



seit 1558

Friedrich-Schiller University Jena



Agricultural University of Tirana

First International Conference
“Biotechnology in Agriculture”
Agricultural University of Tirana
ALBANIA

Program

(22–23 April 2014)

April 22 (Tuesday)

8⁰⁰-9⁰⁰ Registration

9⁰⁰-9³⁰ Opening of the Conference and Welcome Speeches (Pedrollo Hall)
Fatos Harizaj, Anila Hoda, Ralf Oelmüller, Klaus-J. Appenroth

Plenary Session: 9³⁰-11⁰⁰ (Pedrollo Hall)
Chairmen: Kai Wun Yeh and Bizena Bijo

9³⁰-10⁰⁰ **RALF OELMÜLLER**
Beneficial and pathogenic fungi in the rhizosphere: How do roots distinguish?

10⁰⁰-10³⁰ **ANNA MOTTOLA**
DNA barcoding for species identification in prepared fishery products

10³⁰-11⁰⁰ **ANILA HODA**
Genetic diversity of Albanian goat breeds estimated by molecular markers

11⁰⁰ – 11³⁰ COFFEE BREAK

Plenary Session: 11³⁰-13⁰⁰ (Pedrollo Hall)
Chairmen: Canio Buonavoglia and Alush Musaj

11³⁰-12⁰⁰ **JUTTA LUDWIG-MÜLLER**
Controlling the clubroot disease of Brassica crops by increasing plant defense responses using the endophytic fungus *Acremonium alternatum*

12⁰⁰-12³⁰ **RALF-BERND KLÖSGEN**
Specificity and mechanism of protein transport in plant cells

12³⁰-13⁰⁰ **VALENTINA TERIO**
Occurrence of Norovirus and HAV in shellfish

13⁰⁰ – 14⁰⁰ LUNCH

Plenary Session: 14⁰⁰-15³⁰ (Pedrollo Hall)
Chairmen: Ralf-Bernd Klösger and Bajram Berisha

14⁰⁰-14³⁰ **HELMUT KÖNIG**
Molecular biological detection method for yeasts, lactic acid bacteria and acetic acid bacteria in grape, must and wine

14³⁰-15⁰⁰ **KAI-WUN YEH**
Coloration in floral tissues of *Oncidium* cultivar

15⁰⁰-15³⁰ **HERMANN BOTHE**
Heavy metal tolerance of plants

15³⁰ – 16⁰⁰ COFFEE BREAK

Parallel sessions:

Time	Session	Chairman	Hall
16 ⁰⁰ -17 ⁵⁰	Plant	Axel Mithöfer, Ferdi Brahusi	Pedrolo
16 ⁰⁰ -17 ³⁰	Animal	Valentina Terio, Dhimitër Rapti	Skënder Xhiku
16 ⁰⁰ -17 ⁵⁰	Food	Rezart Postoli, Rozeta Hasalliu	Lecture hall

Plants: 16⁰⁰-17⁵⁰, Pedrollo Hall
Chairmen: Axel Mithöfer and Ferdi Brahusi

16⁰⁰-16¹⁰ **VJOLLCA VLADI**
Determination of the residues of imidacloprid on the tomato by High-Performance Liquid Chromatography

16¹⁰-16²⁰ **HASAN CANI**
Eco-Physiologic studies an important tool for the adaptation of forestry to global changes

16²⁰-16³⁰ **NAZMI AJAZI**
Biotechnology of nut trees development in Drin's valley, Albania

16³⁰-16⁴⁰ **LULËZIM SHUKA**
Oxytropis tomorensis (Fabaceae) a new species from Tomori Mt, Albania

16⁴⁰-16⁵⁰ **AGIM CANKO**
Heritability and genotypic correlations of same dry bean quantitative traits

