



Fungal Network of New Zealand

New Zealand Mycological Society

Report: Fungal Foray Havelock 2024

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Disclaimer	<p>This Report has been provided in good faith and on the basis that reasonable endeavours have been made to be accurate and not misleading and to exercise reasonable care, skill and judgment in providing such information and opinions.</p> <p>Neither the Fungal Network of New Zealand (FUNNZ), nor any of its members or other persons acting on its behalf or under its control accepts any responsibility or liability in respect of any information or opinions provided in this Report.</p> <p>Collection of specimens by FUNNZ members made during the foray is conducted in areas where FUNNZ has appropriate permissions and permits from DOC, Councils, private landowners and mana whenua.</p>
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Introduction

The Fungal Network of New Zealand (FUNNZ) is an independent non-profit incorporated mycological society open to anybody; more information can be found at <https://www.funnz.org.nz/>. The objectives of the society are to share knowledge about and publicise the fungi of Aotearoa New Zealand, educate about fungi at primary to tertiary levels, stimulate and attract funding for mycological research, provide a cohesive group of amateur to professional people that share an interest in fungi, and to assist in cataloguing New Zealand's fungi and promote their conservation.

To advance these objectives the society organises an annual national fungal foray, where a different part of New Zealand is visited each year and surveyed for about a week. Sites proposed for surveys are selected to encompass a range of environments and vegetation types to maximise the likelihood of finding a wide range of fungi. Fungi are essential for ecosystem functioning, but very few of the estimated number of fungal species worldwide have been described. Investigating and cataloguing fungal diversity can help us to identify which fungi are present in New Zealand and understand their roles in different ecosystems.

The 1st NZ Fungal Foray was held in 1986, and FUNNZ maintains an archive of photos and documents collected since this first event (<https://www.funnz.org.nz/forays>). The 35 NZ Fungal Forays prior to 2024 have contributed greatly to the known diversity of fungi in New Zealand.

To identify fungi, foray participants need to collect specimens and use a variety of methods to aid identification, including microscopy, DNA sequencing and culturing. To protect collected specimens into the future and place them where they can be of most value to scientific research, foray participants will deposit collections in one of the following:

- The New Zealand Fungarium and International Collection of Microorganisms from Plants (Manaaki Whenua - Landcare Research, Auckland)
- The Otago Regional Herbarium (University of Otago, Dunedin)
- The National Forestry Herbarium (Scion, Rotorua)

These collections are the foundation of research on fungal diversity in New Zealand. Occasionally, collections may be lent temporarily to other institutions, some overseas, to add to our knowledge about these specimens and find out how they are special.

FUNNZ endeavours to have minimal impact on the environment and fungal populations in each area. When fungal fruiting bodies are collected, only a reproductive portion of the fungus is removed from the environment while the feeding and growing stage of the fungus remains underground or in the host substrate.

The 36th NZ Fungal Foray

This report presents the findings of the 36th NZ Fungal Foray held 13-18 May 2024 in Havelock, Marlborough. The 64 participants met at the Havelock Town Hall on the morning of Monday 13th May where they were welcomed with a whakatau to the area by Ruihana Lewis Smith (Ngāti Kuia) and a karakia to open the event. Ruihana gave an overview of the history, connection and importance of the area to Ngāti Kuia.

After receiving information about the areas available for surveying and collecting fungi, health and safety requirements and some housekeeping, participants were free to either begin surveying or attend a workshop for beginners held by David Whyte.

This year FUNNZ organised permits and permission to survey in the region around Havelock from 12 areas on Public Conservation Land in addition to some areas of privately owned land and all parks and reserves managed by the Marlborough District Council.

Overall, 330 specimens were collected and deposited into scientific collections: 209 specimens were added to the NZ Fungarium (PDD) and 39 cultures to the NZ culture collection (ICMP) and are fully searchable online (<https://scd.landcareresearch.co.nz/>), 13 specimens were added to Scion's Forestry Herbarium (NZFRIM), and 69 to the Otago Regional Herbarium (OTA). A full list of all specimens collected is provided in Appendix 1.

Alongside collection of specimens, participants were encouraged to record observations using iNaturalist NZ. A total of 1229 observations were recorded in the Havelock area (Figure 1), and these are fully searchable online (<https://inaturalist.nz/projects/nz-fungal-foray>). We note an increase in the uptake of iNaturalist by Foray participants during recent events, with 729 observations recorded in the previous year (Rotorua), 203 observations in 2022 (online), 219 in 2021 (Stewart Island), and 108 being the highest number of observations made during a foray prior to this (Apiti, 2015).

A separate report on Marlborough District Council reserves, with species list and fungi of special interest, was compiled by David Whyte. It is available for viewing or downloading here: <https://www.funnz.org.nz/sites/default/files/Fungi-Foray-Havelock-2024-MDC.pdf>. The report includes links to the iNaturalist observation for each species listed.



Figure 2: Fresh specimen of unnamed cup fungus in the *Helotiaceae* family; PDD 124469. Scale = 1 mm. © Landcare Research (CC BY-NC 4.0).
<https://scd.landcareresearch.co.nz/Specimen/PDD%20124469>

A collection of *Jimgerdemannia* sp. 'Murchison (PDD 106677)' was made by Anna Chinn (Figure 3). This fungus seems to be common, but Anna is only the second person to collect it in NZ. The fungus was found in a waterfall associated with liverworts, which aligns with NZ environmental sequence data showing it to be a species symbiotic with liverworts - *Treubia lacunosa* & *Haplomitrium gibbsiae* (Bidartondo, et al. (2011). The dawn of symbiosis between plants and fungi. *Biology Letters*, 7(4), 574–577.

<https://doi.org/10.1098/rsbl.2010.1203>).



Figure 3: *Jimgerdemannia* sp. 'Murchison (PDD 106677)' collected by ©Anna Chinn some rights reserved (CC BY-NC) <https://inaturalist.nz/observations/215650497>

The bracket fungus *Trametes hirsuta* was collected by Petra Gloyn from the Mt Richmond area on the Wakamarina track. This is the first specimen from New Zealand that has been confirmed with DNA sequencing as *T. hirsuta*, confirming the presence of this species in New Zealand. A related fungus collected as *T. velutina*, due to its small size and light colouration, turned out from sequencing to be *T. versicolor*, indicating that this species has a vast morphological range and throws in doubt some existing records for *T. velutina* (<https://inaturalist.nz/observations/21625121>).



Figure 4: *Trametes hirsuta* collected by ©Petra Gloyn, some rights reserved (CC BY-NC) <https://inaturalist.nz/observations/215864837>

Another interesting fungus collected by Petra Gloyn and also photographed by Ian Dickie was a white resupinate species with large pores on the underside of a log. It sequenced out at *Tyromyces* sp., closely related to *T. chioneus* (Figure 5). This genus has all but disappeared from the New Zealand database with revisions of *Tyromyces* and related genera (e.g. *Postia*, *Oligoporus*) in recent years.



Figure 5: *Tyromyces* sp. Collected by Petra Gloyn and Ian Dickie. Photo ©Ian Dickie some rights reserved (CC-BY) <https://inaturalist.nz/observations/215647724>

22nd Mycology Colloquium

The 22nd Mycology Colloquium was held on Wednesday 15th May 2024 at the Havelock Pavilion. There were 14 presentations, and the session was chaired by FUNNZ President David Orlovich. The programme with abstracts is provided in Appendix 2.



Figure 6: Attendees at the Mycology Colloquium and Fungal Foray outside the Havelock Pavilion.

School visit and outreach

Working with teacher Emma Parnwell at Havelock School, FUNNZ hosted a very engaged class of senior primary school students at our Town Hall base on Tuesday 14th May 2024. Several forayers spoke with the students, showing specimens collected and answering their many questions. Peter Buchanan was invited to address their student-led school assembly the next day. His presentation, including some of the larger specimens collected, was preceded by a student introduction to the foray based on their Town Hall visit.

Appendix 1: Foray List

The table is sorted alphabetically by Location. Accession codes for collections: Manaaki Whenua Landcare Research - The New Zealand Fungarium (PDD) and International Collection of Microorganisms from Plants (ICMP); University of Otago - The Otago Regional Herbarium (OTA); Scion - The National Forestry Herbarium (NZFRIM). All names provided are provisional identifications and subject to change on the basis of additional evidence or taxonomic revision. The FUNNZ foray lists should not be taken as evidence for the presence of a taxon in New Zealand, please refer to <https://biotanz.landcareresearch.co.nz/> for the most up to date information.

Accession Number	FUNNZ ID	Fungus Name	Determiner	Substrate	Host	Location	Collector	Collection Date
PDD 124455	2024/277	Strophariaceae Singer & A.H. Sm.	C. Domnauer			Anakiwa, Queen Charlotte Track	C. Domnauer	17/05/2024
PDD 124446	2024/412	Strophariaceae Singer & A.H. Sm.	C. Domnauer			Anakiwa, Queen Charlotte Track	C. Domnauer	17/05/2024
PDD 124397	2024/23	Xerocomus Quél.	C. Domnauer			Anakiwa, Queen Charlotte Track	C. Domnauer	13/05/2024
PDD 122785	2024/1856	Xylaria Hill ex Schrank	L. Allison-Cooper	log	Nothofagaceae	Anakiwa, Queen Charlotte Track	L. Allison-Cooper	13/05/2024
PDD 124423	2024/292	Clavaria roseoviolacea R.H. Petersen	L. Allison-Cooper	clay	Nothofagaceae	Anakiwa, Queen Charlotte Track	L. Allison-Cooper	13/05/2024
PDD 124396	2024/11	Xerocomus nothofagi McNabb	C. Domnauer			Anakiwa, Queen Charlotte Track	A. Bradshaw	13/05/2024
PDD 122780	2024/1820	Strophariaceae Singer & A.H. Sm.	C. Domnauer			Anakiwa, Queen Charlotte Track	C. Domnauer	17/05/2024
PDD 124467	2024/407	Sepedonium Link 1809	P.R. Johnston	soil		Anakiwa, Queen Charlotte Track	P.R. Johnston	13/05/2024
PDD 124398	2024/29	Chalciporus aurantiacus (McNabb) Pegler & T.W.K. Young	C. Domnauer			Anakiwa, Queen Charlotte Track	B. Dentinger	13/05/2024
PDD 124399	2024/35	Phylloporus Quél. 1888	C. Domnauer			Anakiwa, Queen Charlotte Track	C. Domnauer	13/05/2024
PDD 124465	2024/389	Pyrenopeziza Fuckel	P.R. Johnston	fallen leaf	Pseudopanax	Anakiwa, Queen Charlotte Track	P.R. Johnston	13/05/2024
PDD 124400	2024/39	Phylloporus Quél. 1888	C. Domnauer			Anakiwa, Queen Charlotte Track	C. Domnauer	13/05/2024
PDD 124401	2024/51	Austroboletus novae-zelandiae (McNabb) Wolfe	A. Bradshaw			Anakiwa, Queen Charlotte Track	A. Bradshaw	13/05/2024

