

## Data of electrical signalling in tomato for the detection of powdery mildew

[HTML] from sciencedirect.com

Authors Slavica Matić, Giorgio Masoero, Pier Paolo Capra, Andrea Sosso

Publication date 2025/10/10

Journal Data in Brief

Pages 112165

Publisher Elsevier

Description Here we present the data used to analyse the electrical signals acquired in tomato plants grown in peat and water substrates that were infected with the fungal pathogen *Oidium neolycopersici*, the causative agent of powdery mildew, along with the statistical analyses used to detect the differences in electrical responses between healthy and infected plants, as reported in [1]. Voltages were acquired periodically, scanning repeatedly in sequence all lines in use, with acquisitions separated from each other by approximately 200 s. They were recorded by means of a dedicated custom Python program run by a Raspberry Pi board. Data are made available here both in raw text form, covering the whole monitoring period (15 days, including values for inoculated and healthy plants), and as Excel files with calculations for statistical analyses [2]. More details about the experimental background can be found in the related ...

Scholar articles [Data of electrical signalling in tomato for the detection of powdery mildew](#)  
S Matic, G Masoero, PP Capra, A Sosso - Data in Brief, 2025  
[Related articles](#)