Welcome to a land of wine and sunshine, a place where our ancestral heritage meets the everyday world.

The MENDELU Faculty of Horticulture is an institution with the longest tradition of horticultural research and education in the Czech Republic, specialising in a diverse range of fields.

We offer bachelor, master and doctoral studies in daily and combined form in the ECTS (European Credit Transfer System). We offer our students modern lecture halls, laboratories, assortment plantations, gardens, greenhouses and an extensive specialised library, all in the inspiring surroundings of the unique Lednice-Valtice landscape composition.
14 SCIENTIFIC, RESEARCH AND ARTISTIC ACTIVITIES

16 Horticulture
17 Quality of Plant Food Sources
18 Landscape Architecture
19 Viticulture and Enology

20 INTERNATIONAL COOPERATION IN EDUCATION AND RESEARCH

We have been developing cooperation with educational and research institutions abroad on the basis of international projects and programmes. Mainstream teaching and research activities are provided as part of the Erasmus+, Leonardo, Ceeps, Kontakt and LE:NOTRE programmes, the 7th Framework Programme and the Academic Information Agency of the Czech Republic. We also have experience with EU framework projects, the national projects NAZV, NAKI, TAČR, GAČR, SZIF and projects implemented by other providers.

22 PROFILE PUBLICATIONS

The results of scientific research and artistic activities include multiple outputs from impacted publications in reputable journals through scientific contributions to practice and monographs to utility models, patents, certified methodology or implemented copyrighted works and projects.
“What was paradise? But a garden, an orchard of trees and herbs, full of pleasure, and nothing there but delights.”

H. Seyle
Welcome to the MENDELU Faculty of Horticulture, based in Lednice. You are holding information about the institution with the longest tradition of horticultural research and education in the Czech Republic. Our faculty offers a exclusive opportunity to develop in the unique environment of the cultural agricultural landscape of Lednice-Valtice, a UNESCO World Heritage Site.

We have an extensive team of experts specialising in floriculture, fruit growing, nursery management, viticulture and enology, floristry, horticultural machinery, processing and post-harvest technology, refrigeration and storage. We could also not do without our authorised landscape architects, ecologists, landscapers and urban planners.

As part of our current study programmes we prepare specialists in production and ornamental horticulture, processing of horticultural products, quality of plant food sources, landscape architecture and viticulture and enology. The faculty’s specialised departments are based on teams of professors and their assistants, who work with more than 50 doctoral students on various research projects – from evaluating the impact of drought on plants through analysis of the nutritional quality of horticultural crops and products to the breeding of new varieties, developing new foods or use of mycorrhizal fungi to increase productivity in horticulture. Art and creativity draw on the study of the rich traditions of Liechtenstein garden art, while also focusing on projects to improve the environment for contemporary society.

Other important element for research and education purposes are our wide ranges of plant collections, containing thousands of species and cultivars from around the world. We have purpose-designed facilities, such as greenhouses of subtropical and tropical plants, wine cellar, orchards and vineyards. Our laboratories are equipped with modern analytical instruments, with equipment available for the cultivation of plants in vitro, molecular genetics and other facilities. The faculty’s Landscape Architecture departments specialise in the cultural development of the agricultural landscape, the protection and preservation of garden art monuments, the development of urban and rural environments, new forms of lawn planting, systematic greenery care and the efficient use of water in the landscape. For corporate research we provide expert advice, analytical services, compile studies or test and develop new products. For our partners in the research sphere, we offer experience with EU framework projects, the NAZV, NAKI, TAČR, GAČR and SZIF national projects and projects implemented by other providers. The results of scientific research and artistic activities include multiple outputs from impacted publications in reputable journals through the scientific contributions to practice and monographs to utility models, patents, certified methodology or implemented copyrighted works and projects.

The Faculty of Horticulture of Mendel University in Brno is the right place to turn to when seeking answers to questions in many branches of horticulture. We hope that the diversity of our portfolio is of interest to you. We look forward to working with you.