PDD 123624	2024/937	Entoloma subgen. Nolanea (Fr.) Noordel.	J.A. Cooper			Anakiwa, Queen Charlotte Track	C. Domnauer	13/05/2024
PDD 124395	2024/5	Xerocomus Quél.	J.A. Cooper			Anakiwa, Queen Charlotte Track	B. Dentinger	13/05/2024
PDD 123684	2024/1660	Trichoderma Pers.	A. Chinn	fallen branch	Nothofagaceae	Anakiwa, Queen Charlotte Track	A. Chinn	13/05/2024
PDD 123669	2024/1257	Beauveria Vuill.	G. Cox	cicada	Cicadidae	Anakiwa, Queen Charlotte Track	G. Cox	13/05/2024
PDD 124458	2024/371	Hypoderma obtectum P.R. Johnst. 1990	P.R. Johnston	fallen leaves	Fuscospora truncata	Anakiwa, Queen Charlotte Track	P.R. Johnston	13/05/2024
PDD 123625	2024/949	Austroboletus novae-zelandiae (McNabb) Wolfe	B. Dentinger	soil	Nothofagus	Anakiwa, Queen Charlotte Track	B. Dentinger	13/05/2024
PDD 124404	2024/65	Hypomyces (Fr.) Tul. & C. Tul. 1860	B. Dentinger	mushroom	Xerocomus Quél.	Anakiwa, Queen Charlotte Track	B. Dentinger	13/05/2024
PDD 124405	2024/69	Phylloporus Quél. 1888	B. Dentinger	soil	Nothofagus	Anakiwa, Queen Charlotte Track	B. Dentinger	13/05/2024
PDD 124464	2024/383	Moellerodiscus microcoprosmae P.R. Johnst. 2002	P.R. Johnston	fallen leaf	Coprosma robusta Raoul	Anakiwa, Queen Charlotte Track	P.R. Johnston	13/05/2024
PDD 123621	2024/886	Amoenoboletus mcrobbii (McNabb) G. Wu, E. Horak & Zhu L. Yang	B. Dentinger	soil	Nothofagus	Anakiwa, Queen Charlotte Track	B. Dentinger	13/05/2024
PDD 124466	2024/395	Moellerodiscus coprosmae P.R. Johnst. 2009	P.R. Johnston	fallen leaf	Coprosma grandifolia Hook.f.	Anakiwa, Queen Charlotte Track	P.R. Johnston	13/05/2024
PDD 124461	2024/338	Sepedonium Link 1809	J.A. Cooper	soil		Anakiwa, Queen Charlotte Track	P.R. Johnston	13/05/2024
PDD 124402	2024/59	Clavulina J. Schröt.	J.A. Cooper	soil		Anakiwa, Queen Charlotte Track	B. Dentinger	13/05/2024
PDD 124470	2024/1699	Helotiaceae Rehm 1892 [1896]	P.R. Johnston	fallen twigs		Anakiwa, Queen Charlotte Track	A. Chinn	13/05/2024
PDD 123686	2024/1666	Podoserpula pusio (Berk.) D.A. Reid	J.A. Cooper	soil	Fuscospora solandri	Anakiwa, Queen Charlotte Track	A. Chinn	13/05/2024
OTA 75881	2024/1678	Cortinarius sp.		Soil	Tea tree	Anakiwa, Queen Charlotte Track	A. Chinn	13/05/2024
OTA 75882	2024/0033	Cortinarius sp.	C. Domnauer	-	-	Anakiwa, Queen Charlotte Track	C. Domnauer	13/05/2024
OTA 75883	2024/1881	Cortinarius sp.	D. Orlovich	Soil	Nothofagus solandri	Anakiwa, Queen Charlotte Track	P. Gloyn	13/05/2024

OTA 75953	2024/1948	Cortinarius sp.		Soil	Mixed Nothofagus	Anakiwa, Queen Charlotte Track	T. Davies	17/05/2024
ICMP 25474	2024/1257	Beauveria pseudobassiana S.A. Rehner & Humber	D. Lee		Cicadidae	Anakiwa, Queen Charlotte Track	M. Padamsee	13/05/2024
PDD 122789	2024/1970	Entoloma aromaticum E. Horak	K. Jacobsen	soil	Kunzea ericoides (A.Rich.) Joy Thomps.	Havelock, Cullen Point	K. Jacobsen	17/05/2024
PDD 122729	2024/1991	Hygrophoropsis coacta McNabb 1969	J.A. Cooper	soil	Nothofagaceae	Havelock, Cullen Point	K. Jacobsen	17/05/2024
PDD 122728	2024/1992	Clavulina J. Schröt.	K. Jacobsen	soil	Kunzea ericoides (A.Rich.) Joy Thomps.	Havelock, Cullen Point	K. Jacobsen	17/05/2024
ICMP 25523	2024/449 (b)	Absidia Tiegh.	D. Lee	Under native trees		Havelock, Kaiuma Bay Rd, Te Hoiere	A. Chinn	16/05/2024
ICMP 25457	2024/1202	Cordyceps sinclairii Berk. 1855	D. Lee	Insect in soil		Havelock, Mahakipawa Arm	P. Kinney	16/05/2024
PDD 124480	2024/708	Jimgerdemannia Trappe, Desirò, M.E. Sm., Bonito & Bidartondo	J.A. Cooper	on liverwort in spray beside waterfall		Havelock, Mt Takorika Track	A. Chinn	14/05/2024
PDD 124409	2024/125	Beauveria bassiana (Bals.-Criv.) Vuill.	G. Harrison	cicada	Cicadidae	Havelock, Mt Takorika Track	G. Harrison	14/05/2024
PDD 124410	2024/143	Cordyceps sinclairii Berk. 1855	G. Harrison		Leptospermum scoparium J.R.Forst. & G.Forst.	Havelock, Mt Takorika Track	G. Harrison	14/05/2024
PDD 124426	2024/316	Suillus pungens Thiers & A.H. Sm.	H.S. Chan	soil		Havelock, Mt Takorika Track	H.S. Chan	14/05/2024
PDD 124484	2024/730	Cordyceps tenuipes (Peck) Kepler, B. Shrestha & Spatafora	J.A. Cooper	moth cocoon	Lepidoptera	Havelock, Mt Takorika Track	A. Chinn	14/05/2024
PDD 123683	2024/1656	Akanthomyces Lebert	A. Chinn	Moth	Lepidoptera	Havelock, Mt Takorika Track	A. Chinn	14/05/2024
PDD 124439	2024/381	Stropharia (Fr.) Quél.	J.A. Cooper	soil and		Havelock, Mt Takorika Track	D. Whyte	17/05/2024
PDD 123614	2024/854	Tremella fuciformis Berk.	P.K. Buchanan	fallen wood		Havelock, Mt Takorika Track	P.K. Buchanan	14/05/2024
PDD 124450	2024/432	Coltricia Gray	J.A. Cooper	soil		Havelock, Mt Takorika Track	M. Bartlett	17/05/2024

PDD 123616	2024/860	Oudemansiella Speg. 1881	J.A. Cooper	on ground		Havelock, Mt Takorika Track	P.K. Buchanan	14/05/2024
NZFRIM6098	2024/0466	Galerina patagonica Singer 1954	M.J. Bartlett	Wood, decaying stick		Havelock, Mt Takorika Track	M.J. Bartlett	17/05/2024
NZFRIM6099	2024/0474	Cerrena zonata (Berk.) H.S. Yuan 2013	M.J. Bartlett	Wood fallen tree		Havelock, Mt Takorika Track	M.J. Bartlett	17/05/2024
NZFRIM6106	2024/0426	Tremella sp. "fuciformis"	M.J. Bartlett	Decaying wood		Havelock, Mt Takorika Track	M.J. Bartlett	17/05/2024
NZFRIM6109	2024/0429	Crepidotus sp.	M.J. Bartlett	Tree fern branch, detached	Dicksonia squarrosa	Havelock, Mt Takorika Track	M.J. Bartlett	17/05/2024
ICMP 25461	2024/730	Cordyceps tenuipes (Peck) Kepler, B. Shrestha & Spatafora 2017	D. Lee	Cocoon	Lepidoptera	Havelock, Mt Takorika Track	A. Chinn	14/05/2024
ICMP 25466	2024/143	Cordyceps sinclairii Berk. 1855	G. Harrison		Leptospermum	Havelock, Mt Takorika Track	B.S. Weir	14/05/2024
ICMP 25514	2024/1010	Sepedonium chalcipori Helfer 1991	D. Lee	Inside deadwood stump		Havelock, Mt Takorika Track	B.S. Weir	17/05/2024
PDD 124524	2024/1797	Beauveria Vuill.	D. Lee	Insect		Iwituaroa Scenic Reserve	B.S. Weir	13/05/2024
PDD 124519	2024/1785	Russula Pers.	B.S. Weir	Soil		Iwituaroa Scenic Reserve	B.S. Weir	13/05/2024
PDD 124378	2024/1708	Beauveria Vuill.	D. Lee	Soil		Iwituaroa Scenic Reserve	B.S. Weir	13/05/2024
PDD 123649	2024/1128	Beauveria Vuill.	A.J. Stanton	Insect	Cicadidae	Iwituaroa Scenic Reserve	A.J. Stanton	13/05/2024
PDD 124522	2024/1791	Dibaeis absoluta (Tuck.) Kalb & Gierl	B.S. Weir	Soil/ Rock		Iwituaroa Scenic Reserve	B.S. Weir	13/05/2024
PDD 123629	2024/981	Beauveria Vuill.	D. Lee	Insect	Cicadidae	Iwituaroa Scenic Reserve	B.S. Weir, D. Park	13/05/2024
ICMP 25455	2024/981	Verruciconidia unguis L.W. Hou, L. Cai & Crous	D. Lee	Insect		Iwituaroa Scenic Reserve	B.S. Weir, D. Park	13/05/2024
ICMP 25464	2024/1128	Deconica vorax (E. Horak) J.A. Cooper	D. Lee		Cicadidae	Iwituaroa Scenic Reserve	A. J. Stanton	13/05/2024
ICMP 25468	2024/1139	Clonostachys Corda 1839	D. Lee	Stink Bug		Iwituaroa Scenic Reserve	M. Padamsee	13/05/2024
ICMP 25473	2024/1708	Cordyceps Fr. 1818	D. Lee	Soil		Iwituaroa Scenic Reserve	B.S. Weir	13/05/2024

ICMP 25479	2024/1797	<i>Cordyceps sinclairii</i> Berk. 1855	D. Lee	Insect		Iwituaroa Scenic Reserve	B.S. Weir	13/05/2024
PDD 123662	2024/1193	<i>Cortinarius</i> (Pers.) Gray 1821	M. Padamsee	on soil under tree fern, red beech, other beech		Iwituaroa Scenic Reserve, Queen Charlotte Walkway	M. Padamsee	13/05/2024
PDD 123663	2024/1199	<i>Psathyrella bipellis</i> (Quél.) A.H. Sm.	M. Padamsee	well decayed wood		Iwituaroa Scenic Reserve, Queen Charlotte Walkway	M. Padamsee	13/05/2024
PDD 123666	2024/1205	<i>Hypholoma</i> (Fr.) P. Kumm.	M. Padamsee	well rotted wood		Iwituaroa Scenic Reserve, Queen Charlotte Walkway	M. Padamsee	13/05/2024
PDD 123652	2024/1139	<i>Beauveria</i> Vuill.	M. Padamsee	stink bug	Pentatomidae	Iwituaroa Scenic Reserve, Queen Charlotte Walkway	M. Padamsee	13/05/2024
PDD 123654	2024/1145	<i>Entoloma</i> (Fr.) P. Kumm. 1871	M. Padamsee	well rotted wood		Iwituaroa Scenic Reserve, Queen Charlotte Walkway	M. Padamsee	13/05/2024
PDD 123659	2024/1163	<i>Stereum</i> Pers.	M. Padamsee	fallen twig		Iwituaroa Scenic Reserve, Queen Charlotte Walkway	M. Padamsee	13/05/2024
PDD 124403	2024/63	<i>Pholiota subflammans</i> (Speg.) Sacc.	J.A. Cooper	wood		Iwituaroa Scenic Reserve, Queen Charlotte Walkway	A. Bradshaw	13/05/2024
PDD 124425	2024/298	<i>Entoloma chloroxanthum</i> G. Stev.	L. Allison-Cooper	Soil, mixed broad leaf		Linkwater, Smith's Farm Hoiday Park trail	L. Allison-Cooper	13/05/2024
PDD 123601	2024/738	<i>Mycena clarkeana</i> Grgur.	J.A. Cooper	old dead wood	Eucalyptus	Linkwater, Smith's Farm Hoiday Park trail	A. Chinn	17/05/2024
PDD 123688	2024/1690	<i>Heimiomyces</i> Singer	J.A. Cooper	flying branch of dead barberry	Berberidaceae	Linkwater, Smith's Farm Hoiday Park trail	A. Chinn	13/05/2024
PDD 123665	2024/1202	<i>Cordyceps</i> Fr. 1818	B.S. Weir	insect in soil		Mahakipawa Hill Scenic Reserve	P. Kinney	16/05/2024
PDD 124444	2024/399	<i>Leucoagaricus</i> (Peck) Singer 1948	D. Whyte	soil/duff		Mahakipawa Hill Scenic Reserve	D. Whyte	17/05/2024
PDD 123674	2024/1558	<i>Cortinarius</i> (Pers.) Gray 1821	D. Whyte	soil	Eucalyptus	Mahakipawa Hill Scenic Reserve	D. Whyte	17/05/2024
PDD 123653	2024/1141	<i>Laccaria</i> Berk. & Broome 1883	K. Jacobsen	soil	Leptospermum scoparium	Moenui Reserve	K. Jacobsen	14/05/2024