- 16⁵⁰-17⁰⁰ **BARDHOSH FERRAJ**
Rooting test of green cuttings for kiwis in atomizing irrigation greenhouses and with different percentage of phytohormones Iba
- 17⁰⁰-17¹⁰ **LUSH SUSAJ**
Comparative study for the main leaf characters of three wild grapevine populations (*Vitis vinifera. ssp sylvestris* (Gmelin Hegi) grown in three river valleys in the Northern Albania
- 17¹⁰-17²⁰ **LAURA GJYLI**
Distribution of picophytoplankton along coastal water of Adriatic Sea
- 17²⁰-17⁵⁰ Questions and discussions

Animals: 16⁰⁰-17³⁰, Skënder Xhiku Hall
Chairmen: Valentina Terio and Dhimitër Rapti

- 16⁰⁰-16¹⁰ **FESTIM SHYTAJ**
The effect of combined preparation, probiotic and phytase on performance parameters and vitality of weaned piglets
- 16¹⁰-16²⁰ **HYSEN BYTYQI**
A Study of the Somatic Cell Count of Kosovo Bulk Milk Farm Management and Perspective
- 16²⁰-16³⁰ **XHELIL KOLECI**
Preliminary results of sero-conversion of kids and lambs vaccinated with *Brucella melitensis* Rev -1 strain.
- 16³⁰-16⁴⁰ **EGLANTINA XHEMOLLARI**
Serum enzyme and hepatic changes in sheep infested with *Fasciola hepatica*
- 16⁴⁰-16⁵⁰ **SMAJL RIZANI**
Influence of Kosova a and b powerstation on water quality of Sitnica river-Kosovo
- 16⁵⁰-17⁰⁰ **MIMOZA KUÇI**
Hyperlipidemia - a risk factor in cardiovascular diseases in Elbasan district
- 17⁰⁰-17³⁰ Questions and discussions

Food: 16⁰⁰-17⁵⁰, Lecture Hall
Chairmen: Rezart Postoli and Rozeta Hasalliu

- 16⁰⁰-16¹⁰ **VINELA REFUGJATI**
Evaluation scheme for *Blatta orientalis* and *Blattella germanica* in food units with HACCP implementation

- 16¹⁰-16²⁰ **ROVENA JAHELEZI**
Risk assessment of poultry slougherhouses in Albania
- 16²⁰-16³⁰ **RENIS MAÇI**
Control risk of the presence of *C. sakazakii* in hospital kitchen`s environment
- 16³⁰-16⁴⁰ **MUSA DIBRANI**
Mycotoxins in foods from livestock origin and consumption risks
- 16⁴⁰-16⁵⁰ **VALMIRE VOCA**
Control of milk on presence of aflatoxin residues, and the effects on public health
- 16⁵⁰-17⁰⁰ **BAHTIR HYSENI**
Research on heavy metals concentration in raw milk in the Mitrovica region
- 17⁰⁰-17¹⁰ **ERMELINDA NEXHIPI**
Quality of RTE-meat products in Tirana
- 17¹⁰-17²⁰ **KASTRIOT BELEGU**
Albanian consumer`s perception towards animal welfare
- 17²⁰-17⁵⁰ Questions and discussions

April 23 (Wednesday)

Plenary Session: 9⁰⁰-11⁰⁰, Pedrollo Hall
Chairmen: Ralf Oelmüller and Mirela Çekani

- 9⁰⁰-9³⁰ **AXEL MITHÖFER**
Scents of Survival: Volatiles and Plant Defense
- 9³⁰-10⁰⁰ **B. BERISHA**
Angiogenesis – the most important regulatory event for bovine ovary function
- 10⁰⁰-10³⁰ **FRANK LUDEWIG**
The impact of source and sink capacities on tuber starch yield of potato
- 10³⁰-11⁰⁰ **MARILISA BOTTARO**
Detection of mislabeling in packaged chicken sausages by PCR

Plenary Session: 11³⁰-13⁰⁰, Pedrollo Hall
Chairmen: Mariglia Giuseppina Tantillo and Ardian Maçi

