



**Faculty of Tropical
AgriSciences**



**ANNUAL
REPORT**

2015



DEAN'S INTRODUCTION

The Faculty of Tropical AgriSciences (FTA) sailed through the year 2015 successfully, even despite the drop in the budget which was caused mainly by usage of non-actual point scoring system from science and research by the government. However, this problem affected all universities in the Czech Republic (CR) and despite that fact, the FTA carried out a lot of activities in 2015. Let me emphasize the most important ones. I am glad that the faculty noticed an increased interest, which was evidenced mainly by a higher number of new applicants. Nevertheless, the number of financed students was not increased and so the number of enrolled students stayed similar to the last year. I am glad that proportion of the foreign students is high, mainly in MSc studies which are taught in English. This corresponds to a higher number of the governmental and other scholarship holders. These students were gained thanks to the active presence of the FTA in international projects focused on students' mobility.

In 2015, the FTA reached accreditations of two new study programmes. The first one was the "International Cooperation in Agriculture and Rural Development" BSc programme, and the second one was the "Tropical Agrobiological and Bioresource Management" programme for PhD students. Both are taught in English. Next, I feel very important that the number of fine scientific papers, published in the peer-reviewed scientific journals with an impact factor, continually increases. This positively affects the amount of finances which are reallocated according to the qualitative performance (e.g. institutional support). The successfully open "Interfaculty Centre for Advanced Analysis of Agricultural Products", from the project of the Operational Programme Research, Development and Education (OP RDE), helped to increase the number of scientific outputs and competitiveness of the faculty. The FTA acquired top devices in the total value of around CZK 12 mil. by this centre. The faculty also joined to the PROIntensAfrica project

within the H2020 program; namely, as a consortium of 23 institutions from abroad. The implementation of the projects within Czech International Development Cooperation also forms an important part of the funding of science and research of the FTA. New projects in Georgia, Cambodia, Ukraine, and Vietnam started in 2015. The whole overview of all projects is presented further in this annual report.

Developmental cooperation and problems in developing countries belong to the main priorities of the FTA. The faculty also continued with the implementation of international projects financed by European Commission. Namely, it was the EACA, Erasmus Mundus Action 2 project called ALFABET, which is focused on students' exchanges from partner universities of the project in EU and Southeast Asia. The FTA coordinates this project till the year 2018. The Erasmus Mundus Action 3 project called ASK Asia was successfully ended. Moreover, the FTA is a part of EULALINKS and EULALINKS Sense consortia projects, also financed by EACA. All these projects help partially to finance the activities connected with science and research and also support exchanges of students, including internships, enabling the implementation of bachelor's, master's and doctoral theses. The faculty still puts more emphasis on the quality of the students' theses.

The year 2015 was also important from the point of view that the "The Strategic Plan for Scholarly, Scientific, Research, Development, Innovation, Artistic and Other Creative Activities

of Higher Education Institutions for 2016-2020" of the CULS Prague and the FTA has been approved. An investment plan, which envisages a construction of the tropical agriculture pavilion, is a part of a long-term strategy. In the following year, we should focus mainly on the promotion of the new study programmes, in order to maintain the number of applicants of high standard. New call of the OP RDE will bring new challenges and projects on which we are going to participate.

In conclusion, I would like to thank all employees and students of the faculty and CULS Prague, who participated on the good reputation and results of the FTA. I believe that the situation on the faculty will evolve in a positive way and the efforts of our staff, students, supporters, and friends will reap the harvest.

In Prague, 26th February 2016

DOC. ING. JAN BANOUT, PHD.

the Dean of the
Faculty

A handwritten signature in black ink, appearing to read 'J. Banout', written in a cursive style.

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BASIC FACTS ABOUT THE FACULTY

OFFICIAL NAME AND ADDRESS

Česká zemědělská univerzita v Praze
Fakulta tropického zemědělství
Kamýcká 129
165 21 Praha 6 – Suchbát

IN ENGLISH

Czech University of Life Sciences Prague
Faculty of Tropical AgriSciences
Kamýcká 129
165 21 Prague 6
Czech Republic

ABBREVIATIONS

FTZ ČZU (in Czech)	FTA CULS (in English)
FTZ (in Czech)	FTA (in English)

WEBPAGES OF THE FACULTY

WWW.FTZ.CZU.CZ

MISSION AND VISION OF THE FACULTY

THE MISSION OF THE FTA

The mission of the faculty is education of foreign and Czech students in the fields of tropical and subtropical agriculture, rural development and sustainable management of natural and energy resources in the tropics and subtropics. Publication of research results concerning agricultural, biological and social sciences and their application to the specific conditions of tropical regions and developing countries belongs to the important part of our mission.

THE VISION OF THE FTA

To be a prestigious institution with a very specific orientation within the Czech Republic, which will allow transferring the latest knowledge and technologies between the Czech Republic, EU, and tropical regions, with full respect to the values of local communities in the developing world, and the level of socio-economic and technological development.

STRUCTURE OF THE FACULTY

FACULTY MANAGEMENT

Dean

doc. Ing. Jan Banout, Ph.D.

First vice-dean and Vice-dean for education

ing. Jiří Hejkrlík, Ph.D.

Vice-dean for international relations

Ing. Petra Chaloupková, Ph.D.

Head of dean's office

Ing. Lucie Ackermann Blažková, Ph.D., MBA.

Vice-dean for science, research and doctoral study

doc. Dr. Ing. Eloy Fernández Cusimamani

Vice-dean for development

Ing. Jana Mazancová, Ph.D.



STRUCTURE OF THE FACULTY

THE LIST OF THE DEPARTMENTS AND FACULTY UNITS

CULS NO.	CZECH NAME	ENGLISH NAME
51110	Katedra tropických plodin a agrolesnictví	Department of Crop Sciences and Agroforestry
51120	Katedra chovu zvířat a potravinářství v tropech	Department of Animal Science and Food Processing
51130	Katedra udržitelných technologií	Department of Sustainable Technologies
51140	Katedra ekonomiky a rozvoje	Department of Economics and Development
51150	Botanická zahrada FTZ	FTA Botanical garden
51900	Děkanát: Sekretariát děkanátu Studijní oddělení Zahraniční oddělení Oddělení pro vědu, výzkum a doktorské studium Referent pro propagaci FTZ Farmový chov antilop losích a lam guanako v Lánech	Dean's Office: Secretariat of Dean Academic Administration Office International Relation Office Office of Research and Doctoral Studies Public Relations Officer Eland and Guanaco Farm at Lány

DEPARTMENT OF CROP SCIENCES AND AGROFORESTRY

Our department aims to contribute to higher sustainability, productivity, and resilience of smallholder farming systems in tropical and subtropical regions, through increased use of diversity in plant resources.

In teaching the department focuses on the production and agroecology of tropical crops with special orientation towards traditional and ecological agricultural systems (e.g. agroforestry) as well as modern production methods (e.g. plant biotechnologies) including specialized scientific disciplines, such as ethnobotany and chemoecology.

Through its research, the department aims to identify novel crops (underutilized species with promising economic value), encourage their conservation/domestication, and explore opportunities for their commercial use. With this approach we would like to contribute to the food security, nutrition, and health of the smallholder farming communities in the developing world. We conduct ethno-ecological studies of smallholder farming systems with the aim of determining both cultivated and wild plant diversity along with traditional practices related to the production and use of plant resources.

Two of our three laboratories focus on crop improvement through the application of biotechnology in the plant sciences.



The Molecular Biology Lab specialises in the genetic characterization of plant resources, whereas the Laboratory of Plant Tissue Cultures focuses on the development of novel micropropagation methods for the production of genetically identical and healthy planting materials. Nutritional, phytochemical, and pharmacological research performed by the Laboratory of Ethnobotany and Ethnopharmacology is focused on the identification of new foods with increased nutritional and health benefits as well as on the development of high added-value products for potential use in the food and pharmaceutical industries.

The department employs 8 academics (2 professors and 3 associate professors) and there are also more than 20 PhD students from the Czech Republic and foreign countries present at the department. The scientific and research activities are covered mainly by MSc. and PhD theses which aimed to be published as scientific papers. During the year 2015, the department finalised 23 scientific articles which were published or accepted for publication in journals with an impact factor.

DEPARTMENT OF ANIMAL SCIENCE AND FOOD PROCESSING

The activities of the department are divided into two main branches. Activities within the field of Animal and Food Science are focused on the application of modern findings from animal husbandry in the tropics and subtropics, with main attention to breeding and the improvement of local livestock breeds, the feeding and nutrition of animals, animal hygiene, illness prevention, and animal welfare. All these are logically complemented by processing of agriproducts in connection with food security and hygiene in food processing.

Within the field of Wildlife Management, the main focus is put on the breeding, protection and agricultural utilisation of indigenous species in the tropics. Behavioural studies and studies concerning the physiology and reproduction of domestic and wild animals also play an important role in our teaching activities and research.



Members of the department have contributed to the Western Derby eland (*Taurotragus derbianus derbianus*) conservation programme in Senegal since 2000. The department has been conducting farming of common eland (*Taurotragus oryx*) and guanacos (*Lama guanicoe*) at CULS Farm Estate Lány.

Research activities of the department are mostly carried out via research grants and student scientific project work with the goal of publishing these in scientific journals with an impact factor. In 2015, eleven academics of the department published a total of 27 scientific articles in journals with an IF. Moreover, the department contains 11 full-time PhD students and one post-doc researcher from Spain.

The laboratories (e.g. Laboratory of Molecular Genetics, and Laboratory for Biological Materials Analysis) as well as our own Common eland and guanaco farm are used for the research. Other research is also carried out in the zoological gardens and private farms and also in natural reserves in Senegal, where a lot of students' researches for theses about Derby elands and other species, and also about biodiversity conservation and education, have been carried out during recent years.

