

Alexander Lux

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Professor Alexander Lux graduated from Comenius University with a M.Sc. in Plant Physiology in 1975. In 1981, he was awarded a PhD in Plant Physiology from the same University. Since that time he has been working at the Comenius University in Bratislava. He was Visiting Professor of the University of Tokyo, Nagoya City University and Arid Land Research Center in Tottori, Japan. He was a Visiting Scientist at UANL Monterrey, Mexico and at Stockholm University.

He has published over 80 refereed papers and has an h-factor 16.

He is engaged on projects addressing plant reaction to abiotic stresses, mostly focused on toxic metals, collaborating with Institute of Chemistry, Slovak Academy of Sciences.

His research encompasses two broad aims.

The first aim is to regulate the entry of toxic elements into the plants (for phytoremediation) and reduce their entry into the food chain. This work has focused mainly on identifying the structural and functional mechanisms of plant roots in reaction to toxic metals and formation of root apoplasmic barriers in the roots.

The second aim is find out the ways and mechanism how silicon alleviates the effects of abiotic and biotic stresses in plants.