Robert Pokluda
Dean
SPECIALISED WORKPLACES

FRUIT GROWING
The Department of Fruit Growing has long been involved in the study of fruit species and the evaluation, introduction and breeding of varieties of apricots. Research activities focus on the resistance of the Prunus genus to the plum pox virus and the issue of ESFY phytoplasma. Telephone: +420 519 367 240, E-mail: uov@zf.mendelu.cz

VEGETABLE GROWING AND FLORICULTURE
The Department of Vegetable Growing and Floriculture specialises in growing vegetables, flowers, medicinal and culinary plants, tests their quality and the representation of selected content substances, and works to expand biodiversity and genetic ornamental plant and vegetable resources. Telephone: +420 519 367 230, E-mail: uzk@zf.mendelu.cz

POST-HARVEST TECHNOLOGY OF HORTICULTURAL PRODUCTS
The Department of Post-Harvest Technology of Horticultural Products researches methods and operations used for the quality control of the technological processes involved in the storage and processing of fruits and vegetables, with an emphasis on alcoholic and non-alcoholic beverages and their evaluation using instrumental and sensory methods. Telephone: +420 519 367 7260, uptzp@zf.mendelu.cz

LANDSCAPE ARCHITECTURE
The Department of Landscape Architecture specialises in developing landscape architecture methods and tools for the application of cultural, artistic and historical contexts in the development of urban and rural environments. Another specific form of research comprises authorised design work. Telephone: +420 519 367 290, E-mail: uzaka@zf.mendelu.cz

LANDSCAPE PLANNING
The Department of Landscape Planning is involved in research on a number of topics, from spatial planning, the reclamation and regeneration of degraded landscapes, management of the cultural landscape and research into landscape composition through to public participation in the planning process. Telephone: +420 519 367 250, E-mail: upk@zf.mendelu.cz
MACHINERY
The Department of Horticultural Machinery researches the technical aspects of the growing, harvesting, post-harvest treatment and processing of horticultural crops, including the composting of residual biomass. Telephone: +420 519 367 370, E-mail: uzt@zf.mendelu.cz

BREEDING AND PROPAGATION OF HORTICULTURAL PLANTS
The Department of Breeding and Propagation of Horticultural Plants specialises in nursery technology, including tree propagation, the study of stress factors, the issue of extensive fruit-growing, less common fruit species and the genetic resources of these species. Telephone: +420 519 367 320, E-mail: usmzr@zf.mendelu.cz

MENDELEUM
The Mendeleum science and research centre specialises in research in the field of plant biotechnology, which uses the principles of molecular genetics in breeding and monitoring the health of horticultural cultures or tissue cultures for the in vitro elimination of viral diseases. Telephone: +420519367310, mend@zf.mendelu.cz

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VITICULTURE AND ENOLOGY
The Department of Viticulture and Enology specialises in breeding new varieties of grapevine, monitoring the content substances in musts and their possible influences, and minimising allergens in wine technology. Telephone: +420 519 367 250, uvav@zf.mendelu.cz

PLANTING DESIGN
The Department of Planting Design and Maintenance researches the creation, maintenance, management, evaluation and protection of greenery sites in residential areas and in the countryside. Also important is applied research relating to the restoration of garden and landscape architecture monuments and the implementation of new industry technologies. Tel: +420 519 367 270, E-mail: ubz@zf.mendelu.cz
“The roots of education are bitter, but the fruit is sweet.”

Aristotle of Stageira
STUDY PROGRAMMES

The Faculty of Horticulture offers structured Bachelor, Master and Doctoral study programmes in both attendance as well as combined form in the European Credit Transfer System (ECTS). During their courses students have access to specially-equipped facilities (greenhouses for tropical and subtropical plants, laboratories, storage management, etc.), extensive ranges of ornamental and crop plants and unique gene pools of collections of selected fruit crops, grapevines, perennial vegetables and medicinal plants – all situated on the Faculty’s premises.

<table>
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<tr>
<th>Study programmes/fields</th>
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Notes on content:
Language: CZ – Czech, EN – English
Degree: BD – Bachelor’s, MD – Master’s, PHD – postgraduate
Length of course: 2, 3 or 4 years
Form of study: FT – full-time, PT – part-time

SUBJECTS TAUGHT IN ENGLISH

most of the vintners and winemakers in the Czech Republic and Slovakia are graduates from the MENDELU Faculty of Horticulture.

**HORTICULTURAL ENGINEERING STUDY PROGRAMME**

The Horticultural Engineering study programme includes the Bachelor’s fields Horticulture and Viticulture and Enology, and the Master’s fields Horticulture and Management of Horticulture Technology. Graduates of Bachelor programmes are familiar with the fundamentals of the general scientific disciplines, which are then linked to profile subjects selected according to students’ individual areas of specialisation. After graduating, they can find work in lower management in agricultural enterprises, government administration and commercial organisations, or may go on to study a Master’s degree, thus furthering their knowledge and skills in profiled subjects focusing on horticultural production activities and their economic aspects. Graduates can find work as specialist engineers in various types of agricultural enterprises focusing on horticultural production, as well as in commercial and marketing organisations and distribution. They can also work in education, research and public administration in the Czech Republic and abroad, and are also professionally prepared to establish and manage their own business.