The department is also involved in the "PROIntenseAfrica - Towards a long-term Africa-EU partnership to raise sustainable food and nutrition security in Africa" project.

DEPARTMENT OF SUSTAINABLE TECHNOLOGIES

The department is currently focused on teaching and research in technical and environmental topics that have a direct impact on the development of the agriculture and rural areas of the tropics and subtropics. The department focuses on the implementation of "Appropriate technology" in tropical areas and/or developing countries. Appropriate technology is technology with minimal negative impact on the environment, using renewable energy and having good adoption rates among the recipients.

The department participates in education in most study programs within the faculty. It is the main guarantor of the MSc study program called "Sustainable Rural Development in the Tropics and Subtropics". It currently provides teaching of about 15 courses in the Bachelor's and Master's degree programs. The majority of courses are taught in English. In addition to which, it participates in the teaching of doctoral courses. It also provides training for foreign students in special programs such as ERASMUS + and Erasmus Mundus..

Research activities focus on the development and use of appropriate technology in rural areas in the tropics and deal with the use of renewable energy for agricultural production, food processing technology, processing of organic waste in rural



areas, and monitoring of inadequate farming systems in relation to their impact on the environment in tropical areas and/or developing countries.

The department also focuses on the issues of poverty reduction in developing countries. Currently, the core of the research activities is funded by projects under the Czech Republic Development Cooperation Program. In 2015, it was the research in Ethiopia, Georgia, Moldova, Cambodia, and Vietnam. Additional research funding comes from the institutional support program of the Ministry of Education, Youth and Sports of the Czech Republic and via internal grants of the CULS Prague. In the field of science and research, the department cooperates with other faculties of CULS Prague, with research institutes in the Czech Republic, as well as with institutions from abroad, both from within the EU and from other countries.

The department is managing three laboratories: Laboratory of Biofuels, Laboratory of Food Processing Technologies, and Laboratory of Environmental Technologies.

DEPARTMENT OF ECONOMICS AND DEVELOPMENT

The mission of the department is teaching, research, and initiation of extension activities that address and analyse the economic and social aspects of agriculture in tropical and subtropical areas leading to higher sustainability, resilience, diversification, and profitability of farming systems, household economics, and value-chains, while maintaining sustainable use of natural, capital, and human resources.

Our teaching activities are focused on the principles and analysis of farming systems, local and global value chains, marketing and consumer behaviour, access of poor people to financial resources, and agrarian policy. The department guarantees the MSc study programme called “International Development and Agricultural Economics”, however, the academics also participate on the lessons for other BSc, MSc, and PhD study programmes.



Our research activities have the ambition to reflect how the changing economic environment in tropical and poor regions may influence the use of natural resources and the structure of farm production, to map the function and analyse the potential for the creation of both local and global value chains, with special emphasis on traditional and not yet fully utilised plant species, to analyse consumer behaviour and the demand for these traditional agricultural products, access of poor farmers to financial resources and impact of agrarian policy on both households and ecosystems.

The vision of the department is to use the tools of institutional economics together with sound principles of market mechanisms to improve the living standards of farmers, maintaining their original heritage and the biodiversity of the tropics, while enriching household consumption in both tropical areas as well as in European countries with better, healthier, and more valuable agricultural products.

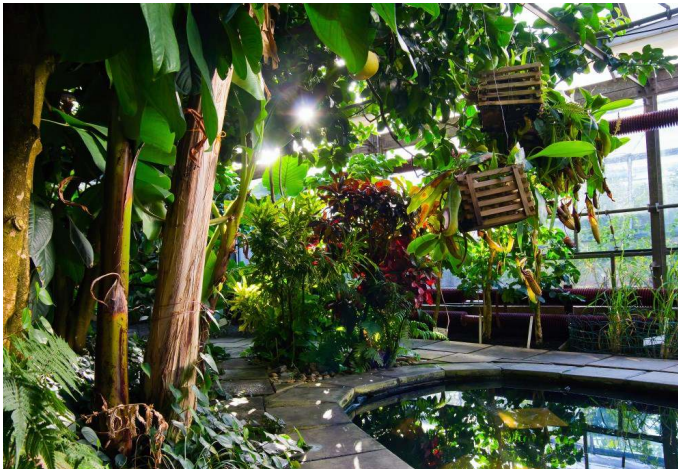
In 2015, the department continued with publication of the high-quality papers published in scientific journal with an impact factor. Its members published 10 scientific papers indexed in the Web of Science and Scopus. The department also hosted one post-doc researcher, Václava Kožený.

The members of the department were also involved in development and research projects in the countries of Western Balkans, Caucasus, Southeast Asia, Central Asia, and Sub-Saharan Africa.

BOTANICAL GARDEN

The Botanical Garden of the Faculty of Tropical AgriSciences was planned and constructed as an integral part of the complex of the University of Agriculture in Prague. It was opened on 1.1.1968. Today, the Botanical Garden cooperates with more than 200 botanical gardens and research institutions worldwide and became a member of the Union of Botanical Gardens in 2011.

The Botanical Garden has a unique and comprehensive collection of crop plants from the tropics and subtropics. The collection includes plants used for direct consumption, i.e. fruit, vegetables, cereals, legumes, and root crops.



Visitors can also see medicinal, aromatic and textile plants, as well as stimulatory food and spices. This collection is used for specialist courses taught at the Faculty of Tropical Agriculture and other faculties at CULS Prague. Guided tours for pupils, students and public are also organized.

In 2015, the Botanical Garden joined the international event called Open Garden Squares Weekend (13.-14.6.2015). It also organises several thematic exhibitions, e.g. very popular exhibition of chilli peppers. Furthermore, the Botanical Garden supplied plant material for traveling exhibition of peanuts, which was organised by the Silesian Museum in Opava, and plants of exotic spice were lent to the National Museum in Prague for the event called “At least for the Weekend...”.



COMMON ELAND AND GUANACOS' FARM

The Common elands (*Taurotragus oryx*) has been bred at University Farm Estate at Lány under management of the Faculty of Tropical AgriSciences since 2006. The farming activities of the FTA were extended by guanacos (*Lama guanicoe*) in 2009. Despite the fact that both species were from the beginning farmed for the production of breeding animals and meat, the main objective of the farms stands on the research. The FTA is implementing the long-term research project called "Evaluation of Eland and Guanaco for Farming in the Czech Republic". Both farms are commonly used by students for their researches on BSc, MSc, and PhD theses, field trips and practical trainings, even for students from Spain or France. The farms are also visited by important delegations not only from the Czech Republic but also from foreign countries (e.g. Senegal).



Common Eland Farm

The farm arose by recultivation of abandoned and weed-overgrown land of the former horticulture. The aims of the farm are to evaluate the breeding technology from an animal welfare perspective and to raise this species for meat production in the Czech Republic, to continue with scientific research and further knowledge about eland, to educate and train students of the CULS Prague in breeding techniques with semi-domesticated species, and to sponsor student research.

During the year 2015, 14 calves were born. Next three females were deposited from the Zoo Dvůr Králové which cooperated with the farm. Next, three animals were sold to private breeder in the Czech Republic and 10 young antelopes

were exported to Russia. By the end of the year, the farm contained 54 antelopes which covered the maximal breeding capacity for the winter period. By 2015, there were a total of 159 calves born.



Farming of Guanacos

The breeding was established in an abandoned fruit orchard, which was ideal for the needs of llamas and fits essentially in agroforestry system (silvopastoralism) as suitable environment for the breeding. The entire breeding facility capacity of about 25 individuals was reached by the year 2015. Guanacos perform natural forced dispersal of young ones; therefore the enclosure was divided into two parts in 2014; one for breeding and a second for production, which will gradually turn into a second

breeding group. The basis of the second group was completed in 2015 by import of unrelated breeding animals from the German partner zoos, Tierpark Berlin and Opel Zoo in Kronberg.

The intention is also to contribute to the understanding of this highly adaptable species, because some aspects of the life and biology of llamas were not previously studied. Breeding in captivity allows recognizing and studying them in detail than in the wild, including the aforementioned behaviour; the male chases his grown offspring from the harem of females. Their behaviour and body postures communication, i.e. position of the tail and ears, as well as acoustic and olfactory communication on toilets along with social interactions, can give us close insight into their lives. Because of their longevity, to study life history of guanacos will be a task for a generation of researchers.



ACADEMIC SENATE OF THE FACULTY

The Academic Senate started the year 2015 by the annual meeting of the Academic Community of the FTA. The senate continued with unchanged composition of the members during the first half of the year: Radim Kotrba (chairman), Karolína Brandlová, Ladislav Kokoška, Zbyněk Polesný, Patrik Prikner, and Ladislav Verner as academics and Tereza Žáková, Iva Nádvorníková, and Hynek Roubík as students. Tereza Žáková interrupted her studies and so she was replaced by Markéta Švejcarová in July 2015. Hynek Roubík was elected as chair of the students' chamber in the Council of Higher Education and so he became a member of board of the Council. This is prestige promotion not only for the FTA but also for the whole university.

In 2015, the senate assembled three meetings. The Annual Report of the FTA, faculty's budget, number of students enrolled into the studies, long-term plan of the FTA for years 2016 – 2020, and other issues were discussed and approved on these meetings and also by *per rollam* communication.

