
European Innovation Partnership projects in **LATVIA** 2014-2020



Modern bio-economic waste-less processing of deer, producing the end product – raw material with a high added value for food, cosmetics and pharmaceut

Objective of the project

To ensure waste-less processing of red deer carcasses, extending shelf life of fresh venison and developing slaughtering technology to produce and process by-products. It is planned to develop an innovative slaughtering technology to produce high quality raw material from deer slaughtering (primary treatment) by-products, which potentially can be processed into products with a high added value – tendons, blood, tails, genitals, embryos, placentas, hypophysis, internal organs.

Contact

Māra Paeglīte,
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Description of activities

Within the project, it is intended to develop deer slaughtering technology with a view to ensure production of by-products; to develop the technology, extending shelf life of fresh venison; to develop deer blood collecting technology for production of powdered blood; to develop collagen peptides production technology from tendons – for functional food, cosmetics and pharmaceutical industry.

Implementation period

2019. - 2022.



Industrial research of the COWOW system, based on artificial intellect

Objective of the project

Developing, testing and validation of a mastitis diagnostic system COWOW, based on artificial intellect, to facilitate an effective productivity in dairy sector and contribute to the development of the sector in general, by uniting efforts of researchers, farmers and other stakeholders.

Contact

Vita Stūre,
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Description of activities

COWOW system will be based on a spectral dynamical technology. The main feature of the system is a non-invasive diagnostics without using milk samples. This is a new achievement in veterinary medicine. Its essence is the development of the third generation electromagnetic wave diagnostics. Within the project, industrial research will be carried out to improve economic indicators of the primary milk production, milk processing and in organic agriculture by using specific diagnostic data obtained by the COWOW system and applying them in prophylactic and medical treatment of cows.

Implementation period

2020. - 2021.



A sustainable development of pig breeding based on organic farming and free from antibiotics

Objective of the project

Developing a sustainable pig breeding in Latvia, capable of competing on the EU meat market, based on methods, innovative for Latvia – pig breeding system, free from antibiotics, pig breeding within organic farming system with an adequate placing of the end product on the market and a computerized farm management tool that is conjoined with breeding data analysis software.

Contact

Valentīna Alksne
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Description of activities

Recommendations produced for implementation of pig breeding system, free from antibiotics, approved in organic and conventional farming system. Selection criteria for organically rearing pigs and organic pig breeding sector, trial tested and more effective feeding formulas for organic farming system are developed. A totality of measures developed for placing on the market of organically rearing pigs and pig meat, free from antibiotics, a concept prepared for placing on the market of pig meat, produced in conditions of improved welfare and the computerized pig production farm management tool.

Implementation period

2019. - 2022.



Development of electronic farm management system

Objective of the project

To create a universal farm management system that is available online. The system is available to farm managers, who after entering farm data, could measure economic performance, plan production process, model development scenarios, follow financial forecasts, and make development-oriented decisions. Additionally, system is going to provide document exchange possibilities with other institutions.

Contact

Liene Dabiņa,
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Description of activities

Within the scope of the project it is planned to create a universal, free of charge electronic system, tailored to Latvian conditions, where farmers (and other people that are related to agriculture) could perform regular data analysis, business planning (incl. an effective use of resources) and make decisions. It is expected that farmers will be able to save time spent on managing farm documents by using this system (incl., preparing reports for various institutions), which will free up time for tasks that require direct human participation.

Implementation period

2019. - 2023.



Development of scientifically justified fermented dairy products from organic milk and their clinical study

Objective of the project

Assessment of content of organically produced milk and processing into nutritionally valuable cultured milk products, based on clinical research.

Contact

Jana Lakstiņa,
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Description of activities

Within the project, new cultured milk products (yogurts) will be developed; the new products will undergo clinical research in a laboratory, viability of bacteria in the content of products will be assessed, using gastrointestinal simulator, obtaining a full picture of resistance of lactic acid bacteria, including probiotic bacteria, to gastric juice and bile acid, their ability to recover from various stress factors and proliferate. The newly developed products will undergo clinical tests, identifying their impact on intestinal microbiome and decreasing of osteoporosis risk for different audiences.