11³⁰-12⁰⁰ **KLAUS-J. APPENROTH**
Increase of starch accumulation in duckweed (Lemnaceae) under abiotic stress

12⁰⁰-12³⁰ **JEANNETE PFALZ**
ZmpTAC12 is a Multifunctional ssDNA/RNA Binding Protein Essential for PEP-Complex Accumulation in Maize Plastids

12³⁰-13⁰⁰ **HALINA GABRYS**
Light signaling in plants

13⁰⁰ – 14⁰⁰ LUNCH

Plenary Session: 14⁰⁰-15⁰⁰, Pedrollo Hall
Chairmen: Jutta-Ludwig Müller and Renata Kongoli

14⁰⁰-14³⁰ **VERONIKA MAYER**
Agriculture in the treetop: fungus cultivation by *Azteca* ants living in *Cecropia* trees

14³⁰-15⁰⁰ **STEFAN BENNEWITZ**
The Shape of Trichomes, a Quantitative Trait Loci Mapping Approach

15⁰⁰ – 15³⁰ COFFEE BREAK

15³⁰-17³⁰ Poster Session

15³⁰-17³⁰ Field Visit
(Experimental Economy of AUT-Valias; Center of *Cyprinus carpio* cultivation-Tapiza)

17³⁰-18⁰⁰ Conclusions
Chairmen: Helmut König and Anila Hoda

Poster List

Growth of *Arabidopsis* seedlings on high fungal doses of *Piriformospora indica* has little effect on plant performance, stress, and defense gene expression in spite of elevated jasmonic acid and jasmonic acid-isoleucine levels in the roots

IRENA SHERAMETI

The role of auxin in the *Colletotrichum graminicola* – *Zea mays* pathosystem

BATIONA SHAHOLLARI

Kinetic study of chamomile essential oils by liquid carbon dioxide

ADELAIDA ANDONI

Iron concentration in blood samples of females, Albania

MARJENA BIXHI

Assessment of air pollution of Durres city by using vascular plants as bioindicators

RUDINA TRIKSHIQI

Study about the incidence of preeclampsia in pregnant women

LULZIME KOKIÇI

Determination of oxytetracycline, tetracycline and chlortetracycline in beef meat by HPLC-DAD detector in Albania

ALMA EMIRI

Analyzing the efficiency of agricultural crop production by using mathematical models

MARIANA NIKOLLA

The biological invasion in Albania

JULIAN SHEHU

The qualitative differences for photosynthetic content of the common bean (*Phaseolus vulgaris* L.) populations growth in Kosova

SALI ALIU

Evaluation of the correlation between pH and MPV platelet concentrates prepared in Tirana Blood Transfusion Center

MERITA XHETANI

Foodborne intoxication at emergency room

PETRIT BIBERAJ

The preliminary study about the antibiotics pollution in aquaculture environment and potential ecological and human health issues

FEJZOSELAMI

Impact of human-induced threats on the activity of the otter (*Lutra lutra*) along the Drinos valley, Southern Albania

ETLEVA HYSAJ

Trace element accumulation in the moss *Pseudoscleropodium purum* in South Albania

MAJLINDA TERPO

Heavy metal pollution in the Elbasani area, with pasive and active moss biomonitoring methods

BEKTESHI LIRIM

The mineral composition in grassland growing in Kosova

IMER RUSINOVCI

Concentration levels of heavy metals in muscle tissue of european hake (*Merluccius merluccius*)

ENKELEDA OZUNI

Immunological reactions caused by helminthes and diagnosis of parasites using different methods

LEDIA VASJARI

Terrestrial macroinvertebrates of seed bugs (Lygaeidae, Hemiptera) in different ecosystems

ELTJON HALIMI

Systematic and ecological analysis on plant bugs (Miridae, Hemiptera) in the habitats of Lushnja region