					J.R.Forst. & G.Forst.			
PDD 123655	2024/1147	Polyporus nigrocristatus E. Horak & Ryvarden	P. Gloyn	wood	Nothofagaceae	Moenui Track	K. Jacobsen	14/05/2024
PDD 124459	2024/401	Rimaconus coronatus Huhndorf & A.N. Mill.	P.R. Johnston	rotten wood		Momorangi Bay Scenic Reserve	P.R. Johnston	13/05/2024
PDD 124523	2024/1796	Leucoagaricus serenus (Fr.) Bon & Boiffard	J.A. Cooper	Soil		Momorangi Bay Scenic Reserve	B.S. Weir	13/05/2024
PDD 123656	2024/1151	Hydnangium Wallr. 1839	M. Padamsee	on soil under Cyathea		Momorangi Bay Scenic Reserve	M. Padamsee	13/05/2024
PDD 123651	2024/1134	Cordyceps Fr. 1818	B.S. Weir	Insect		Momorangi Bay Scenic Reserve	A.J. Stanton	13/05/2024
PDD 123668	2024/1228	Lacrymaria asperospora (Cleland) Watling 1979	D. Hera	Soil		Momorangi Bay Scenic Reserve	D. Hera	13/05/2024
PDD 123632	2024/1020	Russula Pers.	V. Kholostiakov	soil under trunk	Kunzea	Momorangi Bay Scenic Reserve		13/05/2024
PDD 123664	2024/1113	Beauveria Vuill.	D. Lee	Insect		Momorangi Bay Scenic Reserve	A.J. Stanton	13/05/2024
PDD 122774	2024/1773	Corticaceae Herter 1910	D. Lee	Bark		Momorangi Bay Scenic Reserve	B.S. Weir	13/05/2024
PDD 124457	2024/359	Helotiales Nannf. 1932	P.R. Johnston	dead frond	Dicksonia squarrosa (G.Forst.) Sw.	Momorangi Bay Scenic Reserve	P.R. Johnston	13/05/2024
PDD 124462	2024/365	Lachnopsis sp. "shaggy white" P.R. Johnst.	P.R. Johnston	dead pinnae	Dicksonia squarrosa (G.Forst.) Sw.	Momorangi Bay Scenic Reserve	P.R. Johnston	13/05/2024
PDD 123657	2024/1157	Pholiota subflammans (Speg.) Sacc.	M. Padamsee	on decaying wood		Momorangi Bay Scenic Reserve	M. Padamsee	13/05/2024
PDD 123639	2024/1169	Cyclocybe parasitica (G. Stev.) Vizzini	P.R. Johnston		Melicytus ramiflorus J.R.Forst. & G.Forst.	Momorangi Bay Scenic Reserve	M. Padamsee, D. Lee	13/05/2024
PDD 124463	2024/377	Hysterostomella Speg. 1885	P.R. Johnston	living leaves	Piper excelsum Forst.f.	Momorangi Bay Scenic Reserve	P.R. Johnston	13/05/2024
ICMP 25463	2024/1113	Umbelopsis ramanniana (Möller) W. Gams 2003	D. Lee	Insect		Momorangi Bay Scenic Reserve	A. J. Stanton	13/05/2024
ICMP 25467	2024/1134	Samsoniella Mongkols., Noisrip., Thanakitp., Spatafora & Luangsa-ard	D. Lee	Insect		Momorangi Bay Scenic Reserve	A. J. Stanton	13/05/2024

ICMP 25470	2024/1228	Trichoderma spirale contam.	D. Lee	Soil		Momorangi Bay Scenic Reserve	D. Hera	13/05/2024
ICMP 25476	2024/1264	Deconica vorax (E. Horak) J.A. Cooper	D. Lee		Cyathea dealbata	Momorangi Bay Scenic Reserve	D. Hera	13/05/2024
ICMP 25481	2024/1773	Fusarium sp.	D. Lee	Bark		Momorangi Bay Scenic Reserve	B.S. Weir	13/05/2024
PDD 122786	2024/1878	Laccaria violaceonigra G. Stev.	H.S. Chan		Nothofagaceae	Mt Richmond Forest Park	H.S. Chan	13/05/2024
PDD 124456	2024/100	Phaeohelotium undulatum Baral, R. Galan & R. Tena	P.R. Johnston	soil	Kunzea	Mt Richmond Forest Park	I. La Bianca	14/05/2024
PDD 124411	2024/144	Clavulina J. Schröt.	V. Kholostiakov	soil	Fuscospora	Mt Richmond Forest Park	V. Kholostiakov	14/05/2024
PDD 123617	2024/865	Cortinarius (Pers.) Gray 1821	I. La Bianca	soil		Mt Richmond Forest Park	I. La Bianca	14/05/2024
ICMP 25517	2024/1652	Cordyceps sinclairii Berk. 1855	J. Cooper	soil	Cicadidae	Mt Richmond, Brook Sanctuary	V. Moffat	17/05/2024
ICMP 25518	2024/1646	Cordyceps sinclairii Berk. 1855	J. Cooper	soil	Cicadidae	Mt Richmond, Brook Sanctuary	V. Moffat	17/05/2024
ICMP 25519	2024/1652	Cordyceps sinclairii Berk. 1855	J. Cooper	soil	Cicadidae	Mt Richmond, Brook Sanctuary	V. Moffat	17/05/2024
PDD 122730	2024/1983	Clavulina J. Schröt.	K. Jacobsen	soil	Pinaceae	Mt Richmond, Mount Riley Road	K. Jacobsen	15/05/2024
PDD 122790	2024/1971	Tricholomopsis ornaticeps (G. Stev.) E. Horak	P. Gloyn, J.A. Cooper	soil	Pinaceae	Mt Richmond, Mount Riley Road	P. Kinney	13/05/2024
PDD 124518	2024/(1)1784	Sistotrema Fr. 1821	M. Padamsee	cone	Pseudotsuga menziesii (Mirb.) Franco	Mt Richmond, Pine Valley	M. Padamsee	17/05/2024
PDD 123623	2024/902	Calostoma rodwayi (Lloyd) Lloyd	B. Dentinger	soil	Nothofagus	Mt Richmond, Pine Valley	B. Dentinger	14/05/2024
PDD 123609	2024/791	Chalciporus piperatus (Bull.) Bataille	J.A. Cooper	soil	Nothofagus	Mt Richmond, Pine Valley	B. Dentinger	14/05/2024
PDD 123673	2024/1553	Macrotyphula R.H. Petersen	A.J. Stanton	fallen leaves,mixed spp		Mt Richmond, Pine Valley	A.J. Stanton	17/05/2024
PDD 124445	2024/411	Helotiales Nannf. 1932	P.R. Johnston	dead frond	Dicksonia squarrosa (G.Forst.) Sw.	Mt Richmond, Pine Valley	P.R. Johnston	17/05/2024
PDD 124448	2024/417	Crocicreas multicuspidatum (Rodway) S.E. Carp.	P.R. Johnston	dead frond	Cyathea smithii Hook.f.	Mt Richmond, Pine Valley	P.R. Johnston	17/05/2024

PDD 124452	2024/476	Hamatocanthoscyphaceae Ekanayaka & K.D. Hyde	P.R. Johnston	dead frond	Dicksonia squarrosa (G.Forst.) Sw.	Mt Richmond, Pine Valley	P.R. Johnston	17/05/2024
PDD 124388	2024/1764	Crocicreas multicuspidatum (Rodway) S.E. Carp.	P.R. Johnston	dead frond	Cyathea smithii Hook.f.	Mt Richmond, Pine Valley	P.R. Johnston	17/05/2024
PDD 122775	2024/1778	Cortinarius porphyroideus Peintner & M.M. Moser	M. Padamsee		Nothofagaceae	Mt Richmond, Pine Valley	M. Padamsee	17/05/2024
PDD 124521	2024/1790	Stereum Pers.	M. Padamsee	On well rotted log		Mt Richmond, Pine Valley	M. Padamsee	17/05/2024
PDD 124525	2024/1801	Clavulina rugosa (Bull.) J. Schröt.	J.A. Cooper	Soil under pine		Mt Richmond, Pine Valley	B.S. Weir	17/05/2024
PDD 124528	2024/1807	Cordyceps sinclairii Berk. 1855	B.S. Weir	insect in soil	Insecta	Mt Richmond, Pine Valley	P.R. Johnston	17/05/2024
PDD 123622	2024/890	Austroboletus novae-zelandiae (McNabb) Wolfe	A. Bradshaw			Mt Richmond, Pine Valley	A. Bradshaw	14/05/2024
PDD 124468	2024/423a	Erioscyphella abnormis (Mont.) Baral, Šandová & Perić 2014	P.R. Johnston	Dead wood	Ulex europaeus L.	Mt Richmond, Pine Valley	P.R. Johnston	17/05/2024
PDD 122784	2024/1852	Cortinarius epiphaeus (E. Horak) Peintner & M.M. Moser	J.A. Cooper	mossy soil	Nothofagaceae	Mt Richmond, Pine Valley	J. Davies	13/05/2024
PDD 123682	2024/1651	Laccaria violaceonigra G. Stev.	J.A. Cooper	soil		Mt Richmond, Pine Valley	E. Van Zuylen	16/05/2024
PDD 122788	2024/1923	Russulaceae Lotsy 1907	M. Padamsee	loose on mossy ground		Mt Richmond, Pine Valley	R. Johansen	17/05/2024
PDD 123638	2024/1096	Clavulina subrugosa (Cleland) Corner	M. Padamsee	soil	Pinaceae	Mt Richmond, Pine Valley	M. Padamsee	17/05/2024
PDD 122776	2024/1812	Tricholoma terreum (Schaeff.) P. Kumm.	M. Padamsee	soil		Mt Richmond, Pine Valley	M. Padamsee	17/05/2024
PDD 122773	2024/1770	Hypoderma rubi (Pers.) DC. ex Chevall. 1822	P.R. Johnston	dead leaf	Pseudopanax	Mt Richmond, Pine Valley	P.R. Johnston	17/05/2024
PDD 123612	2024/824	Octaviania tasmanica (Kalchbr. ex Masee) Lloyd	C. Domnauer			Mt Richmond, Pine Valley	C. Domnauer	14/05/2024
PDD 122777	2024/1813	Sistotrema Fr. 1821	B.S. Weir	pine needles	Pinus	Mt Richmond, Pine Valley	B.S. Weir	17/05/2024
PDD 124443	2024/398	Hypomyces (Fr.) Tul. & C. Tul. 1860	C. Domnauer		Rossbeevera T. Lebel & Orihara 2012	Mt Richmond, Pine Valley	C. Domnauer	14/05/2024
OTA 75951	2024/0517	Cortinarius turcopes	D. Orlovich	Soil	Nothofagus	Mt Richmond, Pine Valley	D. Orlovich	17/05/2024