Implementation period

2019. - 2022.



Objective of the project

Implementation of the technologies for production of high-value herbal products perspective for Latvia, such as fruit crops (sea buckthorn, raspberries, blackberries, Japanese quince (*Chaenomeles japonica*), medicinal herbs – Maral root (*Rhaponticum chartamoides*) and ornamental plants – callas. Finding a technological solutions for production of healthy planting material perspective for commercial production, and to develop biotechnological competences through cooperation of scientific and educational institutions.

Contact

Līva Purmale,
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Development of biotechnological competences for production of high-value horticulture products

Description of activities

Development of fruit and berry growing technologies and diversification of usage of processing by-products by evaluation of biologically active compounds with antioxidant properties and natural pigments in raw materials. Development of technical instructions of the products. Development of methodology for in vitro propagation of sea buckthorn; adaptation of in vitro propagation protocols for local cultivars of raspberries, detection of viruses in local raspberry germplasm and virus elimination; detection of viruses in callas collection; development of in vitro propagation technique for callas and Maral root; genetic characterization of local Japanese quince genotypes.

Implementation period

2019. - 2023.



Autonomous robotic platform Latvijas iDārzs (Latvian i-Garden) – for a sustainable development of plant nursery sector

Objective of the project

To draw up and implement in practice a robotic, autonomous platform Latvijas iDārzs (Latvian i-Garden) that will ensure plant monitoring and tending function as well as automation and digitalization of the production process.

Description of activities

Within the project, research will be carried out to master new knowledge and skills, regarding operation of the robotic platform iDārzs as well as a prototype of iDārzs with integrated modules of cameras and sensors, equipment and software will be developed in the laboratory environment. In addition, sensors and cameras, intended for the platform, will be tested at a laboratory as well as the plant data collection algorithm will be developed.

Contact

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Implementation period

2019. - 2022.



Research for innovative solutions and development of new methods, facilitating effectiveness and quality improvement in Latvian greenhouse sector (IRIS)

Description of activities

New technology/product will be developed - IRIS IoT sensor system and data processing platform, which has modular architecture and can be used both in small and industrial greenhouses. A new method, adopted to Latvia climate situation, will be created to analyze and assess impact of different light specters and efficiency (umol) on specific plant species, as well as impact of the new technologies parameters on plant yields, behavior of pollinating bumblebees and fungus diseases. Additionally a barometer for greenhouses is planned to be created - a new analysis technology and “performance indicators”.

Objective of the project

Developing of effective management and process analysis algorithms for greenhouse equipment, suitable for Latvia's climatic conditions, using the latest solutions of greenhouse technologies (IoT sensor systems, lighting systems, etc,) assessing their impact on interrelated processes in greenhouses as well as to develop new methods and recommendations, facilitating effectiveness, competitiveness and environmentally friendly operation of Latvia's greenhouse sector.

Contact

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Implementation period

2019. - 2022.



Development of a new technology for production of plant fertilizers from fermentation by-products of biogas production facility – cogeneration residue

Objective of the project

Developing of new technologies to produce soil fertility improving products (fertilizers) with a high added value from by-products – digests and wood ashes.

Description of activities

Development of production technology of a new type of fertilizer from wood ashes and digestate. Analysis of different digestate, produced in Latvia, to determine the content of ashes, impact of different mixtures of digestate and wood ashes on plant growth and productivity in vegetation vessels and in field and forest conditions, development of a technological cycle for production of a competitive product and studying of the impact on the production technology of changes in proportions of raw material. Creating of new products from by-products of biogas and wood cogeneration stations.

Contact

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Implementation period

2019. - 2022.



Innovative solutions in treatment and processing of industrial hemp

Objective of the project

To research and improve hemp growing chain by studying the impact of growing technologies on hemp productivity, quantitative and qualitative parameters, output, suitability for production of high added value products, and to develop recommendations for selection of optimal hemp growing and harvesting technologies in Latvia's agri-climatic conditions.

