

UNIVERSITY OF SZEGED FACULTY OF AGRICULTURE
in cooperation with
BANAT'S UNIVERSITY OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE
"KING MICHAEL I OF ROMANIA" FROM TIMISOARA
FACULTY OF AGRICULTURAL MANAGEMENT,
HUNGARIAN ACADEMY OF SCIENCES REGIONAL COMMITTEE IN SZEGED
and
FOUNDATION FOR AGRICULTURAL MODERNIZATION AND RURAL DEVELOPMENT



“HELLO MODERN AGRICULTURE!”

**16th Wellmann
International Scientific Conference**

PROGRAM

Hódmezővásárhely

9th May 2018

SESSION MEETINGS:

ANIMAL SCIENCES Seminar room 108

PLANT SCIENCES Auditorium „A”

‘PLANTSVITA’ SEMINAR Seminar room 106

POSTER PRESENTATION Seminar room 109

“HELLO MODERN AGRICULTURE!”

16th Wellmann International Scientific Conference Hódmezővásárhely, Hungary 9th May 2018

PROGRAM:

9:00 – 10:00	Registration (at the entrance door)
10:00 – 10:30	Opening ceremony, welcome speeches (Auditorium „A”)
10:30 – 11:50	Plenary session (Auditorium „A”)
12:00 – 13:00	Lunch (Restaurant of the Faculty)
13:30 – 16:00	Poster presentation (Seminar room 109)
14:00 – 16:30	Thematic Sessions
17:00 – 17:30	Cultural program (Student Hostel Lounge)
18:00 –	Reception dinner (Ginkgo Hotel)

PROGRAM OF THE PLENARY SESSION

10:00 Opening speech

Prof. Dr. Gábor Szabó, rector of the University of Szeged

10:10 Welcome speeches

Dr. József Horváth, dean of the Faculty of Agriculture, University of Szeged

Prof. Dr. Cosmin Alin Popescu, rector of the Banat's University of Agricultural Science and Veterinary Medicine "King Michael I of Romania" from Timisoara (participation under organization)

Prof. Dr. Ioan Brad, dean of the Faculty of Agricultural Management, Banat's University of Agricultural Science and Veterinary Medicine "King Michael I of Romania" from Timisoara

Dr. Tamás Monostori, chairman of the Agricultural Committee, Hungarian Academy of Sciences Regional Committee in Szeged

Dr. Péter Márki-Zay, mayor of Hódmezővásárhely Municipal Town
(participation under organization)

10:30 Plenary session

MODERN FINANCE: A CATALYST FOR TRULY MODERN AGRICULTURE

Dr. Margherita Mori, University of L'Aquila, Department of Industrial and Information Engineering, and of Economics, L'Aquila, Italy

ROMANIA'S FOOD AND RELATED CONSUMPTION PATTERNS ALONG ITS PRE-ACCESSION AND INTEGRATION TO EU

Dr. Cosmin Sălășan, Banat's University of Agricultural Sciences and Veterinary Medicine "King Michael I of Romania" from Timișoara, Faculty of Agricultural Management, Timișoara, Romania

ECOLOGICAL AND BIOCHEMICAL CHARACTERISTICS OF TRICHODERMA STRAINS ISOLATED FROM SERBIAN SOILS

Dr. Gordana Racić, Educons University, Faculty of Ecological Agriculture, Sremska Kamenica, Serbia

DEVELOPMENT OF BIOCONTROL STRATEGIES BASED ON ANTAGONISTIC TRICHODERMA STRAINS

Dr. László Kredics, University of Szeged, Faculty of Science and Informatics, Department of Microbiology, Szeged, Hungary

11:40 Discussion

**SESSION MEETING ON
ANIMAL SCIENCES
(Seminar room 108)**

Moderator:	Dr. Margherita Mori	Italy
Moderator:	Dr. Edit Mikó	Hungary
Secretary:	Dr. Orsolya Kiss	Hungary