OTA 75954	2024/0487	Cortinarius sp.		Soil	Nothofagus	Mt Richmond, Pine Valley	A. Nilsen	17/05/2024
OTA 75955	2024/0499	Thaxterogaster artosoides		Soil	Nothofagus	Mt Richmond, Pine Valley	A. Nilsen	17/05/2024
OTA 75956	2024/0493	Cortinarius sp.		Soil	Nothofagus	Mt Richmond, Pine Valley	A. Nilsen	17/05/2024
OTA 75957	2024/0505	Thaxterogaster epiphaeus		Soil	Nothofagus	Mt Richmond, Pine Valley	D. Orlovich	17/05/2024
OTA 75958	2024/0481	Austropaxillus squarrosus	D. Orlovich	Soil	Nothofagus	Mt Richmond, Pine Valley	D. Orlovich	17/05/2024
OTA 75959	2024/1917	Thaxterogaster epiphaeus	D. Orlovich	Soil	Nothofagus	Mt Richmond, Pine Valley	D. Orlovich	17/05/2024
OTA 75960	2024/0531	Cortinarius sp.		Soil	Nothofagus	Mt Richmond, Pine Valley	D. Orlovich	17/05/2024
OTA 75961	2024/0529	Cortinarius sp.		Soil	Nothofagus	Mt Richmond, Pine Valley	A. Nilsen	17/05/2024
OTA 75962	2024/0525	Cortinarius sp.		Soil	Nothofagus	Mt Richmond, Pine Valley	D. Orlovich	17/05/2024
OTA 75963	2024/0524	Cortinarius sp.		Soil	Nothofagus	Mt Richmond, Pine Valley	D. Orlovich	17/05/2024
OTA 75964	2024/0518	Cortinarius sp.		Soil	Nothofagus	Mt Richmond, Pine Valley	A. Nilsen	17/05/2024
OTA 75965	2024/0523	Thaxterogaster chalybeus		Soil	Nothofagus	Mt Richmond, Pine Valley	A. Nilsen	17/05/2024
OTA 75966	2024/0530	Cortinarius sp.		Soil	Nothofagus	Mt Richmond, Pine Valley	D. Orlovich	17/05/2024
ICMP 25459	2024/1090	Corticiaceae Herter 1910	A. J. Stanton		Cyathea medullaris (G.Forst.) Sw.	Mt Richmond, Pine Valley	A. J. Stanton	17/05/2024
ICMP 25471	2024/1784	Clonostachys compactiuscula (Sacc.) D. Hawksw. & W. Gams 1975	D. Lee	Cone	Pseudotsuga taxifolia	Mt Richmond, Pine Valley	D. Hera	17/05/2024
ICMP 25472	2024/1789	Trametes sp.	D. Lee		Cyathea medullaris	Mt Richmond, Pine Valley	B.S. Weir	17/05/2024
ICMP 25482	2024/1790	Cerrena zonata (Berk.) H.S. Yuan	D. Lee	Well rotted log		Mt Richmond, Pine Valley	M. Padamsee	17/05/2024
ICMP 25483	2024/1807	Cordyceps sinclairii Berk. 1855	B.S. Weir	insect		Mt Richmond, Pine Valley	P.R. Johnston	17/05/2024

ICMP 25484	2024/1490	Mucor flavus Bainier 1903	D. Lee	Dung with Fruit		Mt Richmond, Pine Valley	A. J. Stanton	17/05/2024
ICMP 25490	2024/1813	Strasseria geniculata	B.S. Weir	Needles	Pinus	Mt Richmond, Pine Valley	B.S. Weir	17/05/2024
ICMP 25542	2024/1789	Waltergamsia parva			Cyathea medullaris	Mt Richmond, Pine Valley	B.S. Weir	17/05/2024
ICMP 25567	2024/1813	Calycina fungorum (Sacc.) W.P. Wu	D. Lee			Mt Richmond, Pine Valley	B.S. Weir	17/05/2024
ICMP 25612	2024/1789	Kockovaella Nakase, I. Banno & Y. Yamada	D. Lee		Cyathea medullaris	Mt Richmond, Pine Valley	B.S. Weir	17/05/2024
PDD 123676	2024/1587	Podoserpula pusio (Berk.) D.A. Reid	J.A. Cooper	moss	Nothofagaceae	Mt Richmond, Wakamarina, Butchers Flat	D. Whyte	16/05/2024
PDD 123606	2024/765	Inocybe (Fr.) Fr.	J.A. Cooper	soil	Lophozonia menziesii (Hook.f.) Heenan & Smissen	Mt Richmond, Wakamarina, Butchers Flat	M. Bartlett	14/05/2024
NZFRIM6097	2024/1142	Octaviania tasmanica (Kalchbr. ex Masee) Lloyd 1922	M.J. Bartlett	Soil	Nearby Silver beech	Mt Richmond, Wakamarina, Butchers Flat	M.J. Bartlett	14/05/2024
NZFRIM6104	2024/1161	Cyathus novae-zeelandiae Tul. & C. Tul. 1844	M.J. Bartlett	Wood, decaying	near Lophozonia menziesii	Mt Richmond, Wakamarina, Butchers Flat	M.J. Bartlett	14/05/2024
PDD 124433	2024/361	Cortinarius (Pers.) Gray 1821	S. Davis	soil/duff		Mt Richmond, Wakamarina, Wakamarina Track	S. Davis	14/05/2024
PDD 124435	2024/364	Ramaria anziana R.H. Petersen	I. Dickie	soil		Mt Richmond, Wakamarina, Wakamarina Track	I. Dickie	14/05/2024
PDD 124477	2024/693	Ramaria avellaneovortex R.H. Petersen	J.A. Cooper	soil and moss	Nothofagaceae	Mt Richmond, Wakamarina, Wakamarina Track	J. Davies	14/05/2024
PDD 124441	2024/384	Amphinema P. Karst.	I.A. Dickie	litter	Pinus radiata D.Don	Mt Richmond, Wakamarina, Wakamarina Track	I. Dickie	14/05/2024
PDD 123605	2024/759	Fistulinella violaceipora (G. Stev.) Pegler & T.W.K. Young	M. Howard	soil		Mt Richmond, Wakamarina, Wakamarina Track	M. Howard	14/05/2024

PDD 124476	2024/690	Urnula campylospora (Berk.) Cooke 1892	A. Kubrock	wood		Mt Richmond, Wakamarina, Wakamarina Track	A. Kubrock	14/05/2024
PDD 124424	2024/293	Xylaria Hill ex Schrank	L. Allison- Cooper	rotten log		Mt Richmond, Wakamarina, Wakamarina Track	L. Allison- Cooper	14/05/2024
PDD 124418	2024/226	Physaraceae Chevall.	L. Allison- Cooper	rotten log		Mt Richmond, Wakamarina, Wakamarina Track	L. Allison- Cooper	14/05/2024
PDD 123613	2024/835	Cortinarius (Pers.) Gray 1821	D. Hera	soil	Nothofagaceae	Mt Richmond, Wakamarina, Wakamarina Track	D. Hera	14/05/2024
PDD 123618	2024/867	Cordyceps Fr. 1818	D. Hera	Dead wood		Mt Richmond, Wakamarina, Wakamarina Track	D. Hera	14/05/2024
PDD 124422	2024/288	Entoloma melanocephalum G. Stev.	L. Allison- Cooper	soil	Nothofagaceae	Mt Richmond, Wakamarina, Wakamarina Track	L. Allison- Cooper	14/05/2024
PDD 123627	2024/966	Cortinarius cardinalis (E. Horak) G. Garnier	D. Whyte	moss	Nothofagaceae	Mt Richmond, Wakamarina, Wakamarina Track	D. Whyte	14/05/2024
PDD 124428	2024/312	Chalciporus piperatus (Bull.) Bataille	J.A. Cooper			Mt Richmond, Wakamarina, Wakamarina Track	L. Allison- Cooper	14/05/2024
PDD 123615	2024/855	Hydnum mcNabbianum J.A. Cooper	14/05/2024	soil	Nothofagaceae	Mt Richmond, Wakamarina, Wakamarina Track	M. Padamsee	14/05/2024
PDD 123631	2024/1009	Inocybe (Fr.) Fr.	D. Whyte	soil/duff	Kunzea ericoides (A.Rich.) Joy Thomps.	Mt Richmond, Wakamarina, Wakamarina Track	D. Whyte	14/05/2024
PDD 124437	2024/378	Clavulina rugosa (Bull.) J. Schröt.	L. Dickie	soil	Pinaceae	Mt Richmond, Wakamarina, Wakamarina Track	I. Dickie	14/05/2024
PDD 124406	2024/97	Ramaria Fr. ex Bonord.	D. Whyte	soil	Nothofagaceae	Mt Richmond, Wakamarina, Wakamarina Track	D. Whyte	14/05/2024
PDD 124442	2024/390	Tylopilus brunneus (McNabb) Wolfe	L. Dickie	soil		Mt Richmond, Wakamarina, Wakamarina Track	L. Dickie	14/05/2024

PDD 124478	2024/694	Bjerkandera adusta (Willd.) P. Karst.	P. Gloyn		Nothofagus	Mt Richmond, Wakamarina, Wakamarina Track	P. Gloyn	14/05/2024
PDD 124479	2024/700	Trametes hirsuta (Wulfen) Pilát	P. Gloyn	beech	Nothofagus	Mt Richmond, Wakamarina, Wakamarina Track	P. Gloyn	14/05/2024
PDD 122787	2024/1879	Polyporales Gäum.	P. Gloyn	beech	Nothofagaceae	Mt Richmond, Wakamarina, Wakamarina Track	P. Gloyn	14/05/2024
PDD 123670	2024/1260	Polyporales Gäum.	I. Dickie	dead wood		Mt Richmond, Wakamarina, Wakamarina Track	I. Dickie	14/05/2024
PDD 122783	2024/1843	Trametes Fr.	P. Gloyn	wood		Mt Richmond, Wakamarina, Wakamarina Track	P. Gloyn	14/05/2024
PDD 124407	2024/103	Cuphophyllus impurus (E. Horak) J.A. Cooper 2023	J.A. Cooper	Under ferns in mixed beech broad leaf		Mt Richmond, Wakamarina, Wakamarina Track	D. Whyte	14/05/2024
NZFRIM6105	2024/0777	Trametes coccinea (Fr.) Hai J. Li & S.H. He 2014	P. Gloyn	Decaying wood, stick		Mt Richmond, Wakamarina, Wakamarina Track	M.J. Bartlett	14/05/2024
OTA 75884	2024/0725	Cortinarius sp.		Soil	Mixed Nothofagus, Broadleaf, Kunzea	Mt Richmond, Wakamarina, Wakamarina Track	A. Nilsen	14/05/2024
OTA 75885	2024/0713	Agaricales sp.		Soil	Mixed Nothofagus, Broadleaf, Kunzea	Mt Richmond, Wakamarina, Wakamarina Track	A. Nilsen	14/05/2024
OTA 75886	2024/0605	Cortinarius sp.		Soil	Mixed Nothofagus, Broadleaf, Kunzea	Mt Richmond, Wakamarina, Wakamarina Track	A. Nilsen	14/05/2024
OTA 75887	2024/0617	Cortinarius sp.		Soil	Mixed Nothofagus, Broadleaf, Kunzea	Mt Richmond, Wakamarina, Wakamarina Track	A. Nilsen	14/05/2024
OTA 75888	2024/0685	Entoloma sp.		Soil	Mixed Nothofagus,	Mt Richmond, Wakamarina, Wakamarina Track	A. Nilsen	14/05/2024

					Broadleaf, Kunzea			
OTA 75889	2024/0719	Agaricales sp.		Soil	Mixed Nothofagus, Broadleaf, Kunzea	Mt Richmond, Wakamarina, Wakamarina Track	A. Nilsen	14/05/2024
OTA 75890	2024/0707	Chalciporus piperatus		Soil	Mixed Nothofagus, Broadleaf, Kunzea	Mt Richmond, Wakamarina, Wakamarina Track	A. Nilsen	14/05/2024
OTA 75891	2024/0892	Cortinarius sp.		Soil	Mixed Nothofagus, Broadleaf, Kunzea	Mt Richmond, Wakamarina, Wakamarina Track	A. Nilsen	14/05/2024
OTA 75892	2024/0657	Entoloma sp.		Soil	Mixed Nothofagus, Broadleaf, Kunzea	Mt Richmond, Wakamarina, Wakamarina Track	D. Orlovich	14/05/2024
OTA 75893	2024/0639	Pholiota sp.		Soil	Mixed Nothofagus, Broadleaf, Kunzea	Mt Richmond, Wakamarina, Wakamarina Track	D. Orlovich	14/05/2024
OTA 75894	2024/0673	Cortinarius sp.		Soil	Mixed Nothofagus, Broadleaf, Kunzea	Mt Richmond, Wakamarina, Wakamarina Track	D. Orlovich	14/05/2024
OTA 75895	2024/0651	Cortinarius sp.		Soil	Mixed Nothofagus, Broadleaf, Kunzea	Mt Richmond, Wakamarina, Wakamarina Track	D. Orlovich	14/05/2024
OTA 75896	2024/0691	Cortinarius sp.		Soil	Mixed Nothofagus, Broadleaf, Kunzea	Mt Richmond, Wakamarina, Wakamarina Track	D. Orlovich	14/05/2024
OTA 75897	2024/0633	Cortinarius sp.		Soil	Mixed Nothofagus, Broadleaf, Kunzea	Mt Richmond, Wakamarina, Wakamarina Track	D. Orlovich	14/05/2024

