



WROCLAW UNIVERSITY
OF ENVIRONMENTAL
AND LIFE SCIENCES



WROCLAW
MEDICAL UNIVERSITY



Man-Food-Health

4th International Conference

Wrocław, Poland, 29.03.2019

PROGRAMME

Organizers:

- Chair and Department of Medical Biochemistry, Wroclaw Medical University, Poland
- Department of Animal Food Products and Quality Management, - Department of Chemistry
Wroclaw University of Environmental and Life Sciences, Poland
- Foundation "Semper Naturalae", Wroclaw, Poland

<http://zieloneforum.pl>



We cordially invite you to participate in the 4th International Conference "Man Food Health" devoted to the problems of food quality in human health prophylaxis, regional and traditional products in the aspects of tourism and culinary routes as well as human health in the context of its anatomy and biochemistry.

The purpose of the meeting is to exchange experiences regarding the food and health of the people. We are currently observing an intense increase in the number of metabolic and autoimmune diseases, which causes huge health, economic and social costs, and an effective preventive measure may be a proper diet and natural food. As organizers of the conference, we will do our best to make Wrocław a place for regular meetings, discussions and exchange of experiences about the latest dietary trends, health threats and their chronic consequences caused by improper diet.

Dr Maciej Oziembłowski

Dr Paweł Dąbrowski

Organizing Committee

HONORARY COMMITTEE

Prof. Tadeusz Trziszka - Rector of Wroclaw University of Environmental and Life Sciences

Prof. Andrzej Gamian - Head of the Chair and Department of Medical Biochemistry, Wroclaw Medical University

SCIENTIFIC COMMITTEE

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Dr Maciej Oziembłowski - Wroclaw University of Environmental and Life Sciences

Dr Ryszard Kacała - Wroclaw Medical University

Members:

Dr Paweł Dąbrowski - Wroclaw Medical University

Dr Anna Marcinkowska - Wroclaw Medical University

Prof. Mirosław Miller - Wroclaw University of Environmental and Life Sciences

Prof. Agnieszka Nawirska-Olszańska - Wroclaw University of Environmental and Life Sciences

Dr Anna Salejda - Wroclaw University of Environmental and Life Sciences

Prof. Antoni Szumny - Wroclaw University of Environmental and Life Sciences

Dr Sławomir Woźniak - Wroclaw Medical University

Prof. MUDr Zdenek Zadak, CSc - Charles University, Faculty of Medicine, Czech Republic

ORGANIZING COMMITTEE

Chairmen:

Dr Maciej Oziembłowski – Wrocław University of Environmental and Life Sciences

Dr Paweł Dąbrowski - Wrocław Medical University

Vice-Chairman:

Dr Ryszard Kacała - Wrocław Medical University

Secretaries:

Dr Anna Marcinkowska - Wrocław Medical University

Dr Anna Salejda - Wrocław University of Environmental and Life Sciences

Members:

M.Sc. Monika Mazur - Wrocław University of Environmental and Life Sciences

Prof. Mirosław Miller - Wrocław University of Environmental and Life Sciences

Prof. Agnieszka Nawirska-Olszańska - Wrocław University of Environmental and Life Sciences

Prof. Antoni Szumny - Wrocław University of Environmental and Life Sciences

Dr Sławomir Woźniak – Wrocław Medical University

Prof. Joanna Wyka - Wrocław University of Environmental and Life Sciences

M.Sc. Anna Zwyrzykowska-Wodzińska - Wrocław University of Environmental and Life Sciences

STN Anatomia-Klinika-Nauka Wrocław Medical University

STN “Q Food Quality” - Wrocław University of Environmental and Life Sciences

FRAMEWORK CONFERENCE PROGRAMME

Friday, 29/03/2019

Place of the meeting:

Wroclaw University of Environmental and Life Sciences

Scientific and Didactic Center

Building C - Aula of John Paul II

pl. Grunwaldzki 24A, Wrocław, Poland

8.00-9.00 Registration of Participants

9.00-9.15 Opening of the conference

9.15-10.45 Session I: **Human health in the context of the anatomy and biochemistry**

Chairperson: Agnieszka Nawirska-Olszańska

The gut-brain axis in the anatomical context

Ryszard Kacała

Department of Human Morphology and Embryology, Wrocław Medical University, Poland

Intestinal microbiota in the context of its impact on metabolism

Anna Marcinkowska

Department of Medical Biochemistry, Wrocław Medical University, Poland

The evaluation of the living conditions of the inhabitants of old Wrocław city based on developmental defects, micro-injuries of the dental crowns and the content of stable isotopes: carbon and oxygen in the enamel

Paweł Dąbrowski¹, Joanna Grzelak², Maciej Krajcarz³, Michał Kulus¹, Maciej Oziembłowski⁴

¹Department of Human Morphology and Embryology, Wrocław Medical University, Poland

