



**15th DKMT Euroregion Conference on Environment and Health
with satellite event
LACREMED Conference „Sustainable agricultural production: restoration of
agricultural soil quality by remediation“**

University of Novi Sad, Faculty of Technology Novi Sad, Serbia
16-17 May 2013

PROGRAM

16 May 2013

9.00-10.00 Registration
10.00-10.20 Welcome with introductory lecture:
SUSTAINABLE ENVIRONMENTAL REMEDIATION: LACREMED PROJECT, Prof.
Dr. Biljana Škrbić

Oral session I: Environmental protection - novel methods to combat soil and water pollution
Chairman: Prof. Dr. Csaba Vágvölgyi

Invited lectures:

10.20-10.40 SOIL REMEDIATION WITH LACCASES, Manczinger, L.
10.40-11.00 PHYTOREMEDIATION OF POLLUTED ENVIRONMENT AND THE FOOD CHAIN
SAFETY, Erdei, L.

11.00-11.20 Coffee

Oral presentations:

11.20-11.35 USE OF A CHITINOLYTIC BIOCONTROL AGENT FOR A SUSTAINABLE
MANAGEMENT OF ROOT-KNOT NEMATODES, Sasanelli, N., Ciccamesse, F.,
Laquale S., Gallo, M.
11.35-11.50 UPTAKE AND METABOLISM OF HUMAN PHARMACEUTICALS IN PLANTS –
OPPORTUNITY FOR CLEANING WASTEWATER AND POLLUTED SOILS, Bartha,
B., Huber, C., Schröder, P.
11.50-12.05 ISOLATION OF LACCASE PRODUCING FUNGAL STRAINS, Sajben-Nagy, E.,
Manczinger, L., Škrbić, B., Živančev, J., Antić, I., Krisch, J., Vágvölgyi, Cs.
12.05-12.20 BIODEGRADATION OF ANILINE BY AN *ASPERGILLUS USTUS* STRAIN ISOLATED
FROM RIVER MAROS, Hatvani, L., Manczinger, L., Bajkán, Sz., Vidács, L., Radulov,
I., Nita, L., Vágvölgyi, Cs.

12.20-13.20 **Poster session I**

13.20-15.00 *Lunch*



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Oral session II: Water quality and emerging issues in environmental health

Chairlady: Prof. Dr. Biljana Skrbić

Invited lectures:

- 15.00-15.20 ORGANIC XENOBIOTICS AND WATER QUALITY, Ivančev-Tumbas, I., Agbaba, J., Tubić, A., Molnar, J.
15.20-15.40 ARSENIC IN DRINKING WATER IN SOUTH BAČKA REGION, Bijelović, S., Živadinović, E., Popović, M., Lukić, D., Jevtić, M.
15.40-16.00 PHARMACEUTICALS AS ENVIRONMENTAL CONTAMINANTS: SOURCES, OCCURRENCE AND CHEMICAL ANALYSIS, Jelić, A., Petrović, M.

Oral presentations:

- 16.00-16.15 ARSENIC IN DRINKING WATER: THE ARAD COUNTY PERSPECTIVE, Cirmatu, D., Chelu, M., Jompan, A.

16.15-17.15 **Poster session II and coffee**

Oral session III: Public health and the environmental (air, water, soil) quality

Chairlady: Prof. Dr. Daniela Cirmatu

Invited lectures:

- 17.15-17.35 ENVIRONMENTAL EXPOSURES AND OXIDATIVE STRESS, Papp, A., Sárközi, K., Máté, Zs., Horváth, E., Szabó, A., Lukács, A.

Oral presentations:

- 17.35-17.50 CORRELATIONS BETWEEN HEAVY METAL POLLUTION AND GENERAL MORBIDITY OF THE APUSENI MOUNTAINS AREA, Timis, H., Blaga, A., Gati, G.
17.50-18.05 CYTOKINE RESPONSES IN HUMAN PERIPHERAL BLOOD MONONUCLEAR CELLS INDUCED BY *CANDIDA ALBICANS* AND *CANDIDA PARAPSILOSIS*, Tóth, A., Csonka, K., Vágvölgyi, Cs., Gácser, A.

19.00-21.30 *Official dinner*



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Oral session IV: Air pollution, scenarios of future air quality emissions, climate impact on air quality and health

Chairman: Dr. András Papp

Invited lectures:

9.30-9.50 SIZE-SEGREGATED AND PHYSICO-CHEMICAL CHARACTERISTIC OF URBAN AEROSOLS OF CONTINENTAL PART OF BALKANS, Đorđević, D., Stortini, A. M., Buha, J., Mihajlić-Zelić, A., Relić, D., Ignjatović, Lj., Gambaro, A.