OTA 75898	2024/0645	Agaricales sp.		Soil	Mixed Nothofagus, Broadleaf, Kunzea	Mt Richmond, Wakamarina, Wakamarina Track	D. Orlovich	14/05/2024
OTA 75899	2024/0679	Cuphophyllus sp.		Soil	Mixed Nothofagus, Broadleaf, Kunzea	Mt Richmond, Wakamarina, Wakamarina Track	A. Nilsen	14/05/2024
OTA 75900	2024/0697	Agaricales sp.		Soil	Mixed Nothofagus, Broadleaf, Kunzea	Mt Richmond, Wakamarina, Wakamarina Track	A. Nilsen	14/05/2024
OTA 75901	2024/0611	Cortinarius sp.		Soil	Mixed Nothofagus, Broadleaf, Kunzea	Mt Richmond, Wakamarina, Wakamarina Track	A. Nilsen	14/05/2024
OTA 75902	2024/0663	Agaricales sp.		Soil	Mixed Nothofagus, Broadleaf, Kunzea	Mt Richmond, Wakamarina, Wakamarina Track	A. Orlovich	14/05/2024
OTA 75904	2024/0355	Cortinarius australianum		Soil	Mixed Nothofagus, Broadleaf, Kunzea	Mt Richmond, Wakamarina, Wakamarina Track	L. Dickie	14/05/2024
OTA 75905	2024/0085	Cortinarius sp.		Soil	Mixed Nothofagus, Broadleaf, Kunzea	Mt Richmond, Wakamarina, Wakamarina Track	D. Whyte	14/05/2024
OTA 75906	2024/0119	Aureonarius rubrodactylis		Soil	Mixed Nothofagus, Broadleaf, Kunzea	Mt Richmond, Wakamarina, Wakamarina Track	D. Whyte	14/05/2024
OTA 75907	2024/0817	Cortinarius sp.		Soil	Mixed Nothofagus, Broadleaf, Kunzea	Mt Richmond, Wakamarina, Wakamarina Track	D. Hera	14/05/2024
OTA 75908	2024/0306	Cortinarius sp.		Soil	Kanuka, torata, five finger	Mt Richmond, Wakamarina, Wakamarina Track	L. Allison-Cooper	14/05/2024

PDD 124408	2024/(1)117	Bresadolia Speg.	P. Gloyn	wood		Okiwi Bay	D. Griffin	14/05/2024
PDD 124474	2024/610	Entoloma (Fr.) P. Kumm. 1871	R. Johansen	soil		Onamalutu Scenic Reserve	R. Johansen	14/05/2024
PDD 124475	2024/670	Leucoagaricus sp. 'Woodside Glen (PDD 87532)' J.A. Cooper ined.	J.A. Cooper	soil under totara	Podocarpus totara D.Don	Onamalutu Scenic Reserve	P.R. Johnston	14/05/2024
OTA 75903	2024/1714	Agaricales sp.			Mixed Nothofagus, Broadleaf, Kunzea	Onamalutu Scenic Reserve, Northbank Rd	P. Johnston	14/05/2024
PDD 124431	2024/350	Corynelia tropica (Auersw. & Rabenh.) Starbäck 1905	P.R. Johnston	leaf spot	Podocarpus totara D.Don	Onamalutu Scenic Reserve, Northbank Rd	P.R. Johnston	14/05/2024
PDD 123619	2024/872	Akanthomyces Lebert	L. Allison-Cooper	moth on tawa		Pelorus Bridge Scenic Reserve	L. Allison-Cooper	16/05/2024
PDD 123611	2024/823	Descomyces Bougher & Castellano	M. Padamsee	soil	Leptospermum	Pelorus Bridge Scenic Reserve	B. Dentinger	14/05/2024
PDD 123608	2024/773	Boletus L.	B. Dentinger	soil	Leptospermum	Pelorus Bridge Scenic Reserve	B. Dentinger	14/05/2024
PDD 124438	2024/380	Akanthomyces Lebert	L. Allison-Cooper	moth on tawa		Pelorus Bridge Scenic Reserve	L. Allison-Cooper	16/05/2024
PDD 123677	2024/1588	Rhizocybe Vizzini, G. Moreno, P. Alvarado & Consiglio	A. Chinn	wood		Pelorus Bridge Scenic Reserve	G. Harrison	16/05/2024
PDD 123687	2024/1683	Pluteus Fr. 1836	L. Dickie	Dead wood		Pelorus Bridge Scenic Reserve	L. Dickie	13/05/2024
PDD 124482	2024/718	Melanophyllum Velen.	J.A. Cooper	wood		Pelorus Bridge Scenic Reserve	A. Bradshaw	14/05/2024
PDD 123604	2024/751	Beauveria Vuill.	B. Menger	beetle	Coleoptera	Pelorus Bridge Scenic Reserve	B. Menger	14/05/2024
PDD 124472	2024/577	Ductifera Lloyd 1917	J.A. Cooper	Dead wood	Nothofagaceae	Pelorus Bridge Scenic Reserve	A. Mehta	17/05/2024
PDD 124421	2024/285	Flaviporus brownii (Humb.) Donk	I. Dickie	Inside of deadwood stump		Pelorus Bridge Scenic Reserve	I. Dickie	13/05/2024
PDD 123690	2024/1701	Laetiporus portentosus (Berk.) Rajchenb.	I. Dickie	Trunk, low and down	Nothofagus	Pelorus Bridge Scenic Reserve	I. Dickie	13/05/2024
PDD 123610	2024/809	Ramaria sp. 'Speargrass Flat (PDD 106964)' J.A. Cooper ined. 2020	J.A. Cooper			Pelorus Bridge Scenic Reserve	B. Dentinger	14/05/2024

PDD 124427	2024/320	Rosseevera pachydermis (Zeller & C.W. Dodge) T. Lebel	I. Dickie	soil		Pelorus Bridge Scenic Reserve	I. Dickie	13/05/2024
PDD 123681	2024/1641	Amphinema P. Karst.	I.A. Dickie	dead wood, branch	Pinus radiata D.Don	Pelorus Bridge Scenic Reserve	I. Dickie	13/05/2024
PDD 123685	2024/1661	Cantharellales Gäum.	I. Dickie	dead wood	Pinus radiata D.Don	Pelorus Bridge Scenic Reserve	I. Dickie	13/05/2024
PDD 122778	2024/1815	Rosellinia De Not.	J.A. Cooper	Bark of fallen dead log		Pelorus Bridge Scenic Reserve	B.S. Weir	14/05/2024
PDD 124529	2024/1809	Tubaria rufofulva (Cleland) D.A. Reid & E. Horak	J.A. Cooper	Rotten wood		Pelorus Bridge Scenic Reserve	B.S. Weir	14/05/2024
PDD 123620	2024/885	Tylopilus formosus G. Stev.	P. Gloyn	large stump (rimu/beech?)		Pelorus Bridge Scenic Reserve	P. Kinney	13/05/2024
PDD 124419	2024/270	Geastrum velutinum Morgan	S. Da Silva	Soil		Pelorus Bridge Scenic Reserve	S. Da Silva	13/05/2024
PDD 123680	2024/1639	Thaxterogaster mariae (E. Horak) Niskanen & Liimat.	J.A. Cooper	Soil	Nothofagus	Pelorus Bridge Scenic Reserve	I. Dickie	13/05/2024
PDD 123628	2024/978	Rhizocybe sp. 'Pureora (PDD 96261)' J.A. Cooper ined.	J.A. Cooper	Wood	Nothofagus solandri var. solandri x N. truncata	Pelorus Bridge Scenic Reserve	D. Hera	13/05/2024
PDD 123607	2024/767	Cortinarius (Pers.) Gray 1821	J.A. Cooper	soil	Leptospermum	Pelorus Bridge Scenic Reserve	B. Dentinger	14/05/2024
PDD 123603	2024/749	Xerocomus scabripes McNabb	J.A. Cooper		Nothofagus	Pelorus Bridge Scenic Reserve	C. Domnauer	14/05/2024
PDD 124481	2024/712	Austropaxillus squarrosus (McNabb) Bresinsky & Jarosch 1999	J.A. Cooper			Pelorus Bridge Scenic Reserve	A. Bradshaw	14/05/2024
PDD 123689	2024/(1)1691	Cantharellales Gäum.	I. Dickie	cone	Pinus radiata D.Don	Pelorus Bridge Scenic Reserve	I. Dickie	13/05/2024
PDD 124386	2024/1753	Austropaxillus squarrosus (McNabb) Bresinsky & Jarosch 1999	J.A. Cooper	Soil	Nothofagus	Pelorus Bridge Scenic Reserve	Z. Marion	13/05/2024
PDD 124415	2024/191	Entoloma (Fr.) P. Kumm. 1871	J. Davies	soil		Pelorus Bridge Scenic Reserve	J. Davies	16/05/2024
PDD 124416	2024/197	Neobarya agaricicola (Berk.) Samuels & Lowen	P. Gloyn	mushroom		Pelorus Bridge Scenic Reserve	D. Griffin	16/05/2024
PDD 124430	2024/348	Chalciporus sp. 'Walker Rd (PDD 113068)' J.A. Cooper ined.	J.A. Cooper	soil		Pelorus Bridge Scenic Reserve	G. Harrison	16/05/2024

PDD 124454	2024/490	Chlorenchocelia J.R. Dixon	P.R. Johnston	wood		Pelorus Bridge Scenic Reserve	H.S. Chan	16/05/2024
PDD 124434	2024/363	Cortinarius (Pers.) Gray 1821	J.A. Cooper	soil	Nothofagaceae	Pelorus Bridge Scenic Reserve	H.S. Chan	16/05/2024
PDD 123643	2024/1103	Tylopilus P. Karst.	P.K. Buchanan	ground	Nothofagaceae	Pelorus Bridge Scenic Reserve	D. McLean	13/05/2024
NZFRIM6100	2024/1149	Hymenochaete microcycla (Zipp. ex Lév.) Spirin & Miettinen 2019	P. Gloyn	Wood, large	fallen tree	Pelorus Bridge Scenic Reserve	M.J. Bartlett	13/05/2024
NZFRIM6101	2024/1143	Hypholoma brunneum (Masse) D.A. Reid 1956	M.J. Bartlett	Wood, large	fallen tree	Pelorus Bridge Scenic Reserve	M.J. Bartlett	13/05/2024
NZFRIM6102	2024/1148	Nidula sp.		Wood, living on bark	Prumnopitys ferruginea	Pelorus Bridge Scenic Reserve	M.J. Bartlett	13/05/2024
NZFRIM6103	2024/1166	Melanophyllum haematospermum (Bull. ex Pers.) Kreisel 1984	M.J. Bartlett	Soil, near base of dead standing tree	Nearby Dacrydium cupressinum	Pelorus Bridge Scenic Reserve	M.J. Bartlett	13/05/2024
NZFRIM6107	2024/1154	Postia atrostrigosa (Cooke) Rajchenb. 1995	M.J. Bartlett	wood, fallen tree decorticated	Nearby Pectinopitys ferruginea & Beilschmiedia tawa	Pelorus Bridge Scenic Reserve	M.J. Bartlett	13/05/2024
NZFRIM6108	2024/0706	Armillaria limonea (G. Stev.) Boesew. 1977	A. Bradshaw	Wood	Dacrydium cupressinum	Pelorus Bridge Scenic Reserve	A. Bradshaw	14/05/2024
OTA 75870	2024/0031	Agaricales sp.		Wood	Mixed beech, podocarp	Pelorus Bridge Scenic Reserve	D. Lyttle	13/05/2024
ICMP 25462	2024/751	Penicillium lanosum Westling	D. Lee	Cocoon	Coleoptera	Pelorus Bridge Scenic Reserve	B. Menger	14/05/2024
ICMP 25469	2024/1224	Hypomyces aurantius (Pers.) Tul. & C. Tul. 1860	D. Lee	Well decayed wood		Pelorus Bridge Scenic Reserve	G. Cox	14/05/2024
ICMP 25475	2024/1710	Penicillium spathulatum Frisvad & Samson - contam.	D. Lee	Dead wood		Pelorus Bridge Scenic Reserve	D. Lee	14/05/2024
ICMP 25485	2024/1701	Trichoderma contam.	D. Lee	Trunk, low and down	Nothofagus	Pelorus Bridge Scenic Reserve	Ian Dickie	13/05/2024
ICMP 25489	2024/1823	Coprinellus sp. 'Mt Lyford'	D. Lee	Dead twig		Pelorus Bridge Scenic Reserve	B.S. Weir	14/05/2024
ICMP 25494	2024/1720	Akanthomyces Lebert	D. Lee	Rotten wood		Pelorus Bridge Scenic Reserve	D. Lee	14/05/2024

