

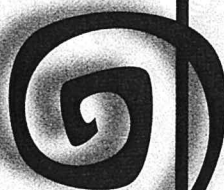
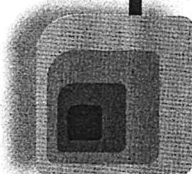
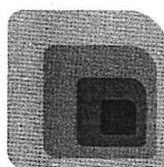
CEFood

Congress

Novi Sad, Serbia
23 - 26 May, 2012

ABSTRACT BOOK

of 6th Central European
Congress on Food



ISBN 978-86-7994-028-5

6TH CENTRAL EUROPEAN CONGRESS ON FOOD, Novi Sad 2012, SERBIA

Publisher

University of Novi Sad, Institute of Food Technology
Bulevar cara Lazara 1.
21000 Novi Sad, Serbia

Main editor

Dr. Jovanka Lević

Editors

prof. dr Viktor Nedović
dr Nebojša Ilić
dr Vesna Tumbas
Ana Kalušević, dipl. ing.

Abstract/Paper Review

All abstracts and papers are reviewed by the International Board of Reviewers

Technical editor

Zdenka Marković

Cover

Boris Bartula, BIS, Novi Sad, Serbia

Printed by

"Futura" – Novi Sad, Serbia

Number of copies

600 copies

CONGRESS PRESIDENT

Prof. Dr. Viktor Nedović, Faculty of Agriculture, University of Belgrade, Serbia

INTERNATIONAL SCIENTIFIC COMMITTEE

Prof. Dr. Peter Raspor, Biotechnical Faculty, University of Ljubljana, Slovenia
Prof. Dr. Roger Fenwick, Institute of Food Research, Norwich, United Kingdom
Prof. Dr. Dietrich Knorr, Berlin University of Technology, Germany
Prof. Dr. Brian McKenna, University College Dublin, Ireland
Prof. Dr. Viktor Nedović, Faculty of Agriculture, University of Belgrade, Serbia;
Dr. Jovanka Lević, Institute of Food Technology in Novi Sad, Serbia
Prof. Dr. Gustavo V. Barbosa-Cánovas, Center For Nonthermal Processing of Food, Washington State University, Usa
Prof. Dr. José Aguilera, Catholic University of Chile, Chile
Prof. Dr. Eyal Shimoni, Department Of Biotechnology And Food Engineering, Technion – Israel Institute of Technology, Israel
Dr. Nebojša Ilić, Institute of Food Technology in Novi Sad, Serbia
Dr. Vesna Tumbas, Faculty of Technology, University of Novi Sad, Serbia
Prof. Dr. Branko Bugarski, Faculty of Technology And Metallurgy, University of Belgrade, Serbia
Dr. Juan Valverde, Teagasc, Ireland
Prof. Dr. Laura Piazza, Department of Food Science And Technology, State University of Milan, Italy
Prof. Dr. Taoukis Petros, School of Chemical Engineering, National Technical University of Athens, Greece
Dr. Anamarija Mandić, Institute of Food Technology in Novi Sad, Serbia
Dr. Aleksandra Mišan, Institute of Food Technology in Novi Sad, Serbia
Dr. Marijana Sakač, Institute of Food Technology in Novi Sad, Serbia
Prof. Dr. Slađana Šobajić, Faculty of Pharmacy, University of Belgrade, Serbia
Prof. Dr. Francesco Capozzi, Faculty of Agriculture, University of Bologna, Italy
Dr. Huub Lelieveld, GHI Association Netherlands and Effort Executive Committee, Netherlands
Prof. Dr. Dominique Bauchart, INRA, Clermont Ferrand, France
Prof. Dr. Bogdan Yegorov, Odessa National Academy of Food Technologies, Ukraine
Prof. Dr. Mark Shamtshyan, St. Petersburg State Institute of Technology, Technical University of Moscow, Russia
Prof. Dr. Jana Hajslova, Institute of Chemical Technology, Prague, Czech Republic
Prof. Dr. Giovanni Dinelli, Department of Agroenvironmental Sciences and Technologies, University of Bologna, Italy
Prof. Dr. Željko Knez, Faculty of Chemistry and Chemical Engineering