FACULTY IN NUMBERS

NUMBERS OF THE STUDENTS IN 2015

BSc studies	346
MSc studies	189
PhD studies (full-time)	42
PhD studies (part-time)	15
Total	592

NUMBERS OF CORE EMPLOYEES IN 2015

Professors (prof.)	6
Associate professors (doc.)	7
Assistant professors	14
Postdoctoral positions	3
Others	23
Total	53



STUDIES

STUDIES AT THE FTA

The structure of the bachelor's and master's degree studies has not significantly changed and it corresponds with the demand of students from the Czech Republic as well as from foreign countries. Thanks to the specialization of the faculty, the offer of the study programmes reflects the possibility to find employment even outside of the Czech Republic.



Two bachelor's and six master's degree study programmes, which are taught only in English, cover a wide spectrum of agriculture issues in developing countries including also rural development. Faculty also offered two programmes of doctoral studies; one in Czech and one in English.

During the year 2015, an accreditation of the new bachelor programme, which will be taught in English, the “International Cooperation in Agricultural and Rural Development” was prepared and approved. This programme will be open for the first time in the year 2016.

The fact that the faculty ranked third in the category of agricultural faculties in the “Faculty of the Year” competition also shows the quality of the offered programmes. This competition takes place every year and it is based on responses of students. Even that, the FTA ranked second in the year 2014.

BACHELOR'S DEGREE PROGRAMMES

The FTA had two bachelor's degree programmes taught in Czech in 2015:



AGRICULTURE IN THE TROPICS AND SUBTROPICS

The programme is designed as the first stage of university education for future experts in agriculture in developing countries, who will specialize in the subsequent stages of the study in research in specific disciplines, including tropical crop management, animal's husbandry, biodiversity conservation, and technical assistance for developing countries in agriculture and food industry.

SUSTAINABLE DEVELOPMENT IN TROPICS AND SUBTROPICS

The programme is based on theoretical knowledge and practical skills, related to rural development, and it consists of the courses addressing various technological, economic, and ecological aspects of rural development in developing countries.

MASTER'S DEGREE PROGRAMMES

The FTA had six master's degree programmes taught in English in 2015:

TROPICAL CROP MANAGEMENT AND ECOLOGY

The programme is oriented on study of production and agroecology of tropical and subtropical crops and their traditional and ecologically sustainable cropping systems, as well as the modern production techniques, including specific scientific disciplines, such as ethnobotany, chemoecology, or phytotaxonomy.



ANIMAL AND FOOD SCIENCE IN TROPICS AND SUBTROPICS

The programme is focused on breeding of domestic and farmed animals, typical for the tropical and subtropical regions; on their nutrition, diseases prevention, and reproduction. At the same time, it is also specialised on processing of animal products, food quality and safety, as well as on understanding the impacts of these activities on the environment and human health.

INTERNATIONAL DEVELOPMENT AND AGRICULTURAL ECONOMICS

This programme is oriented on economic, social, cultural, and environmental aspects of agricultural production and agribusiness development, particularly in tropical regions. The main focus is on poverty alleviation strategies, strengthening of institutional frameworks for rural development, sustainable farm-household economics, and/or, socioeconomic and cultural aspects of environmental conservation.



TROPICAL FORESTRY AND AGROFORESTRY

The study programme is based on the interdisciplinary approach in order to deepen theoretical knowledge and practical skills related to forestry and rural development in Third world countries. Students are prepared for professional forestry and wood processing activity. Great emphasis is also placed on related agriculture and rural development in these countries.

SUSTAINABLE RURAL DEVELOPMENT IN THE TROPICS AND SUBTROPICS

The programme is based on the interdisciplinary approach, in order to deepen theoretical knowledge and practical skills related to actual issues of rural development in developing countries. The programme consists of the courses addressing various technological, economic, and social aspects of rural development in these regions.

WILDLIFE MANAGEMENT IN TROPICS AND SUBTROPICS

The study programme provides the students with education in the domains embracing biodiversity conservation and wildlife management in tropical and subtropical regions. The general aim of the studies is to provide the profound knowledge of wildlife and to point out ways how to coordinate human activities and sustainable use of such natural resources.



PHD DEGREE PROGRAMMES

The priority of the FTA is improving the quality of study in doctoral programmes and PhD theses. In 2015, the faculty offered two PhD programmes:

SUSTAINABLE RURAL DEVELOPMENT IN THE TROPICS AND SUBTROPICS

- full time and part time form of studies; the length of the study is 4 years; taught in English

AGRICULTURE IN TROPICS AND SUBTROPICS

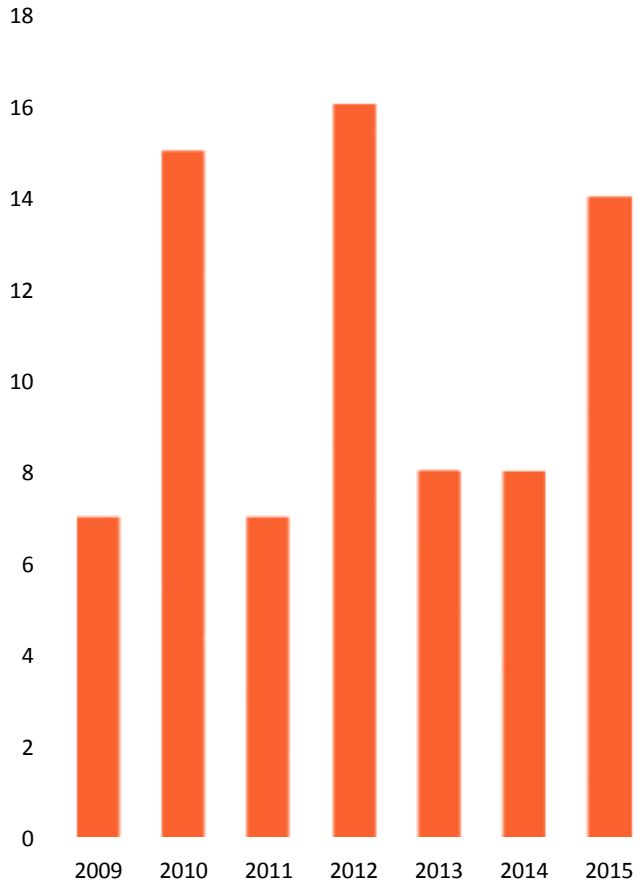
- full time and part time form of studies; the length of the study is 3 years; taught in Czech (since 2016 in English)



All PhD programmes are accredited in English and in the academic year 2014/2015, we had more foreign students in the first year than the Czech ones. All PhD thesis topics must pass the approval procedure of the Study boards and students are accepted to the PhD studies on the basis of complex evaluation of applicants. PhD students are evaluated twice a year by attestations where their study plans and research activities are assessed.

The FTA has in general about 50-60 PhD students. Unfortunately, a lot of students interrupted their studies and they have never enrolled back to studies, so they did not end successfully. The following figure shows that the number of PhD students who successfully ended their studies is fluctuating. In average, the faculty has about ten students per year who defend their PhD thesis successfully.

DEVELOPMENT OF PHD GRADUATES' NUMBERS



One new PhD programme will be offered from 2016:

TROPICAL AGROBIOLOGY AND BIORESOURCE MANAGEMENT

- full time and part time form of studies; the length of the study is 4 years; taught in English

The new PhD study programme, Tropical Agrobiology and Bioresource Management, is unique in the Czech Republic; not only for its geographical location but also by its focus on relatively wide topics, because it includes disciplines of basic research, through combined disciplines, to exclusively applied research or research with the innovation potential. The programme is based simultaneously on biological, ecological, technical, and engineering aspects applied to the challenging environment of tropical regions. Typical is its transdisciplinary character, which is reflected in the frequent topics for doctoral theses on the interface of traditionally understood disciplines (e.g. livestock husbandry vs. domestication of wildlife species, agriculture vs. ecology). The programme is not strictly connected with one of the department; on the contrary, it is open for all PhD students regardless of the department membership.

STUDENTS IN STUDY PROGRAMMES

A total of 633 students studied at the FTA in 2015 (it was 684 in 2014). Majority of them (577) studied in a full-time form, 15 in a part-time form (PhD students only), and 41 students in the lifelong learning programme.

About one third of all students are from foreign countries; the majority of them are from developing countries. The multicultural environment is typical for the faculty and it enables the interactions between Czech and foreign students. Majority of feigners came from Vietnam, Russia, Ghana, Ukraine, Nigeria and Cambodia. See the attached chart.

NUMBER OF STUDENTS IN BSC STUDIES

Programme	ZTS		TURTS	
	CR	foreign countries	CR	foreign countries
1.	81	31	31	74
2.	39	8	19	3
3.	38	1	15	6
Total	158	40	65	83

NUMBER OF STUDENTS IN PHD STUDIES

Year	Full time studies		Part time studies	
	CR	foreign countries	CR	foreign countries
1.	7	9	4	2
2.	5	8	5	2
3.	10	3	2	0
Total	22	20	11	4