ELTJON HALIMI

Frequency of four phenotypes, survival and growth indicators of carp (*Cyprinus carpio* L.) produced in the plant Klosi (Elbasan), in stages of "fry" and "fingerlings"

V.SHERMADHI

Immunology of food allergy in the children of Tirana city ranging from age 6 to 11

ANA KALEMAJ

Serological survey of “Crimean-Congo hemorrhagic fever virus” CCHFV in cattle in Berat and Kolonje regions of Albania

ARTA LUGAJ

Preliminary results of *in situ* conservation of buffalo’s nucleus herd in Divjake area

FIQIRI TAHIRI

Comparition of five phenotypic laboratory methods for detection of methicilin resistant *Staphylococcus aureus*

DAMIANA OSMALLI

Preliminary results of organic matter digestibility of some soybean varieties determined with enzymatic method

NERTILA MALUSHI

The evaluation of physical–chemical characteristics of the milk and white cheese produced

MARSELA COMO

Meat dressing percentage and carcass yield of the lamb (Sharri x Virtsberg)

HAIRIP MEHMETI

Forestry seedlings production by biotechnological methods, the forestry of 21th century in Albania

HASANCANI

Callogenesis and the influence of iba on rhizogenesis of green parts of the olive

HAIRI ISMAILI

Nitrite level, its role in processed meat products and degradation rate during their ripening process

ILIRJANA BOCI

Evaluation of microbiological criteria of raw milk in Albania

GENTIANA BARDHI

Data from the study of Coleopters of freshwater in the middle flow of the river Shkumbin

JAKOV OGA

Microbiological analysis of water of river Lumëbardhi (Kosovo) during winter season

IDRIZ VEHAJI

Water evaluation through microbiological analysis at river Valbona (Albania) during spring season

KEMAJL KURTESHI

Analysis of some organic pollutants in drinking water using capillary gas chromatography technique

OLJANA PINE

Regulatory issues on genetically modified foods in Albania: a policy perspective

SHKELZEN MARKU

Albanian typical products as a tool towards sustainable rural development

ALBAN JAUPI

Measles outbreak in a Roma community in Albania

ALMA ROBO

Serum osteocalcin as a specific marker of bone turnover in postmenopausal women

LORENA HYSI

Coastal salt-marshes in Albania

JULIAN SHEHU

The palynomorphological characteristics of genus Anthemis L. in Albania

A.DAUTI

Analyses of milk production and average weight of inborn calves according to feedig with concentrate, wet and dry food

MAJLINDA BELEGU

Cardiac markers in the acute myocardial ischemia

MERIJE ELEZI

The protein NT-proBNP accurately predicts the risk in patients with cardiovascular disease

MERIJE ELEZI

The cultivation of hazelnuts, variety Visoka in Fier district in Albania

NAZMI AJAZI

Antifungal activity of essential oils from Albanian medicinal plants

ERJON MAMOCI

Isolation, phagotyping and antibiogram of *Salmonella* spp from laying hens farm in Kosovo

BEQË HULAJ

Some preliminary data for the presence of Q-Fever in humans in Western Macedonia

ISMIJE SAITI

Assessment of the quality of water in Buna River based on microbiological analysis

ANILE MEDHA

Broiler performance fed on mash and pellets

LUMTURI SENA

Lognormal distribution of *Toxocaracanis* (n/e/g/f) at the street dogs

ARBEN BOÇARI

Optimizing reproductive performance of herds Simmental breed of imported cattle

F. LEKA (SULAJ)

Osmolyte and Proline accumulation and seed yield responses in *Zea mays L.* Plant (Var: Sc.704) to water stress condition

ARASH AZARPANAH

Study of *Staphylococcus aureus* in locally produced white cheese, by raw or pasteurized milk, in Tirana market

ELVIRA BELI

Incidence and characteristics of *Listeria spp.* in minced meat on the Albanian retail market