UHT TREATMENT OF LIQUID EGG YOLK

EMNA AYARI, CSABA NÉMETH, ADRIENN TÓTH, NOORI KHABAT, PINTÉR RICHÀRD, LÁSZLÓ FRIEDRICH

ECONOMIC MODELLING OF DAIRY FARMS REGARDING MASTITIS

BALÁZS BÁNHÉLYI, ELVIRA D. ANTAL, TIBOR CSENDES, ABIGÉL MESTER, JÓZSEFNÉ MIKÓ, JÓZSEF HORVÁTH

CAPONIZING NATIVE HUNGARIAN SPECKLED CHICKENS

ÁKOS BENK, CSABA BALOGH, SZILÁRD PINNYEY

HOME RANGE OF THE BROWN HARE (*LEPUS EUROPAEUS*) IN AN AGRICULTURAL ENVIRONMENT

NORBERT KELLER, NIKOLETT UJHEGYI, ZSOLT BIRO, GYÖRGY BÁTHORY, LÁSZLÓ SZEMETHY

THE EFFECT OF MILKING TECHNOLOGY ON THE BEHAVIOUR PATTERN OF DAIRY COWS

EDIT MIKÓ, MYRTILL GRÁFF, ÁGNES SÜLI, SZABINA SZILÁGYI, ZSANETT TÓTH, SZILÁRD PINNYEY

CERTAIN PARASITOSIS OF THE WILD BOAR AND THEIR IMPORTANCE IN WILDLIFE MANAGEMENT IN HUNGARY AND IN CERTAIN HUNTING REGIONS OF HEVES COUNTY

LAJOS MOLNÁR

EFFECTS OF MINIMAL PROCESSING AND VITAMIN C ENRICHMENT ON MICROBIOLOGICAL SAFETY AND VISCOSITY OF LIQUID EGG WHITE

ADRIENN TÓTH, CSABA NÉMETH, EMNA AYARI, ORSOLYA PINTÉR-NAGY, ILDIKÓ ZEKE, LÁSZLÓ FRIEDRICH

EFFECT OF NUTRIENT SUPPLY ON THE MORTALITY RATE OF CALVES

SZANDRA TÓTH

**SESSION MEETING ON
PLANT SCIENCES
(Auditorium „A”)**

Moderator: Dr. Cosmin Sălășan Romania
Moderator: Dr. Péter Jakab Hungary
Secretary: Adrienn Szarvas Hungary

WATER FOOTPRINT OF PROTEIN YIELD OF FIELD CROP SPECIES BASED ON EVAPOTRANSPIRATION PATTERNS

MÁRTON JOLÁNKAI, KATALIN M. KASSAI, ADNAN ESER, LAURA KEMPF, ÁKOS TARNAWA

SWEET POTATO [*IPOMOEA BATATAS* (L.) LAM.] YIELD INFLUENCED BY SLIPS' ORIGIN ON ALLUVIAL SOIL IN SOUTH HUNGARY

EVELYN HERCZEG, TAMÁS MONOSTORI, MARGIT HÓDINÉ SZÉL, GYÖRGYI CSONTOS, LÁSZLÓ PAP, ADRIENN SZARVAS

THE EFFECT OF FERTILIZATION ON THE YIELD AND YIELD COMPONENTS OF WINTER WHEAT

PÉTER JAKAB, ÁGNES JUSZTIN, ANITA BARANYI, ISTVÁN KRISTÓ, MARGIT HÓDINÉ SZÉL

STUDY OF DIFFERENT FERTILIZER DOSES ON THE YIELD AND SOME QUALITY PARAMETERS OF WINTER WHEAT

PÉTER JAKAB, NÓRA MASA, ANITA BARANYI, ISTVÁN KRISTÓ, MARGIT HÓDINÉ SZÉL

COMPARISON OF ENVIRONMENTAL EFFECTS OF CONVENTIONAL AND ORGANIC FARMING WITH MATERIAL FLOW ANALYSIS

SZILÁRD KÁDÁR

THE INFLUENCE OF NUTRIENT SOURCES ON THE YIELD AND MARKETABILITY OF SWEET POTATO [*IPOMOEA BATATAS* (L.) LAM.]