Prof. Dr. Gerhard Schleining, Boku, Vienna, Austria

Prof. Dr. Živko Nikolov, Department of Biological & Agricultural Engineering, Texas A&M University, USA

Prof. Dr. András Salgó, Faculty of Chemical and Biochemical Engineering, Budapest University of Technology and Economics, Hungary

Dr. Nastasia Belc, Institute of Food Bioresources, Bucharest, Romania

Prof. Dr. Vladimir Mrša, Faculty of Food Technology and Biotechnology, University of Zagreb, Croatia

Prof. Dr. Draženka Komes, Faculty of Food Technology And Biotechnology, University of Zagreb, Croatia

Prof. Dr. Radoslav Grujić, Faculty of Technology Zvornik, University of East Sarajevo, BiH Republic of Srpska

Prof. Dr. Vladimir Kakurinov, Veterinary Faculty, St. Kliment Ohridski University, Macedonia

Prof. Dr. Vural Gökmen, Food Engineering Department, Hacettepe University, Turkey

Pof. Dr. Kemal Çelik, Faculty of Agriculture, Çanakkale Onsekiz Mart University, Turkey

Prof. Dr. Ida Leskošek Čukalović, Faculty of Agriculture, University of Belgrade, Serbia

Prof. Dr. Spasenija Milanović, Faculty of Technology, University of Novi Sad, Serbia

Prof. Dr. Miroslav Vrnčić, Faculty of Chemistry, University of Belgrade, Serbia

Dr. Vesna Matekalo Sverak, Institute of Meat Hygiene And Technology, Belgrade, Serbia

Prof. Dr. Dragoljub Obradović, Faculty of Agriculture, University Of Belgrade, Serbia

Prof. Dr. Mlomić Nikšić, Faculty of Agriculture, University of Belgrade, Serbia

Prof. Dr. Predrag Puđa, Faculty of Agriculture, University of Belgrade, Serbia

Prof. Dr. Andreja Rajković, Faculty of Agriculture, University of Belgrade, Serbia

Prof. Dr. Sonja Dijas, Faculty of Technology, University of Novi Sad, Serbia

Dr. Milica Radosavljević, Maize Research Institute Zemun Polje, Serbia

Prof. Dr. Ljiljana Petrović, Faculty of Technology, University of Novi Sad, Serbia

Prof. Dr. Marija Škrinjar, Faculty of Technology, University of Novi Sad, Serbia

Prof. Dr. Svetlana Živanović, Department of Food Science and Technology, The University of Tennessee, USA

Prof. Dr. Neda Mimica Dukić, Faculty of Sciences, Novi Sad, Serbia

Dr. Marija Bodroža Solarov, Institute of Food Technology in Novi Sad, Serbia

INTERNATIONAL ADVISORY BOARD

Prof. Dr. Peter Raspor, Biotechnical Faculty, University of Ljubljana, Slovenia

Prof. Dr. Diana Banati, Corvinus University of Budapest, Hungary

Prof. Dr. Kostadin Fikiin, Refrigeration Science and

Prof. Dr. Radivoje Mitrović, Ministry of Education And Science, Government of The Republic Of Serbia

Prof. Dr. Nada Dragović, Ministry Of Education and Science, Government of The Republic of Serbia

Prof. Dr. Tibor Sabo, Ministry of Education And Science, Government of The Republic of Serbia

Prof. Dr. Dragoslav Petrović, Provincial Secretariat for Science And Technological Development, Autonomous Province of Vojvodina, Serbia

