



Case Study

Identification of genes in
tomato and other crops for
resistance or susceptibility
to verticillium wilt

“With eLabJournal, it is easy to stay on top of things, sharing background information, protocols, and samples.”



Wageningen University

Worldwide, vascular wilt disease caused by the fungus *Verticillium dahliae* affects a wide range of economically important crops. As this disease is difficult to control, disease management is highly dependent on plant resistance. The latter can be achieved by impairing those plant genes which are “abused” by the fungus for its own

benefits. Impairing these genes may lead to resistance. Unfortunately, little is known about these genes for *V. dahliae*, therefore this study aims at identifying and understanding these genes in order to facilitate breeding efforts in tomato and other crops to obtain resistance to vascular wilt disease.

Goal

This project aims at mapping and isolation of new resistance genes (Rgenes) in tomato against race 2 strains, using germplasm that has previously shown to display resistance against this race at Wageningen UR (WUR).

VISIT WAGENINGEN UNIVERSITY



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Plant breeding & Phytopathology

“Because everyone is working on the same platform it is easy to stay on top of things: sharing background information, protocols, and samples.”

Challenge

- | *Share data placed on different locations by diverse people*

As PhD student I am essentially managing a whole project from planning experiments, to execution, to analysis till publishing. If students and technicians also contribute to this work, it can get extremely difficult to keep an overview.

Solution

- | *All data is centralized and with a structured overview*

eLabJournal has helped me to arrange my work in an organized manner. Because everyone is working on the same platform it is easy to stay on top of things: sharing background information, protocols, and samples.

Result

- | *Improved workflow and communication with colleagues*

Working with the eLabJournal has significantly improved my data management. The digital sample storage has become indispensable from my everyday work, and my research has benefited from the easy collaboration with my colleagues to share protocols, samples and data.



About eLabJournal

eLabJournal offers an intuitive and flexible solution to manage information in your lab. The all-in-one Electronic Lab Notebook also includes modules for sample tracking and protocol management. eLabJournal improves efficiency when documenting, organizing, searching and archiving data, samples and protocols. The software is suitable for any lab ranging from small academic laboratories and start-up companies to large academic institutes and globally operating companies.



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