The Zabolotny Institute of Microbiology and Virology, of the National Academy of Sciences of Ukraine, is a renowned scientific centre in the fields of microbiology, virology, biotechnology and ecology.

The Institute was founded in 1928. Currently, the Institute employs 395 staff members, including 30 Doctors of Science, and 110 Ph.D.s. The Institute possesses a National Collection of Microorganisms with over 20,000 strains used for molecular-biological research and biotechnology. Since 1934, the Institute has been publishing, “Microbiologichny Zhurnal” (“Microbiological Journal”) in Ukrainian, Russian and English.

Institute’s fifteen research departments focus on the following areas: systematics, biochemistry, genetic of microorganisms; biological activity of microorganisms; molecular biology of viruses; creation of new microbial biotechnologies for public health, agriculture, industry and environmental protection.

Highlights of the Institute's Intellectual Property Portfolio:

**Agriculture:**
- Laktin, Lactosan, Bovilakt, Bifidim – probiotics based on lactic acid bacteria for the treatment and prophylaxis of gastro-intestinal diseases in agricultural animals;
- Endosporin – probiotic based on spore-forming bacteria for the treatment and prophylaxis of postnatal endometrites;
- Litosil – preparation based on lactic acid bacteria for fodder siloing;
• Azotobacterin, Nitragin, RTF – ecologically-friendly bacterial fertilizers for improving plant growth and productivity, and increasing crop capacity under open and closed soil conditions;

• Avercom – preparation based on soil streptomycetes for the prophylaxis and protection of plants from various diseases and pests;

• Gaupsin – preparation based on spore bacteria for prophylaxis and protection of plants from different diseases and pests.

**Medicine:**

• Biosporin – probiotic for the treatment and prophylaxis of dysbacteriosis and acute intestinal diseases in children and adults;

• Subalin – probiotic for the treatment of mixed viral and bacterial infections;

• beta-carotene obtained from the biomass of the yeast, Blakeslea trispora;

• Karefol (beta-carotene and plant ether oils) and Karoflav (beta-carotene and quercitol) – for skin diseases, stomach ulcer and mucous membranes; and

• Diastaf of bacterial origin for the express diagnostics of staphylococcus.

**Industry:**

• Streptosan, Gerosan – ferments used in dairy industry for obtaining dietary lactic acid products;

• Lactogerovit – dietary lactic acid product based on compositions of lactic acid bacteria, typical for normal biocenosis, in particular for Caucasus-livers;

• Ksampan, Enposan – bacterial polysaccharides used for oil extraction, as well as in food and perfumery industry;

• EPAA – copolymer based on exopolysaccharides for textile industry (thread sizing) and glue for domestic use.

**Environmental Protection:**

• Desna (based on spore bacteria) and Rodoil (based on nocardia-and corin-formic bacteria) – preparations for the purification of soil, sea and river water from oil and oil products;

• Biotechnology based on the use of Aeromonas dechromatica bacteria and different strains of sulphate reducing bacteria – for the purification of sewage from hexavalent chromium toxic compounds;

• MBC – microbial biocatalyst for effective purification of sewage from toxic synthetic compounds, heavy metals and radionuclides.
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