ELVIRA BELI

Study of biological properties of Newcastle disease virus, isolated from pigeons

MARSEL BORAKAJ

Measurement of genes interaction effect that determine the occurrence of heterosis in durum wheat

FOTO KASHTA

Preliminary evaluation of electrochemiluminescence technique for detection of cytomegalovirus-IgM antibodies

BLERTA LAZE

Stock assessments of *Parapeneus longirostris* in the Southern Adriatic Sea

JERINA KOLITARI

Impact of gibberilines in increasing production of grapes, improving its quality

EDLIRA KUKALI

Aquaponic systems can be excellent agricultural research instruments either in Albania

RIGERS BAKIU

In vitro plantlet regeneration through somatic embryogenesis and indirect organogenesis in pomegranate (*Punica granatum* L.)

VALBONA SOTA

Microbiological quality and physicochemical parameters of two types of fermented salami during ripening

XHULIETA HAMITI

Effect of storage temperature on histamine formation in *Sardina pilchardus* and *Engraulis encrasicolus* after catch

ARIELA STRUGA

The evaluation performance productive of a local rabbit population, reared in floor pens of different size

ALMA LLAMBIRI

The degradation of the insecticide *Imidacloprid* in greenhouse tomatoes and an estimation of the level of residues

VJOLLCA VLADI

Ampelographic evaluation of wild grapevine characters *Vitis vinifera* G. ssp *Sylvestris* in the Vlora's river valley

BARDHOSH FERRAJ

The differences in the microbial numbers of the raw minced meat preparation during the shelf life of the product

ERMELINDA NEXHIPI

Comparative evaluation of the effects of several polyphenolic extracts on porcine and bovine meat samples

ILIR LLOHA

Preliminary data on genetic diversity of *C. carpio* from Ohrid Lake, estimated by four microsatellite loci

ADIOLA BIBA

Effect of dietary fatty acid profiles and physical activity on body weight and carcass weight in laying hens

SKENDER MUJI

Screening of quinolone antibiotic residues in beef sold in Kosovo

HAMDI ALIU

Rare and endangered species of Tomorri National Park, their conservation status

ERMELINDA MAHMUTAJ

Comparison of direct and indirect organogenesis during the micropropagation of endemic plant species

Forsythia europea Degenet Bald

AIDA KAÇORRI

Preliminary results on embryo culture of some walnut (*Juglans regia* L.) cultivars and histological features of *in vitro* leaves

MATILDA MYRSELAJ (DELIJA)

Comparison of HPLC-DAD and lc–ms/ms for the determination and validation of pyriproxyfen in water solutions

MAGDALENA CARA

Identification of polymorphic variants of modifier gene *B2AR (ADBR2)* in patients with cystic fibrosis
ENILDA RRAPAJ

Assessment of stilbene residues in cattle through analytical control in Korca region
ALI LILO

Study of antibodies sero-prevalence of classical swine fever virus in pigs with negativity of viral antigen in organs
LILJANA LUFO

Microbial water pollution of Drin River in Scutary area, Albania
LINDITA BUSHATI

Optimizing water treatment practices for the removal of actinomycetes and earthy odor in water of Bovilla reservoir
ADELA KULLAJ

Preliminary findings on genetic diversity in cultivated Sage (*Salvia officinalis* L.) employing molecular markers techniques
ELVIRA BAZINA

Monitoring the water microbial parameters of some lakes of Lura Park
ANDREJEVA GOLLOSHI

The effect of hybrid and mechanization used on Maize grain yield
MENTOR THAQI

Comparative study of Putrescine foliar spray on growth, physiology and yield of wheat under different type of soil conditions
TAMoor-UL-HASSAN

Protostrongyloidosis in lambs in the district of Elbasan, Albania
NEZIR GJONI

Analysis precipitation regime, period dryness and climate risk determination for agriculture on Albanian territory
ALBERT KOPALI,

Age composition and growth parameters of bleak (*Alburnus alburnus alborella*) population in Shkodra Lake
VALBONA KOLANECI

Detection of pathogenic *Vibrio parahaemolyticus* in Butrinti Lagoon shellfish F
ATMIRA SHEHU

Determination of anthocyanins level on bilberry (*Vaccinium myrtillus* L.) on North East of Albania

ADRIAN DOKO

Does the *bluetongue virus* circulate in cattle population of Mat district, Albania?

