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
Chairmen:
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
FRAMWORK 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, Wroclaw, 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-Olsaña*

**The gut-brain axis in the anatomical context**

Ryszard Kacala
Department of Human Morphology and Embryology, Wroclaw Medical University, Poland

**Intestinal microbiota in the context of its impact on metabolism**

Anna Marcinkowska
Department of Medical Biochemistry, Wroclaw Medical University, Poland

**The evaluation of the living conditions of the inhabitants of old Wroclaw 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 Kulus³, Maciej Oziembłowski⁴

¹Department of Human Morphology and Embryology, Wroclaw Medical University, Poland
²Department of Dental Anatomy Wroclaw Medical University, Poland
³Institute of Geological Sciences Polish Academy of Sciences, Research Centre in Warsaw, Poland
⁴Department of Animal Products Technology and Quality Management, Wroclaw 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, Hirsfeld 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, Wroclaw University of Environmental and Life Sciences, Poland

**Culinary Trail "Tastes of Lower Silesia"**

Rajmund Papiernik  
Director of the Lower Silesian Tourist Organization, Wroclaw, 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, Wroclaw 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 Radomír 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 Jarmołowicz, Kacper Karkut, Julia Kula, Marta Malicka Anna Rohan
Wrocław Medical University, Poland

Compulsive eating

Julia Bińśka
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, 3Aneta Wojdyło, 4Tomasz Cebulak, 5Lidia Hirnle, 5Maciej Siewiński

1Department of Fermentation and Cereals Technology, Wrocław University of Environmental and Life Sciences, Poland
2Department of Fruit, Vegetables and Nutraceutical Technology, Wroclaw 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, Wroclaw Medical University, Poland
5Department of Basic Sciences, Wroclaw Medical University, Poland
Distribution of bioactive compounds and antioxidant capacity in fruit peel, flesh and seeds of selected saskatoon berry (*Amelanchier alnifolia* Nutt.) genotypes

Sabina Lachowicz, Jan Oszmiański, Łukasz Seliga, Stanisław Pluta, Zygmunt Gil, Ewa Pejcz, Radosław Spychaj, Agata Wojciechowicz-Budzisz, Anna 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 functionalyzed tetramethyl-γ-lactones

Marcelina Mazur, Witold Gladkowski, Aleksandra Pawłak, Bożena Obmińska-Mrukowicz, Czesław 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

Agnieszka Nawirska-Olszańska, Aleksandra Smorowska, Maciej Oziembłowski

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 Wołowiec

Wrocław Medical University, Poland

Nutritional properties of dried broccoli stems vacuum impregnated with onion juice

Marta Pasławska, Agnieszka Nawirska-Olszańska, Kinga Sala, Bogdan 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, 3Jerzy 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
Facultity of Medicine, Wrocław Medical University, Poland

Knowledge about wine and preferences of alcohol consumption

Klaudia Wojtyła
Facultity 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