

# The Open road: A case study of reproducible research in plant pathology

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## Closed Research

Traditional publishing requires only the final manuscript to be published. The data and analyses are not shared with the manuscript. Data and analyses cannot be easily inspected or assessed for accuracy.

## Open Research

Unlike closed research, open encourages sharing of data, and analyses along with the publication. shared data and analyses can provide a wealth of services to the scientific community including a

wealth of materials for improved and up-to-date training, readily available data sets for meta-analyses, and increased potential for collaboration.

## Reproducible Research

One of the benefits of open research is that it's trivial to show that it is also reproducible. If anyone can take your data, run your analyses/code, and obtain the same results, then the research is reproducible!

Open and reproducible practices can help increase trust in plant pathologist decisions that directly influence management decisions by mitigating anomalous results due to human error.

