

MECHANISMS OF PLANT ADAPTATION TO HEAVY METALS

V. N. Pishchik¹, N. I. Vorobyov², N. A. Provorov², Y. V. Khomakov¹

¹ *Agrophysical Research Institute,*

14 Grazhdansky prospect, St. Petersburg, 195220, Russia

² *Research Institute for Agricultural Microbiology,*

3, Shosse Podbelsky, St. Petersburg, Pushkin, 196608, Russia

E-mail: veronika-bio@rambler.ru

In the review the toxicity of heavy metals for plants, uptake of heavy metals by plants, distinctions in accumulation of heavy metals plants-excluders and accumulators, localization of heavy metals in plant roots, mechanisms of plants' resistance to HM, including genetic machanisms, are considered.

Key words: plants, heavy metals, mechanisms of plant resistance to heavy metals.