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Czech J. Food Sci.

**Havránková H.,
Pazlarová J., Ovesná**

Genetic determinants of mycotoxin synthesis in genus *Fusarium*

Czech J. Food Sci., 29 (2011): S86-S93

The fungi of the genus *Fusarium* occur worldwide mainly on cereal grains. They are considered to be not only plant pathogenic, but also the producers of secondary metabolites – mycotoxins. In our study, we focused on the analysis by Q-PCR of two genes expression – *Tri5* and *Tri10* – involved in the production of *Fusarium* mycotoxin deoxynivalenol. Reference genes β -*tub* and *UBC* were found to be suitable for the expression level normalisation using the program geNorm. The level of expression of the target genes was analysed on four isolates of *Fusarium graminearum* grown