Contact

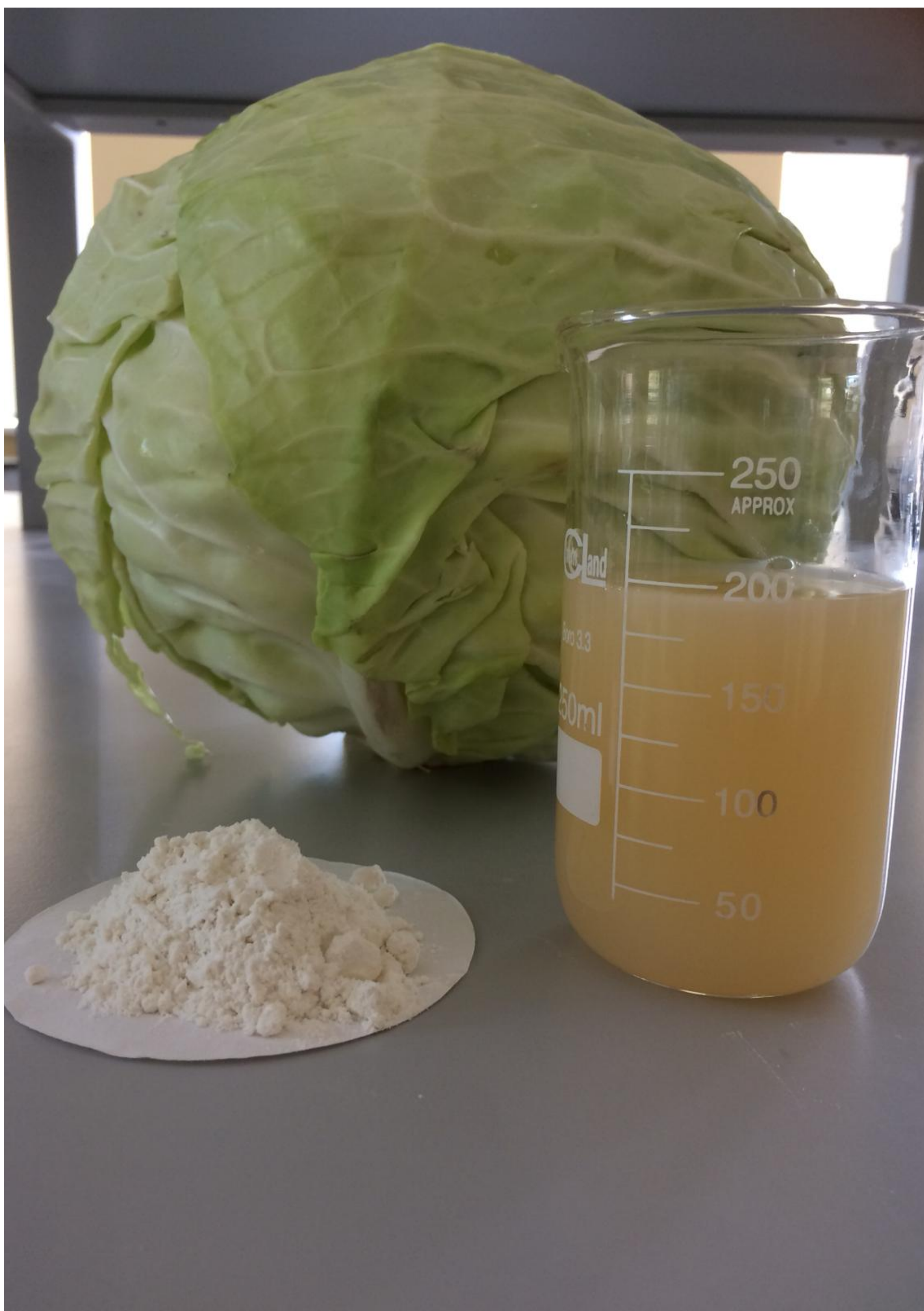
SIA "JUMIS GEO",
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Description of activities

Suitability of different varieties of industrial hemp to production of fiber in different soil and agri-climatic conditions of Latvia has been researched and changes in physical and chemical properties of hemp have been determined by applying different growing practices and conditions. Hemp harvesting technologies and technologic methods of post-harvesting treatment on farms will be improved. The research has been carried out on the use of hemp fiber and hemp shive. Economic analysis have been made in hemp sector and recommendations issued on the perspective of the sector.

