



# Agricultural Journals

*Czech Journal of*

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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 pathogens, but also the producers of secondary metabolites – mycotoxins. In our study, we focused on the analysis of Q-PCR of two genes expression – *Tri1* and *Tri10* – involved in the production of *Fusarium* mycotoxin deoxynivalenol. Reference genes  $\beta$ -*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