ecology & Evolution)	2022-present
Australian National University	
Master of Scientific Studies (Biodiversity Science)	2019–2021
University of New England Graduate Certificate in Science (Biodiversity Science)	2018–2019
University of New England Bachelor of Music (Performance: Classical Voice)	2014–2017
SYDNEY CONSERVATORIUM OF MUSIC	

University of Technology Sydney



Skills

ANALYTICAL: PHYLOGENOMICS ● DIVERGENCE TIME ESTIMATION ● POPULATION GENETICS ● BIOLOGICAL

NOMENCLATURE & TAXONOMY ● DATA VISUALISATION ● MORPHOLOGICAL PHENETICS

Bachelor of Arts in Communication (Media Arts and Production)

COMMUNICATIONS: GRAPHIC DESIGN • PHOTOGRAPHY • VIDEO PRODUCTION • BOTANICAL ILLUSTRATION FIELD + LAB: DNA EXTRACTION/SEQUENCING ● PLANT IDENTIFICATION ● FUNGAL ISOLATION AND CULTURING

PROGRAMMING: R • BASH/UNIX • LATEX

Grants

National Taxonomy Research Grant Program (NTGRP)

2023

2011-2013

AUSTRALIAN BIOLOGICAL RESOURCES STUDY (ABRS)

\$16,818

• Systematics of Australian mycorrhizal Ceratobasidium (Ceratobasidiaceae)

RSB Seed Funding Grant

2022 \$15,000

AUSTRALIAN NATIONAL UNIVERSITY, RESEARCH SCHOOL OF BIOLOGY

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

AOF Research Grant 348/22

2022 \$10,000

AUSTRALIAN ORCHID FOUNDATION

• 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) 2022

Hansjörg Eichler Scientific Research Fund

\$5,000

AUSTRALASIAN SYSTEMATIC BOTANY SOCIETY • An integrative taxonomic study of the Pterostylis macrosepala (D.L.Jones) G.N.Backh. complex (Orchidaceae; Pterostylidinae)

N.C.W. Beadle Scholarship in Botany

2020

University of New England

\$1,000

Peer-Reviewed Publications

FIRST-AUTHOR

O'Donnell RP, Wong DJ, Peakall R, Phillips RD, Linde CC (2024) Discordance Down Under: Combining phylogenomics & fungal symbioses to detangle difficult nodes in a diverse tribe of Australian terrestrial orchids. Systematic Biology, in press. doi:10.1093/sysbio/syae070.

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 phylicifolia (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 ... Zvyagina E (2024) The 2024 Outline of Fungi and fungus-like taxa. *Mycosphere* 15, 1:5146–6239. doi:10.5943/mycosphere/15/1/25.

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.

Q Manuscripts In Review

FIRST-AUTHOR

O'Donnell RP, Linde CC, May TW (2024) Rise up, *Rhizoctonia*: moving to one fungus, one name in the Ceratobasidiaceae (Agaricomycetes; Cantharellales). *Persoonia* - in revision.

■ 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 (2024) "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 phylicifolia 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: 'Discordance Down Under: Combining phylogenomics & fungal symbioses to detangle difficult nodes in a diverse tribe of Australian terrestrial orchids' Australasian Mycological Society (AMS) Virtual Seminar Series 31/10/2024

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



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_

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

ANU Research School of Biology 3-Minute Thesis (3MT) Competition: Runner Up Prize 2022

Australian Government Research Training Program Scholarship (2022–2025) 2022

University of New England Vice-Chancellor's Scholar 2021

Berlin Opera Academy Robert Earl White Memorial Scholarship 2017

2017 Berlin Opera Academy Elizabeth Luxon Memorial Scholarship

2017 Pacific Opera Young Artist Scholarship

2016 Estivo European Chamber Music Summer School Scholarship

Best Comedic Film: Tampa Bay Underground Film Festival 2015

Best Short Film: Melbourne Underground Film Festival 2014

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