**HORTICULTURE STUDY PROGRAMME**

The structure of subjects in the Quality of Plant-based Food Sources bachelor programme, the only course in the Horticulture degree program, responds to the need of society as a whole to ensure the high quality and safety of food products and the corresponding prosperity in terms of sustainable development. It is based on the current practical need to prepare specialists in horticultural production and post-harvest technology with an extended knowledge of methods used to evaluate and manage the quality of horticultural products.

Graduates acquire the relevant skills using the modern technology and instruments available in the student workplaces and laboratories and through constant contact with practice and external lecturers.

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**Student certification:**
- Internal auditor certificate of quality management system pursuant to ISO 9001:2008 standard,
- Certification for food safety systems (HACCP, BRC Food, IFS),
- Certification of selected assessor for sensory analysis pursuant to ISO 8586-1 standard.
LANDSCAPE ARCHITECTURE STUDY PROGRAMME

This study programme comprises a Bachelor's degree in two fields – Garden and Landscape Architecture and Garden and Landscape Implementation, and a Master's in Garden and Landscape Architecture and Management of Garden and Landscape Design.

Graduates from the courses in this study programme can use their knowledge and practical skills in a wide range of professional activities. They can work as independent designers or as members of multidisciplinary teams. They can find work in state administration and local government bodies, in conservation and landscape protection authorities, and in the implementation and maintenance of vegetation features. In all these activities, during the course of their work they have the chance to significantly affect the quality of the environment or the environment in which we spend our lives, in both the urbanised and the natural landscape. They can also work as specialists in education or research.

FRUIT SCIENCE STUDY PROGRAMME

As part of the process of innovating courses and expanding Fruit Growing classes, in 2011 a new international study programme was launched, specifically a Master’s programme in Fruit Science available in the form of a joint degree. It focuses on fruit growing as part of horticultural production. The study programme is the result of cooperation between three universities: the University of Bolzano (Italy), Mendel University in Brno (Czech Republic) and the University of Ljubljana (Slovenia). Students have a unique opportunity to gradually study at all these partner universities.

Graduates can find work in management and executive positions of fruit-growing companies, in fruit quality management and certification, in the business and advisory sector, in fruit processing and research into fruit tree cultivation, not only in the Czech Republic, but also elsewhere in Europe.

we are the only faculty in the Czech Republic providing full university education in Landscape Architecture

we coordinate the international CEEPUS Landscape Management network, which comprises 10 universities in Central and Eastern Europe and supports student and teacher internships abroad

students acquire professional contacts and potential work opportunities abroad in three countries

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“The secret lies in the fact that a thing needs to be understood and appreciated.”

H. Seyle
Research carried out at Mendeleum – Department of Genetics focuses on vine and stone fruit, garlic and vegetables from the *Brassicaceae* family, as well as on other plant species important for horticultural research. A crucial facility for this research is the laboratory of molecular genetics, which uses various techniques to analyse DNA and RNA. Based on matches in the DNA structure with the standard, it is, for example, possible to identify varieties and clones, detect the presence of plant pathogens, determine the proportion of genetically modified material in foods, etc. The *in vitro* laboratory specialises in the cultivation of plants and plant parts in artificial conditions. Last but not least, it is also important to mention the laboratory of applied virology, which tests plants for viruses using the ELISA method. Technical isolate is used to acquire and produce certified virus-free grapevine and thermophilic stone fruit propagation material for spatial isolates all over the Czech Republic and to maintain healthy mother plants.

From the viewpoint of applied research the Department of Post-Harvest Technology of Horticultural Products particularly focuses on changes in the substance constituents of fruits and vegetables during cold storage in various ambient atmospheres, and the study of volatile aromatic compounds in products made from fruit and vegetables. Current research priorities include the studies of the properties of condensed anthocyanins, methods to increase polyphenol-based biologically active components in horticultural products and the optimisation of conditions for the storage of Asian pear varieties. The Department has modern technology and instrumental equipment, such as a cooler, liquid (HPLC-DAD) and a (GC-MS) chromatograph, FT-NIR spectrometer, UV-VIS spectrophotometer, freeze dryer, colorimeter, hot-air dryer, etc.