ICMP 25495	2024/1831	Fusarium babinda Summerell, C.A. Rugg & L.W. Burgess	D. Lee	dead wood		Pelorus Bridge Scenic Reserve	B.S. Weir	14/05/2024
PDD 124413	2024/171	Russula inquinata McNabb	J. Davies	soil	Nothofagaceae	Pelorus Bridge Scenic Reserve, Circle Track	J. Davies	17/05/2024
PDD 123675	2024/1568	Amanita Pers. 1797	J. Davies	Beech/ Podocarp		Pelorus Bridge Scenic Reserve, Circle Track	J. Davies	17/05/2024
PDD 123650	2024/1132	Lepiota (Pers.) Gray	M. Padamsee	soil		Pelorus Bridge Scenic Reserve, Circle Track	M. Padamsee	14/05/2024
PDD 123679	2024/1626	Amanita karea G.S. Ridl.	J. Davies		Nothofagaceae	Pelorus Bridge Scenic Reserve, Circle Track	J. Davies	17/05/2024
PDD 123648	2024/1126	Psathyrella (Fr.) Quél. 1872	M. Padamsee	soil		Pelorus Bridge Scenic Reserve, Circle Track	M. Padamsee	14/05/2024
PDD 123640	2024/1078	Russula Pers.	M. Padamsee		Nothofagaceae	Pelorus Bridge Scenic Reserve, Circle Track	M. Padamsee	14/05/2024
PDD 123678	2024/1620	Clavulina J. Schröt.	J. Davies	soil	Podocarpaceae	Pelorus Bridge Scenic Reserve, Circle Track	J. Davies	17/05/2024
PDD 124451	2024/452	Cortinarius tessiae Soop	H.S. Chan	soil	Nothofagaceae	Pelorus Bridge Scenic Reserve, Circle Track	H.S. Chan	17/05/2024
PDD 124449	2024/422	Austroboletus novae-zelandiae (McNabb) Wolfe	H.S. Chan	soil	Nothofagaceae	Pelorus Bridge Scenic Reserve, Circle Track	H.S. Chan	17/05/2024
PDD 124453	2024/480	Ramaria Fr. ex Bonord.	H.S. Chan	soil	Nothofagaceae	Pelorus Bridge Scenic Reserve, Circle Track	H.S. Chan	17/05/2024
PDD 124447	2024/415	Trametes versicolor (L.) Lloyd	P. Gloyn	wood	Nothofagaceae	Pelorus Bridge Scenic Reserve, Circle Track	P. Gloyn	15/05/2024
PDD 123626	2024/956	Polyporus xerophyllus Berk.	P. Gloyn	wood	Nothofagaceae	Pelorus Bridge Scenic Reserve, Circle Track	P. Gloyn	17/05/2024
PDD 124469	2024/646	Helotiaceae Rehm 1892 [1896]	P.R. Johnston	rotten wood blackened		Pelorus Bridge Scenic Reserve, Circle Track	R. Johansen	13/05/2024
PDD 124420	2024/273	Pleurella ardesiaca (G. Stev. & G.M. Taylor) E. Horak	A. Chinn	decayed log		Pelorus Bridge Scenic Reserve, Circle Track	J. Plowman	17/05/2024
PDD 124473	2024/583	Amanita taiepa G.S. Ridl.	L. Dickie	soil, leaf litter		Pelorus Bridge Scenic Reserve, Circle Track	J. Plowman	17/05/2024
PDD 124526	2024/1802	Cortinarius (Pers.) Gray 1821	M. Padamsee		Nothofagaceae	Pelorus Bridge Scenic Reserve, Circle Track	M. Padamsee	14/05/2024
PDD 123647	2024/1127	Tylopilus brunneus (McNabb) Wolfe	J.A. Cooper	soil	Nothofagaceae	Pelorus Bridge Scenic Reserve, Circle Track	L. Sheppard	13/05/2024
OTA 75858	2024/0019	Lacrymaria sp.	D. Orlovich	Soil	Mixed beech, podocarp	Pelorus Bridge Scenic Reserve, Circle Track	A. Nilsen	13/05/2024

OTA 75860	2024/0013	Leucoagaricus sp.		Soil	Mixed beech, podocarp	Pelorus Bridge Scenic Reserve, Circle Track	A. Nilsen	13/05/2024
OTA 75861	2024/0043	Austroboletus novae-zelandiae	A. Nilsen	Soil	Mixed beech, podocarp	Pelorus Bridge Scenic Reserve, Circle Track	A. Nilsen	13/05/2024
OTA 75862	2024/0049	Fistulinella viscida	R. Halling	Soil	Mixed beech, podocarp	Pelorus Bridge Scenic Reserve, Circle Track	A. Nilsen	13/05/2024
OTA 75863	2024/0007	Lacrymaria asperospora	D. Orlovich	Soil	Mixed beech, podocarp	Pelorus Bridge Scenic Reserve, Circle Track	A. Nilsen	13/05/2024
OTA 75864	2024/0066	Cortinarius sp.		Soil	Mixed beech, podocarp	Pelorus Bridge Scenic Reserve, Circle Track	A. Nilsen	13/05/2024
OTA 75866	2024/1093	Lycoperdon sp.		Soil	Mixed beech, podocarp	Pelorus Bridge Scenic Reserve, Circle Track	D. Orlovich	13/05/2024
OTA 75867	2024/1088	Agaricales sp.		Soil	Mixed beech, podocarp	Pelorus Bridge Scenic Reserve, Circle Track	D. Orlovich	13/05/2024
OTA 75868	2024/1123	Agaricaceae sp.		Soil	Mixed beech, podocarp	Pelorus Bridge Scenic Reserve, Circle Track	E. van Zuylen	13/05/2024
OTA 75869	2024/1086	Chalciporus piperatus	A. Nilsen	Soil	Mixed beech, podocarp	Pelorus Bridge Scenic Reserve, Circle Track	A. Nilsen	13/05/2024
OTA 75871	2024/0037	Cortinarius sp.		Soil	Mixed beech, podocarp	Pelorus Bridge Scenic Reserve, Circle Track	A. Nilsen	13/05/2024
OTA 75872	2024/0055	Chalciporus sp.		Soil	Mixed beech, podocarp	Pelorus Bridge Scenic Reserve, Circle Track	D. Orlovich	13/05/2024
OTA 75873	2024/0061	Trametes coccinea		Wood	Mixed beech, podocarp	Pelorus Bridge Scenic Reserve, Circle Track	D. Orlovich	13/05/2024
OTA 75874	2024/0001	Armillaria limonea		Wood (fallen branch)	Mixed beech, podocarp	Pelorus Bridge Scenic Reserve, Circle Track	A. Nilsen	13/05/2024
OTA 75875	2024/1076	Amanita sp.		Soil	Mixed beech, podocarp	Pelorus Bridge Scenic Reserve, Circle Track	D. Orlovich	13/05/2024
OTA 75876	2024/0078	Lepiota sp.		Soil	Mixed beech, podocarp	Pelorus Bridge Scenic Reserve, Circle Track	A. Nilsen	13/05/2024
OTA 75878	2024/0072	Coltricia sp.		Soil	Mixed beech, podocarp	Pelorus Bridge Scenic Reserve, Circle Track	A. Nilsen	13/05/2024
OTA 75879	2024/0060	Cortinarius sp.		Soil	Mixed beech, podocarp, tea tree	Pelorus Bridge Scenic Reserve, Circle Track	A. Nilsen	13/05/2024
OTA 75952	2024/1563	Cortinarius sp.		Soil	Mixed Nothofagus	Pelorus Bridge Scenic Reserve, Circle Track	D. Whyte	17/05/2024

OTA 75967	2024/0926	Cortinarius dulciolens	D. Orlovich	Soil	Nothofagus	Pelorus Bridge Scenic Reserve, Circle Track	P. Gloyn	17/05/2024
PDD 124440	2024/382	Ramariopsis bicolor R.H. Petersen	J.A. Cooper	Soil in leaf litter, beech forest		Pelorus Bridge Scenic Reserve, Circle Track	G. Harrison	17/05/2024
PDD 124380	2024/1716	Hypocreales Lindau 1897	P.R. Johnston	dead wood		Pelorus Bridge Scenic Reserve, Elvy Waterfalls Track	P.R. Johnston	14/05/2024
PDD 124387	2024/1762	Mycena roseoflava G. Stev.	P.R. Johnston	dead wood		Pelorus Bridge Scenic Reserve, Elvy Waterfalls Track	P.R. Johnston	14/05/2024
PDD 124432	2024/356	Agaricus L. 1753		clay bank under Nothofagus	Nothofagus	Pelorus Bridge Scenic Reserve, Elvy Waterfalls Track	P.R. Johnston	14/05/2024
PDD 124429	2024/344	Sclerococcum striatum P.R. Johnst.	P.R. Johnston	fallen wood		Pelorus Bridge Scenic Reserve, Elvy Waterfalls Track	D. Lee	14/05/2024
PDD 124436	2024/367	Thaxterogaster castoreus (Soop) Niskanen & Liimat.	D. Whyte	duff/soil	Nothofagaceae	Pelorus Bridge Scenic Reserve, Elvy Waterfalls Track	D. Whyte	17/05/2024
PDD 124381	2024/1722	Helotiaceae Rehm 1892 [1896]	P.R. Johnston	dead wood		Pelorus Bridge Scenic Reserve, Elvy Waterfalls Track	P.R. Johnston	14/05/2024
PDD 124383	2024/1734	Chlorociboria duriligna P.R. Johnst. 2005	P.R. Johnston	Dead wood		Pelorus Bridge Scenic Reserve, Elvy Waterfalls Track	P.R. Johnston	14/05/2024
PDD 124385	2024/1750	Annulohypoxylon Y.M. Ju, J.D. Rogers & H.M. Hsieh	P.R. Johnston	dead branch, not Nothofagus		Pelorus Bridge Scenic Reserve, Elvy Waterfalls Track	P.R. Johnston	14/05/2024
PDD 124390	2024/1768	Tubaria rufofulva (Cleland) D.A. Reid & E. Horak	J.A. Cooper	dead wood		Pelorus Bridge Scenic Reserve, Elvy Waterfalls Track	P.R. Johnston	14/05/2024
PDD 124379	2024/1710	Ramariopsis (Donk) Corner	B.S. Weir	Dead wood		Pelorus Bridge Scenic Reserve, Elvy Waterfalls Track	D. Lee	14/05/2024
PDD 124460	2024/423	Trametes versicolor (L.) Lloyd	P. Gloyn	wood	Nothofagaceae	Pelorus Bridge Scenic Reserve, Mungatapu Rd.	P. Gloyn	17/05/2024
PDD 123636	2024/1062	Calostoma Desv.	A.J. Stanton	clay soil bank amongst bryophytes		Pelorus Bridge Scenic Reserve, path to Circle Track	A.J. Stanton	14/05/2024