Oral presentations:

9.50-10.05 CLIMATE IMPACT ON AIR QUALITY AND HEALTH IN THE CITY OF RIJEKA AREA, CROATIA, Alebić-Juretić, A.

10.05-10.20 THE ROLE OF ASPERGILLI IN MYCOTOXIN CONTAMINATION OF AGRICULTURAL PRODUCTS IN CENTRAL EUROPE IN VIEW OF CLIMATE CHANGE, Varga, J., Kocsubé, S., Szigeti, G., Baranyi, N., Varga, M., Mesterházy, Á., Tóth, B.

10.20-11.20 **Poster session III and coffee**

Oral session V: Food quality and food safety - environmental impacts

Chairman: Prof. Dr. Laszlo Erdei

Invited lectures:

11.20-11.40 ESSENTIAL OIL - ANTIMICROBIAL POTENTIAL IN MEDICINE, FOOD INDUSTRY AND CROP SAFETY, Samojlik, I., Božin, B., Suvajdžić, Lj.

11.40-12.00 RISK ASSESSMENT OF PESTICIDE POLLUTION IN THE FOOD CHAIN, Krisch, J.

Oral presentations:

12.00-12.15 GC-MS MEASUREMENT OF DITHIOCARBAMATES FROM FRUITS AND VEGETABLES, Szekeres, A., Bencsik, O., Papp, Á., Berta, M., Vágvölgyi, Cs.

12.15-12.45 *General discussion, certificate awarding and closing remarks*

12.45-13.30 *DKMT Association assembly*



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POSTER PRESENTATIONS

16 May 2013

12.20-13.20 **POSTER SESSION I**

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GREEN APPROACH IN THE ENVIRONMENTAL REMEDIATION, Đurišić-Mladenović, N., Škrbić, B., Vágvölgyi, Cs., Manczinger, L., Čelić, M.

P2

DEGRADATION OF SOME ANILINE AND PHENOL DERIVATIVES BY *GANODERMA LACCASES*, Sajben-Nagy, E., Manczinger, L., Škrbić, B., Živančev, J., Antić, I., Krisch, J., Vágvölgyi, Cs.

P3

RAPID UHPLC-HESI-MS/MS METHOD FOR ANALYSIS OF SELECTED ANILOGENIC AND PHENOLIGENIC XENOBIOTICS, Škrbić, B., Živančev, J., Vágvölgyi Cs., Manczinger, L., Antić, I., Sajben-Nagy, E.

P4

BREEDING OF A BIOCONTROL STRAIN OF *BACILLUS SUBTILIS*, Bóka, B., Manczinger, L., Szekeres, A., Vágvölgyi, Cs.

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ISOLATION AND ECOPHYSIOLOGY OF ENDOPHYTIC FUNGI FROM *AMBROSIA RTEMISIIFOLIA*, Fehér, M., Manczinger, L., Körmöczi, L., Sajben-Nagy, E., Vágvölgyi, Cs.

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EFFECT OF HEAVY METALS ON A BIOCONTROL STRAIN OF *BACILLUS AMYLOLIQUEFACIENS*, Vörös, M., Manczinger, L., Vágvölgyi, Cs.

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MICROBIAL TOXICITY INVESTIGATIONS OF ENVIRONMENTAL SAMPLES
Palágyi, A., Manczinger, L., Vágvölgyi, Cs.

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OCCURRENCE OF MYCOTOXIGENIC FUNGI AND MYCOTOXINS IN MAIZE IN HUNGARY IN 2010-2012, Tóth, B., Török, O., Pálfi, X., Szabó, B., Varga, M., Varga, J.

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GENETIC VARIABILITY OF *FUSARIUM VERTICILLIOIDES* ISOLATES COLLECTED FROM MAIZE IN HUNGARY, Szabó, B., Varga, J., Tóth, B.



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PHOTORHABDUS LUMINESCENS AS A POSSIBLE NEW TOOL OF BIOLOGICAL CONTROL IN MUSHROOM PRODUCTION, Lengyel, B., Kormányos, G., Kormányos, R., Körmöczi, P., Vágvölgyi, Cs., Kredics, L.

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PURIFICATION OF AN ANTIBACTERIAL COMPOUND FROM *TRICHODERMA CITRINOVIRIDE*, Kredics, L., Bencsik, O., Czifra, D., Leitgeb, B., Vágvölgyi, Cs., Szekeres, A.