LÁSZLÓ PAP, ADRIENN SZARVAS, EVELYN HERCZEG, GYÖRGYI CSONTOS, MARGIT HÓDINÉ SZÉL, TAMÁS MONOSTORI

RESEARCH OF MIDSEASON POTATO VARIETIES SUITABLE FOR ORGANIC GROWING

ORSOLYA PAPP, TÍMEA JUNG, DÓRA DREXLER

CO-FERMENTATION OF AGRICULTURAL ORGANIC WASTE, MAIN AND BY-PRODUCTS

LÁSZLÓ SALLAI

**‘PLANTSVITA’
SEMINAR
(Seminar room 106)**

**Interreg-IPA Cross-border Cooperation Programme Hungary-Serbia
PLANTSVITA project (HUSRB/1602/41/0031)**

Moderator: Dr. Biljana Škrbić Serbia
Moderator: Dr. Csaba Vágvölgyi Hungary

**OVERVIEW OF RESPECTIVE AIMS AND EXPECTED RESULTS OF THE
PLANTSVITA IPA HU-SRB PROJECT**

BILJANA ŠKRBIĆ, CSABA VÁGVÖLGYI, DEJANA PANKOVIĆ

**INFLUENCE OF AGRO-ENVIRONMENTAL POLLUTANTS ON A BIOCONTROL
STRAIN OF *BACILLUS VELEZENSIS***

*MÓNIKA VÖRÖS, LÁSZLÓ MANCZINGER, LÁSZLÓ KREDICS, ANDRÁS SZEKERES, BILJANA ŠKRBIĆ,
CSABA VÁGVÖLGYI*

**POTENTIAL APPLICATION OF MICROBES FOR XENOBIOTIC-REMOVAL IN
AGRICULTURAL SYSTEMS**

*ANUAR R. ZHUMAKAYEV, LÁSZLÓ KREDICS, LÁSZLÓ MANCZINGER, BILJANA ŠKRBIĆ, CSABA
VÁGVÖLGYI, LÓRÁNT HATVANI*

**LIPOPEPTIDE PROFILING OF A *BACILLUS AMYLOLIQUEFACIENS* STRAIN
EXTRACT BY HPLC-HRMS TECHNIQUE**

*ATTILA BARTAL, DÁVID RAKK, LÁSZLÓ MANCZINGER, KADAIKUNNAN SHINE, NAIYF S. ALHARBI,
JAMAL M. KHALED, CSABA VÁGVÖLGYI, ANDRÁS SZEKERES (POSTER)*

DETERMINATION OF VALINE AND LEUCINE ISOMERS IN PEPTAIBOLS

*GÁBOR ENDRE, DÓRA PAPP, TAMÁS MARIK, LÁSZLÓ KREDICS, MÓNIKA VARGA, CSABA VÁGVÖLGYI,
ANDRÁS SZEKERES (POSTER)*

**POSTER PRESENTATION
(Seminar room 109)**

Moderator:	Prof. Dr. Judit Péter Szűcs	Hungary
Moderator:	Prof. Dr. Lajos Tanács	Hungary
Secretary:	Dr. László Sallai	Hungary

