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**GENETICALLY MODIFIED PLANTS AND RISKS RELEASE
TO THE ENVIRONMENT. DEVELOPMENT
AND PROBLEMS INVESTIGATIONS**

Summary

The article presents development and problems of one of the promising areas of biotechnology – genetic engineering, its result are genetically modified plants (HMR). Release HMR to the environment began in 1996 in the US, today its grown in many countries. HMP provide a wide range of tolerance to herbicides or resistance to insects.

The author made a generalization potential risk of release of genetically modified plants into the environment from the impact on human health to long-term environmental effects. Analyzing the above facts confirmed ambiguity assessment of those risks. "The Cartagena Protocol on Biosafety," signed 68 countries of the European Union in 2000, aimed at maintaining the security of the safe transfer, processing and use of GMOs that may adversely affect the conservation of biological diversity and human health. It is noted that Ukrainian scientists, while not denying the possible risk of genetic recognize the necessity of constructing transgenic plants in Ukraine, following all safety rules.

Key words: *genetically modified plants, potential risks, human health, environmental effects, development of investigations.*