Implementation period

2019. - 2022.



Industrial research – production and processing of organic and conventional cabbage, by studying and working out innovative and zero waste technology

Description of activities

Possibilities will be researched to produce powdered sauerkraut juice (dehydrated juice), applying an innovative technology, retaining inherent natural and valuable substances of the product. The zero waste technology will be developed, ensuring an effective utilization of agricultural resources. Solutions will be assessed for transfer of investment resources from the necessity to invest in waste treatment equipment/constructions to the investments in development of innovative products, adding value to agricultural products.

Objective of the project

Developing of an innovative zero waste technology of production of powdered sauerkraut juice (dehydrated juice) and its use in developing of innovative products with high added value in sectors of food, cosmetics and pharmaceuticals (food additives).

Implementation period

2019. - 2021.

Contact

Latvijas Lauksaimniecības universitāte,
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Development of a uniform support system of wood flow management for more effective forestry development in Latvia

Description of activities

The project envisages setting up of a uniform wood flow management information support system. EIP working group is planning within the project: developing of information system, database services, translation modules, developing and maintenance of basic data on wood flow, developing of a uniform procedure for determination of wood volume and quality and standardization of equipment, assessment of standard environment, process analysis as well as a number of information dissemination measures.

Objective of the project

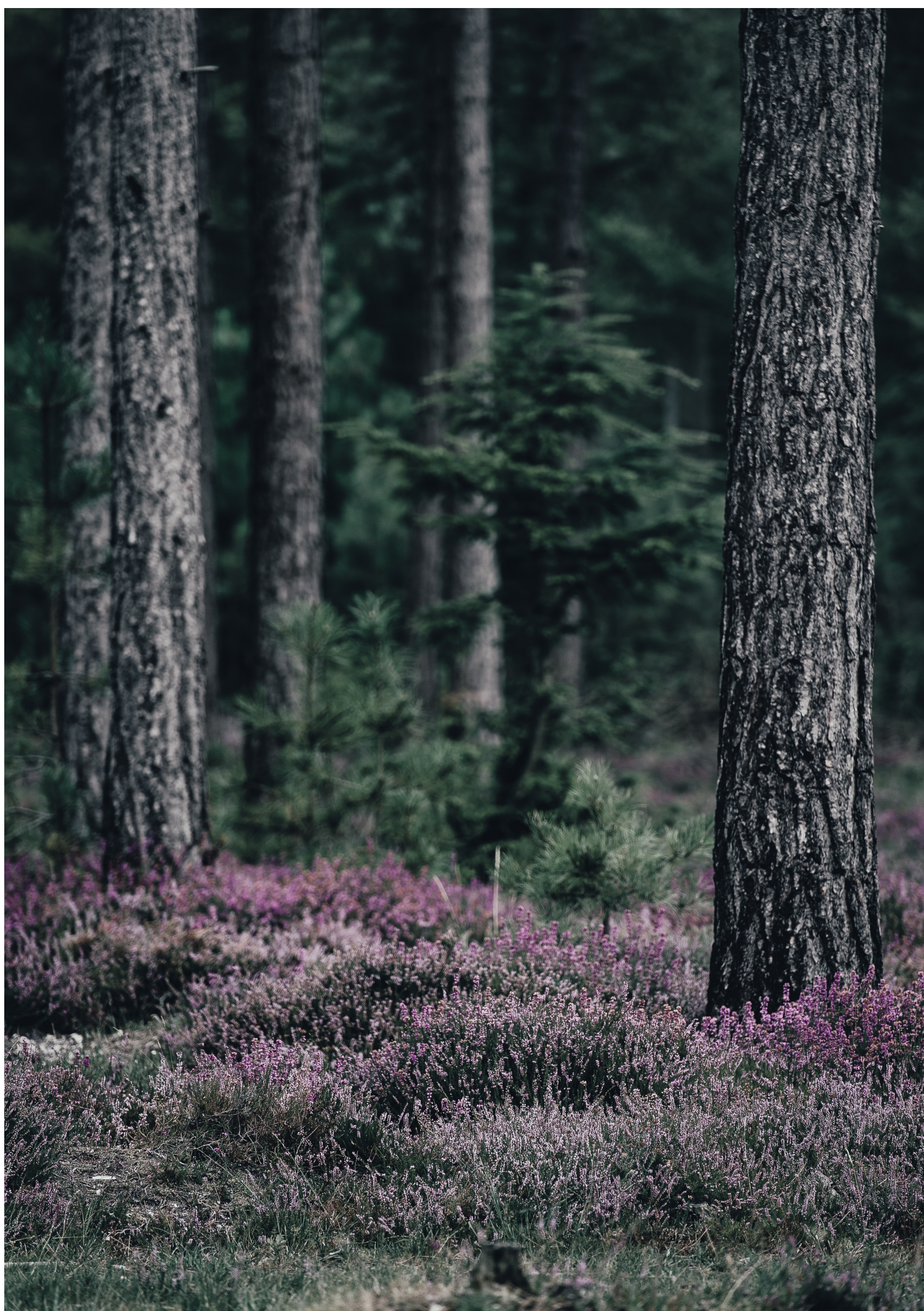
The aim of the project is development of a uniform wood flow and management support system in Latvia by applying innovative information and communication technologies thus, making forestry more effective for all market operators involved – wood sellers, buyers and providers of services.