EXAMINATION OF FISH CONSUMPTION HABITS AMONG STUDENTS OF A SECONDARY SCHOOL IN SZEGED AND OF A UNIVERSITY FACULTY

ESZTER ÁCS

TRENDS REGARDING RURAL TOURISM

TABITA ADAMOV, TIBERIU IANCU, RAMONA CIOLAC, GABRIELA POPESCU, ELENA PET, IOAN BRAD

EFFECT OF UHT TREATMENT ON LIQUID EGG PRODUCTS

EMNA AYARI, CSABA NÉMETH, TÓTH ADRIENN, NOORI KHABAT, PINTÉR RICHÀRD, LÁSZLÓ FRIEDRICH

RELATIONSHIPS BETWEEN REPRODUCTION PARAMETERS IN DAIRY COWS

GÁBOR BAKOS, SZABINA BÉKI, SZABOLCS PÓCZA, ÁDÁM NAGY, SZANDRA TÓTH, MIKLÓS SZABARI, JÓZSEF STEFLER

WATER USE AND WASTEWATER TREATMENT ON DAIRY CATTLE FARMS

ANNAMÁRIA BÁNFI, EDIT MIKÓ, CECILIA HODÚR

ENHANCED BIODEGRADABILITY OF DAIRY SLUDGE BY MICROWAVE ASSISTED ALKALINE AND ACIDIC PRE-TREATMENTS

SÁNDOR BESZÉDES, ZOLTÁN JÁKÓI, BALÁZS LEMMER, CECILIA HODÚR

ESTIMATION OF NITROGEN STATUS OF GRASS-LEGUME SWARDS UNDER FOUR N FERTILIZATION RATES

Z. BIJEIĆ, V. MANDIĆ, D. RUŽIĆ-MUSLIĆ, V. KRNJAJA, N. MIĆIĆ, Z. ŠKRBIĆ, D. OSTOJIĆ-ANDRIĆ

EXAMINATION OF CONSUMER BEHAVIOUR IN CONNECTION WITH THE FOOD PACKAGING

CINTIA BORBÍRÓ, BRIGITTA ZSÓTÉR, JÓZSEF GÁL, PIROSKA JOÓNÉ MUHI

ENTREPRENEURSHIP AN IDEAL SOLUTION FOR YOUNG PEOPLE IN ROMANIA

IOAN BRAD, REMUS GHERMAN, ANA-MARIANA DINCU

ADVANTAGEOUS TRAITS OF HUNGARIAN TOMATO ACCESSIONS FOR FUTURE UTILIZATION

LÁSZLÓ CSAMBALIK, MÁRTA LADÁNYI, ESZTER TÓTH, ANNA DIVÉKY-ERTSEY

EFFECT OF FREEZE-THAW ON THE TEXTURE OF GLUTEN-FREE PIE CRUST DOUGH

JUDIT CSONKA, LÁSZLÓ FRIEDRICH, KLÁRA PÁSZTOR-HUSZÁR, KARINA HIDAS, ANNA VISY, ILDIKÓ ZEKE

SEPARATION OF AFLATOXINS WITH CENTRIFUGAL PARTITION CHROMATOGRAPHY

GÁBOR ENDRE, ZSÓFIA HEGEDÜS, MÓNIKA VARGA, CSABA VÁGVÖLGYI, ANDRÁS SZEKERES

MYCORRHIZAL INOCULATION OF ONION (*ALLIUM CEPA* L.) IN THE EARLY DEVELOPEMENT STAGES

KATALIN FEKETE, RENÁTA HONFI, ZOLTÁN PAP

HUMAN RESOURCES IN PUBLIC ADMINISTRATION FROM ROMANIA

REMUS GHERMAN, IOAN BRAD, ANA-MARIANA DINCU

