



WROCLAW UNIVERSITY  
OF ENVIRONMENTAL  
AND LIFE SCIENCES



WROCLAW  
MEDICAL UNIVERSITY



# Man-Food-Health

## 4<sup>th</sup> International Conference

Wrocław, Poland, 29.03.2019

# PROGRAMME

Ver. 1.95

### Organizers:

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

<http://zieloneforum.pl>



We cordially invite you to participate in the 4<sup>th</sup> 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 Oziębłowski - 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

## **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 Dąbrowski<sup>1</sup>, Joanna Grzelak<sup>2</sup>, Maciej Krajcarz<sup>3</sup>, Michał Kulus<sup>1</sup>, Maciej Oziembłowski<sup>4</sup>

<sup>1</sup>Department of Human Morphology and Embryology, Wrocław Medical University, Poland

<sup>2</sup>Department of Dental Anatomy Wrocław Medical University, Poland

<sup>3</sup>Institute of Geological Sciences Polish Academy of Sciences, Research Centre in Warsaw, Poland

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

## **Immunology and microbiome of the gastrointestinal mucosa**

Andrzej Myc<sup>1</sup>, Agnieszka Razim<sup>2</sup>

<sup>1</sup>University of Michigan Nanotechnology Institute for Medicine and Biological Sciences Ann Arbor, USA

<sup>2</sup>Laboratory 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**

**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"**

Witold 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**

**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 Longo<sup>1</sup>, Fabrizio Rossetti<sup>2</sup>, Vakare Merkyte<sup>1</sup>, Prudence F. Tchouakeu Betnga<sup>1</sup>, Emanuele Boselli<sup>1</sup>

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

<sup>2</sup>Department 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**

Radomir Hyšpler, Alena Ticha, Adela Tomasova, Zadáč Zdenek

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

**Terpenes and their derivatives in metabolism and nutrition**

Zdenek Zadáč, 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-Wodzińska<sup>1</sup>, M.Mazur<sup>2</sup>, A.M.Salejda<sup>2</sup>, A. Tichá<sup>3</sup>, R. Hyšpler<sup>3</sup>, Z. Zadák<sup>3</sup>, R. Štětina<sup>4</sup>

<sup>1</sup>Department of Environment Hygiene and Animal Welfare, Wrocław University of Environmental and Life Sciences, Poland

<sup>2</sup>Department of Biotechnology and Food Sciences, Wrocław University of Environmental and Life Sciences, Poland

<sup>3</sup>Department of Clinical Biochemistry and Diagnostics, Charles University, Faculty of Medicine and University Hospital, Czech Republic

<sup>4</sup>Department 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)**

#### **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

#### **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

#### **The effects of amiodarone on thyroid dysfunction**

<sup>1</sup>Monika Sępek, <sup>2</sup>Zuzanna Sycz, <sup>1</sup>Jerzy Rudnicki

<sup>1</sup>Department of General, Minimally Invasive and Endocrine Surgery, Wrocław Medical University

<sup>2</sup>Department of Biology and Medical Parasitology, Wrocław Medical University

#### **Nutraceutical potential of various seed cakes**

Klaudia Masztalerz, Joanna Majerska, Adam Figiel

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

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

<sup>1</sup>Zuzanna Sycz, <sup>2</sup>Monika Sępek, <sup>1</sup>Dorota Wojnicz

<sup>1</sup>Department of Biology and Medical Parasitology, Wrocław Medical University, Poland

<sup>2</sup>Department of General, Minimally Invasive and Endocrine Surgery, Wrocław Medical University, 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**

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

<sup>1</sup>Department of Fermentation and Cereals Technology, Wrocław University of Environmental and Life Sciences, Poland

<sup>2</sup>Department of Fruit, Vegetables and Nutraceutical Technology, Wrocław University of Environmental and Life Sciences, Poland

<sup>3</sup>Department of Food Technology and Human Nutrition, Faculty of Biology and Agriculture, University of Rzeszów, Poland

<sup>4</sup>Department and Clinic of Gynaecology and Obstetrics, Wrocław Medical University, Poland

<sup>5</sup>Department 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**

<sup>1</sup>Sabina Lachowicz, <sup>2</sup>Jan Oszmiański, <sup>3</sup>Łukasz Seliga, <sup>3</sup>Stanisław Pluta, <sup>1</sup>Zygmunt Gil, <sup>1</sup>Ewa Pejcz, <sup>1</sup>Radosław Sychaj, <sup>1</sup>Agata Wojciechowicz-Budzisz, <sup>1</sup>Anna Czubaszek

<sup>1</sup>Department of Fermentation and Cereals Technology, Wrocław University of Environmental and Life Sciences, Poland

<sup>2</sup>Department of Fruit, Vegetables and Nutraceutical Technology, Wrocław University of Environmental and Life Sciences, Poland

<sup>3</sup>Research Institute of Horticulture, Department of Horticultural Crop Breeding, Skierniewice, Poland

## **Analysis of black garlic drying**

Aleksandra Zimmer, Adam Figiel, Krzysztof Lech

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

17.15-19.00 Farewell Cocktail