EXECUTIVE COMMITTEE

Dr. Jovanka Lević, Institute of Food Technology in Novi Sad, Serbia

Prof. Dr. Viktor Nedović, Faculty of Agriculture, University of Belgrade, Serbia

Dr. Vesna Tumbas, Faculty of Technology, University of Novi Sad, Serbia

Technology Division, Technical University of Sofia, Bulgaria

Prof. Dr. Kata Galić, Faculty of Food Technology and Biotechnology, University of Zagreb, Croatia

Prof. Dr. Peter Šimko, Food Research Institute, Bratislava, Slovakia

Prof. Dr. Miroslav Vesković, Rector of the University of Novi Sad, Serbia

Prof. Dr. Nebojša Ralević, Faculty of Agriculture, University of Belgrade, Serbia

Dr. Jovanka Lević, Institute of Food Technology in Novi Sad, Serbia

Prof. Dr. Zoltan Zavargo, Faculty of Technology, University of Novi Sad, Serbia

Prof. Dr. Ivanka Popović, Faculty of Technology And Metallurgy, University of Belgrade, Serbia

Dr. Radoslav Cerović, Maize Research Institute Zemun Polje, Serbia

Prof. Dr. Miodrag Janković, Faculty of Agriculture, University of Belgrade, Serbia

Dr. Nebojša Ilić, Institute of Food Technology in Novi Sad, Serbia

Ana Kalušević, Faculty of Agriculture, University of Belgrade, Serbia

ORGANIZING COMMITTEE

Dr. Olivera Đuragić, Institute of Food Technology in Novi Sad, Serbia
Bojana Kokić, Institute of Food Technology in Novi Sad, Serbia
Predrag Ikončić, Institute of Food Technology in Novi Sad, Serbia
Dr. Tanja Petrović, Faculty of Agriculture, University of Belgrade, Serbia
Olivera Šimurina, Institute of Food Technology in Novi Sad, Serbia
Saša Despotović, Faculty of Agriculture, University of Belgrade, Serbia
Dr. Mirjana Pešić, Faculty of Agriculture, University of Belgrade, Serbia
Aleksandra Novaković, Institute of Food Technology in Novi Sad, Serbia
Tajana Tasić, Institute of Food Technology in Novi Sad, Serbia
Slavica Stedanović, Msc, Institute of Food Technology in Novi Sad, Serbia
Miona Belović, Institute of Food Technology in Novi Sad, Serbia
Dubravka Jambrec, Institute of Food Technology in Novi Sad, Serbia

CONGRESS ORGANIZERS:

Faculty of Agriculture, University of Belgrade
Institute of Food Technology, University of Novi Sad

Nataša Nedeljković, Institute of Food Technology in Novi Sad, Serbia

Tamara Dapčević, Institute of Food Technology in Novi Sad, Serbia
Tanja Radusin, Institute of Food Technology in Novi Sad, Serbia
Dr. Slađana Žilić, Maize Research Institute Zemun Polje, Serbia
Jovana Vučković, Institute of Food Technology in Novi Sad, Serbia
Dr. Zorica Radulović, Faculty of Agriculture, University of Belgrade, Serbia
Dr. Verica Đorđević, Faculty of Technology And Metallurgy, University of Belgrade, Serbia
Zdenka Marković, Institute of Food Technology in Novi Sad, Serbia
Steva Lević, Faculty of Agriculture, University of Belgrade, Serbia
Željka Đukić, Ministry of Education and Science, Serbia
Dr. Jelena Pejin, Faculty of Technology, University of Novi Sad, Serbia
Dr. Ivana Sedej, Institute of Food Technology in Novi Sad, Serbia

Faculty of Technology, University of Novi Sad

SAFT, Serbian Association of Food Technologists

Faculty of Technology and Metallurgy, University of Belgrade

CONGRESS SUPPORTED BY:

Ministry of Education and Science, Republic of Serbia

Vojvodina Province, Provincial Secretariat for Science and Technological Development - Novi Sad