²Department of Dental Anatomy Wrocław Medical University, Poland

³Institute of Geological Sciences Polish Academy of Sciences, Research Centre in Warsaw, Poland

⁴Department of Animal Products Technology and Quality Management, Wrocław University of Environmental and Life Sciences, Poland

Immunology and microbiome of the gastrointestinal mucosa

Andrzej Myc¹, Agnieszka Razim²

¹University of Michigan Nanotechnology Institute for Medicine and Biological Sciences Ann Arbor, USA

²Laboratory of Medical Microbiology, Hirszfeld Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, Poland

10.45-11.00 Coffee break

11.00-13.00 Session II: **Food quality in human health prophylaxis**

Chairperson: Paweł Dąbrowski

Bioactive compounds in herbs - analytical and practical problems

Antoni Szumny

Department of Chemistry, Wrocław University of Environmental and Life Sciences, Poland

Culinary Trail "Tastes of Lower Silesia"

Rajmund Papiernik

Director of the Lower Silesian Tourist Organization, Wrocław, Poland

Local food and culinary trails of Subcarpathia region

Krzysztof Zieliński

Association Pro Carpathia, Rzeszów, Poland

Quality of convenient poultry meat products created with the addition of food industry by-products

Małgorzata Korzeniowska

Faculty of Biotechnology and Food Technology, Wrocław University of Environmental and Life Sciences, Poland

13.00-13.45 Lunch break

13.45-16.00 Session III: **Effect of food components in health and disease**

Chairperson: Joanna Grzelak

Global-scale arsenic pollution and its potential effects on children under 3 years of age and celiac patients

Francisco M. Burlo, Angel A. Carbonell-Barrachina

Department of Agro-Food Technology, Universidad Miguel Hernández de Elche (UMH), Orihuela, Alicante, Spain

Identification and potential role of unconventional proanthocyanidins in wine

Edoardo Longo¹, Fabrizio Rossetti², Vakare Merkyte¹, Prudence F. Tchouakeu Betnga¹, Emanuele Boselli¹

¹Faculty of Science and Technology, Free University of Bolzano, Piazza Università, 5 - 39100 Bolzano, Italy

²Department of Agricultural, Food and Environmental Sciences, Università Politecnica delle Marche, Via Brecce Bianche - 60131 Ancona, Italy

The protein intake in health and disease - two sides of the coin

Radomír Hyšpler, Alena Tichá, Adela Tomasova, Zdenek Zadák

Faculty of Medicine and University Hospital, Charles University, Czech Republic

Terpenes and their derivatives in metabolism and nutrition

Zdenek Zadák, Tichá Alena and Radomir Hyšpler

Faculty of Medicine and University Hospital, Charles University, Czech Republic

Effects of plant extracts on oxidant-induced stress in human lymphocyte cells

A. Zwyrzykowska-Wodzińska¹, M.Mazur², A.M.Salejda², A. Tichá³, R. Hyšpler³, Z. Zadák³, R. Štětina⁴

¹Department of Environment Hygiene and Animal Welfare, Wrocław University of Environmental and Life Sciences, Poland

²Department of Biotechnology and Food Sciences, Wrocław University of Environmental and Life Sciences, Poland

³Department of Clinical Biochemistry and Diagnostics, Charles University, Faculty of Medicine and University Hospital, Czech Republic

⁴Department of Toxicology, Faculty of Military Health Sciences, University of Defence, Czech Republic

16.00-16.15 Coffee break

16.15-17.15 Session IV: Presentation of posters (2-3 min. each)

Chairperson: Sławomir Woźniak, Maciej Oziembłowski

Assessment of awareness of the use of analgesics and behaviours related to their use amongst female students in Poland

Magdalena Biernacka, Jakub Jarmolowicz, Kacper Karkut, Julia Kula, Marta Malicka Anna Rohan

Wrocław Medical University, Poland

Compulsive eating

Julia Bilka

Wrocław Medical University, Poland

Biotechnological modification of the properties of flavonoid compounds present in food

Monika Dymarska, Tomasz Janeczko, Edyta Kostrzewa-Susłow

Department of Chemistry, Wrocław University of Environmental and Life Sciences, Poland

Microbial transformation of flavones with chlorine atom

Agnieszka Krawczyk-Łebek, Monika Dymarska, Tomasz Janeczko, Edyta Kostrzewa-Susłow

Department of Chemistry, Wrocław University of Environmental and Life Sciences, Poland

UPLC-PDA-Q/TOF-MS identification of bioactive compounds and on-line UPLC-ABTS assay in *fallopia japonica* houtt and *fallopia sachalinensis* (f.schmidt) leaves and rhizomes grown in Poland

¹Sabina Lachowicz, ²Jan Oszmiański, ²Aneta Wojdyło, ³Tomasz Cebulak, ⁴Lidia Hirnle, ⁵Maciej Siewiński

