Bachelor or Master thesis BIOVIT 2023/24

English title: Genetic analysis of phenotypic traits in the forage legume lucerne

Norsk tittel: Genetisk analyse av fenotypiske egenskaper i fôrveksten luserne

Lucerne is a forage legume with symbiosis with N-fixing bacteria, thus providing a number of benefits such as reduced need for N-fertilization, provision of N for other species, increased sustainability and a forage rich in protein. During the work with this thesis you will obtain experience in field experimentation, knowledge about the growth of crop plants, and experience in genetic analysis. All this is essential in plant breeding.

Plants of a historic collection of breeding material of lucerne will be reared in a greenhouse and planted in the field. During the growing season of 2023 and/or 2024, you will record various traits in the material. You will perform genetic analyses and interpret the data in light of what is already known in the literature.

The work will consist of field work, data analysis, literature study and writing.

Subject area: Plant science, biology, genetics, plant breeding, agronomy, sustainable agriculture

Language thesis: Norwegian or English

Bachelor or Master thesis: Both possible

Credits: 60, 30 or 15

Collaboration: Graminor AS

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