XHELIL KOLECI

Preliminary data on the variation of leaf and acorn characteristics of hungarian oak (*Quercus frainetto* ten) in Central Albania

PASHK LEKA

Study of wheat genetic variation in base collections

FETAH ELEZI

Stability of wheat genotypes in condition of Lushnja region

KRENAR XHELO

Morphological characterization of pea (*Pisum sativum* L.) genotypes stored in Albanian genebank

BELUL GIXHARI

Spontaneous skin canine tumors: toluidine blue stain detection of mast cells in tissue section

ALKETA QOKU

Identification of genetic variants E and M of the κ -Casein gene by PCR-RFLP protocol, in Dukati, Capore, Kallmeti and Liqenasi goat breeds

MARSELA AGOLLARI,

Comparison growth parameters of shellfish from Adriatic Sea in Butrinti Lake

ARJAN DEMIRI

Contamination with *Escherichia coli* of fresh butter produced by cow's milk in Kosovo

ENVER BAJRAMI

Bioecological study on the outburst of millipedes populations (*Class Diplopoda*) around the water pumping station of Konjat, Lushnje

MIHALLAQ QIRJO

Preliminary results of stevia plant (*Stevia rebaudiana*)

NOC FASLLIA

Comperison of finishing pigs cold yield between the genetic of pure breed of Great White (Yorkshire) pietren and their crossbreds

LUANHAJNO

The assessment of pesticides residues in some organic cultivated and wild-collected medicinal plants in Albania

FERDI BRAHUSHI

The influence of the structure of the common carp and grass carp population on the growth and cyprinid polyculture production indexes

MARSIDA BLLACA

Variation of essential oils and agro-morphological traits of *Origanum vulgare* L. in South of Albania
ALBAN IBRALIU

Peculiarities of wheat leaf disease distribution in costal area in Albania
ZHANETA SHAHINI

Approximation of Albanian legislation with the EU food and feed Acquis
ALFRED ÇAUSHI

Implementation of new technologies in wood industry and their effect in wood products quality
ELVA CAUSHI

Using public health surveillance data to monitor the effectiveness of brucellosis control measures in animals
KUJTIM MERSINAJ

Antioxidant effect of the polyphenolic extracts of rosemary, oregano and tea on the lipid oxidation degree of porcine meat samples
ILIR LLOHA

Powdery Mildew (*Sphaerotheca pannosa* var. *rosae*)
MUFAIL SALIHAI

Allelic frequencies of a microsatellite locus in three populations of brown trout (*Salmo trutta*)
EDIT VARDHAMI

Effect of nitrogen fertilizer level on the grain yield, some qualitative and technological indices of *Triticum aestivum* L
FOTO KASHTA

Chemical, fatty acid composition and texture of Lucanian sausages during ageing in relation to the use of nitrates
M.A. COLONNA

Study on morphometric traits of the Albanian bees
MANJOLA KULIÇI

Evaluation of the purse seine with light attraction and mid-water pelagic pair trawl fishing methods on the quality of anchovies (*Engraulis encrasicolus*, Linnaeus, 1758) catches
ROLAND KRISTO

Extraction of oleuropein from olive leaves, in order to use as inhibitor against the corrosion of metals
EFROSINI KOKALARI (TELI),

Determination of added dye in orange fruit juices of *Citrus sinensis* cultivar with a simple analytical method
LUZIANA HOXHA

Duration of the pluviometric deficit in Albania
AZEM BARDHI