

## **Interactive Effects of Zn, Pb and Cd in Barley**

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The effects of different concentrations of Zn, Pb and Cd singly as well as in the combination of zinc-lead, zinc-cadmium and lead-cadmium on the shoot root length and dry mass as well as chlorophyll contents of barley plants during early seedling growth were studied. The effects of different concentrations of Zn×Pb and Pb×Cd in combinations showed a synergistic relationship, while at higher concentrations the relationship was antagonistic. Lower as well as higher Zn×Cd concentrations showed antagonistic effects.

**Key words:** *Barley, Cd, Pb, Zn,  $G_{ex}$  value, interaction*