UNDERLYING CAUSES OF GLOBAL FOOD PRICE CHANGES

NÓRA GOMBKÖTŐ

PROLONGATION OF LIQUID WHOLE EGGS' SHELF LIFE WITH DIFFERENT METHODS

KARINA ILONA HIDAS, ANNA VISY, JUDIT CSONKA, LÁSZLÓ FRIEDRICH, CSABA NÉMETH, ILDIKÓ CSILLA ZEKE

AGRICULTURAL FINANCING IN THE EU: THE CAP FRAMEWORK

NIKOLCHE JANKULOVSKI, KATERINA BOJKOVSKA, TRAJAN DOJCHINOVSKI, GORAN MIHAJLOVSKI

THE RECOGNITION OF THE EU ORGANIC LABEL AMONG THE HUNGARIAN CONSUMERS

LILI JANTYIK, ÁRON TÖRÖK

DEVELOPMENT OF *LYCORIELLA INGENUA* AND *BRADYSIA IMPATIENS* ON DIFFERENT PHASES OF AGARICUS COMPOSTS

SÁNDOR KECSKEMÉTI, JÓZSEF FAIL, ANDRÁS GEÖSEL

ANALYSIS OF TROPHY PARAMETERS IN FALLOW DEER (*DAMA DAMA*) IN HUNGARY, 1998-2016

IMRE KOVÁCS, GERGELY SCHALLY, SÁNDOR CSÁNYI

ANTIOXIDANT PROPERTIES OF DIFFERENT APPLE CULTIVARS

JUDIT KRISCH, KRISTÓF VUCSETA

THE EFFECT OF DIFFERENT WEED CONTROL TECHNOLOGIES ON YIELD OF MAIZE AND PROFITABILITY OF MAIZE PRODUCTION

ISTVÁN KRISTÓ, GÁBOR VACZKÓ, MELINDA TAR, PÉTER JAKAB, LÁSZLÓ HÓDI

GENETIC DIVERSITY OF LINSEED ACCESSION

SIRINE MAHJOUR, ISTVÁN KRISTÓ, MELINDA TAR

SOWING DATE AND NITROGEN RATE EFFECTS ON QUALITATIVE PARAMETERS OF MAIZE GRAIN

VIOLETA MANDIĆ, ZORICA BIJELIĆ, VESNA KRNJAJA, MILENA SIMIĆ, DRAGANA RUŽIĆ MUSLIĆ, ZDENKA ŠKRBIĆ, ALEKSANDAR STANOJKOVIĆ

SEASONAL EFFECT OF QUALITY OF MILK IN COW

JUDIT MÁRKI, JÓZSEF CSANÁDI, ZOLTÁN DEIM, ATTILA KOLLER, RITA SZÚTS, ZSOLT SZEGLETES, FERENC OTVOS, ZITA SERES, BALÁZS P. SZABÓ, ANTAL VÉHA, VIKTORIA SZUTS

POSSIBLE USE OF MULTIVARIATE STATISTICAL PROCESS CONTROL IN FOOD INDUSTRY

JÓZSEF MIHALKÓ, RÓBERT RAJKÓ

INFLUENCE OF PLASTIC MULCH BETWEEN ROWS ON THE YIELD AND QUALITY OF WATERMELON (*CITRULLUS LANATUS* L.)

DZSENI FER NÉMETH, NOÉMI KAPPEL, GÁBOR BALÁZS

MICROBIOLOGICAL STATUS AND OXIDATION PROPERTIES OF MINCED CHICKEN BREAST MEAT TREATED WITH DIFFERENT CONCENTRATION OF ALLYL-ISOTHIOCYANATE

