

Effect of lead on the accumulation of some metals in leaves of *Zea mays* L.

Krystyna Pazurkiewicz-Kocot, Witold Galas

The correlation between the concentration of lead (10^{-2} M – 10^{-6} M) in external medium and accumulation of some metals in leaves of *Zea mays* L. was investigated. The experiments were carried out on 8 day old maize plants (*Zea mays* L. var. K33xFa). The accumulations of metals in the leaves of maize were measured by emission spectroscopy using ICP-AES spectrometer and IY50P which simultaneously carries out the multielements solution analysis. High accumulation of lead was found in the leave tissues in plants growing in a medium containing 10^{-3} M and higher concentration of PbCl_2 . On the other hand, lead ions at different concentrations (10^{-2} M – 10^{-6} M) decrease the uptake and accumulation of some examine metals in plant leaves.