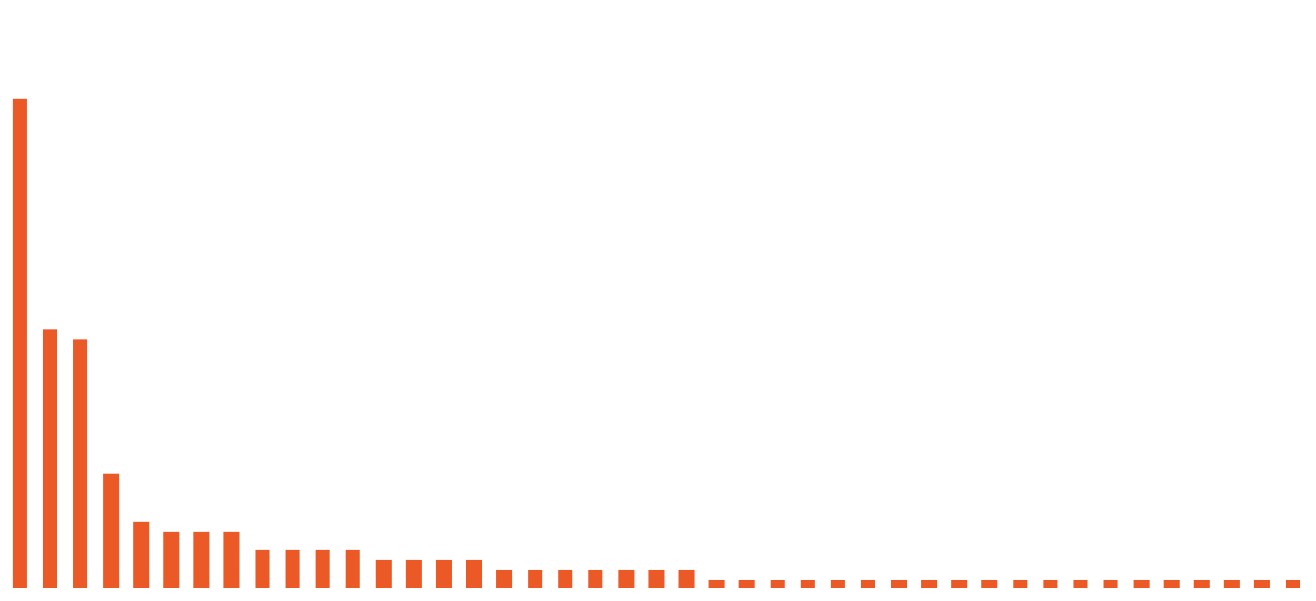
NUMBER OF STUDENTS IN MSC STUDIES

Programme	AFSTS		IDAE		WLM		TCME		SRD		TFA	
	CR	foreign countries	CR	foreign countries	CR	foreign countries	CR	foreign countries	CR	foreign countries	CR	foreign countries
1.	6	3	4	21	16	2	10	7	17	8	2	3
2.	5	2	18	14	9	0	9	8	14	10	1	0
Total	11	5	22	35	25	2	19	15	31	18	3	3

NUMBERS OF STUDENTS FROM FOREIGN COUNTRIES

60
50
40
30
20
10
0

Socialist Republic of Vietnam
Russian Federation
Republic of Ghana
Ukraine
Federal Republic of Nigeria
Kingdom of Cambodia
Slovak Republic
United Mexican States
French Republic
Kingdom of Spain
Mongolia
Republic of Colombia
Principality of Moldova
Republic of Belarus
Republic of Peru
Republic of the Philippines
Republic of Angola
Republic of Guatemala
Republic of Kazakhstan
Republic of Nicaragua
Republic of Rwanda
Republic of Uzbekistan
Republic of Zimbabwe
Bosnia and Herzegovina
Federal Dem. Republic of Ethiopia
Islamic Republic of Afghanistan
Kingdom of Belgium
Kingdom of the Netherlands
Kyrgyz Republic
Republic of Chad
Republic of El Salvador
Republic of Guinea
Republic of Honduras
Republic of Iraq
Republic of Mali
Republic of Namibia
Republic of Senegal
Republic of South Sudan
Republic of Tajikistan
Republic of Yemen
Republic of Zambia
Serbian Republic
Togolese Republic



OTHER EDUCATIONAL ACTIVITIES, LIFELONG LEARNING

In accordance with the strategic plan of the university, the students of the FTA were involved in the research and developing projects within their students' theses and tasks on the grants. Close cooperation was also carried out with the application sector in the field of science and research (by collaboration with research institutes and carrying out the research for application in the private sector), developing projects (partnership with private companies and NGOs) and teaching activities (external lecturers, practical trainings, and MSc thesis writing in these institutions).

The FTA regularly opens the lifelong learning course; the University of the Third Age entitled "Tropics for Everyone". The course is focused mainly on biological aspects of tropical agriculture and it was studied by 41 participants. It is opened every second year and the lectures and seminars are frequently supplemented by field trips.

The new course called "Block of Experts" enabled the presentations of professionals from praxes. In 2015, 5 experts were involved mainly from the Czech NGOs in the course.



SUPPORT FOR THE STUDENTS

Consultancy for students is understood as an integral part of the work with students. For this reason, consultancy has been implemented in accordance with the Czech law on higher education in pedagogical, psychosocial, legal, and information area and also in a professional career.

Consultancy is provided to students through several channels. Students can obtain useful information and contacts electronically on the internet, by e-mail or telephone, or they can personally contact a specialist adviser of the FTA. In 2015, “Consultancy” section with basic information for individual consulting worked within the student’s internet portal.

The Institute of Education and Communication plays a role of the coordinator of consulting services across the CULS Prague. Since 2006, the Counselling Centre for Students with Special Needs has been operating at the university. The Department of Psychology at the Faculty of Economics and Management CULS Prague provides psychosocial consultancy services.

The FTA supports mainly the pedagogical consultancy. It is covered by the staff of the Study Administration Office, one pedagogical advisor, and two academics. The consultancy is used mainly by students from foreign countries. Especially students from developing countries are facing the differences in language skills during the first year of their studies. The students can consult their problem also out of common office hours.

Extraordinarily talented students at the FTA are motivated by a system of merit scholarships; by regular scholarship during their studies, or by a single scholarship for final state examination. The faculty supported 15 excellent students in total, during 2015. Students are also motivated to participate in projects for the Internal Grant Agency of the FTA; they are involved in research teams, together with doctoral students and teachers. They also participate in development projects abroad; it is around 10 to 15 MSc students per year. Students are also supported in terms of international mobility associated with their theses. The FTA supported 19 students’ trips abroad for the purpose of data collection for their theses in 2015.

Since 2013, the FTA established the group of graduates on the social network LinkedIn. Currently, it includes 99 graduates from the years 2011-2015. The faculty stays in touch with the graduates by this network and it helps them to find an employment in the field of international cooperation.

INTEREST TO STUDY AT THE FACULTY

In 2015, 433 and 206 applications applied to bachelors' and masters' studies programmes, respectively. Finally, it was enrolled 195 students for BSc studies and 72 students for MSc studies.

The whole admission procedure is covered by the faculty. Admission procedure for bachelor's degree study programmes was carried out in the form of a written test from English and maths or biology, according to the study programme. The achievements of applicants in the form of good results in the nationwide Olympics are also included to the evaluation of candidates.

Admission procedure for Master's degree study programmes is usually carried out in the form of the interview in English, which is focused on the professional subject area and prerequisites for study in the selected field. Some of the study programmes also require an annotation of applicant's bachelor thesis and a motivation letter.

Potential students are contacted at their high schools and preparatory courses. A very good cooperation was established with the Institute for Language and Preparatory Studies, Charles University in Prague which organises the courses for applicants. The employees of the FTA also participated on seminars and lectures where the studies at the FTA were introduced. The Czech embassies in foreign countries also play an important role in active promotion of the faculty.

COMPARISONS OF THE INTEREST IN THE YEARS 2014 AND 2015

	Applica- tions 2014	Applica- tions 2015	Index 2014/2015	Admitted 2014	Admitted 2015	Index 2014/2015	Enrolled 2014	Enrolled 2015	Index 2014/2015
Bachelor's degree programmes	399	433	1.085	291	262	0.900	228	195	0.855
Master's degree programmes	151	206	1.364	97	97	1.000	61	72	1.180



**SCIENCE AND
RESEARCH**

ACTIVITIES OF THE DEPARTMENT OF SCIENCE, RESEARCH AND DOCTORAL STUDY

The Department of Science, Research and Doctoral Study organises and supports mainly these activities:

- operation of the Scientific Board,
- procedures for habilitation and professorships,
- distribution of information connected with science and research,
- organizing support for the scientific and research activities at the FTA,
- administrative management of doctoral studies.



SCIENTIFIC BOARD OF THE FTA

INTERNAL MEMBERS

doc. Ing. Jan Banout, Ph.D.	The dean of FTA, The head of the Department of Sustainable Technologies, FTA
Ing. Karolína Brandlová, Ph.D.	The head of the Department of Animal Science and Food Processing, FTA
prof. RNDr. Pavla Hejmanová, Ph.D.	The vice-head of the Department of Animal Science and Food Processing, FTA
Ing. Kristina Janečková Molnářová, Ph.D.	The vice-dean for International Relations of the Faculty of Environmental Science
prof. Ing. Ladislav Kokoška, Ph.D.	Department of Crop Sciences and Agroforestry, member of the Academic Senate of the FTA and the member of the Academic Senate of the CULS Prague
Ing. Olga Leuner, Ph.D.	Department of Crop Sciences and Agroforestry, FTA
doc. Ing. Bohdan Lojka, Ph.D.	The head of the Department of Crop Sciences and Agroforestry, FTA
doc. PhDr. Michal Lošťák, Ph.D.	The vice-rector for international relations of the CULS Prague
prof. Mgr. Ing. Markéta Sedmíková, Ph.D.	The vice-rector for science & research of the CULS Prague
Ing. Vladimír Verner, Ph.D.	The head of the Department of Economics and Development, FTA

doc. Dr. Ing. Eloy Fernández Cusimamani	Department of Crop Sciences and Agroforestry, the vice-dean for science, research and doctoral study of the FTA
prof. MVDr. Ing. František Jílek, DrSc.	Department of Veterinary Sciences, Faculty of Agrobiological Sciences, Food and Natural Resources
prof. Dr. Ing. František Kumhála	The head of the Department of Agricultural Machines, Faculty of Engineering
prof. Ing. Luděk Šišák, CSc.	The vice-dean for international relations, Faculty of Forestry and Wood Sciences

EXTERNAL MEMBERS

doc. Ing. Jan Chyský, CSc.	The head of the Department of Instrumentation and Control Engineering, Czech Technical University in Prague
prof. Dr. RNDr. Oldřich Lapčík	The head of the Department of Chemistry of Natural Compounds, University of Chemistry and Technology, Prague
doc. RNDr. Daniel Frynta, Dr.	The head of the „Ecology and Ethology Research Group“, Department of zoology, Charles University in Prague
doc. RNDr. Bohumír Janský, CSc.	The head of the Department of Physical Geography and Geocology, Charles University in Prague
doc. RNDr. Pavel Nováček, CSc.	The head of the Department of Development Studies, Palacky University in Olomouc
prof. RNDr. Vojtěch Novotný, CSc.	The head of the Department of Ecology and Environment Protection and the Laboratory of Tropical Ecology, Biology Centre CAS, Institute of Entomology. Department of Zoology, University of South Bohemia in České Budějovice
doc. RNDr. Irena Valterová, CSc.	The head of the research team of Infochemicals, Natural Products Chemistry, Institute of Organic Chemistry and Biochemistry AS CR. External lector of the Department of Organic Chemistry, Charles University in Prague

PROFESSORSHIP AND HABILITATIONS

The FTA offers for habilitation procedure and procedure for appointment as professor in the field of “Tropical Agriculture and Ecology”. The educational and scientific qualifications of an applicant, who is an important and respected authority in his field, should be proved during these procedures.

