
Plan Overview

A Data Management Plan created using DMPonline

Title: Using High Throughput Sequencing to Detect Plant Nursery Pathogens

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Template: DCC Template

Project abstract:

The purpose of this survey is to gain a full understanding of plant health issues which are facing Irish growers today and how emerging technologies may be harnessed to improve upon current systems. The responses obtained in this survey will be used to inform the direction of a Department of Agriculture, Food, and the Marine (DAFM) project which aims to streamline the use of DNA sequencing methods for diagnostics and surveillance of diseases in plant nurseries, etc. The implementation of these methods could significantly improve upon current methodologies, ultimately saving growers time and money.

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End date: 01-09-2028

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Using High Throughput Sequencing to Detect Plant Nursery Pathogens

Data Collection

What data will you collect or create?

The data will consist of responses to a series of survey questions related to respondent's occupation and opinions on plant health related issues. No personal or sensitive data will be collected. The data will be stored as plain text files (.txt) on Microsoft OneDrive and will be deleted at the end of the study period. Any reported findings will be fully anonymous.

How will the data be collected or created?

Data will be collected via online surveys (using Microsoft Forms) and interviews. Data will be organised using folders on Microsoft OneDrive. Raw data will not be altered across different files. If conclusions are drawn from data which are not verbatim or if several respondent's responses are grouped into categories in order to draw wider conclusions, the associated raw data will be clearly indicated/linked.

Documentation and Metadata

What documentation and metadata will accompany the data?

Respondents will be asked to provide a short job description which will accompany their other responses. The date and time at which the survey was completed will also be recorded.

Ethics and Legal Compliance

How will you manage any ethical issues?

Respondents will be required to give consent for their data to be shared and reused. None of the data collected will be of a sensitive nature and it will be anonymised, so the ethical issues associated with it are minimal.

How will you manage copyright and Intellectual Property Rights (IPR) issues?

The data collected is the property of Trinity College Dublin. The data will be anonymised prior to being made available to the public.

Storage and Backup

How will the data be stored and backed up during the research?

Trinity College Dublin students have access to 500 GB of storage on Microsoft OneDrive. No additional storage will be required. The data will be backed up online on this platform, so it can be recovered at any time.

How will you manage access and security?

Risks to data security in this case include unauthorised individuals gaining access to the files via Microsoft OneDrive or using the main researcher's laptop. These risks will be mitigated by using two-factor authentication and strong passwords. Only trusted collaborators will be given access to the data via Microsoft OneDrive and the same mitigation measures will be required of them.

Selection and Preservation

Which data are of long-term value and should be retained, shared, and/or preserved?

No data must be retained or destroyed for contractual, legal, or regulatory purposes. Data will not be identifiable or contain any sensitive information. Data will be deleted after the duration of the project (September 2028). Data is expected to provide useful information on the practices and attitudes of Irish horticultural workers which may be reported in relevant publications and will help to inform the direction of the Detect-PNP project.

What is the long-term preservation plan for the dataset?

N/A

Data Sharing

How will you share the data?

The data is expected to contribute to open-source journal articles.

Are any restrictions on data sharing required?

N/A

Responsibilities and Resources

Who will be responsible for data management?

The primary researcher, Kes Daly, will be responsible for data management.

What resources will you require to deliver your plan?

No additional resources will be required.

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