


BioCC OÜ

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<p>General profile</p>	<p>BioCC carries out interdisciplinary R&D and offers services throughout the entire food chain — from breeding, feeding and animal husbandry to the creation of health-promoting food products and conducting clinical trials to demonstrate their health benefits.</p> <p>The internationally recognized R&D carried out by the BioCC creates, develops and implements innovative biotechnological solutions for feed, food and food supplements, integrating its own and international knowledge and know-how in the field of microbiology, biochemistry, genetics, metabolomics, genomics, physiology and medicine.</p> <p>The laboratory of the BioCC is in compliance with the requirements of EN ISO/IEC 17025:2005 as a testing laboratory in the field of food and feeding stuffs' microbiological and chemical analyses and blood immunoassays.</p>
<p>Main research areas</p>	<p>Main research areas of the BioCC project EU48686 HEALTHY FOOD are the following:</p> <ol style="list-style-type: none"> 1) to develop products with increased nutrient density for general population and specific population groups; 2) to develop functional products, probiotics and feed additives; 3) to establish a biotechnological platform based on biomarkers and novel selection traits for resource-effective production of high quality raw milk with elevated nutrient density to meet increased consumer demand.
<p>Partners of the project</p>	<p>E-Piim Tootmine AS, Dessert AS, Starter ST OÜ , Animal Breeders' Association of Estonia (ABAE), Värskä Vesi AS , Paadi Pagar OÜ, Nutriful OÜ, Metstaguse Argo LLC, Revala AS, Roosi Talu, Nopri Farm Dairy OÜ, Lõunapiim LLC, R-Capital OÜ , Pajumäe Talu OÜ, Eerika Farm OÜ, Estonian University of Life Sciences , University of Tartu</p>
<p>Additional information</p>	<p>The BioCC owns a microbial collection of the BioCC MC harbouring strain from humans, plants, environment and animals.</p> <p>Outstanding results: Two silage inoculants <i>Lactobacillus plantarum</i> E-98 and <i>Lactobacillus plantarum</i> TAK 59 have been listed in the European Community Register of Feed Additives. Starter ST OÜ has launched new silage additives, which include E-98 and TAK59.</p> <p>In addition to silage inoculants, the BioCC portfolio contains probiotics for human health – probiotics focused on cardiovascular diseases, allergies and oxidative stress, as well as probiotics for the prevention of the <i>Clostridium difficile</i> infection.</p>

***Lactobacillus plantarum* TENSIA® (DSM 21380)**, an hypotensive and antioxidative probiotic with patented properties, which helps to maintain cardio-vascular health through a reduction in blood pressure and by improvement of other cardio-vascular markers. E-Piim Tootmine AS has launched the cheese Harmony™, which includes the strain *L. plantarum* TENSIA.

BioCC launched new food supplement Sūdamesõber TENSIA® (Heart Friendly TENSIA®), which includes *Lactobacillus plantarum* TENSIA®

Services of BioCC are aimed for companies who want to create new science-based value-added products (functional foods, dietary supplements, feed) and make the production more efficient:

- Licensing of BioCC owned bacterial strains for food, food supplement and animal feed;
- Clinical trials for testing possible functional properties of products from two aspects: safety and functionality.

Laboratory for Clinical and Physiological Research of the BioCC is a member of The European Clinical Research Infrastructures Network (ECRIN www.ecrin.org):

- Recommendations concerning food, nutrients and nutrition;
- Advisory services in the food value chain (from farm to fork);
- Microbiological analyses and consulting in food- and feed microbiology.

BioCC has received a positive evaluation from the Estonian Ministry of Education and Science for its research and development activities in biotechnology.

BioCC is a member of EIP clusters