The laboratories of the Department of Fruit Growing are divided up into two workplaces – the pathogen diagnostics laboratory and pomological laboratory. The main focus of research is the study of stone fruit resistance to the plum pox virus (PPV) and study of the effects of ESFY phytoplasma on thermophilic stone fruit. The pathogen diagnostics laboratory has a permit to work with organisms that are harmful to fruit trees. The methods used include PCR and the serological DAS ELISA method. The pomological laboratory performs measurements of the quantitative traits of fruits, refractometer measurements of soluble solids in fruit, determines total acidity content and the penetrometric strength of peel or pulp. The workplace is also certified to work with GMO in stone fruit.

The Department of Viticulture and Enology uses three laboratories. The first is a research laboratory, which particularly conducts basic analyses of grapes, musts and wines, or other analyses for external entities. The laboratory is also able to perform even the most demanding instrumental methods, particularly in the field of chromatography, spectrometry and FTIR. The second is an enological laboratory, which primarily performs volumetric and sensory analyses focused on wine. The facilities of the microbiological laboratory fully meet the needs of basic microbiological research. Another important part of the Department is its technological facilities, with a complete production line and storage capacity.

For its research work the Department of Vegetable Growing and Floriculture uses a physiological laboratory (LCpro+ photosynthesis analyser, fluorometers, digital planimeters, fluorescence microscope), as well as an analytical laboratory (HPLC chromatograph, EcaFlow electrochemical heavy metals analyser, Ionosep, spectrophotometers) and controlled test facilities in a hydroponic greenhouse.
A thousand apples fell to the ground, yet only Newton managed to make something of it. “

V. Nezval
Scientific, research and artistic activities at the MENDELU Faculty of Horticulture based in Lednice are focused on topical themes. The complementarity of research is assured by the joint involvement of research team members from various professional workplaces.

An important area of research is the breeding and selection of domestic and ornamental plant material and testing its resistance to stress. Another current theme is the study of environmentally-friendly sustainable cultivation technologies. Research facilities include extensive breeding areas with a great many different varieties and fully equipped horticultural facilities.

The specialized departments of the Faculty not only develop new products, but also processing and storage technology. Research utilizes modern methods used to process, store and detect the content composition of fruit and resulting products.

Regarding technological disciplines, emphasis is placed on the area of storage of fresh fruits and vegetables, and conservation methods used in the processing and production of alcoholic and non-alcoholic beverages. Considerable attention is devoted to physical, chemical and sensory procedures used to assess the quality parameters of foodstuffs, particularly those of plant origin, and complex systems used to control their quality and safety.

The MENDELU Faculty of Horticulture based in Lednice is also a workplace involved in research projects in the field of the quality and culture of the human environment. The different aspects of this complex set of topics are addressed by specialised institutes focusing on garden and landscape architecture. Research then focuses on the areas in which they specialise – completion or co-completion of urban areas, biotechnical measures, greenery administration and management or landscape completion and protection in relation to industry, housing, recreation and transport.

Due to the location of the Faculty, science and research in the field of viticulture and winemaking have a very long and strong tradition. Situated right in the heart of the most important wine-growing region of the Czech Republic, the Faculty has the best facilities and conditions possible. It has access to production vineyards, well-represented grapevine gene pools and breeding areas. Naturally, the Faculty also has specialised laboratories and wine cellar. Research is always based on practical needs, as well as the all-important practical verification process.
HORTICULTURE

Research covers the technologies used to grow fruit and grapevine, vegetables, medicinal plants and ornamental species. It comprehensively covers the evaluation of taxa, varieties and hybrids, the maintenance and use of gene pool collections of fruit, vines and special plants, as well as agro-technical requirements, the quality of horticultural products and production systems, and the finalisation of products intended for the market, including evaluation of the economic aspects of measures proposed for manufacturing and business practices. One specific area of research at the MENDELU Faculty of Horticulture is the apricot breeding program.

The knowledge gained is actively shared in both directions, from the university into practice and from practice into the teaching process.

The practical basis for horticultural research is provided by our own plantations of varieties and clones of fruit species on land owned by the MENDELU Faculty of Horticulture. Owing to the focus of research, most of these experimental areas are taken up by plantations of apricot and peach trees, vines, as well as a range of flowers, vegetables and ornamental and special plants.