KHABAT NOORI HUSSEIN, LASZLO FRIEDRICH, GABRIELLA KISKO, CSABA NEMETH, ISTVAN DALMADI

EFFECT OF DIFFERENT EXTRACTION METHODS ON THE METABOLITE PROFILE OF *ASPERGILLUS* SP. ISOLATED FROM *JUNIPERUS COMMUNIS*

DÁVID RAKK, ARUNA VIGNESHWARI, BILJANA ŠKRBIĆ, MÓNICA VARGA, CSABA VÁGVÖLGYI, ANDRÁS SZEKERES

THE EFFECT OF REPLACING FISH MEAL WITH HERBAL PROTEIN IN THE LAMB DIET

D. RUŽIĆ-MUSLIĆ, M. P. PETROVIĆ, Z. BIJELIĆ, Z. ŠKRBIĆ, V. CARO PETROVIĆ, N. MAKSIMOVIĆ, B. CEKIĆ

DEVELOPMENT OF MELATONIN LEVEL IN BOVINE'S MILK

ÁRON SIPOS

EXAMINATIONS RELATED TO THE INVESTMENTS IN SARKAD

MÁTÉ SZIGETI, BRIGITTA ZSÓTÉR

EFFECTS OF DIFFERENT CASING ONTO THE YIELD OF BUTTON MUSHROOM

GERGELY SZUKÁCS, ANDRÁS GEÖSEL

COMPARISON OF DIFFERENT METHODS OF TREATMENTS AGAINST WHEAT YELLOW RUST

MELINDA TAR, MÁRIA CSÓSZ, ISTVÁN KRISTÓ, ISTVÁN PETRÓCZI

EFFECTS OF COMBINED HHP AND HEAT TREATMENT ON NUTRITIONAL QUALITY OF VITAMIN-C ENRICHED LIQUID WHOLE EGG

ADRIENN TÓTH, CSABA NÉMETH, PÉTER PENKSZA, RÉKA JUHÁSZ, EMNA AYARI, LÁSZLÓ FRIEDRICH

DIFFERENT ATTITUDES TOWARDS NATIONAL AND EUROPEAN FOOD QUALITY LABELS IN HUNGARY

ÁRON TÖRÖK

ANTIMICROBIAL ACTIVITY OF ENDOPHYTIC FUNGI ISOLATED FROM *SOPHORA FLAVESCENS*

ADIYADOLGOR TURBAT, ENKH-AMGALAN JIGJID, LÁSZLÓ MANCZINGER, CSABA VÁGVÖLGYI, ANDRÁS SZEKERES

THE EFFECT OF DIFFERENT WEED CONTROL TECHNOLOGIES ON WEED SPECIES COMPOSITION OF MAIZE

GÁBOR VACZKÓ, LÁSZLÓ HÓDI, MELINDA TAR, PÉTER JAKAB, ISTVÁN KRISTÓ

ANTIMICROBIAL ACTIVITIES OF THE SECONDARY METABOLITES OF ENDOPHYTIC FUNGI ISOLATED FROM *JUNIPERUS COMMUNIS*

ARUNA VIGNESHWARI, LUBNA ABBAS, LÁSZLÓ BAKACSY, BILJANA ŠKRBIĆ, CSABA VÁGVÖLGYI, ANDRÁS SZEKERES

EFFECT OF HIGH PRESSURE TREATMENT ON PHYSICAL PROPERTIES OF RAW MEAT BATTER

ANNA VÍSY, JUDIT CSONKA, KARINA HIDAS, LÁSZLÓ FRIEDRICH, GÁBOR JÓNÁS

PURIFICATION OF SECONDARY METABOLITES FROM THE FERMENT BROTH OF ENDOPHYTIC FUNGI OF *TAXUS BACCATA*

BETTINA VOLFORD, DÁVID RAKK, GÁBOR ENDRE, BILJANA ŠKRBIĆ, CSABA VÁGVÖLGYI, ANDRÁS SZEKERES

ANTIMICROBIAL EFFECT OF SECONDARY METABOLITES EXTRACTED FROM ENDOPHYTIC FUNGI OF *TAXUS BACCATA*

BETTINA VOLFORD, BILJANA ŠKRBIĆ, ANIKÓ NÉMETH, MIKLÓS TAKÓ, CSABA VÁGVÖLGYI, ANDRÁS SZEKERES

PRODUCTION OF BIOACTIVE PHENOLIC COMPOUNDS FROM MANGO RESIDUES

CAROLINA ZAMBRANO, ERIKA BEÁTA KEREKES, ALEXANDRA KOTOGÁN, OTTÓ BENCSIK, ANDRÁS SZEKERES, CSABA VÁGVÖLGYI, TAMÁS PAPP, JUDIT KRISCH, MIKLÓS TAKÓ

EXAMINATIONS RELATED TO THE INVESTMENTS IN GYOMAENDRŐD

BRIGITTA ZSÓTÉR, TAMÁS GYURICZA

**THE INVESTMENTS OF TÓTKOMLÓS ABOUT THE POPULATION'S
CONTENTMENT INVESTIGATION**

BRIGITTA ZSÓTÉR, MARCELL KISDEÁK, JÓZSEF GÁL, PIROSKA JOÓNÉ MUHI

**ECONOMICAL ASSESSMENT OF AN INVESTMENT RELATED TO THE
ESTABLISHMENT OF A NEW FARROWING PLACE AND PIG-REARING
BUILDING**

BRIGITTA ZSÓTÉR, ÁGNES MILOJEV

**NPV, IRR, PI AND DPB CALCULATIONS TO A SMOKE TECHNOLOGY
INVESTMENT OF A PORK PROCESSING PLANT**

BRIGITTA ZSÓTÉR, ISTVÁN TÚRI

Cultural program

Skyrover in Festive Clothing – The Life of a White Stork Family
photo exhibition by Dániel Langó agricultural engineer BSc student
of the University of Szeged Faculty of Agriculture

Venue: Student Hostel Lounge
Address: Hódmezővásárhely, Petőfi u. 10-12.
Time: 17:00

Reception dinner

Venue: Ginkgo Hotel
Address: Hódmezővásárhely, Zrínyi u. 2
Time: 18:00

Agricultural Exhibition and Fair

Transfer to Agricultural Exhibition and Fair

Conference participants who registered for transfer to the Exhibition
can take the minibus outside the Students' Hostel in Petőfi Street at
8:30 a.m. on 10th May 2018

“HELLO MODERN AGRICULTURE!”

16th Wellmann International Scientific Conference Hódmezővásárhely, Hungary 9th May 2018

THE SCIENTIFIC CONFERENCE IS SPONSORED BY



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AGRICULTURE