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**PROBLEMS OF BIOTECHNOLOGY DEVELOPMENT
(ПРОБЛЕМИ РОЗВИТКУ БІОТЕХНОЛОГІЇ)**

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*Науковий керівник: Саламатіна О. О., доцент кафедри іноземних мов
МНАУ*

В статті визначено та проаналізовано проблеми розвитку біотехнології у світі.

Ключові слова: біотехнологія, агрокультура.

The article identifies and analyzes the problems of biotechnology development in the world.

Keywords: biotechnology, agriculture.

Biotechnology is a broad discipline in which biological processes, organisms, cells or cellular components are exploited to develop new technologies. New tools and products developed by biotechnologists are useful in research, agriculture, industry and the clinic. Modern biotechnology provides breakthrough products and technologies to combat debilitating and rare diseases, reduce our environmental footprint, feed the hungry, use less and cleaner energy, and have safer, cleaner and more efficient industrial manufacturing processes [2].

Science offers opportunities for revolutionizing human activities, enriched by input from scientific research and technology. Biotechnology is a major force

for development in developing countries. It is found to contribute to solving human problems like water and food insecurity that impede national development and threaten peace wherever it is applied. On the part of rural farmers, there is a lack of adequate knowledge or awareness of biotechnology despite the fact that they constitute the bulk of farmers. On part of the government, the problems include: lack of adequate implementation of government policy on bio-safety and genetically modified products, inadequate funding of education as well as research and development of products related to biotechnology [1].

Other problems include: inadequate infrastructures (including laboratory), poor funding and lack of national strategies needed for development and running of agricultural biotechnology. The introduction of genetically engineered products will lead to the high productivity needed for commercialization and food security. Insect, virus and other related diseases resistant crops and livestock are another viable area of contribution of biotechnology to agricultural production [3, 4].

In conclusion, agricultural biotechnology will not only ensure food security, but, in addition, will ensure that the local farmers utilize appropriate technology needed for large production, leading to the prosperity of the farmers and national economic growth, provided government plays its role of adequate funding and good policy implementation.

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