Another topic of research is processing technology for new functional foods and the innovation of processing technologies for horticultural products intended to improve production sustainability.

An important area of research is the application of genetics and molecular methods in breeding and cultivating horticultural plant species. There is research potential in the study of epigenetic changes in plant genomes as the result of exposure to stress conditions, the study of gene expression and the identification and quantification of target sequences (GMO, viruses, or other plant diseases).
QUALITY OF PLANT FOOD SOURCES

The quality and safety of food sources is one of the European Union’s basic priorities. The change in European values and the move towards a healthy lifestyle have led to more stringent demands as regards the monitoring and assessment of food quality.

Food quality management is a highly specialised discipline, which requires a thorough knowledge of the quality parameters of various different foods and extensive skills in instrumental analyses and tests on next-generation devices.

Research focuses on changes in the substance constituents of fruits and vegetables during cold storage in various ambient atmospheres and the study of volatile aromatic compounds in products made from fruit and vegetables. Applied research is focused on exploring methods and operations aimed at controlling the quality of the technological processes of storing and processing fruits and vegetables, with emphasis on alcoholic and non-alcoholic beverages. Current research priorities include study of the properties of condensed anthocyanins, methods of improving biologically active polyphenol-based components in horticultural products and optimising storage conditions for Asian varieties of pears and cherries.

equipment: refrigerator equipped with 8 boxes with adjustable temperature and atmosphere, as well as a liquid (HPLC-DAD) and gas (GC-MS) chromatograph, FTNIR spectrometer, UV spectrophotometer, freeze dryer, etc.
LANDSCAPE ARCHITECTURE

Important tasks include the completion or co-completion of urban areas, biotechnical measures, greenery administration and management or landscape completion and protection in relation to industry, housing, recreation and transport. Research is focused primarily on developing landscape architecture methods and tools for the application of cultural, artistic and historical contexts in the development of the urban and rural environment.

One specific form of research in the field of Landscape Architecture is creative design work. Many teachers are qualified and active in design and implementation work, and therefore may influence students not only in theoretical terms, but also through findings gained during their professional practice. The guarantors of the individual subjects are also researchers involved in research projects or contracted research projects. As part of contracts between the faculty and external entities, students are also involved in the planning, design and projecting process on the Landscape Architecture course, thus intertwining the results of research and teaching.

Disciplinary research activities are focused primarily on applied research. Participation in research projects is currently developing particularly Landscape Architecture biological disciplines which also cover care for garden art monuments and management of residential green spaces. The current research framework thus comprises not only research into plants used in different historical periods and types of modifications, but also the latest trends in how plants are used. Great emphasis is placed on new practices in the design, establishment and subsequent care of the various aspects of vegetation, i.e., flower beds, trees, lawns, etc. Constant attention is paid to the assessment of woody vegetation elements for the purposes of practical training. Emphasis is placed on herbal and woody vegetation elements, especially on the evaluation the dendrological potential of landscape architecture, as well as the creation and usage of new annual or grass and herb mixtures. The Faculty also specialises in the cultivation, establishment and maintenance of vegetation elements in the urban environment and the management and evaluation of residential green spaces.
It also engages in scientific-research activities from urban planning, the recultivation and regeneration of landscapes disturbed by mining, management of the cultural landscape and research into the composed landscape, to the issue of public involvement in the planning process.

VITICULTURE AND ENOLOGY

For research purposes the faculty uses its own vineyards situated within the Mendeleum grounds in Lednice. The experimental vineyard contains a large collection of vine gene sources. This collection consists of varieties with enhanced resistance to fungal diseases, for which both the growing and enological properties are assessed. The diversity of varieties is used in the breeding programme for both table grapes and wine grape varieties.

- 4 ha of vineyards
- 350 gene sources
- Plant breeding area with 2,000 hybrids

A significant portion of the research is based on analyses of the composition of wine. Wines are analysed with respect to their content of beneficial phenolic compounds, as well as profiles of sugars, acids and aromatic substances. These analyses are used to assess the authenticity of wines based on their geographical origin. We have been researching the quality parameters of grapes for a long time now. Particularly important for this are nitrogenous substances, which considerably affect the quality of grapes. Research of nitrogenous substances is complex and focuses on grapes to vegetation nutrition and the effect it has on must fermentation.

- Analyses of wine composition
- Quality parameters of grapes

It is also important to protect the grapevine against diseases and pests. There is currently pressure to reduce the use of pesticides and thus make production more environmentally friendly. Research therefore focuses on ways of reducing the pesticide use.

