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Czech J. Food Sci.

**Wiwart M., Perkowski
J., Budzyński W.,**

**Suchowilska E., Busko
M., Matysiak A.:**

Concentrations of ergosterol and trichothecenes in the grains of three *Triticum* species

Czech J. Food Sci., 29 (2011): 430-440

The concentrations of ergosterol, type A trichothecenes (HT-2 toxin, T-2 tetraol and scirpentriol), and type B trichothecenes (deoxynivalenol, 3-acetyldeoxynivalenol, 15-acetyldeoxynivalenol, nivalenol, fusarenone X) were determined in the grains of three wheat winter cultivars of *Triticum aestivum*, *T. spelta*, and *T. durum*. The highest concentrations of ergosterol ($3.3 \times 10^4 \mu\text{g}/\text{kg}$) and deoxynivalenol ($654.67 \mu\text{g}/\text{kg}$) were noted in the grain of *T. durum*. Ergosterol concentrations did not decrease following the fungicide application. The results of the principal component analysis showed

that the qualitative and quantitative profiles of toxic metabolites in *T. durum* differed significantly from those obtained for the remaining two wheat species. A strong correlation between the