PDD 124414	2024/177	Basidiomycetes G. Winter		stick on ground in leaf litter	Fuscospora solandri	Pelorus Bridge Scenic Reserve, Tawa Walk	Danelle	16/05/2024
PDD 124417	2024/209	Pluteus Fr. 1836	D. Griffin	rotten wood		Pelorus Bridge Scenic Reserve, Tawa Walk	D. Griffin	16/05/2024
OTA 75857	2024/0025	Leucoagaricus sp.		Soil	Mixed beech, podocarp	Pelorus Bridge Scenic Reserve, Tawa Walk	D. Orlovich	13/05/2024
OTA 75859	2024/1016	Agaricus sp.	D. Orlovich	Soil	Mixed beech, podocarp	Pelorus Bridge Scenic Reserve, Tawa Walk	D. Orlovich	13/05/2024
OTA 75877	2024/1110	Cortinarius sp.		Soil	Mixed beech, podocarp	Pelorus Bridge Scenic Reserve, Tawa Walk	D. Orlovich	13/05/2024
OTA 75880	2024/1028	Paurocotylis pila	D. Orlovich	Soil	Mixed beech, podocarp	Pelorus Bridge Scenic Reserve, Tawa Walk	D. Orlovich	13/05/2024
PDD 123633	2024/1039	Ramaria Fr. ex Bonord.	P. Gloyn	soil		Pelorus Bridge Scenic Reserve, Te Hoire	T. Porter-Rawiri	13/05/2024
PDD 123645	2024/1114	Clitocybula (Singer) Singer ex Métrod 1952	M. Padamsee	on fallen twig		Pelorus Bridge Scenic Reserve, Totara Track	M. Padamsee	14/05/2024
PDD 123641	2024/1084	Fomitiporia Murrill 1907	P. Gloyn	decorticated downed log		Pelorus Bridge Scenic Reserve, Totara Track	M. Padamsee	14/05/2024
PDD 123644	2024/1108	Psathyrella (Fr.) Quél. 1872	M. Padamsee	mossy well rotted stump		Pelorus Bridge Scenic Reserve, Totara Track	M. Padamsee	14/05/2024
PDD 123646	2024/1119	Mycena sp. 'Ahuriri Reserve (PDD 80918)' J.A. Cooper ined.	J.A. Cooper	decorticated log		Pelorus Bridge Scenic Reserve, Totara Track	M. Padamsee	14/05/2024
OTA 75865	2024/0071	Descolea sp.		Soil	Mixed beech, podocarp	Pelorus Bridge Scenic Reserve, Totara Track	A. Nilsen	13/05/2024
PDD 123660	2024/1181	Clitocybe (Fr.) Staude	M. Padamsee	soil		Pelorus Bridge Scenic Reserve, Totara Track	M. Padamsee	14/05/2024
PDD 123630	2024/990	Psathyrella echinata (Cleland) Grgur.	D. Whyte	rotten wood	Fuscospora solandri	Pelorus Bridge Scenic Reserve, Totara Track	D. Whyte	13/05/2024
PDD 123635	2024/1050	Lentinula novae-zelandiae (G. Stev.) Pegler	M. Padamsee	rotting log		Pelorus Bridge Scenic Reserve, Totara Track	A.J. Stanton	14/05/2024
PDD 123642	2024/1102	Leptonia (Fr.) P. Kumm.	M. Padamsee	soil under beech	Nothofagaceae	Pelorus Bridge Scenic Reserve, Totara Track	M. Padamsee	14/05/2024
ICMP 25460	2024/1084	Odiendendron contam.	D. Lee	Decorticated downed log		Pelorus Bridge Scenic Reserve, Totara Track	M. Padamsee	14/05/2024
ICMP 25487	2024/1175	Rhinocladiella Nannf. 1934	D. Lee	Bare log		Pelorus Bridge Scenic Reserve, Totara Track	M. Padamsee	14/05/2024
ICMP 25627	2024/1175	Alternaria Nees 1816-17	D. Lee	Bare log		Pelorus Bridge Scenic Reserve, Totara Track	M. Padamsee	14/05/2024

PDD 124382	2024/1729	Postia atrostrigosa (Cooke) Rajchenb.	J.A. Cooper	dead wood		Pelorus Bridge Scenic Reserve, track to Trig K	L. Dickie	13/05/2024
PDD 124384	2024/1735	Cortinarius purpureocapitatus X. Yue Wang, J.A. Cooper, A.R. Nilsen & Orlovich	L. Dickie	soil	Nothofagaceae	Pelorus Bridge Scenic Reserve, track to Trig K	L. Dickie	13/05/2024

Appendix 2: Mycology Colloquium programme

Wednesday 15 May 2024

22nd Mycology Colloquium Program

Time	Speaker ¹	Title
9:00–9:05	David Orlovich	Welcome and housekeeping
9:05 – 9:25	David Hera	What makes our native oyster mushrooms unique? An updated multigene phylogeny and morphological observations of <i>Pleurotus</i> in Aotearoa
9:25 – 9:45	Vladislav Kholostiakov	Can the seed microbiome of <i>Metrosideros excelsa</i> (pōhutukawa) accelerate seedling growth and enable protection from fungal pathogens?
9:45 – 10:05	George Cox	Elusive and ephemeral: Challenges in studying the ecology of slime moulds in Aotearoa New Zealand.
10:05 – 10:25	Ilaria La Bianca	Kānuka soil microbiome resistance and resilience to moisture stress
10:25–11:00	Morning Tea	
11:00–11:20	Tere Porter-Rawiri	Exploring fungal diversity: The Puāwaitanga of restored Wairarapa Wetlands?
11:20–11:40	Sam Lasham	The psilocybin mushroom entourage effect
11:40–12:00	Andy Nilsen	Getting blood from a stone: using traditional and modern techniques for sequencing degraded (type) specimens
12:00 – 12:20	David Orlovich	Type studies of the elegant blue webcap (<i>Cortinarius rotundisporus</i>) and relatives
12:20–1:20	Lunch	
1:20–1:30	Foray photo	
1:30–1:50	David Whyte	iNaturalist basidiomycetes data set: What can it tell us?
1:50–2:10	David Lyttle	New records of <i>Deconica baylisiana</i>
2:10–2:30	Ian Dickie	Linked plant-fungal invasions and their implications for indigenous ecosystems
2:30–2:50	Peter Johnston	Here yesterday, gone today - the moveable feast of what is 'Present in New Zealand'
2:50–3:20	Afternoon Tea	
3:20 – 3:40	Duckchul Park	From trash to taonga — Fungi on Maungatautari
3:40 – 4:00	Bevan Weir	Global diversity analysis of plant-associated <i>Pseudopithomyces</i> fungi associated with facial eczema in livestock

What makes our native oyster mushrooms unique? An updated multigene phylogeny and morphological observations of *Pleurotus* in Aotearoa

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Can molecular and morphological data shed more light on the *Pleurotus* species of Aotearoa? *Pleurotus* is a genus of white rot wood decay fungi with more than 200 species currently described around the world. The five species of this genus in Aotearoa have quite distinct genotypes and phenotypes, which I am exploring here. I am particularly focusing on *P. pulmonarius*, the grey oyster mushroom, testing the hypothesis that native *P. pulmonarius* strains are genetically distinct from imported international ones. Utilizing both historical and recent collections, I sequenced five rDNA loci to construct a multigene phylogeny that clarifies the taxonomic status of wild versus imported strains of *P. australis*, *P. djamor*, *P. parsonsiae*, *P. purpureo-olivaceus* and *P. pulmonarius*. *P. pulmonarius* is the only species in Aotearoa that is found both in the wild and is imported from overseas for cultivation. Early records suggest its presence in Aotearoa prior to its documented importation for cultivation in the 1990s, so while some imported strains may have escaped cultivation, there are older wild populations here. In this study, both phylogenetic and morphological data support that native *P. pulmonarius* strains form a distinctively separate clade from international strains. I further showcase the unique asexual growth habit of *P. australis*, and the close relatedness of the exotic pink oyster mushroom *P. djamor* and our native *P. parsonsiae*, both genetically and in their phenotypic traits. The variation of this genus in Aotearoa is remarkable, both in the wild and cultivation. In terms of native edible mushroom production, *P. australis* is very slow to grow and *P. purpureo-olivaceus* has not been successfully cultivated at all yet. The native *P. pulmonarius* clade shows the biggest promise for larger scale cultivation.

Can the seed microbiome of *Metrosideros excelsa* (pōhutukawa) accelerate seedling growth and enable protection from fungal pathogens?

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Seeds contain diverse microbial communities, including bacteria and fungi, which are beneficial for plant development and protection against phytopathogens. The fungal pathogen *Austropuccinia psidii* is the causal agent of myrtle rust, which poses a severe threat to New Zealand endemic Myrtaceae such as *Metrosideros excelsa*. We hypothesised that *M. excelsa* seedlings contain seed-derived microbiomes that may contribute to observed variation in susceptibility to *A. psidii*. Sixteen bacterial 3 taxa and 22 species of fungi were isolated on four types of media from the seeds of 30 *M. excelsa* trees. Species assemblies of seedborne microorganisms varied between individual trees, and some trees accumulated putatively beneficial endophytes. Based on literature records, 14 bacterial isolates were identified as potentially beneficial endophytes, which were retained for dual culture assays with seed-borne fungi and

further seed inoculation experiments. A dual culture assay demonstrated that seed-borne *Bacillus* spp. and *Priestia* sp. are potent fungal antagonists, including seed-borne pathogens from genera *Alternaria*, *Colletotrichum*, *Cytospora*, and *Neofusicoccum*. Two *Bacillus* isolates effectively suppressed all tested fungi, with average inhibition rates of 71–77%, as well as *Bacillus* sp. isolate U5 was able to inhibit the germination of *A. psidii* urediniospores. In contrast, *Mycolicibacterium* sp. and two isolates of *Methylobacterium* facilitated the growth of *Alternaria* sp. *Methylobacterium* sp. isolate U4 also stimulated the growth of *Cladosporium* sp., *Colletotrichum* sp., and *Pestalotiopsis* sp. The seed inoculation experiments demonstrated that *Kocuria palustris*, *Paenibacillus* sp., and *Penicillium* sp. significantly enhanced the shoot and root development of *M. excelsa* seedlings. These results indicate that species arrival order might shape seed microbial assembly, and final species composition may affect seedling growth and protection against pathogens.

Elusive and ephemeral: Challenges in studying the ecology of slime moulds in Aotearoa New Zealand.

George Cox, Ian Dickie

School of Biological Sciences, University of Canterbury

Slime moulds are important microbial predators with complex life cycles and behaviours, yet they have received little attention from ecologists. As part of my Masters project, I aimed to understand how human induced changes to plant communities impacted slime moulds and other soil microeukaryotes. However, during the course of this project I encountered difficulties in finding, culturing, sequencing, and identifying slime moulds. Detecting ecological patterns in the slime mould community proved difficult, although novel slime mould sequence data was generated. I will discuss the challenges facing future slime mould research and why it is still important to understand the ecology of slime moulds and other often forgotten organisms.

Kānuka soil microbiome resistance and resilience to moisture stress

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Kānuka (*Kunzea ericoides*) is an indigenous tree fundamentally important for reforestation, habitat regeneration, carbon sequestration, and biodiversity. Kānuka is well known for its ability to inhabit infertile terrain and its tolerance of drought and water logging. Kānuka is a pioneer species and establishes well when planted from nursery stock. However, the ability to undertake widespread restoration with kānuka is severely limited by failure of direct sown seeds. As part of my PhD, I study the impact of the soil microbiome on kānuka seedling responses to moisture stress and on seedling establishment. I focus on soil microbial community adaptation to site specific abiotic conditions and whether these adaptations influence soil and plant responses to moisture stress. I consider 30 sites across Horomaka/Banks Peninsula which range in elevation and mean annual precipitation and I test soil and plant responses to drought and flooding. Soil microbiome responses to moisture stress are tested to understand whether specific drought and/or flooding resistant microbial communities could enhance kānuka responses to drought and flooding.

Exploring fungal diversity: The Puāwaitanga of restored Wairarapa Wetlands?