P12

RECENT DEVELOPMENTS ON ANTIMICROBIAL POTENTIAL OF *MOMORDICA CHARANTIA* L.: A MINI REVIEW, Pauliuc, I., Nacsa-Farkas, E., Krisch, J., Vágvölgyi, Cs.

P13

LACCASE PRODUCTION OF *TRICHODERMA* STRAINS FROM VEGETABLE RHIZOSPHERE, Körmöczi, P., Marik, T., Manczinger, L., Sajben-Nagy, E., Vágvölgyi, Cs., Danilović, G., Panković, D., Jovanović, L., Pucarević, M., Kredics, L.

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INVESTIGATION OF THE ROLE OF HxnV IN THE UTILIZATION OF NICOTINIC ACID AS NITROGEN-SOURCE IN *ASPERGILLUS NIDULANS*, Bokor, E., Karácsony, Z., Papp, Cs., Vágvölgyi Cs., Hamari Zs.

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CHARACTERIZATION OF *CANDIDA PARAPSILOSIS CDR1-2* DOUBLE DELETION MUTANT, Papp, Cs., Nosanchuk, J. D., Pfeiffer, I., Bernátsky, R., Vágvölgyi, Cs., Gácser, A.

P16

A SURVEY OF THE NATURAL OCCURENCE OF ZEARALENONE IN WHEAT GRAIN SAMPLES, Janić Hajnal, E., Kos, J., Torbica, A.

P17

MICRONUTRIENTS IN GRAINS AND GRAIN PRODUCTS AND THEIR IMPORTANCE TO HUMAN HEALTH, Velimirović, D., Tošić, S., Kaličanin, B., Arsić, I., Pavlović, A.

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LIQUID CHROMATOGRAPHIC PURIFICATION OF SESTERTERPENE-TYPE SECONDARY FUNGAL METABOLITES, Bencsik, O., Nagy, G., Szekeres, A., Papp, T., Vágvölgyi, Cs.

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ENERGY EFFICIENCY OF FERTILIZING SYSTEMS AT DURUM WHEAT, Kostadinova, S., Panayotova, G.

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ENERGY EFFICIENCY OF NITROGEN FERTILIZATION AT DURUM WHEAT CULTIVARS, Almaliev, M.



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CONVERSION OF BIOMASS ENERGY TO SECOND GENERATION OF BIOFUELS, Predojević, Z., Škrbić, B., Đurišić-Mladenović, N., Cvejanov J.

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SOLID-PHASE EXTRACTION OF DICAMBA HERBICIDE FROM WATER, Šunjka, D., Lazić, S., Grahovac, N., Jakšić, S.

16.15-17.15 **POSTER SESSION II**

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OCCURENCE OF FUMONISINS IN FRESHLY HARVESTED MAIZE, Kos, J., Janić Hajnal, E., Mastilović, J., Šarić, Lj.

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MYCOBIOTA AND MYCOTOXIN CONTENT OF MAIZE COLLECTED FROM WAREHOUSES IN SOUTHERN HUNGARY AND VOJVODINA IN 2012, Kocsubé, S., Palágyi, A., Pál, R., Farkas, C., Tóth, B., Bagi, F., Bodroza-Solarov, M., Varga, J.

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THE FIRST DOCUMENTED CASE OF HUMAN *TRICHODERMA* INFECTION IN HUNGARY, Kredics, L., Dóczy, I., Hatvani, L., Vágvölgyi, Cs., Molnár-Gábor, E.

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ANTIFUNGAL POTENTIAL OF BIRTHWORT AND SWEET CLOVER EXTRACTS, Nacsá-Farkas, E., Pauliuc, I., Kerekes, E., Vágvölgyi, Cs., Krisch, J.

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ISOLATION OF *PHANEROCHAETE CHRYSOSPORIUM* STRAINS FROM HUNGARIAN HABITATS AND THEIR PRELIMINARY CHARACTERIZATION, Vörös, M., Panković, D., Pucarević, M., Bóka, B., Jovanović, Lj., Manczinger, L., Vágvölgyi, Cs.

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EMERGING CONTAMINANTS IN THE DANUBE SURFACE WATER IN NOVI SAD SURROUNDINGS, SERBIA, Milanović, M., Sudji, J., Grujić Letić, N., Radonić, J., Turk Sekulić, M., Mihajlović, I., Vojinović Miloradov, M., Milić, N.

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ASPECTS REGARDING WATER QUALITY IN A ROMANIAN DANUBE-BORDERED COUNTY, Prejbeanu, I., Mihai, M., Hurezeanu, A., Cara, M. L.



