

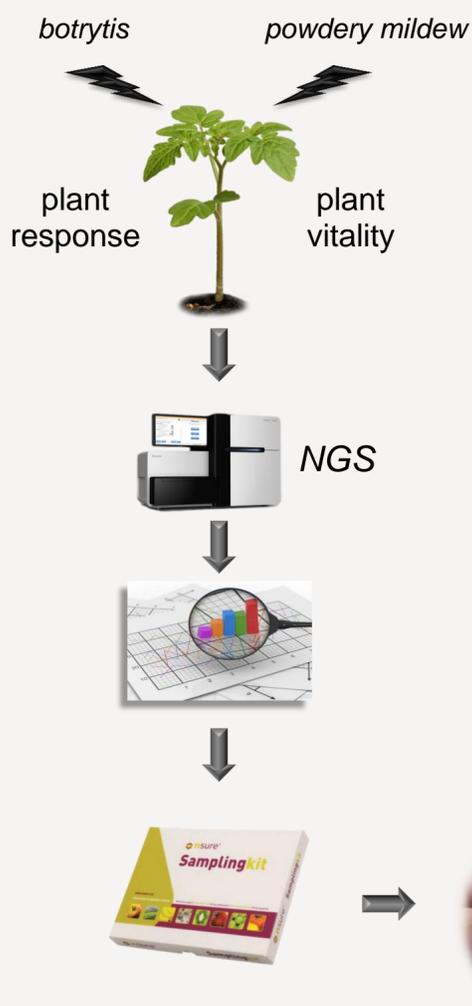


GEZONDE KAS
 > GESUNDES GEWÄCHSHAUS <



PLANT VITALITYTEST TO SHOW WHETHER A PLANT IS DISEASED

All biological processes in a living organism, including features such as growth, development and susceptibility to diseases, are directed by genes. Therefore, the activity of a gene is an important factor in the physiology of a plant. NSure has developed expertise in correlating specific physiological features with gene expression profiles. In order to do so, they make use of Next Generation Sequencing (NGS), a method in which the activity of ten thousands of genes can be determined and compared at the same time.



Within the Gezonde Kas project, NSure has identified a set of tomato specific genes which are activated upon an infection with botrytis or powdery mildew (Figure 1-3).

With help of those genes, NSure is able to detect at an early stage whether tomato plants are diseased even before it is visible from the outside.

NSure PLANT VITALITYTEST

- Measures if the plant is diseased, before symptoms are visible
- Sampling on location by the grower
- NSure performs the analysis within 24h

Figure 1. From test development to user-friendly test

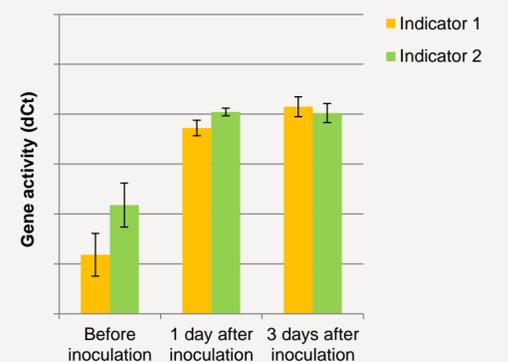


Figure 2. Two tomato genes which are activated after inoculation with powdery mildew.

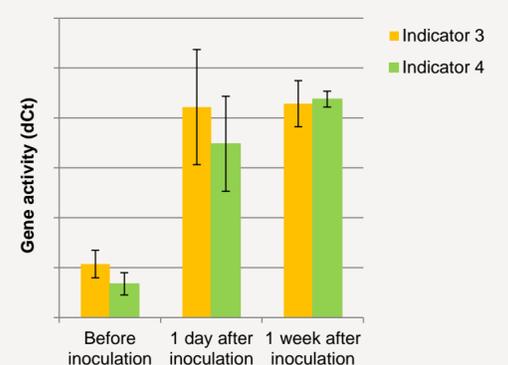


Figure 3. Two tomato genes which are activated after inoculation with botrytis.

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