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Wairarapa Wetlands, like many worldwide, face degradation, prompting restoration efforts. Despite their vital role in ecosystem health, wetlands and fungi are often overlooked, as insufficient data hinders our understanding of fungi's ecological importance. While tangata whenua connections to repo (wetlands) are well documented, the relationship between Māori with fungi remains limited to traditional uses. In this era of nurturing the evolution of mātauranga Māori, there's a chance to expand our understanding of ecological restoration and diverse fungi. By aligning mātauranga Māori with scientific methods, I hope to gain a holistic understanding of how fungal communities in Wairarapa wetland forests respond to restoration efforts, and to identify fungal communities as indicators of restored processes, framed in the context of te ao Māori. I will interview tangata whenua connected to Wairarapa to explore Indigenous ties to place and how fungi fit in with their environmental aspirations for wetlands. I will also sequence and analyse soil samples from different ecosystem states within Wairarapa wetland sites using environmental DNA (eDNA) techniques. Ultimately, this work seeks to contribute to improved wetland restoration outcomes that align with te ao Māori.

The psilocybin mushroom entourage effect.

Sam Lasham

School of Pharmacy, University of Auckland

Psilocybin mushrooms have been used for spiritual, therapeutic, and recreational purposes for centuries and now, western science is beginning to research their primary active constituent, psilocybin, for use in mental health treatment. Whilst this research grows in popularity globally, it has been questioned by many whether the effects of consuming a singular synthetic chemical (psilocybin) is the same as the traditional method of consuming whole mushrooms, which contain a number of compounds. This talk will give an overview of recently published literature that shows results from in vitro and animal studies suggesting that psilocybin mushrooms may be far more pharmacologically complex than just being vessels for psilocybin.

Getting blood from a stone: using traditional and modern techniques for sequencing degraded (type) specimens

Andy Nilsen, David Orlovich

Department of Botany, University of Otago

Herbaria are an invaluable resource of biodiversity data. Many collections lodged at herbaria were done so in the pre-molecular era and require sequencing of DNA barcodes for unequivocal identification. This is especially true for type collections, which

are physical, representative specimens for a species name. The lack of DNA barcodes from type collections can impede future species descriptions because of their uncertain identification. Typically, collections degrade over time making older material harder to obtain DNA barcodes from. Here I discuss the use of traditional and modern methods to sequence DNA barcodes from collections, including types, from the New Zealand Fungarium (PDD) and the State Herbarium of South Australia (AD). We found that collections nearing 60 years old were on the cusp of what traditional methods were capable of resolving. Using modern methods, we were able to elucidate the identity of over 100-year-old collections. We were also able to capture a snapshot of potential epiphytic organisms and contaminants on collections using modern methods.

Type studies of the elegant blue webcap (*Cortinarius rotundisporus*) and relatives

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At the 2009 NZ Fungal Foray, Lucas and Orlovich (Mycology Colloquium 2009) presented an overview of the taxonomic history of the elegant blue webcap, *Cortinarius rotundisporus* Clel. & Cheel and relatives. At the time, work was hampered by a lack of DNA sequences of nomenclatural type collections, and since then we have been trying to rectify that! Briefly, Cleland and co-authors described three similar species, *C. rotundisporus*, *C. oleaginus* Clel. & J. Harris and *C. austroevernius* Clel. & Cheel. The three species have been considered by some authors (e.g., Horak and Wood 1990) to be synonymous, but others (e.g., Grgurinovic 1997) retained these as separate species. Morphologically similar species related to *C. rotundisporus* have also been described from Aotearoa/New Zealand (e.g., *C. calaisopus* Soop and *C. tessiae* Soop), but the presence of those species in Australia has never been determined. The cryptic nature of all these species, and the lack of Australasian comparative phylogenetic studies, makes it difficult to apply names with confidence. In 1999, Sawyer *et al.* studied the genetic variation of *C. rotundisporus* in northern Sydney, NSW and found three phylogenetically distinct internal transcribed spacer (ITS) types (RFLP Types I, II and III), but the relationship of these ITS types to other described species was not determined. We obtained Australian material from JB Cleland's collections (including nomenclatural type specimens) from the State Herbarium of Adelaide (AD), Alec Wood's collections from NSW (collected mostly around Sydney) from the John T. Waterhouse Herbarium (UNSW) and collections made by Nicole Sawyer from Western Sydney University, and collections from Aotearoa/New Zealand from the Otago Regional Herbarium OTA and the New Zealand Fungarium (PDD). Where possible, we sequenced the internal transcribed spacer region, the large ribosomal subunit and other markers as required. Where the specimens were too old to amplify markers for Sanger sequencing, we sequenced the entire genome using methods described by Nilsen and Orlovich in the previous talk and extracted the genes/markers from the genome assemblies. Using this combined approach, we determined the phylogenetic position of many of these cryptic species. We will describe our progress towards clarifying which names to apply to collections of the elegant blue webcap and its relatives in Aotearoa New Zealand and Australia.

iNaturalist basidiomycetes data set: What can it tell us?

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iNaturalist is a citizen science site for recording nature observations in New Zealand. It has approximately 220,000 fungal observations, including lichens. So is a large data set. Using everyday software the basidiomycetes dataset was investigated. It was found that the number of observations and number of research grade (RG) observations are growing linearly and a predicted ~45,000 observations will be recorded this calendar year. The quality of the data is also improving with more RG observations being recorded. Research Grade observations are ones that two or more people have stated the same species ID and the observation is well documented (location, date stamp etc.). The number of RG species observed is also growing linearly with a predicted number of 723 species. The number of active members uploading content could be following an S curve with ~4000 unique accounts uploading fungi observations in 2023. The frequency of observation of particular species, unsurprisingly, follows an exponential decay, with a very long tail. The maximum number of RG observations by a single person was ~250, whereas the maximum number of RG species observed was ~85. Using the 2023 data set, the window of fruiting can be observed. The latitude of the observation can be easily obtained and combining with the date, a plot can be produced that shows when species are fruiting at various locations throughout New Zealand. Surprising results were obtained, and future work could be undertaken in this space by someone who can manipulate larger datasets more easily so that multiple years can be plotted on one graph.

New records of *Deconica baylisiana*

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The fungus *Deconica baylisiana* was originally discovered on the Rock and Pillar Range by Professor Geoff Baylis of the Botany Department, University of Otago and named for him by Egon Horak as *Nivatogastrium baylisianum* (Horak, E. (1971) *New Zealand Journal of Botany* **9**: 3). The collection date of the type specimen was April 1969. Subsequently, further specimens were collected by the Dunedin naturalist Kathy Warburton in December 2013. Sequence analysis of the ITS & LSU regions (Cooper, J.A. (2014). *Index Fungorum* **193**: 1) showed it to be a member of the genus *Deconica*. Due to its extreme rarity (known from three records, in three sites over an 83-year period) it was placed on the IUCN Red List for New Zealand fungi as a critically endangered species. At the Stewart Island NZ Fungal Foray in 2021, Lyttle *et al.* reported the finding of *Deconica baylisiana* at a new, alpine location at 1640 m, on the Old Woman Range in Central Otago. In the present talk, we will report further findings in new alpine areas in Central Otago and Rakiura, extending the range of the species. One collection was cultured successfully by Dr Andy Nilsen and is deposited in the International Collection of Microorganisms (ICMP24869).

Linked plant-fungal invasions and their implications for indigenous ecosystems

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More than half the plant species in Aotearoa NZ are now non-native, invasive species and these non-native species increasingly dominate ecosystems. Fungi are playing a key role in plant invasions and their impacts. In particular, co-invading ectomycorrhizal fungi are critical to the establishment and ecological impacts of wilding conifers (e.g., pine, Douglas-fir) and a number of other trees. Pathogenic fungi also occur on invasive plants, but rather than pathogenic fungi necessarily suppressing invasives, spill-over of fungal pathogens from invasive to indigenous plant species may actually further amplify the invasion process. Thus, the long-held concept of “enemy escape” driving invasion may be exactly wrong – it is the accumulation of fungi (both mutualists and pathogens) that may be driving invasive plant dominance of indigenous ecosystems.

Here yesterday, gone today - the moveable feast of what is ‘Present in New Zealand’

Peter Johnston, Jerry Cooper, Diana Lee, Duckchul Park, Natalie Morse

Manaanki Whenua – Landcare Research

New Zealand's agriculture-based economy means that the country has always had a strong interest in plant and animal health, including the fungi and bacteria that cause plant diseases. The first published catalogue of New Zealand plant diseases was compiled in 1939 by R.M. Brien, and several supplements were issued in the 1950's as Joan Dingley and others made efforts to better characterise the plant pathogenic fungi of New Zealand. Joan Dingley's 1969 'Records of Plant Diseases in New Zealand' collated all of this earlier data and added many new records. Many of the new records were based on specimens deposited in the fungal herbarium of the Plant Diseases Division of DSIR (PDD - these days known as the New Zealand Fungarium, but with the same official acronym of PDD) and the ICMP culture collection (started by DSIR and these days maintained by Manaaki Whenua alongside the dried specimens in PDD). Twenty years later, Shaun Pennycook updated Dingley 1969 in his compilation 'Plant Diseases Recorded in New Zealand'. The data from Pennycook 1989 was digitised and became the first iteration of the web-based NZFungi database, these days part of the data delivered through the Manaaki Whenua BiotaNZ web pages. BiotaNZ attempts to record all of the fungi reported from New Zealand, their synonymy and current name, host associations, and whether they are exotic or indigenous. These data are essential for managing New Zealand's border biosecurity, for understanding the health of plants of importance to New Zealand's economy, and as basic data to support applied studies such as developing new methods of disease control or interpreting eDNA survey results. Our present-day databases rely heavily on historical data, the names of pathogens and their hosts published in the literature right back to the 1930's, names provided for specimens deposited in PDD and other fungaria over the last 100 years, and increasingly on the names attached to DNA sequence accessions in GenBank. All of these data sources have their issues of reliability. We will discuss results from several recent studies that have tested the accuracy of some of the sources of the historical data delivered through BiotaNZ, through validation of the names attached to cultures in

the ICMP culture collection. The advantage of targeting living cultures is that DNA can be readily extracted, the sequences allowing the specimens to be placed in a modern taxonomic framework.

From trash to taonga — Fungi on Maungatautari

Duckchul Park, Andrew Dopheide

Manaaki Whenua – Landcare Research, Auckland, New Zealand

Many specimens collected from the Fungal Foray are discarded without proper identification or DNA testing due to time or cost constraints. Hence, we conducted this experiment using nanopore amplicon sequencing to obtain high-accuracy sequences at a low cost and in minimal time using discarded specimens. We took a small amount of tissue from 111 specimens collected from Maungatautari last year and combined them. From this, we performed DNA extraction, ITS/LSU PCR and proceeded with nanopore sequencing using a recently developed flowcell/library kit/basecaller boasting an accuracy of over 99%. This approach yielded approximately 50 OTUs. Upon comparison with the ID information provided by the collector, we discovered that about 70% of the OTUs matched, unveiling numerous new OTUs.

Global diversity analysis of plant-associated *Pseudopithomyces* fungi associated with facial eczema in livestock

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Facial eczema (FE) in ruminants is associated with the fungal toxin sporidesmin that can cause significant mortality in grazing livestock. Incidences are particularly severe in New Zealand but are reported worldwide. The syndrome has historically been attributed to *Pithomyces chartarum*, a species transferred to *Pseudopithomyces* in 2015, however the classification of many other *Pithomyces* species remains unresolved. In this study we investigate the taxonomy of *Pseudopithomyces* using modern species concepts and clarify which species make sporidesmin. Fungal isolates were spore-purified from grass samples obtained from New Zealand farms in 2022, and from roadside collections in 2014, 2019, 2020 and 2021. International isolates, including all available types, and historic isolates deposited in the International Collection of Microorganisms from Plants (ICMP) were also evaluated. Phylogenetic analyses of the ITS region plus four concatenated protein coding genes distinguished 15 species in the genus, including new species and novel taxonomic combinations. Two species were recovered from pasture grass samples collected from the North and South Islands, with only one predominately associated with toxin production.