In 2015, two habilitations were successfully completed by:

- Francisco Ceacero Herrador, Ph.D.
- Mgr. Jan Šobotník, Ph.D.

Another habilitation was started by:

- RNDr. Ing. Tomáš Ratinger, Ph.D.

Finally, one professorship was also started by:

- doc. RNDr. Irena Valterová, CSc.

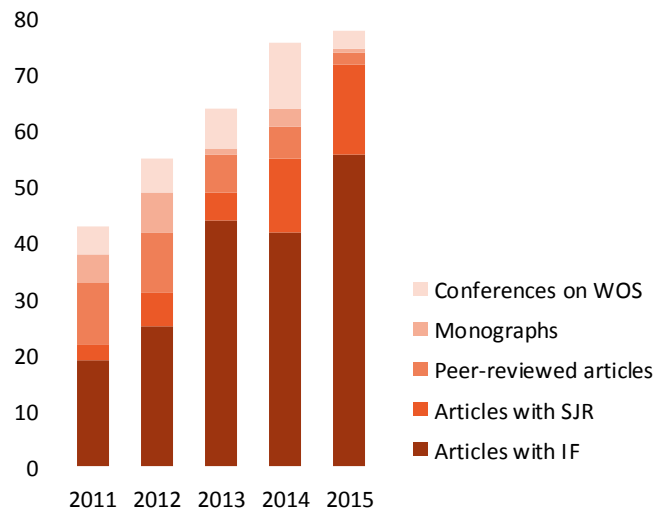


PUBLICATION ACTIVITIES AND RESULTS IN SCIENCE AND RESEARCH

Within the CULS Prague, the equalization in publications published in the Web of Science (WoS) databases, i.e. with impact factor (IF), and SCOPUS, with SJR index, was almost reached. The faculty maintained the past trend to create a high quality publications in 2015. The number of publications within WoS increased from 39 in 2014 to 56 in 2015. The number of publications in Scopus increased from 11 to 16. The FTA had 36 full-time employments, divided among 44 academics (professors, associate professors and assistant professors) in 2015, so the number of publications in standard within the CULS Prague.

The mean number of RIV points from 56 articles with IF was 44 (median 32) points. Mean number of RIV points for one academic employee was 62 points. All the important results in science and research are presented by the chart. Moreover, the FTA had 53 publication outputs which are not included in the RIV evaluation. These are mainly contributions at conferences. In conclusion, the FTA is showing the trend where the number of scientific papers, mainly with IF or SJR index, is increasing while the number of other articles and monographs is decreasing.

DEVELOPMENT IN THE NUMBER OF PUBLICATIONS OF SEVERAL CATEGORIES OVER THE PAST FIVE YEARS



PROJECTS AND GRANTS

In 2015, the FTA managed with the subsidy for specific university research in the sum of CZK 973,062. These finances were used mainly for the Internal Grant Agency of the FTA (CZK 880,000). Next, the conference TBCC 2015 was supported by CZK 70,000, and CZK 23,062 were used for other organizational activities in the field of science and research.

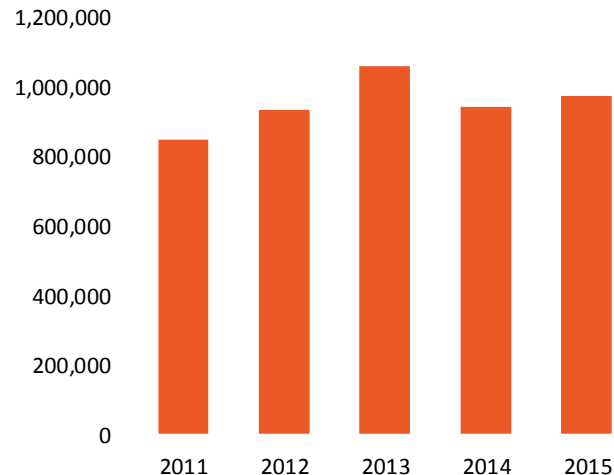
INTERNAL GRANT AGENCY OF THE FTA

The finances from specific university research are divided to projects which are administrated by the Internal Grant Agency (IGA) of the FTA.

The projects are implemented by research teams which also includes MSc and PhD students and so the projects are closely connected with their studies and research activities. The financial support is provided in correspondence to the Czech legislation and rules of the Ministry of Education, Youth and Sports.

The objective of the specific research is strengthening of independent creative activity of students in a field of research

DEVELOPMENT OF TOTAL SUBSIDIES FOR THE SPECIFIC UNIVERSITY RESEARCH ON THE FTA FOR THE LAST 5 YEARS (IN CZK)



and development, intensive involvement of students in a research teams, to reach higher efficiency of the work of students and student teams during the implementation of their theses or creation and publishing of student journals etc. The academics are the main projects' investigators; however, the number of MSc. or PhD students must be at least equal to the number of employees.

In 2015, 9 projects were supported with the total budget CZK 880,000. In total, 52 MSc and PhD students were involved in them. See the following table:

PROJECT TITLE	TEAM LEADER	BUDGET IN CZK	NUMBER OF STUDENTS
Natural products as preservatives in food processing	Jan Banout	75,735	4
Genetic diversity of endangered animal species in fragmented landscape	Barbora Černá Bolfíková	155,401	8
Micropropagation and mitotic of polyploidisation <i>in vitro</i> in selected ornamental and medicinal plants	Eloy Fernández	114,337	5
Energetic utilization of purposefully grown and waste biomass	Tatiana Ivanova	95,416	8
Chemical composition and biological activity of extracts and substances of plant origin	Ladislav Kokoška	106,472	3
Social dominance in animal communities II.	Radim Kotrba	131,690	3
Cooperatives as the empowering tool for development of rural communities in the Global South	Jana Mazancová	98,953	12
Analysis of fattening performance and carcass quality with regard on genotypes of lambs in Yemen	Mohamed Momani	33,154	2
Utilization of economic potential of less used plant species for the development of farms and households in rural and suburban areas of the world	Vladimír Verner	68,841	7
Total		880,000	52

CULS PRAGUE UNIVERSITY INTERNAL GRANT AGENCY

In 2015, 9 projects of CULS Prague University Internal Grant Agency (CIGA) were implemented by academics and students of the FTA in the roles of the main investigators or co-investigators.

PROJECT TITLE	MAIN INVESTIGATOR FROM THE FTA	BUDGET IN CZK	DURATION
Susceptibility of intestinal microbiota to plant-derived compounds and extracts	Kokoška Ladislav	*88,000	2014-2016
Honest signalling across sexes: links between hierarchical position, sperm quality and horn development in common elands	Ros-Santaella José Luis	821,000	2014-2016
The dynamics of endoparasitic infections in farmed birds ring-necked pheasant (<i>Phasianus colchicus</i>) and red-legged partridge (<i>Alectoris rufa</i>) (Galliformes: Phasianidae)	Máca Ondřej	308,000	2014-2015
Genetic diversity in selected agroforestry tree species from Amazon	Kalousová Marie	746,000	2014-2016
Characterization <i>in vitro</i> and <i>in cellulo</i> testing probiotic bacteria	Kokoška Ladislav	*53,000	2013-2015
Non-invasive monitoring of reproductive cycle and pregnancy in exotic mammals by laboratory tests of urine, saliva and faeces	Fedorova Tamara	577,000	2014-2015
Role of Dietary Phenolics and Herbal Extracts in Oxidative Stress and Xanthine Dehydrogenase Activity in Epithelial Cellular Model	Kokoška Ladislav	*67,000	2014-2015
Ultimate and proximate factors affecting nursing and allonursing in giraffes (<i>Giraffa camelopardalis</i>)	Brandlová Karolína	638 000	2013-2015
<i>Vinca minor</i> as a key to learn the past of central Europe's landscape	Viehmannová Iva / Hlášná Čepková Petra	*323,000	2014-2016

EXTERNAL GRANTS

The employees and students of the FTA were also involved in external grants and projects funded by Czech and also foreign finance sources. The following table provides the overview of them.

The projects of the international development cooperation and other international projects also belong here and they are described on following pages.

