

# Nikolaj Vendelbo

PhD defence at Nordic Seed

For the past three years, Nikolaj Vendelbo has investigated the population structure, fertility control system, and resistance to leaf rust and powdery mildew in the hybrid rye breeding germplasm here at Nordic Seed in the frame of the industrial PhD project. Using state-of-the-art genomic resources, Nikolaj identified molecular markers associated with nine distinct genes that are now being used for marker assisted selection in the hybrid rye breeding scheme alongside a comprehensive phenotypic dataset on the elite parental lines. This project has not only identify and verify the distinct gene pools of rye that is important to develop hybrids but also identify linked DNA markers for marker assisted selection to implement in our breeding program. In addition, this PhD project has published already four papers in the high impact international journals. This project was in cooperation with Aarhus University, Flakkebjerg. Nikolaj had defended his PhD on 06.12.2021.

