

Study of the Effects of Fusarium on Malt Quality and DON Formation During Malting Process

Project overview

The proposed activity will identify the different species of fusarium on barley kernels to understand their impact on malting and brewing. It will seek to determine how to prevent or mitigate DON formation during the malting process and how to prevent or reduce gushing potential of the malt produced from barley infected by fusarium.

Deliverables:

- DON testing during malting and brewing process
- Develop rapid method for DNA identification of fusarium spp
- Culture fusarium and isolate, extract and quantify hydrophobins (fungal proteins) generated
- Develop malting procedures to suppress DON formation/decrease gushing potential in malt