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GC-MS DETERMINATION OF FATTY ACIDS IN KOMBUCHA FERMENTED MILK PRODUCTS OBTAINED USING NONTRADITIONAL INOCULUMS, Lončar, E., Vitas, J., Kravić, S., Milanović, S., Malbaša, R.

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CONVERSION OF BLACK SMOKE INDEX TO BLACK CARBON CONCENTRATION, Bobić, S., Jovanović, M., Mihajlović, B., Dimitrijević, Lj., Torović, Lj.

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RISKS CAUSED BY THE USE OF MATERIALS CONTAINING ASBESTOS, Marinković, V., Petrović, V.B., Simendić, B.

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NUTRITIVE FACTORS IN MILK: A COMPARATIVE STUDY BETWEEN MATERNAL MILK, MILK FORMULA AND COW MILK, Petrescu, C., Tarcau, E.C., Tuta-Sas, I., Olariu, T.R.

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OCCURENCE OF AFLATOXIN M1 IN MILK IN SERBIA, Škrbić, B., Živančev, J., Antić, I.

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FATTY ACID PROFILE OF FERMENTED DAIRY PRODUCTS OBTAINED BY DIFFERENT STARTER CULTURES, Milanović, S., Iličić, M., Kravić, S., Suturović, Z., Kanurić, K., Vukić, V., Hrnjez, D., Ranogajec, M.

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INDOOR EMISSION OF PREPRESS PROCESSES, Kecić, V., Aksentijević, S., Oros, I., Kiurski, J.

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DNA BASED METHODS FOR FOOD COMPONENTS IDENTIFICATION, Boldura O.M., Popescu S., Lazar A., Balta C.

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EFFECTS OF SUBCHRONIC ACRYLAMIDE TREATMENT ON CUTANEOUS MAST CELLS, Rajković, V., Kovač, R., Koledin, I., Stošić, M., Matavulj, M.

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SUBCHRONIC ACRYLAMIDE TREATMENT ALTERS THE LIVER GLYCOGEN IN JUVENILE RATS, Kovač, R., Rajković, V., Koledin, I., Stošić, M., Matavulj, M.

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BENEFICIAL EFFECTS OF DIFFERENT HERBAL PRODUCTS MADE FROM MEDICINAL PLANTS, Krisch, J., Gábor, E., Farkas, E., Vágvölgyi, Cs.



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SPECTROPHOTOMETRIC EVALUATION OF THE PHOTOCATALYTICAL ACTIVITY AND OPTICAL CHARACTERISTICS OF TiO₂ COATING ON TARGET FAÇADE PAINTS, Lončar, E., Vučetić, S., Rudić, O., Vulić, T., Ducman, V., Ranogajec, J.

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HEALTH SAFETY OF DRINKING WATER FOUNTAINS SAMPLES IN SOUTH BACKA DISTRICT DURING 2008-2012, Živadinović, E., Bijelović, S., Dragić, N.

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HYGIENIC ESTIMATION OF THE STATE OF HEALTH OF CHILDREN IN RELATION TO DRINKING WATER, Friptuleac, Gr., Bernic, V.

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OCCURRENCE AND DISTRIBUTION OF PHARMACEUTICALS IN ENVIRONMENTAL WATERS IN NORTHERN PART OF SERBIA, Petrović, M., Škrbić, B., Živančev, J., Barcelo, D.

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10.20-11.20 **POSTER SESSION III**

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WHAT KIND OF MILK CAN PREVENT INFANT'S SIDEROPENIC ANEMIA, Milankov, O., Savić, R., Bjelica, M.

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PERFLUORINATED COMPOUNDS IN BABY FOOD PRODUCED IN SERBIA, Farre, M., Pérez, F., Škrbić, B., Đurišić-Mladenović, N.

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EVALUATION OF METAL CONCENTRATION AND ANTIOXIDANT ACTIVITY OF THREE COMMERCIAL MUSHROOM PREPARATIONS FROM PHARMACIES IN VOJVODINA, Stilinović, N., Pavlović, N., Vukmirović, S., Škrbić, B.

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NUTRITIONAL ANALYSIS OF INFANT FORMULAS, Torović, Lj., Mihajlović, B., Hornjak, V., Jovanović, Lj., Trajković-Pavlović, Lj.

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LEVEL OF HEAVY ELEMENTS IN PORTUGUESE AND SERBIAN TRADITIONAL SAUSAGES, Škrbić, B., Fraqueza, M. J., Đurišić-Mladenović, N., Rui, B., Mrmoš, N.



