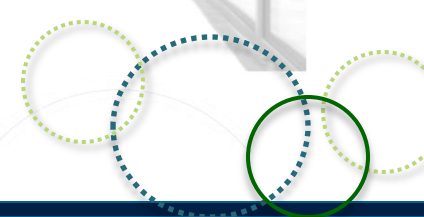




AgroBioTech Research Centre

Slovak University of Agriculture in Nitra
Slovak republic



Basic information - project



Operational program	Operational program Research and Development
Priority axis	2 Research and development support
Action	2.2 Transfer of knowledge and technologies obtained by the research and development into praxis
Announcement code	OPVaV-2011/2.2/01-PN
Total authorized costs	26 308 960.30
Amount of non-refundable financial contribution (EUR)	24993512.29
Project implementation	4/2013-06/2015



Basic information - project

The AgroBioTech Research Centre (ABT RC) of the Slovak University of Agriculture in Nitra was established in 2015 with the participation of three institutions:



-  **Slovak University of Agriculture in Nitra**
-  **Constantine the Philosopher University in Nitra**
- Institute of Plant Genetics and Biotechnology /Plant Science and Biodiversity Center/, Slovak Academy of Sciences in Nitra**



 <http://www.agrobiotech.sk>

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Basic information - project

Agrobiodiversity and effective utilization of traditional and less known species of plants and animals, better utilization of knowledge about the biology of agrobiodiversity for knowing the molecular background of tolerance to environmental stress and adaptability of plants and animals to their life in climatic extreme conditions of 21. century.

Plant and animal biotechnologies, genetic technologies, embryotechnologies with the aim to grow in vitro as well as production of transgene, cloned embryos for utilization in breeding.

Nutritionally significant substances of plant and animal origin and their effects on human health.

Strategy of development and preservation of endangered species of farm animals and maintaining agrobiodiversity in rearing farm animals.

Production and nonproduction potential of home primary commodities and their transformation into full-value plant and animal products.

Nontraditional and introduced plant species utilizable in nutrition as the sources of important biologically active substances.

The complex research of possibilities of growing, storage and energetic conversion of biomass in conditions of Slovakia with regard on sustainability and protection of live environment.

Analysis and predictions of development of global, European and mainly Slovak agricultural markets which have fundamental effect on Slovak rural development.

Analysis of the impact of biofuels on agrarian markets and on rural development.



<http://www.agrobiotech.sk/>



Space for innovative research in different areas



This new regional competence centre is equipped with top research infrastructure, which allows carrying out a research at international level in the 8 priority areas:



AGROECOLOGY

AGROBIOLOGY



BIOECONOMY

BIOTECHNOLOGY



**GENETIC
TECHNOLOGY**



BIOENERGY



**PROCESSING
TECHNOLOGY OF
AGRICULTURAL PRODUCTS**

AGRIFOOD INDUSTRY



Space for innovative research in different areas



The main mission of the ABT RC is to create new knowledge that is useful in both research and practice:



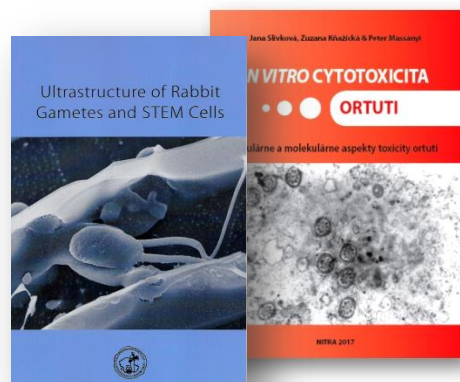
scientific outputs in different types of scientific publications



project activities



other outputs (i.e. patents, utility models, cooperation agreements)



Infrastructure

Technical and spacial background:

□ pavilions M /4 940.52 m²/and Q /631.17 m²/



□ construction of 30 specialized laboratories ,
3 integral laboratories:

- Laboratory of Spectroscopic Analysis
- Laboratory of Genetic Analysis
- Laboratory of Microscopic Analysis

and Service laboratories

Infrastructure

Unique devices and equipment:

AgroBioTech's workplaces and laboratories are equipped with the most advanced equipment. From among a number of modern devices in the ABT RC can be mentioned the only transmission electron microscope in Slovakia or second-generation sequencer for genetic analyses. Within the laboratories of the ABT RC, scientists investigate e.g. biomass conversion into second-generation biofuels or technologies to be used for processing of the foods of both plant and animal origin.

The ABT RC includes also laboratories of human nutrition, which allow verifying the health implications of consumption of certain foods through clinical trials.



Infrastructure

Personnel:

□ 18 personnel on a full-time staff employed within the ABT RC consists of:

- director
- scientific secretary
- administration personnel
- junior scientific researches
- research workers
- technical staff



□ 170 research experts registered /up to 31/05/2017/



Infrastructure

Scientific activities:

133 bachelor's or master's theses and 34 doctoral theses /up to 31/05/2017/

Project activities:

realized projects: APVV (5), VEGA (21), KEGA (7), other (9)

submitted projects (2016/2017): APVV (3), VEGA (7), OPVaI-VA/DP/2016 (5), other (7)

The applied research:

transfer of results into practice

development of cooperation with private or business sector (12 Framework agreement up to 31/05/2017)

Infrastructure

Promotional activities:

- ❑ 711 guests /up to 31/05/2017/
- ❑ president of the Slovak republic, political leaders, ambassadors, notables, research experts etc.



Výskumné centrum AgroBioTech SPU v Nitre je celouniverzitná spoločnosť, ktorá vykonáva koordinovaný inovátor výskum v prírodných oblastiach smerujúci k novým metódam a postupom vo výskume, najmä aplikovanom, s možnosťou transferu výsledkov do praxe. Vzniklo v roku 2015 na základe súhlasu projektu ITMS 26220220180 „Výbudovanie výskumného centra AgroBioTech“ v rámci pracieho programu ústredného výskumného inštitútu, čím umožnilo realizáciu výskumu na vysokej úrovni s praxnosťou na kľúčové potreby prirodných sém v agrobiológii, technológii spracovania poľnohospodárskych produktov a agropotravinárstve, biotechnológii, genetičných technológiách, agrobiológii, biosensoringe a bioinformácii. VC ABT je otvorený pracoviskom, infraštruktúrou, tým, zariadeniami a personálom. VC ABT môže byť využívaná univerzitnými pracovníkmi SPU a inými subjektmi výskumu a vývoja.





Thank you for your attention
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