Contact

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Implementation period

2019. - 2021.



Innovative solutions in planning and organization of agricultural and forestry produce transportation

Description of activities

Within the project, transport specificity and load of at least 7 (seven) companies will be analyzed to produce data on the load in different seasons, work intensity and, if possible, climate impact. Data on specification and load of transport units have been collected, analyzed and modelled at individual agricultural, forestry and transport companies and companies, operating simultaneously in agricultural and forestry sector. A simplified modelling concept and the prototype of logistics modelling and management system will be developed.

Objective of the project

To develop an economically preferable and effective prototype of logistics modelling and management system for transport of heavy loads in agricultural and forestry sector, making maximum use of the existing machinery units at enterprises and the attracted human resources.

Contact

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Implementation period

2019. - 2022.



The development of the decision-making support system for restriction of the disease, affecting leaves and ears of winter wheat

Objective of the project

Improvement of winter wheat growing technology in Latvia by a more effective use of resources and increasing the profit. For this purpose, there will be a support system set up for restriction of winter wheat leaf and ear disease that would be both economically and technologically justified.

Contact

Oskars Balodis,
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Description of activities

Assessment of risks factors, associated with spreading of winter wheat diseases and the assessment of fungicide application times and instances, assessment of winter wheat varieties, the impact assessment of fungicide application intensity (different doses and treatment times) on cost efficiency of winter wheat growing and GHG emission volume at different nitrogen application levels; Development of the software requirement specifications for the decision-making support system and the project description, preparation of the documentation, preparation of the prototype and functional testing of the internet platform.

Implementation period

2018. - 2023.



Development of a robotic weed management equipment

Description of activities

Within the project it is planned to create a new equipment, starting from the designing and construction of separate units up to the development of control software algorithms. This equipment will use optical sensors and GPS signal to be oriented in the environment and to recognize furrows and crop rows. Image recognition program based on the artificial intellect will be used to develop the algorithms for video image processing. Video images will be used to identify different plants, to distinguish between them and send a signal to weed-control modules.

Objective of the project

Within the project it is planned to develop a weed management equipment that would be able to autonomously move on a field and identify weeds and crops, as well as a high-power laser or precisely positioned mechanical tool is going to be used, to destroy the weed or considerably hinder its further growth.

Contact

Jānis Jaško,
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Implementation period

2019. - 2020.



Objective of the project

Development of novel materials for fruit treatment, particularly soft berries (raspberries and strawberries) - biologically degradable edible coatings for preserving quality of berries and prolongation of their storage time without using for human and environment harmful chemicals.