¹Department of Fermentation and Cereals Technology, Wrocław University of Environmental and Life Sciences, Poland

²Department of Fruit, Vegetables and Nutraceutical Technology, Wrocław University of Environmental and Life Sciences, Poland

³Department of Food Technology and Human Nutrition, Faculty of Biology and Agriculture, University of Rzeszów, Poland

⁴Department and Clinic of Gynaecology and Obstetrics, Wrocław Medical University, Poland

⁵Department of Basic Sciences, Wrocław Medical University, Poland

Distribution of bioactive compounds and antioxidant capacity in fruit peel, flesh and seeds of selected saskatoon berry (*amelanchier alnifolia* nutt.) genotypes

¹Sabina Lachowicz, ²Jan Oszmiański, ³Łukasz Seliga, ³Stanisław Pluta, ¹Zygmunt Gil, ¹Ewa Pejcz, ¹Radosław Spychaj, ¹Agata Wojciechowicz-Budzisz, ¹Anna Czubaszek

¹Department of Fermentation and Cereals Technology, Wrocław University of Environmental and Life Sciences, Poland

²Department of Fruit, Vegetables and Nutraceutical Technology, Wrocław University of Environmental and Life Sciences, Poland

³Research Institute of Horticulture, Department of Horticultural Crop Breeding, Skierniewice, Poland

Product innovation - ready-to-drink - cold brew coffee

Damian Maksimowski

Cold brew coffee/ Etno Cafe sp. z o.o

Nutraceutical potential of various seed cakes

Klaudia Masztalerz, Joanna Majerska, Adam Figiel

Institute of Agricultural Engineering, Wrocław University of Environmental and Life Sciences, Poland

Anticancer activity of microbiologically functionalized tetramethyl- γ -lactones

¹Marcelina Mazur, ¹Witold Gładkowski, ²Aleksandra Pawlak, ²Bożena Obmińska-Mrukowicz, ¹Czesław Wawrzeńczyk

¹Department of Chemistry, Wrocław University of Environmental and Life Sciences, Poland

²Department of Pharmacology and Toxicology, Wrocław University of Environmental and Life Sciences, Poland

Comparison of bioactive properties and antioxidant activity of elderberry preparations available in the market

¹Agnieszka Nawirska-Olszańska, ¹Aleksandra Smorowska, ²Maciej Oziębłowski

¹Department of Fruit, Vegetable and Nutraceuticals Technology,

²Department of Animal Food Products and Quality Management, Wrocław University of Environmental and Life Sciences

High protein diet- concrete lifebuoy

Aneta Nowak, Ada Wołowicz

Wrocław Medical University, Poland

Nutritional properties of dried broccoli stems vacuum impregnated with onion juice

^{1*}Marta Paślawska, ²Agnieszka Nawirska-Olszańska, ¹Kinga Sala, ¹Bogdan Stępień

¹Institute of Agricultural Engineering, Wrocław University of Environmental and Life Sciences, Poland,

²Department of Fruit, Vegetables and Nutraceutical Technology, Wrocław University of Environmental and Life Sciences, Poland

Wpływ witaminy D₃ na funkcjonowanie organizmu oraz jej rola w chorobach XXI wieku

Diana Sawczuk

Uniwersytet Medyczny im. Piastów Śląskich we Wrocławiu

The effects of amiodarone on thyroid dysfunction

¹Monika Sępek , ²Zuzanna Sycz, ¹Jerzy Rudnicki

¹Department of General, Minimally Invasive and Endocrine Surgery, Wrocław Medical University

²Department of Biology and Medical Parasitology, Wrocław Medical University

The effect of anthocyanins on virulence factors of uropathogenic *escherichia coli* strains

¹Zuzanna Sycz, ²Monika Sępek, ¹Dorota Wojnicz

¹Department of Biology and Medical Parasitology, Wrocław Medical University, Poland

²Department of General, Minimally Invasive and Endocrine Surgery, Wrocław Medical University, Poland

Role of elevated norepinephrine and decreased melatonin level in the regulation of metabolism

Wojciech Szlasa, Miriam Lang, Michał Gebuza, Kacper Turek

Faculty of Medicine, Wrocław Medical University, Poland

Knowledge about wine and preferences of alcohol consumption

Klaudia Wojtyła

Faculty of Medicine, Wrocław Medical University, Poland

Analysis of black garlic drying

Aleksandra Zimmer, Adam Figiel, Krzysztof Lech

Institute of Agricultural Engineering, Wrocław University of Environmental and Life Sciences, Poland

Consumer preferences on the traditional and regional cheese market in relations to sex, age and level of education

Tomasz Lesiów, Cornelia Šabanagić

Wrocław University of Economics, Poland

17.15-19.00 Farewell Cocktail