National Action Plan to reduce the use of pesticides in the Czech Republic
INTERNATIONAL COOPERATION IN EDUCATION AND RESEARCH

“Continuous development – the only way to stay contemporary until the very end.”
J. Mukařovský
The MENDELU Faculty of Horticulture develops cooperation and contacts with educational and research institutions abroad on the basis of international education programmes, particularly as part of Erasmus+, Leonardo and Ceepus. Courses completed by students at another university are recognised under Learning Agreements in accordance with the ECTS system. At their graduation ceremony, graduates receive a Diploma Supplement in Czech and English, which contains detailed information about their course, the completion of individual subjects, the thesis defence and the results of the final examination.

In addition, the Kontakt and LE:NOTRE programmes and the Academic Information Agency of the Czech Republic assure the mobility of academic staff and students. The Faculty is involved in the implementation of the 7th EU Framework Programme.

Two study programmes are accredited in the English language; these are the two-year Fruit Science master’s programme (Joint degree) in collaboration with the universities in Ljubljana and Bolzano, and the Horticultural Engineering doctoral programme. We are preparing an international (Joint degree) study programme International Master in Horticulture Science in collaboration with the universities in Krakow and Nitra.

Every year the Faculty of Horticulture hosts teachers from abroad, who come to give lecture sessions for students.

### The Faculty has cooperation contracts as part of the Erasmus+ programme with the following institutions:

- **Finland**: Oulu University of Applied Sciences, University of Helsinki
- **France**: Agrocampus Quest, Fesia Angers, Montpellier Supagro
- **Croatia**: Križevci College of Agriculture
- **Italy**: Universita degli studi della Basilicata, Universita degli studi di Firenze, Universita degli studi di Milano, University of Catania
- **Hungary**: Corvinus University of Budapest
- **Germany**: Fachhochschule Wiesbaden, Gottfried Wilhelm Leibniz Universitat Hannover, Anhalt University of Applied Sciences - Hochschule Anhalt, Technische universitat Munchen, Technische universitat Dresden
- **Netherlands**: HAS Den Bosch - University of Applied Sciences, Van Hall Larenstein - University of Applied Sciences Wageningen University
- **Poland**: University of Agriculture in Krakow, Jagiellonian University in Krakow, Katolicki Universytet Lubelski Jana Pawla 2, University of Life Sciences in Lublin, Warsaw University of Life Sciences, Wroclaw University of Environmental and Life Sciences, Poznan University of Life Sciences
- **Austria**: IMC Fachhochschule Krems, University Bodenkultur Wien
- **Slovakia**: Slovak Technical University in Bratislava, Slovak University of Agriculture in Nitra
- **Slovenia**: University of Maribor, University of Ljubljana
- **Serbia**: University of Novi Sad
- **Spain**: University Lleida, Universidad Politecnica de Valencia
- **Sweden**: Swedish University of Agricultural Sciences Uppsala
- **Thailand**: Kasetsart University, Bangkok, Mae Fah Luang University, Chiangrai
- **Turkey**: Adnan Menderes University, Ataturk University, Eskisehir Osmangazi University, Selcuk University, Uludag University, Inonu University, Ege University, Recep Tayyy Erdogan University, Yuzuncuu Yil University

### Most important projects the school is actively involved in:

- Taxonomic, evolutionary and phytochemical questions concerning the complex *Lonicera kamtchatica/coerulea* as a genetic source of new fruit and the need for its in situ conservation (KONTAKT, 2011-2013).
- Mehr Bildung für Europa (LEONARDO project, 2011-2013)
- Czech-Chinese scientific and research cooperation in cultivation and introduction of the *Prunus* variety (KONTAKT, 2010-2013).

BARÁNEK, KŘIŽAN, ONDRUŠIKOVÁ, PIDRA.: DNA-methylation changes in grapevine somaclones following in vitro culture and thermotherapy. Plant Cell, Tissue and Organ Culture. 2010

ČECHOVÁ, BARÁNEK, KRŠKA, PIDRA,: Screening of differentially expressed genes during the end of endogenous dormancy of flower buds in Prunus armeniaca L. Plant Growth Regulation. 2012


KRŠKA, PRAMUKOVÁ, VACHŮN: Inheritance of some pomological traits in Minaret × Betinka apricot progeny. Horticultural Science. 2009


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Apple tree variety: Moravia