



Pollution and Monitoring

**PHYSIOLOGICAL CHANGES IN SEEDLING GERMINATION
AND GROWTH PLANT UNDER CHEMICAL STRESS CONDITIONS**

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Abstract

When plants are exposed to heavy metals influence, the processes of growth inhibition, ion leakage of all membrane, distribution of pigment and even more death of plants are produced. The physiological and biochemical changes in germinating seedling and cultivation in plastic pots experiments of different plant species (maize, bean, oat, and spinach) were investigated under the influence of copper ions as stress agent. Differences between tolerances against copper excess in the case of above mentioned plants species were evaluated through measurements of length of the roots, shoots, leaves, wet and dry biomass. Distribution of copper ions content in roots, shoots and leaves were estimated by flame atomic absorption spectrometry.

Key words: bean, copper ions, maize, oat, spinach

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