

9 Sopp-sjukdommer	Sjokoladeflekk i bønne – sjukdomsorganismer og risiko for fungicidresistens
	<i>Chocolate spot in faba bean – disease organisms and risk for fungicide resistance</i>



Photo: Heidi U. Aamot and Chloè Grieu

Increased cultivation of protein crops such as faba bean for food and feed in Norway is desirable many reasons. Chocolate spot, caused by *Botrytis cinerea* and *B. fabae*, is one of the most destructive diseases in faba bean. Since integrated pest management (IPM) based on a long crop rotation and ploughing after harvest does not effectively control the disease, fungicide application during flowering is commonly used. However, the effect of spraying is highly variable, and the reasons for this are not fully understood. Moreover, the occurrence and importance of seed infection is unclear. **Therefore, we need an updated survey on which species of *Botrytis* that are responsible for the development of chocolate spot of faba bean and their response to different fungicides.**

A master thesis will include systematic collection of faba bean plants during the growing season and isolation of *Botrytis*. Isolates will be identified to species using DNA based methods (barcoding). Also seed samples will be studied and possible isolates will be identified using the same methods. Studies of effect of fungicides will be performed in laboratory experiments, with opportunity for development of screening methods and bioassays.

Supervisors: Ingerd Skow Hofgaard (NIBIO, NMBU) ingerd.hofgaard@nibio.no, Guro Brodal (NIBIO) guro.brodal@nibio.no, and Heidi Udnes Aamot (NIBIO) heidi.udnes.aamot@nibio.no.