Contact

Pāvels Semjonovs,
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Obtaining of biodegradable polymers from renewable resources for production of protective coatings and packaging materials for fruits

Description of activities

This study aims to verify that the storage time of berries can be extended by coating them with an effective, safe for health and biodegradable polymer, which is obtained by way of microbial synthesis of polysaccharides, their derivatives and composites. Research will be carried out on specific features of biopolymers obtained from agricultural and industry by-products. Developing a prototype of the technology for production of biopolymer coatings and packaging materials with the characteristics corresponding to the type of their application.

Implementation period

2019. - 2022.



New solutions to the production of dairy products and processing of by-products

Objective of the project

The project aim is finding of new solutions for using lactose in sweetening of dairy products and processing of whey into feed additives.

Contact

Jana Lakstiņa
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Description of activities

The project activities are planned to be performed in two directions: 1) the study of whey hydrolysis for increasing of dairy product sweetness; 2) study of lactose fermentation for production of organic acids (lactic acid and propionic acid), and the development of technologies for production of products, ensuring a wholesome feeding for animals and/or preservation of animal feed. The study will contribute to milk processing effectiveness as well as to setting up of a reciprocally beneficial link between milk producers and milk processors both involved in food production chain.

Implementation period

2018. - 2020.



Production of probiotics from cheese and curds whey and the further use of whey in production of improved multifunctional dairy products

Description of activities

There will be an industrial research carried out within the project on the growing of probiotics and their surviving in specific products and their impact on the product qualities. New knowledge and skills will be acquired in the development of new products (production of improved multifunctional dairy products) and processes (growing of probiotics on the basis of sour whey).

Objective of the project

To develop the probiotics growing technology on the basis of cheese, and particularly, on curds whey (milk processing by-product) and to use them in production of improved multifunctional dairy products thus, addressing practical needs of the procession of agricultural products, namely, increasing considerably the added value of products, produced by processing of primary agricultural products (cow milk) and agricultural products as well as finding a practical and necessary use of agricultural processing by-products.

Contact

Dzintra Simsone,
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Implementation period

2018. - 2019.



Innovative and economically justified solutions to raise production efficiency and quality of fruit for apples and raspberries

Objective of the project

By joining a vast scope of fruit production experts and sector enterprises, to develop the economically justified, innovative and environmentally friendly solutions, focused on reduction of costs associated with production and harvesting of apples and raspberries and the quality improvement of fruits intended for fresh consumption and processing.

Contact

Biedrība "Latvijas augļkopju asociācija",
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Description of activities

In the course of the project implementation, three new, economically justified technologies and solutions will be developed for apple trees and 2 – for raspberries: 1. Mechanical shaping of apple-tree crowns for varieties with growth-inhibiting rootstocks; 2. Mechanical thinning of blossoms; 3. Drop-irrigation/fertigation technology in commercial orchards in hilly areas; 4. Mechanical harvesting of autumn raspberries for varieties grown in Latvia; 5. Growing technology of raspberries, using VOEN-type covering.

Implementation period

2018. - 2023.



Development of medicinal food for patients of malnutrition/dysfaga, creating a new, nationally significant product with a high added value

Objective of the project

To develop the innovative and easily available medicinal product(s) for patients with malnutrition/dysfagia, produced on the basis of the research, carried out by Latvian scientists, agricultural raw materials, grown in Latvia, local processing and local production of the end product.

Contact

Ēriks Cešeiko,
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Description of activities

An industrial research will be carried out within the project, resulting in preparation of a scientifically justified product recipes for patients with malnutrition/ dysfagia and solutions for production technology. This will be planned and significant research with a view to obtain new knowledge and skills for the development of new produce and processes. An experimental work is also planned to be carried out within the project by applying the knowledge and solutions, acquired previously in the result of scientific research on specific dietary products, intended for malnutrition/dysphagia patients. Technologies of the products developed at this stage will be tested.

Implementation period

2018. - 2021.



Objective of the project

The project will be carried out to explore and determine the optimal growth conditions in protected areas – greenhouses, for cultivation of different varieties of vegetables (tomato and cucumber) using hydroponic growing method with artificial and natural lightening.

