



Mendel Centre Seminar



# Plant Proteomics Meets Food Industry: Rapid Identification of Malting Barley Varieties by MALDI-TOF MS Profiling

**20/10/2015**

TUESDAY

**start 16:00**

Seminar room 252, building A29  
University Campus Bohunice  
Kamenice 5, Brno

delivered by

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**Abstract:**

Due to their influence on malting quality, the identity of malting barley varieties and their purity is a fundamental step preceding the process of beer production. Routinely, they are determined by means of SDS-PAGE of the hordein fraction. We introduce a rapid and easy method for discrimination between malting barley varieties based on MALDI-TOF MS analysis of proteins obtained directly from the barley material. Compared with the standard procedure, a 2-fold decrease in analytical costs and an 18-fold reduction in time was achieved by switching from SDS-PAGE to MALDI-TOF MS.