

# NGS TO SUPPORT PLANT HEALTH



Next generation sequencing (NGS) technologies offer unprecedented opportunities to **reveal the phytosanitary status** of a plant sample, without *a priori* knowledge of a particular organism.

The generation of high amounts of sequencing data allows a global profiling of samples on a large scale, with **rapid results** and at **low costs**.

We provide NGS services for analysis of plant samples on the basis of our profound laboratory competences covering all steps of a workflow - from DNA/RNA extraction, state of the art library preparation, sequencing on **Illumina platforms** and **comprehensive bioinformatics analyses**.

We offer support at every step including consultation on project planning, real-time updates on the process, fast delivery of results and post-analysis evaluation to support management decisions.

## Our services enable:

- global analysis of the phytosanitary status of plants
- rapid and precise identification of pathogens
- discovery of novel or rare variants
- characterization of the genetic variation and population composition
- the safe movement and international exchange of nursery materials and elite propagation and breeding lines

For any further information about our services, please contact us at [plantvirus@dsmz.de](mailto:plantvirus@dsmz.de) or directly contact our NGS and bioinformatics specialist Dr. Paolo Margaria at [paolo.margaria@dsmz.de](mailto:paolo.margaria@dsmz.de).

