CEI Ministerial Conference on Science and Technology
Biotechnology for Healthy and Active Life in CEI Region
Welcome Introduction

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Global Prospects for Biotechnology Growth

By 2025, global biotechnological market will exceed 1 trillion USD, while average annual growth in specific segments is expected from 5-7% to 30%.

According to OECD, in 2030 biotechnologies will account for about 3% of GDP in the leading economies, with gradual substitution of conventional industrial processes by biotechnological ones.
Belarus produced biotechnology products worth more than 3 billion USD over the last five years

New liquid microfertilizers MicroStim-Zinc and MicroSteam-Zinc, Copper, microfertilizers MicroSteam-Molybdenum and MicroStim-Molybdenum, Bor. The introduction of new fertilizers for corn provides an increase of green mass by 50-61 centners per hectare, grain by 6.7-8.0 centners per hectare with a profitability of 98-111 % and 166-183 % respectively.

Ecologically clean NanoPlant fertilizer produces higher rate of germination for plants in 2 – 3 times. It based on nanoparticles and improves growth of plants and rooting system. Strengthens soil.
Belarusian world-class innovations in biotechnology

Fludarabel is a first-line drug, which is recognized as the "gold standard in the treatment of chronic lymphocytic leukemia. The cost of the drug is 1.5 below analogues.

Cisplacel for the treatment of malignant tumors of the brain and neck. Cisplacel increases the patient's life expectancy by 2 times.

Prospidelong provides a high effect in the treatment of stomach cancer. The Belarusian drug is much less toxic than the best world analogues.
Belarus has agreements on scientific and technical cooperation with 50 countries

In the last three years, new agreements have been signed with Italy, Hungary, Turkey, Georgia and Slovakia

Priority: the intensification of cooperation in a multilateral format, first of all, the program of the European Union "Horizon 2020"
Belarus and the EU Framework Programmes for Research and Innovation

FP6 (2002-2006)
- 19 projects
- 1.4 mln EUR

FP7 (2007-2013)
- 64 projects
- 5 mln EUR

H2020 (2014-2020)
- 30 projects
- 5.9 mln EUR

COST
- 13 projects including 6 projects under implementation
Belarus Biotechnological Industry: Prospective Areas till 2040

- Developing the biotechnology industry based on the achievements of genetics and cellular technologies;
- Promoting the most demanded technical, feed and food enzymes, further development of enzyme preparations manufactures;
- Further developing the genetic engineering with 1,5 - 2 times increase in the efficiency of photosynthesis;
- Obtaining genetically modified objects with high valuable characteristics;
- Allocation and maintenance of biological material for the productivity of animals aimed at preservation of unique genotypes;
- Developing of test systems and biochips to identify the presence of pathogens dangerous for livestock and poultry.
Our proposals for cooperation

- Cooperation at the subregional level between national laboratories for **assessing food quality and safety** (joint development and/or validation of precise methods for the identification of genetically modified organisms and the species assessment of food products);

- Creation of **highly effective dairy products** for healthy nutrition, including dietary and specialized. They ensure its safety, balance and usefulness for different groups of the population (children, athletes, elderly people, etc.);

- Organization with CEI countries of industrial production of **edible packaging films** and coatings from natural renewable raw materials using technology developed and tested in Belarus.
BELARUS

THANK YOU FOR ATTENTION

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