

**Norsk tittel:** Kvalitet for mat hos sorter av åkerbønne og/eller erter for dyrking i Norge

**Engelsk tittel:** Food quality in varieties of faba beans and/or peas important for cultivation in Norway



**Summary:** The main objective is to identify quality traits in varieties in faba beans and peas grown in Norway and used for food. Field trials with varieties from breeding companies in Europe will be the basis for the thesis. These will be laid out at locations at NMBU (Ås), Graminor (Hamar) and NIBIO (Kapp) in the season 2023. The experimental work will include quality analyses, as visual quality, seed size and size distribution, hull content, protein and starch content. Other chemical constituents can also be included. Sampling during the later part of seed development to study the accumulation of chemical components can be included. Genetic variation between varieties will be studied, as well as environmental factors that can affect quality.

**Key words:** Faba bean, peas, protein crops, plant development, yield build-up, crop physiology

**Language thesis:** Norwegian and/or English

**Bachelor or Master thesis:** The topic can be adapted to Bachelor level as well as Master level (30 or 60 credits)

**Project:** FutureProteinCrops - Increased and market-adapted production of grain legumes in Norway to increase self-sufficiency of plant proteins for food and feed

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