

Topic/Title (Norwegian)

**Analyse av antinæring stoffer i erter verdenssamling**

Topic/Title (English)

**Analyses of antinutritional compounds in pea world collection**

**Picture**



### **Summary**

Genetic resources of cultivated species such as landraces and ecotypes conserved at gene banks are precious for the improvement of traits of interest through plant breeding. In this master project a world collection of pea (about 200) varieties, landraces and ecotypes will be analyzed for different antinutritional compounds. You will get experience in growing plants in the greenhouse, do lab work for preparing samples for biochemical analyses and statistical analyses of experimental data. Plants will be first grown in the greenhouse for obtaining seed samples which will then used in biochemical analyses for determining the content of the targeted compounds. These results will have important outcomes for assessing the genetic diversity available for these traits. This information will help to enhance the use of pea as a source of plant-based protein in both the food and feed industries.

**Subject area** (keywords): genetic diversity, quality, biochemistry, antinutritional compounds

**Language thesis:** Norwegian or English



Bachelor or Master thesis BIOVIT 2022/23

**Bachelor or Master thesis:** Both Possible

**Credits:** 60, 30 or 15 ECTS

**Project/company:** Future Protein Crops

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