SCIENTIQ
QUALIFIED LAB STAFF

Internship Moleculair Biological Analyst Seeds

Agriculture Sciences, Natural Sciences

Netherlands
Period:
1st of July, 2021 to 1st of Jan, 2022 (6 months)

The main task of our customer's botanical laboratory is the production of doubled haploids in different crops. This is done in a highly purified and highly productive way on wheat, rapeseed, barley and maize in addition to some smaller programs such as onions and Brassica species.

Depending on the crop, various techniques such as microspore culture, wide-hybridisation and gynogenesis are used to produce the doubled haploids. Depending on the crop, work is carried out both in the lab and in the greenhouse during the process.

This internship offers you the opportunity to gain experience in a "high-throughput" tissue culture laboratory where, in addition to the existing techniques for the production of doubled haploids, you can specialize in working and acquiring knowledge in a tissue culture laboratory with all the relevant work involved. (learning to work sterile, isolating microspores under sterile conditions, preparing various media for the cultivation of plants and embryos, acquiring knowledge of the effect of various plant hormones on the development of sprouting and rooting, sterilising plant material, isolating embryos, cutting callus, growing plants in greenhouses and phytotrons, ... )
Furthermore, you can train yourself in working with binocularies, centrifuges and autoclaves.

During the internship you will also gain the experience to work in a large department. You will get an insight into how processes are efficiently managed on a large scale and how colleagues are dealt with in a process. Your social capacities will be challenged to the fullest.
Depending on the crop and the period of internship, some tests, limited in size, are suggested to the students to follow up independently.