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MINERAL AND TRACE ELEMENT COMPOSITION OF INFANT FORMULAS, Torović, Lj., Lukić, D., Mihajlović, B., Dimitrijević, Lj., Velicki, R.

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MULTI-MYCOTOXINS METHOD BASED ON UHPLC-HESI-MS/MS FOR THE QUANTITATIVE DETERMINATION OF MYCOTOXINS IN DIFFERENT TYPES OF NUTS, Škrbić, B., Živančev, J., Godula, M.

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ASSESSMENT OF NUTRIENTS IN COMMERCIAL INFANT FOODS, Mihajlović, B., Torović, Lj., Hornjak, V., Milojević-Miodragović, G., Popović, M.

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EFFECTS OF TWO MITOCHONDRIAL TOXINS ON CORTICAL ELECTRICAL ACTIVITY OF RATS IN ACUTE AND REPEATED APPLICATION, Mikite, K., Papp, A.

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THE IMPLICATIONS OF SOME RISKY BEHAVIORS FOR THE STATE OF HEALTH OF PUPILS, Hurezeanu, A., Prejbeanu, I.

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ASPECTS OF THE RELATIONSHIP BETWEEN THE NEUROPSYCHIC DEVELOPMENT AND THE BEHAVIOR OF STUDENTS AT PUBERTY AND PUPILS, Hurezeanu, A., Prejbeanu, I.

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EFFECT OF FOUR ESSENTIAL OILS AND THEIR MAIN COMPONENTS ON BACTERIAL AND YEAST BIOFILM FORMATION, Kerekes, E.B., Takó, M., Vágvölgyi, Cs., Krisch, J.

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TRANSESTERIFICATION ACTIVITY OF EXTRACELLULAR LIPASE ENZYMES FROM MUCOROMYCOTINA FUNGI, Takó, M., Kotogán, A., Petkovits, T., Vágvölgyi, Cs., Papp, T.

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GENERATION OF OVER-EXPRESSION AND KNOCK-OUT LIBRARY IN THE HUMAN PATHOGENIC YEAST CANDIDA PARAPSILOSIS, Tóth R., Horváth P., Vágvölgyi Cs., Gácser A.

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EXPRESSION OF DIFFERENT *XANTHOPHYLLOMYCES DENDRORHOUS CRTS* GENES IN THE CAROTENOID PRODUCING *MUCOR CIRCINELLOIDES*, Csernetics, Á., Tóth, E., Molnár, R., Szekeres, A., Vágvölgyi, Cs., Papp, T.

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CHARACTERIZATION OF VIRULENCE DIFFERENCES IN THE *CANDIDA PARAPSILOSIS SENSU LATO* SPECIES, Csonka, K., Tóth, A., Vágvölgyi, Cs., Gácser, A.



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**STEREOLOGICAL ANALYSIS OF ENDOCRINE PANCREAS AFTER SUBCHRONIC
ACRYLAMIDE TREATMENT**, Stošić, M., Rajković, V., Kovač, R., Koledin, I., Matavulj, M.

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**INVESTIGATION OF THE POLYUNSATURATED FATTY ACID PRODUCTION AND PROFILE OF
STRAINS BELONGING TO MORTIERELLALES**, Nyilasi, I., Kovács, S.A., Juhász, H., Kristó, E.K.,
Szekeres, A., Bencsik, O., Vágvolgyi, Cs., Papp, T.

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**THE CONNECTION BETWEEN TAM RECEPTORS AND *CANDIDA* COLONIZATION IN ORAL
SQUAMOUS CELL CARCINOMAS**, Szenzenstein, J., Papp, H., Novák, P., Berkovits, Cs., Nagy, K.,
Gácsér, A.

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**MOLECULAR IDENTIFICATION AND GENETIC VARIABILITY OF *ASPERGILLUS* ISOLATES
CAME FROM KERATITIS CASES FROM INDIA**, Baranyi, N., Samu, A., Kocsubé, S., Szekeres, A.,
Kredics, L., Vágvolgyi, C., Manikandan, P., Varga, J.

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SURFACE EXPRESSION OF Kv4 ION CHANNELS MODULATED BY SAP97 AND HMGB1, Szűts,
V., Bencsik, O., Ötvös, F., Bolstad, M., Horváth, A., Halasy, K., Papp, T., Szekeres, A., Vágvolgyi,
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**FATTY ACID COMPOSITION OF PORTUGUESE AND SERBIAN FERMENTED AND SMOKED
MEAT SAUSAGES**, Alves, S.P., Fernandes, M.J., Đurišić-Mladenovic, N., Škrbić, B., Bessa, R.J.B.,
Fraqueza, M.J.