

How to prepare soil samples for submission to the Australian Cereal Rust Control Program (ACRCP) pilot study: Agricultural DMIs as drivers of antifungal resistance in plant pathogens

1. Collecting soil samples

We would appreciate any soil samples that can be collected alongside Australian Cereal Rust Survey samples. We ask that you take soil from the location where a cereal rust sample has also been taken.

- Remove the top 2 cm of soil to discard overlying litter or humus.
- Take a small amount of soil (~100 g) from the next 5–10 cm using hand trowel sterilized in 70% ethanol.
 - At each plot, collect 3x different soil samples and then mix thoroughly into one bag to ensure homogeneity.
 - Remove large foreign materials like stones, pebbles and gravel from the soil sample.
- Place sample in sterile ziplock bag (e.g. brand new ziplock sandwich bags), and transport in ice pack.
- Please store sample in a fridge until ready to send.

2. Labeling and submission of soil sample

- Please send the sample **within 2 days of collection**.
- Please label the bag with the following information
 - Location
 - Date and Time of collection
 - Land usage (e.g. primarily wheat) Climatic conditions
- Send the bag of soil in a **cardboard (not plastic)** parcel bag/box along with the rust sample
 - ***DO NOT put the rust sample in the plastic bag with the soil.*** It should be placed in a separate paper envelope. Refer to the Cereal Rust Sample Submission Guide for more information.
- If you are sending multiple samples in one parcel, please label the soil and rust samples so we can tell which ones were collected from the sample spot.

Send the soil and rust samples to the following address:

University of Sydney
Australian Cereal Rust Survey
Reply Paid 88076
Narellan NSW 2567

For further information, please contact:

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