PROJECT TITLE	DONOR	BUDGET	CURRENCY	MAIN INVESTIGATOR FROM THE FTA	DURATION
National Agency for Agricultural Research (NAZV)					
Research of dairy cow breeding system in relation to the optimalization of microclimate and energy-economic intensity	NAZV (Ministry of Agriculture CR)	1,863,000	CZK*	Josef Pecen ¹	2012-2016
Operational programme research and development for innovation 4: Challenge 3.4 - Infrastructure for university education related to research, European Regional Development Fund & Ministry of Education, Youth and Sports					
Interfaculty centre for advanced analysis of agricultural products	ERDF & MEYS	62,342,830	CZK	Ladislav Kokoška	2014-2015
European Commission, programme Horizon 2020					
PROIntensAfrica - Towards a long-term Africa-EU partnership to raise sustainable food and nutrition security in Africa	European commission	8,350	EUR*	Radim Kotrba	2015-2017

PROJECT TITLE	DONOR	BUDGET	CURRENCY	MAIN INVESTIGATOR FROM THE FTA	DURATION
Erasmus Mundus					
ALFABET, EM Action 2	EACEA	3,007,075	EUR	Petra Chaloupková	2014-2018
ASK Asia, EM Action 3	EACEA	321,220	EUR	Petra Chaloupková	2013-2015
EULALinks SENSE, EM Action 2	EACEA	400,000	EUR	Petra Chaloupková ²	2014-2018
EULALinks, EM Action 2	EACEA	400,000	EUR	Petra Chaloupková ²	2013-2017
Lifelong Learning Programme					
AgroFE - Agroforestry Education in Europe	Leonardo da Vinci LLP	36,433	EUR*	Bohdan Lojka ³	2014-2015



- ¹ The main investigator is the Research Institute of Agricultural Engineering, Prague
- ² The main investigator is Humboldt University of Berlin, Germany
- ³ The main investigator is Charles Burriell - AgroSup Dijon, France
- * only for the FTA

PROINTENSAFRICA - TOWARDS A LONG-TERM AFRICA-EU PARTNERSHIP TO RAISE SUSTAINABLE FOOD AND NUTRITION SECURITY IN AFRICA

PROIntensAfrica intends to develop a proposal for a long term research and innovation partnership between Europe and Africa, focusing on the improvement of food and nutrition security and the livelihoods of African farmers by exploring and exploiting the diversity of pathways to the sustainable intensification of African agro-food system. The exploration will include environmental, economic, and social externalities along the whole value chain. PROIntensAfrica has the ambition to formulate a research and innovation agenda, identifying the domains in need of further research to realize the potential of African food systems.

Project coordinator: Wageningen University, from the CULS Prague Radim Kotrba

Total budget: EUR 1,778,000 (CULS Prague EUR 8,350)

Duration of the project: 2015-2017

Donor: European Commission, programme Horizon 2020, call H2020-SFS-2014-1



AGROFE

The overall objective of the project is to develop a teaching system for agroforestry promotion in Europe. The project aims to build an innovative training system: conceptual, modular training, with use of ICT (Information and Communication Technologies – computers, tablets etc.) and with professional participation. The training should cover about 15 to 20 thousands of farmers and agricultural advisers. The implementation of initial training in individual countries and a certification system for all levels of education adapted to the education systems and needs in particular countries belong to the main planned outputs of the project.

Project coordinator: AGROSUP Dijon (France), from the CULS Prague Bohdan Lojka

Total budget: EUR 36,433 (CULS Prague EUR 9,109)

Duration of the project: 2013-2015

Donor: European Commission – Leonardo da Vinci programme

INTERNATIONAL DEVELOPMENT COOPERATION PROJECTS

In 2015, the FTA implemented 14 projects in eight developing countries. The projects had both, the international and research aspects and they provided practical and applied knowledge to students and teachers.

All developing projects of the faculty are presented at webpages: <http://projects.ftz.czu.cz/> and detailed description of projects which were implemented between 2013 and 2015 is available also in the booklet Research and Developing Projects World Wide.



CZECH TEACHERS SUPPORTING QUALITY IMPROVEMENT AT THE HAWASSA UNIVERSITY INSTITUTE OF TECHNOLOGY IN ETHIOPIA

Project coordinator: Kristina Rušarová

Total budget: CZK 3,160,000

Duration of the project: 2013-2015

Donor: Ministry of Foreign Affairs of the Czech Republic,
Czech Development Agency

CZECH TEACHERS SUPPORTING SCIENTIFIC AND THE DEVELOPMENT OF THE RESEARCH CAPACITIES OF TEACHERS AT THE HAWASSA UNIVERSITY INSTITUTE OF TECHNOLOGY

Project coordinator: Kristina Rušarová

Total budget: CZK 1,581,000

Duration of the project: 2014 - 2015

Donor: Ministry of Foreign Affairs of the Czech Republic,
Czech Development Agency

THE ENHANCEMENT OF QUALITY AND EXTENT OF EXTENSION SERVICES OF ANGACHA WOREDA, KEMBATA TEMBARO ZONE

Project coordinator: Kristina Rušarová

Total budget: CZK 10,250,000 + CZK 4,210 000

Duration of the project: 2011-2015

Donor: Ministry of Foreign Affairs of the Czech Republic,
Czech Development Agency



SUPPORT OF SMALL AND MEDIUM-SIZED ENTERPRISES IN FOOD PROCESSING AND CONSERVATION TECHNOLOGIES

Project coordinator: Vladimír Krepl

Total budget: CZK 700,000

Duration of the project: 2015

Donor: Ministry of Industry and Trade of the Czech Republic, Aid for Trade

IMPROVEMENT OF THE QUALITY OF EDUCATION AT AKAKI TSERETELI STATE UNIVERSITY

Project coordinator: Jana Mazancová

Total budget: CZK 1,536,000

Duration of the project: 2014-2015

Donor: Ministry of Foreign Affairs of the Czech Republic,
Czech Development Agency

SUPPORT OF EFFECTIVE COOPERATIVE MANAGEMENT IN THE IMERETI REGION, GEORGIA

Project coordinator: Jiří Hejkrlik

Total budget: CZK 5,000,000

Duration of the project: 2013-2015

Donor: Ministry of Foreign Affairs of the Czech Republic,
Czech Development Agency



ENPARD GEORGIA: ENHANCING SMALL FARMERS' COOPERATION AND PRODUCTIVITY IN THE IMERETI REGION

Project coordinator: People in Need CR, from the CULS
Prague Jiří Hejkrlik

Total budget: EUR 3,000,000

Duration of the project: 2014-2017

Donor: European Commission (European Neighbourhood
Programme for Agriculture and Rural Development)

IMPROVING THE QUALITY OF TEACHING AT THE FACULTY OF AGRICULTURE AND FOOD TECHNOLOGY AT THE UNIVERSITY OF MOSTAR AND THE AGROMEDITERRANEAN FACULTY OF THE UNIVERSITY DJEMAL BIJEDIĆ OF MOSTAR

Project coordinator: Tomáš Hes

Total budget: CZK 1,405,100

Duration of the project: 2014-2015

Donor: Ministry of Foreign Affairs of the Czech Republic,
Czech Development Agency



PROMOTION THE HARMONIZATION OF THE BOLOGNA HIGHER EDUCATION SYSTEM OF AGRICULTURAL UNIVERSITIES IN UKRAINE, UKRAINE

Project coordinator: Jana Mazancová

Total budget: CZK 952,800

Duration of the project: 2015-2016

Donor: MZV ČR, Czech Development Agency

ENHANCEMENT OF FRUIT AND VEGETABLE PRODUCTION WITH ADDED MARKET VALUE IN MOLDOVA

Project coordinator: People in Need CR, from the CULS
Prague Jana Mazancová

Total budget: CZK 1,280,000

Duration of the project: 2014-2016

Donor: Ministry of Foreign Affairs of the Czech Republic,
Czech Development Agency

ENHANCEMENT OF TECHNICAL EDUCATION IN CAMBODIA

Project coordinator: Kristina Rušarová

Total budget: CZK 6,950,000

Duration of the project: 2015-2017

Donor: Czech Embassy in Cambodia

SUPPORT OF RESEARCH CAPACITIES OF TEACHERS AND STUDENTS OF HUE UNIVERSITY OF AGRICULTURE AND FORESTRY IN VIETNAM

Project coordinator: Jan Banout

Total budget: CZK 2,106,000

Duration of the project: 2015-2016

Donor: Ministry of Foreign Affairs of the Czech Republic,
Czech Development Agency



SUPPORT FOR IMPROVING THE QUALITY OF SCIENTIFIC RESEARCH, TEACHING AND INTERNATIONAL ACTIVITIES AT UNIVERSITIES IN CAMBODIA, CAMBODIA

Project coordinator: Petra Chaloupková

Total budget: CZK 1,060,670

Duration of the project: 2015-2016

Donor: Ministry of Foreign Affairs of the Czech Republic,
Czech Development Agency

LONG-TERM PROJECTS

DERBIANUS CONSERVATION: THE WESTERN DERBY ELAND CONSERVATION PROGRAMME IN SENEGAL

FTA and CULS Prague together with NGO Derbianus Conservation are leading the Western Derby eland (*Taurotragus derbianus derbianus*) conservation programme. The Derby eland is one of the largest and most beautiful antelopes in the world. Its western subspecies (*T. d. derbianus*) is also one of the most endangered.



There are probably less than 200 animals in the wild only in the Niokolo Koba National Park in Senegal. Unfortunately, their number is still decreasing due to poaching and grazing competition. Few individuals were captured from Niokolo Koba in 2000 by the Direction of National Parks of Senegal and the

Society for the Protection of Environment and Fauna of Senegal (SPEFS) and transferred into a safety of fences into Bandia reserve.

Now, about 100 Western Derby elands live in the semi-captivity in Bandia and Fathala reserves in Senegal. In 2015, a memorandum of understanding was sign between the Ministry of Environment of the Czech Republic and his Senegalese counterpart, which led to a conservation program for Derby eland support from the governments of both countries. See more information at: www.derbianus.cz.