Sojaprotein A.D., Bečeji, Serbia

Institute of Field and Vegetable Crops, Novi Sad, Serbia

Cimbria HEID GMBH, Austria

LECO, Novi Sad, Serbia

Delta Agrar, Beograd, Serbia

Institute of Food Research, Norwich-UK

Maize Research Institute „Zemun Polje“, Zemun polje, Serbia

CEI, Central European Initiative

Center for the Promotion of Science, Belgrade, Serbia (Enjoy Food Science event)

IUFOST, International Union of Food Science and Technology

BioMérieux, Belgrade, Serbia

Cluster d.o.o, Belgrade, Serbia

NOACK&Co South East d.o.o, Novi Sad, Serbia

Superlab, Belgrade, Serbia

Promedia, Kikinda, Serbia

Bühler AG, Belgrade, Serbia

Shimadzu branch, Belgrade, Serbia

V.I.A., Belgrade, Serbia

EVALUATION OF ANTIFUNGAL ACTIVITY OF OREGANUM HERACLEOTICUM L. ESSENTIAL OIL AGAINST SOME FOODBORNE FUNGI		
Ivana Čabarkapa, Marija Škrinjar, Vladislava Šošo, Nevena Blagojević	226	237
SHEEP MILK QUALITY/QUANTITY AND SUBCLINICAL MASTITIS		
Voutzourakis Nikolaos, Tzanidakis Nikolaos, Sofiraki Smaragda, Gillian Butler, Stefanakis Alexandros	227	
PESTICIDE DETECTION IN WATER AND SEDIMENT		
Milena Stošić, Nevena Šenk, Marija Okuka, Dragan Adamović, Dušan Milovanović, Mirjana Vojinović - Miloradov, Jelena Kiurski	228	
CONTENT OF MERCURY IN MARINE FISH AVAILABLE AT SERBIAN MARKET		
Saša Janković, Tajana Radičević, Srđan Stefanović, Dragica Nikolić, Tamara Bošković, Zoran Petrović	229	
PRESENCE OF LISTERIA MONOCYTOGENES IN MEAT AND MINCED MEAT PRODUCTS		
Radovan Čobanović, Marija Marković, Aleksandra Bauer	230	240
DETERMINATION OF CARBON, HYDROGEN, OXYGEN AND NITROGEN STABLE ISOTOPE RATIOS IN FOOD BY IRMS		
Maja Lojović, Biljana Marošević, Aleksandra Bauer	231	241
IMPORTANCE AND METHODS FOR FRUIT JUICE EVALUATION IN FRUIT JUICES, NECTARS AND RELATED PRODUCTS		
Marija Vujić-Stefanović, Gordana Nović, Milana Stojičić	232	242
ANALYTICAL RESULTS OVERVIEW OF FRUITS AND VEGETABLES PRODUCED IN SERBIA		
Jelena Banic Simićić, Katalin Sabo, Vladimir Stankov, Dragana Ujsasi, Agata Bogнар, Biljana Marošević	233	243
STUDY OF THE MICROBIOLOGICAL PROFILE OF THE FRESH FRUITS GAINED FROM SMALL RETAIL ESTABLISHMENTS, AND THE EFFECTS OF THEIR WASHING		
Marija Ratkova, Pavle Sekulovski, Dean Jankuloski, Ljupco Angelovski, Sandra Kostova Mirko Prodanov	234	244
INVESTIGATION ON CHANGES OF TOTAL WHEAT QUALITY CAUSED BY MOLD CONTAMINATION		
M. Šarić, M. Menkovska, T. Stojanović, N. Hladni	235	245
PESTICIDE RESIDUES IN ORGANIC AND CONVENTIONAL FRUIT AND VEGETABLES ON THE MARKET OF VOJVODINA		
Ljilja Torović	237	
DETERMINATION WITH GAS CHROMATOGRAPHIC METHOD OF METHANOL AND ETHANOL AMOUNT IN JUICE OF SOME GRAPE VARIETIES GROWN IN TURKEY		
Ozcan Baris Cifti, Aydin Akin	238	
DETERMINATION OF THE MIGRATION OF PRIMARY AROMATIC AMINES FROM POLYAMIDE KITCHENWARE USING LIQUID CHROMATOGRAPHY - TANDEM MASS SPECTROMETRY		
Es Van Hoeck, Tina N'Goy, Caroline Evrard, Fabien Bolle, Joris Van Loco	239	
PRESENCE OF L. MONOCYTOGENES AND LISTERIA SPP. IN READY TO EAT VEGETABLES SOLD IN SUPERMARKETS IN OSIEK, CROATIA		
Mira Kovačević, Jelena Burazin, Mirela Šimović, Vlasta Pilžota	240	
SURVIVAL AND GROWTH OF LISTERIA MONOCYTOGENES IN READY-TO-EAT VEGETABLES		
Mira Kovačević, Jelena Burazin, Mirela Šimović, Vlasta Pilžota	241	
INHIBITORY ACTIVITY OF THE BASIL EXTRACT (OCIMUM BASILICUM L.) ON PENICILLIUM SPECIES ISOLATED FROM FOOD		
Sanjica Kocić-Tanackov, Gordana Dimitić, Dušanka Pejčin, Ljiljana Močović, Jelena Pejčin, Ilija Tanackov	242	
QUALITY CONTROL OF THE CROISSANT (A PASTRY BAKERY PRODUCT)		
Abdoul Abu-Ghoush, Suhad Abu-Mweis	243	
INFLUENCE OF THE HERB EXTRACT ON INHIBITION OF BEEF MEAT SPOilage - POTENTIAL SOURCE OF NATURAL PRESERVATIVE		
Sanjica Kocić-Tanackov, Gordana Dimitić, Dušanka Pejčin, Ljiljana Močović, Jelena Pejčin, Ilija Tanackov	244	
AMINUM CONTENTS IN THE LIVER AND KIDNEY FOR FIVE REARED PIGS FROM VOJVODINA		
M. Tomović, Marija R. Jokačević, Ljiljana S. Petrović, Mila S. Jokačević, Zanko S. Kevrešan, Snežana B. Škaljac, Branislav V. Šojić	245	

