

**Topic/Title (Norwegian)**

Kartlegging av soppmiddelresistens hos epleskurv patogenen, *Venturia inaequalis*, i Norge

**Topic/Title (English)**

Fungicide resistance screening of the apple scab pathogen, *Venturia inaequalis*, in Norway



Apple scab symptoms on fruit and leaves. Photos: D. Harteveld

**Summary**

Apple scab, caused by the fungal pathogen *Venturia inaequalis*, is the most important disease on apple in Norway. Disease control relies mostly on the application of fungicides, but their effect is highly variable. *Venturia inaequalis* is a high risk pathogen for development of fungicide resistance and resistance to several fungicides is documented in other countries. Fungicide resistance could be a reason current fungicide applications are not always effective in Norway. This project aims to determine the status of fungicide resistance of *Venturia inaequalis* populations in Norway. Outcomes of this research will provide information for the growers and the improvement of disease management strategies to prevent the build up of resistance and ascertain the effectiveness of the fungicides that are currently available.

**A master thesis** will consist of a range of laboratory experiments including the isolation of fungal isolates from symptomatic plant materials, general microbiology, development of methods for the screening of fungicides and bioassays. The student will develop skills and education in the design, analysis, and scientific writing for research on fungicide resistance development in fungal pathogens.

<b>Subject area</b>	plant pathology, microbiology, fungicide resistance
<b>Language thesis</b>	Norwegian and/or English
<b>Thesis</b>	Master
<b>Credits</b>	30 ECTS
<b>Project period</b>	January-May 2024
<b>Project/company</b>	NIBIO

Bachelor or Master thesis BIOVIT 2023/24



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