Project coordinator: Karolína Brandlová

Total budget: CZK 1,500,000

Duration of the project: since 2010

Donor: grants and private donors



SUPPORT FOR THE RESEARCH AT FACULTY: POSTDOCTORAL POSITIONS

The postdoctoral positions have been established at the FTA since 2013. In 2015, the following researchers were on these positions:

- Ing. Johana Rondevaldová, PhD - Czech Republic
- Ing. Václav Kožený, PhD., MBA - Czech Republic
- José Luis Ros-Santaella, PhD. - Spain

The postdoctoral students were concerned mainly with intensive scientific and research work following the publication activities. But they were also engaged in education of students in doctoral and master's degrees. The establishment of postdoctoral positions is definitely beneficial for the faculty; however, it is strongly influenced by the lack of money that can be allocated to these positions.



SCIENTIFIC CONFERENCES AT THE FTA

The Faculty of Tropical AgriSciences organised one international conference in 2015:

2ND INTERNATIONAL TROPICAL BIODIVERSITY CONSERVATION CONFERENCE

This international conference consisted from three parts: in the Czech Republic under the CULS Prague, in Indonesia (Universitas Negeri in Medan), and in Mexico (Universidad Autonoma Chapingo)

Date of the event: 03. – 04. 10. 2015

Participants: 350 students, scientists, and people with interest on biodiversity Conservation

Organisers: FTA and FAFRN CULS Prague

Webpages: <http://tbcc.ftz.czu.cz>



Tropical Biodiversity Conservation
Conference



INTERNATIONAL RELATIONS

IMPORTANCE OF INTERNATIONAL ACTIVITIES

International cooperation and implementation of the projects in foreign countries belong to the priorities of the FTA.

International activities of FTA included in 2015:

- international mobilities of students and teachers within the **Erasmus+** and **ALFABET** programmes ,
- coordination of the **Erasmus Mundus Action 2** projects (**ALFABET** and partnership in **EULALINKS** and **EULALinks SENSE**) and **Action 3** project (**ASK Asia**),
- **bilateral cooperation** with institutions mainly in developing countries,
- activities in the **AGRINATURA** international association,
- implementation of **developing projects**,
- submission of new international projects.

Moreover, the FTA organises seminars, lectures, summer schools, and research projects in cooperation with leading world institutions.



ERASMUS+ PROGRAMME

STUDENT MOBILITIES IN 2015	NUMBER OF PERSONS	NUMBER OF MONTHS
Number of outgoing FTA's students	24	89*
Number of outgoing students under FTA	24	90.5*
Number of incoming students	24	100*
Number of outgoing students within Educa Erasmus Training	4	14.5*
Number of incoming students on practical trainings	4	14.5*
STAFF MOBILITIES IN 2015	NUMBER OF PERSONS	NUMBER OF DAYS
Number of outgoing FTA's employees	21	191*
Number of incoming employees	7	40*

** Months and days in 2015 from academic years 2014/15 and 2015/16*

The Erasmus+ programme (formerly LLP Erasmus) belongs to the main activities of international department of the FTA.

In 2015, the faculty had bilateral agreements with the following institutions:

1. University of Wageningen, Netherlands
2. Universidad Politécnica de Valencia, Spain
3. Universidad Politécnica de Madrid, Spain
4. Universidad de Castilla-La Mancha, Spain
5. University of Kassel, Germany
6. University of Hohenheim, Germany
7. CNEARC Montpellier, France
8. Instituto Politécnico de Castelo Branco, Portugal
9. Szent István University, Hungary
10. Ghent University, Belgium
11. Catholic University of Leuven, Belgium
12. Université catholique de Louvain, Belgium
13. Università degli Studi di Firenze, Italy
14. Università degli Studi di Catania, Italy
15. Ondokuz Mayıs University, Turkey
16. Akdeniz University, Turkey
17. University of Copenhagen, Denmark
18. Agricultural University Plovdiv, Bulgaria

PROJECTS ERASMUS+

ERASMUS MUNDUS

In 2012, the FTA gained the role of partner in the Erasmus Mundus Action 2 project called **EULALinks** (**E**uropean **U**nion and **L**atin **A**merica **A**cademic **L**inks) which is coordinated by the Humboldt-Universität zu Berlin (Germany). The main objective is to deepen the existing cooperative relations between universities in Latin America and Europe, contributing to the creation of international attractive, competence-oriented and high-quality education & research activities, as well as promoting multidisciplinary, multilateral academic and scientific cooperation with a long-term perspective. The FTA has one PhD student from Colombia and five MSc students from this project. More information is available at: www.eulalinks.eu.



Moreover, the FTA gained the partnership in the follow-up Erasmus Mundus Action 2 project named **EULALinks SENSE**, again coordinated by Humboldt-Universität zu Berlin. This project is focused on the mobilities of students and teachers from Latin America to EU and also vice-versa. The FTA has one student in MSc studies and one in PhD studies. Furthermore, six other students joined the FTA for short-term stays (10 months) and one teacher of FTA passed six-month stay in Mexico. See detailed information at: <http://www.eulalinks.eu/eulalinks-sense-2-project/>.



ASK Asia

In 2015, the FTA continued in coordination of the EM Action 3 project (promotion projects) **ASK Asia** (Agriculture, Skills, Knowledge in Asia: competences and employability of Erasmus Mundus Graduates in Agriculture on the Asian Professional Market). The aims of the project were to assess how the Erasmus Mundus graduates in agriculture and related life sciences perform on the professional job market in Asia and to identify specific competences and skills that provide these graduates with a comparative advantage in meeting the expectations of their first destination employers following the

education/training period. The universities from Austria, Belgium, Cambodia, China, France, Indonesia, Mongolia, Thailand, and Vietnam are partners of the project together with the Agrinatura international organisation and Erasmus Mundus Students and Alumni Association. In February 2015, regional workshop took a place in Thailand. The final professional study summarizing the issue in all six Asian partner countries arose based on this workshop. The final workshop was held on the FTA in September 2015. The project was successfully finished in the end of the year and all data were collected for the final audit. See more information about the project at: <http://askasia.culs-prague.eu/>.



Since 2014, the FTA coordinates, together with Tadulako University (Indonesia), another Erasmus Mundus Action 2 project called **ALFABET** (Asia: Life, Food, Agriculture, Biology, Economics, Technology). The main objective of the project is to exchange capacities between Asian (Cambodia, China, Indonesia, Laos, Malaysia, Mongolia, Philippines, Thailand, Vietnam) and European (Austria, France, Germany, Netherlands, Poland, Portugal) universities oriented to life sciences, food, agriculture biology, environment, and technology to respond to the principle international challenges affecting the well-being of the coming generations. Further aims are to promote mobility of the students and academic staff between Asian and European universities, to create innovative opportunities for doctoral qualification in the above-mentioned fields, to enhance the skills and qualifications of higher education staff, and to implement ECTS system in Asia. In 2015, first 67 mobilities were carried out mainly by MSc and PhD



students. The Orientation Week came before, it was held at the FTA in Prague, and it was focused on lessons about European culture, studies at the university, scientific papers writing, etc. The second call for application took a place in December 2015, and 445 students and teachers applied for the mobilities. See more about the project at: <https://www.alfabet-em.cz/>.



ALFABET

Asia • Life • Food • Agriculture • Biology • Economics • Technology

CAPACITY BUILDING

A new project under the frame of **Erasmus+ Capacity building** “Enhancing capacities in implementation of institutional quality assurance systems and typology using Bologna process principles” (**IQAT**) was accepted in 2015. This project is focused on two Asian countries, Kazakhstan and Uzbekistan, with emphasis on improving internal quality control system in the higher education.

The project prepared in 2015 together with Universidad Veracruzana, called “Hydrological modelling and vulnerability with climate change: Study of the central basin of the Gulf of Mexico” unfortunately was not successful. The project was submitted to the call of IFAD for an IFAD-Universities Win-Win Partnership in June 2015.

In the end of the year 2015, the proposal of the project called **SIMPLE** (**S**upport of **I**nternational **P**latform **M**erging **L**abour and **E**ducation) was submitted to the EU call for proposals “Erasmus+ Capacity Building in Higher Education”.

INTERNATIONAL CREDIT MOBILITY

Within the Erasmus+ programme, the FTA submitted 13 projects of “International Credit Mobility”. Two of them (Bolivia, South Africa) were successful and they will last from 2015 to 2017.



AGRINATURA ASSOCIATION

The FTA is an active member of the international association called AGRINATURA (The European Alliance on Agricultural Knowledge for Development), the AGRINATURA secretariat has been hosted at the CULS Prague since 2004. AGRINATURA is a new alliance formed by 30 European universities and research organisations from 16 European countries working in agricultural research, education, training, and capacity strengthening for development. AGRINATURA members are involved in a broad range of issues related to agricultural research and education for development, contributing through their expertise and experience. AGRINATURA focuses on initiatives that open up new opportunities for farmers to enhance food security and improve the agro-food sector in general, whilst reducing the negative impact of agricultural activities on the environment. AGRINATURA was actively involved to the project ASK Asia and it is partner of the project ALFABET which is coordinated by FTA.

AGRINATURA supports eight students every year to cover their travel cost to the international conference called

Tropentag. In 2015, it provided 8 travel grants (EUR 500) and 3 prizes for the best poster award (EUR 500, 300, and 200). The conference was held at Humboldt-Universität zu Berlin from 16th to 18th September 2015. In 2016, the conference will be placed at BOKU in Vienna.