11

PESTICIDE DETECTION IN WATER AND SEDIMENT

Milena Stošić, Nevena Šenk, Marija Okuka, Dragan Adamović, Dušan Milovanović, Mirjana Vojinović - Miloradov, Jelena Kiurski

Faculty of Technical Sciences, Department of Environmental engineering and occupational safety, University of Novi Sad

Chlorotriazine herbicide atrazine (IUPAC: 6-chloro-N2-ethyl-N4-isopropyl-1,3,4-triazine-2,4-diamine) was excessively used on crop fields to control broadleaf weeds in the production of corn, sugar cane and sorghum. Due to its heavy use, the toxicological profile of this herbicide has been investigated over the years. Intensive use of pesticides has resulted in their presence in water, soil and air. Number of these chemicals can act as endocrine disrupting compounds. Endocrine disrupting chemicals are substances in our environment, food and consumer products that interfere with hormone biosynthesis and metabolism resulting in an alternation from normal homeostatic control or reproduction. What makes endocrine disruptors so significant is that they are not bound by the classic toxicological assumption that supports threshold-based system of determining chemical toxicity, they are often more active at lower doses, far beneath of those, which are traditional concern to toxicologists. The results gained by The Joint Danube Survey target analysis of water and soil show no presence of atrazine in Novi Sad region. The most likely reasons for no detection of this substance could be target sampling method, which might be inappropriate in this case, as well as short half-life of atrazine. Prior research in this field show the adverse effect of atrazine in lower doses than limit of detection in used method, which is why a different sampling and detection methods should be used for more valid results.

Acknowledgements

This research has been supported by the Ministry of Science and Technological Development of the Republic of Serbia within the project: Improvement and development of hygienic and technological procedures in production of animal originating foodstuffs with the aim of producing high-quality and safe products competitive on the global market (III46009).

