

## Popular scientific project description for project funded by Ekhagastiftelsen

Popular scientific project description is to be submitted within 2 months of project grant.

Application number:	2020-59
Project title:	The combined effects of perimeter trap crops and semiochemical attractants on the management of pea and bean weevil and bruchid beetle in faba beans
Receiver of grant (name, address):	Processors and Growers Research Organisation, The Research Station, Great North Road, Thornhaugh, Peterborough, PE8 6HJ, UK
Contact / project manager:	Becky Howard
Project start (yyyy-mm-dd): *	2021-01-01
Project end (yyyy-mm-dd): *	2023-12-31
By Ekhagastiftelsen granted sum:	630 000 SEK

Project description: (max 150 words)

This project seeks to develop an Integrated Pest Management solution in faba beans that can help growers to move from high insecticidal inputs towards cultural and organic production techniques. The objectives are to identify the benefits of legume-based perimeter trap crops, combined with the targeted placement of compounds derived from naturally occurring pheromones and plant volatiles, as measures to reduce the impact of the pea and bean weevil (*Sitona lineatus*) and the bruchid beetle (*Bruchus rufimanus*) on faba bean yield and grain quality. The effect of the trap crops on other crop pests such as aphids will also be studied. Added ecological benefits to agricultural systems contributed by the trap crops, particularly for beneficial insects, will be evaluated. The proposed measures, if successful, will provide a solution that may be easily implemented by growers and encourage ecological approaches to faba bean production.

\* Dates for project start and end should be the dates for which the grant is received (Not dates for total project if longer than period for which grant is received)