Together with FAO, AGRINATURA implements the project focused on the Capacity Development for Agricultural Innovation Systems (CDAIS) in 8 pilot countries in Africa, Asia and Latin America. National Information Platforms for Nutrition initiative (NIPN), in its new initiative, specialised on the fight against malnutrition in the developing countries of Asia and Africa.

AGRINATURA actively cooperates with other European institutions like YPARD (Young Professionals in Agricultural Research for Development), entered into the contract with **Interuniversity Consortium for Agricultural and Related Sciences in Europe** (ICA), which secretariat is also placed at CULS Prague. Since 2016, the secretariat of YPARD will be placed at the CULS Prague too and the position of the Secretary General will be filled by Lubuše Valešová from the FTA.



ORGANISATION OF SUMMER SCHOOLS AND SHORT-TERM COURSES

The organisation of summer schools and short-term intensive courses belongs to the one of the priorities of the FTA. Teachers and students actively organised these activities or they participated on several summer schools (e.g. in Korea, Indonesia, Vietnam).

In 2015, the FTA organised three summer schools for Czech and foreign students:

SUMMER SCHOOLS IN GEORGIA

This summer school, called “Cooperatives and Institutions for Rural Development” was held from 15th to 30th June 2015 at the Akaki Tsereteli (ATSU) state university in Kutaisi, Georgia. It was thematically focused on the actual problems of the support for the establishment of agricultural cooperative societies and small businesses. 21 students (15 from ATSU and 6 from FTA) and 9 teachers and employees (6 from ATSU, 3 from FTA) participated on the summer school. The project **ENPARD PIN** and **ADCA Georgia** cooperates with the summer school.



SUMMER SCHOOLS IN CAMBODIA

The third year of the summer school entitled “From net to spoon” was held from 24th August to 4th September 2015 at the Royal University of Agriculture (RUA) in Cambodia. It included joint activities of the Faculty of Fisheries, Faculty of Agro-industry, and the Faculty of Agricultural Economics and Rural Development. There were 8 students from the CULS Prague, 16 students of RUA, and 8 employees of RUA. Furthermore, one teacher and two students from the Chea Sim University of Kamchaymear participated on the summer school.

The programme included the lectures focused on:

- biodiversity of fish in Mekong river basin with emphasis on Cambodia locality,
- basic principles of aquaculture production typical for Southeast Asia,
- basic principles of food processing and its quality control with emphasis on the conservation by air drying, marketing in praxis focused on production of aquatic organism and trade with them.



SUMMER SCHOOLS IN THE CZECH REPUBLIC

The summer school at the CULS Prague took place between 8th and 17th June 2015 and it was named “Natural Resources Management in Wildlife and Plant Sciences”. It was specialised on the interactions between natural resources and animals with emphasis on the wildlife management in Central Asia. In total, 21 students from the Kazach National Agrarian University (Almaty, Kazakhstan) and 10 teachers and employees from the FTA participated on the summer school.



FACULTY DEVELOPMENT

INSTITUTIONAL DEVELOPMENT PLAN

Projects of the Institutional Development Plan (IRP) are annually financed by the Ministry of Education, Youth and Sports of the Czech Republic. The FTA gained 5 projects IRP in 2015:

SUPPORT OF EDUCATIONAL WORK OF ACADEMICS AND PROFILING AND INNOVATION OF STUDY PROGRAMMES FOR COURSES

Project coordinator: Lucie Ackermann Blažková

Budget: CZK 450,000

The project focused on filling a vacancy by one of the PhD studies graduates. Filling the vacancy was carried out by means of internal competition at the FTA. Three candidates applied to the position with their innovative projects. The committee recommended the project entitled “The improvement of seminars’ teaching in courses ongoing in the Laboratory of Ethnobotany and Ethnopharmacology” by Johana Rondevaldová.



SUPPORT FOR THE STUDENTS OF FTA WHO LEAVE TO FOREIGN COUNTRIES FOR DATA COLLECTION TO THEIR BSC, MSC AND PHD THESES OR TO SUMMER SCHOOLS

Project coordinator: Petra Chaloupková

Budget: CZK 120,000

This project supported 14 students by merit scholarship in amounts from CZK 5,000 to 19,000 for the data collection in different foreign countries (Brazil, Kenya, Peru, Ecuador, Vietnam, Georgia, Cambodia, Samoa).

SUPPORT FOR THE FOREIGN STUDENTS AT CULS PRAGUE (INCOMING STUDENTS, SUMMER SCHOOLS IN FOREIGN COUNTRIES)

Project coordinator: Petra Chaloupková

Budget: CZK 60,000

The project supported 7 foreign students: 2 from Peru, 2 from Zimbabwe, and one from Kenya, Nigeria, and Ghana.

SUPPORT OF THE ACTIVITIES WITHIN INTERNATIONAL ORGANISATIONS

Project coordinator: Petra Chaloupková

Budget: CZK 36,900

The project enabled the presence of the FTA at the meeting of the Board of Directors of Agrinatura in Sweden which resulted in submission of common project to the call of IFAD for an IFAD-Universities Win-Win Partnership and preparation of the project called "SIMPLE" for the call of Erasmus+: Capacity building, which was accepted in 2016. Moreover, the project supported the travel of one representative from the FTA to the international Tropical Biodiversity Conservation Conference, which was held in 2016 in Mexico, and establishment of cooperation with local universities.



MARKETING PRESENTATION OF THE FTA AT EXHIBITIONS AND OTHER EVENTS OUTSIDE THE UNIVERSITY IN THE CZECH REPUBLIC

Project coordinator: Jana Mazancová

Budget: CZK 100,000

Promotion of the FTA has started by the Open doors days, which took place on 22nd and 23rd January 2015. New leaflets and promo video was used there and 129 interested persons visited the FTA. The faculty also presented in the Institute for Language and Preparatory Studies in Poděbrady and Mariánské Lázně and at exhibition Gaudeamus in Prague. The FTA was presenting also at social networks with focus on graduation classes in high schools.



Finally, the promotion of the FTA and the whole university took place in all countries where the faculty is implementing the developing projects (Ethiopia, Moldova, Georgia, Cambodia, Ukraine) and thanks to the MSc and PhD students of the FTA also in Ghana and Nepal.

ACTIVITIES OF STUDENTS AND EMPLOYEES

The FTA continued with the promotion of fair trade and improvement of living conditions of farmers in developing countries thanks to the students and academics which are associated in the Be Fair at CULS Prague group. Special events, which took place to support fair trade, included panel discussions and thematic events (Coffee event, Fair Breakfast, or Meeting with the fair trade coffee growers). Accompanying activities during other events like Open doors days, scientific conferences and meetings, and International Fair Party supported the campaign.



The faculty also organised the cycle of traveller's lectures which took place on Wednesday afternoons. Students and teachers from the NGO Derbianus Conservation focusing on Western Derby eland conservation programme took a part at Open doors days and implemented the cycle of lectures at high schools. During November 2015, the first seminary about agroforestry in the Czech Republic was organised. The FTA also was promoted by its Botanical Garden during the Open Garden Squares Weekend and exhibition of chilli peppers.

IMPORTANT FINANCIAL ACTIONS IN 2015

In 2015, the FTA together with FAFRN CULS Prague succeed in the call of the Operational programme research and development for innovation 4: Challenge 3.4 - Infrastructure for university education related to research with the project “Interfaculty centre for advanced analysis of agricultural products” with total donation of CZK 63,675,400.

The project is focused on the development of the study programmes dealing with technical and natural sciences, specifically on agriculture technologies and production, processing and quality of agricultural products. The financial donation is oriented on the establishment, and equipment of laboratories and lecture rooms.





ECONOMICS OF THE FTA

STATE NON-INVESTMENT CONTRIBUTION AND GOVERNMENT SUBSIDIES MANAGEMENT OF THE FTA IN 2015

CONTRIBUTION MANAGEMENT FOR EDUCATIONAL ACTIVITIES IN CZK:	PROVIDED	DRAWN
Salaries	14,543,000	13,784,793
Mandatory insurance for employees 35.42% (25% social insurance, 9% health insurance, 0.42% accident insurance, 1% social fund)	5,151,131	4,772,238
Contribution for educational activities	805,048	557,318
International relations	150,000	140,461
TOTAL including the subsidy for common eland farming CZK 500,000	20,649,179	
After the correction of co-financing the project in Operational programme research and development for innovation	19,519,318	19,254,810
SPECIFIC ACADEMIC RESEARCH SUPPORT MANAGEMENT:	SUM OF FTA	SUM OF FTA
Organization of IGA	23,062	23,062
Organization of the students' scientific conference	70,000	70,000
Internal grants	880,000	880,000
CIGA	1,164,000	1,164,000
TOTAL	2,137,062	2,137,062
BUDGETED 2015 / DRAWN 2015	21,656,380	21,391,872

INSTITUTIONAL SUPPORT MANAGEMENT:	SUM OF FTA	SUM OF FTA
Investment funds	0	0
Salaries and bonuses	2,496,884	2,289,429
Mandatory insurance for employees	860,884	760,310
Scholarships	87,000	76,260
Other common expenses	391,232	710,001
TOTAL	3,836,000	3,836,000
BUDGETED 2015 / DRAWN 2015	25,492,380	25,227,872
Transfer into Operational Fund		264,508
OTHERS:		
University of the third age	29,000	29,000
Basic subsidies on foreign students	952,092	952,092
Basic subsidies on foreign students in English (category G)	659,521	659,521
Governmental scholarships (students of BSc, MSc, and PhD)	2,226,000	2,226,000
Governmental scholarships (category G)	973,000	973,000
Merit and extra governmental scholarship	280,000	280,000
Contribution for short-term stays	101,796	62,045
Scholarships for short-term stays	148,500	148,500
Scholarships for PhD students	3,712,500	3,712,500
Transfer into Operational Fund		39,751

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