Contact

Latvijas Universitāte,
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Determining of the optimal growth conditions for vegetables using hydroponics cultivation method with artificial and natural lightening

Description of activities

The project will study nutrient status of tomatoes and cucumbers during vegetation season in greenhouses with artificial and natural lighting, evaluate chemical composition of nutrient solution, develop and test the optimized conditions of mineral nutrition and its effectiveness. Pest monitoring, research of beneficial insects, identification of disease-causing agents; effectiveness check of prospective plant protection means and development of recommendations will be done. To implement the activities planned, a production/research platform will be provided in greenhouses, implementation of continuous monitoring of all processes, recording of the yield and of the recommendations.

Implementation period

2019. - 2021.



Study of application of an innovative dehydration technology in sapropel production, application options of the products, produced on the basis of sap

Objective of the project

The project aim is to study and develop of energy effective and economically justified sapropel production (dehydration) technologies in Latvia's conditions, and to assess application suitability of sapropel, as a biologically active additive and soil fertilization product, in agriculture.

Contact

Ilze Vīķe,
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Description of activities

To achieve the project aims, the following activities are planned:

Development of sapropel dehydration method;

The studying of sapropel as a biological fertilizer and soil substrate product;

The studying of sapropel as a biologically active feed additive in animal production.

The project theme is focusing on the study of the use of a completely new technology in sapropel production (dehydration) in Latvia's conditions, and the use of the new sapropel product in such an important sector of the national economy as agriculture, in the sector of primary production that will further be offered for the use in industrial production.

Implementation period

2018. - 2023.



A low price bolus for monitoring of rumen parameters and an early diagnosing of a subacute rumen acidosis in cows

Objective of the project

To develop and introduce into practice an intraruminal long-term system and the method for monitoring of rumen parameters in order to extend the life span of highly-productive dairy cows, increase milk yield, to timely find out undesirable changes in rumen parameters and to carry out measures to eliminate subacute acidosis of rumen (SARA). The system will enhance the productivity of animal husbandry sector, reduce the volume of low productive work on animal husbandry farms and improve animal keeping conditions.

Contact

Anatolijs Zabašta,
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Description of activities

The project is planned as an experimental work that would include working out of a prototype of SARA diagnosing system, demonstrations, testing and validation in the environment, reflecting realistic operation conditions. The system will be tested in the real environment

Implementation period

2018. - 2021.



Research of effective heat production and supply solutions in covered areas

Objective of the project

Developing of an energy - efficient technology, suitable for Latvia's climatic conditions, with an integrated heat pump (air-water) and solar energy collector, and building of an experimental construction, producing heat for heating of covered areas (air thermoregulation), accumulation of heat energy and the use of surplus heat energy in processing of primary agricultural and forestry produce – drying.

Contact

Ādolfs Ruciņš,
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Description of activities

Designing of constructions, building of collectors, their testing, analysis of the results and comparing of working parameters of the new collectors with indicators of the existing constructions. Developing of technologies for the use of solar energy collectors in heating of covered areas, processing of plant and forestry produce – drying, desiccation, etc. Researching of accumulation possibilities of the heat, produced by the heat pump in combination with solar collectors, verifying the results by applying the method practically in heating of the covered areas.

Implementation period

2019. - 2023.



Objective of the project

Development and verification of high nutritional value sea buckthorn seed oil fraction extraction methodology using an innovative technology – supercritical fluid extraction as a solvent using CO₂.

Contact

Mārtiņš Šķiņķis,
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Development of sea buckthorn seed oil production technology using supercritical CO₂ extraction

Description of activities

An innovative methodology will be developed to produce high nutritional value sea buckthorn seed oil fractions out of sea buckthorn residues after juice pressing. This technology is intended to be implemented in manufacturing facility to enhance production efficiency and produce high added value products as ingredient using byproducts after juice pressing in order to create zero waste technology.

Implementation period

2019. - 2021.



New technologies and economically justified solutions towards the local production of feed for pig breeding: growing in Latvia of genetically unmodified

Description of activities

EIP working group is planning: to appraise and economically assess the soya growing technologies in different regions of Latvia, including recommendations for selection of soya varieties and the most suitable agricultural machinery for conventional and organic production; to carry out the varietal assessment of local barley varieties, and to economically assess technological solutions for their growing, including naked grain varieties, with a view to a purposeful feed grain production; to carry out the varietal assessment of new barley varieties, including naked grain varieties, and to study new technological solutions; to prepare recommendations for processing of locally produced soya.

Objective of the project

Upon involvement of a vast scope of inter-branch experts, to find new solutions, based on experimental experience and economic analysis, in order to facilitate the ability of industries to grow more effectively raw material for a local feed production, to enlarge the Latvian market share for plant production by replacing imported/artificial feed raw material with locally produced products, and finding of a more effective feed production solutions thus, enhancing the competitiveness of pig production sector.

Contact

Sanita Zute,
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Implementation period

2018. - 2021.



Organically produced marbled steak

Objective of the project

Developing a new more effective and economically more profitable technology for fattening of organically produced, qualitative bovine animals, to produce marbled steaks. To find experimentally a shortest and more optimal fattening period and method in order to obtain the necessary class of fat and marbled steak by studying the intensive “Limousine” and less intensive “Aberdeen-Angus” breeds and crosses of beef animals. Developing of a fattening technology for beef animal sector.

Contact

Aldis Lācis,
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Description of activities

Within the framework of the project, it is envisaged to create the most economically crop rotation for organic farming that would be more effective for fattening of most widely-used breeds of beef animals in Latvia. Experimentally find the shortest and the most optimal fattening period and method to obtain the necessary class of fat and marbled steak as well.

Implementation period

2019. - 2021.



Objective of the project

To find a new solution for the wholesome use of dry matter of whey for products with a higher added value and a greater consumption/sales potential.

Contact

Jelena Zagorska,
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Economically justified processing of whey for new food and feed

Description of activities

Within the project, a new technology for production of lactobionic acid will be developed, that will allow to improve milk processing and to create innovative products, expanding assortment of products, increasing cheese output, extending shelf life. Whey processing method will be developed, that will reduce a negative impact on environment, minimize whey recycling costs. The new product - lactobionic acid will be created, that will enhance livestock's immune system and productivity, reducing cost of prophylactic treatment and a negative impact of drugs on humans and the environment.

Implementation period

2019. - 2021.



Development and verification of new methods, technologies and solutions in the process of production of agricultural plant stem cells, creating an innovative solution to their further integration in drinking water

Objective of the project

Creating innovative solution that allows to find the most effective and economical technology for the production of the plant stem cells and their further use in drinking water thus creating a favorable effect on human body. The research will serve as a basis for developing an absolutely innovative product with high added value – drinking water, enriched with plant stem cells (functional drink), originating only from the local raw materials.

Contact

Anita Pedãne,
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Description of activities

Two plant stem cell production technologies will be verified and compared in a laboratory – isolation of plant stem cells at the laboratory and extraction of plant stem cells from various parts of plants. Quantitative and qualitative comparison of these technologies will be performed as part of the research. The goal of the research is to verify and prove the effect and a favorable impact of plant stem cell extracts on human body, its compounding and potential integration with drinking water, to obtain nutritional value of drinking water enriched with plant stem cells. As a result, the ultimate goal is to develop a new product – drinking water, enriched with plant stem cells.

Implementation period

2019. - 2021.



Advanced farming systems for environmentally friendly and efficient crop production in Latvia

Objective of the project

Along with developing of farming systems, to make crop production competitive and more environmentally friendly within a changeable agricultural policy conditions. To master the knowledge based on a complex research and observations on interrelation of the type of soil tillage, crop rotation and the use of catch-crops under the impact of various agro-chemical characteristics of soil and agro-climatic conditions.

Contact

Inga Jansone,
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Description of activities

Within the project, trials will be carried out on no-till farming and options for the use of catch-crops, practical recommendations and a decision-making tool will be developed for farmers to facilitate effectiveness and sustainability of crop production, retaining the most important resource of crop production – fertile soil, at the same time, preventing and reducing unfavorable impact of production process on the environment (GHG and ammonium emissions, plant nutrient run-off, reduction of biological diversity).

Implementation period

2019. - 2023.

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