

# Scientific Programme

## 16<sup>th</sup> International Nutrition and Diagnostics Conference

MONDAY, OCTOBER 3, 2016

10:30 - 16:00	<b>Registration</b>	
12:00 - 12:20	Opening Ceremony Aleš Horna	
<b>SESSION 1</b>	<b>BIOMARKERS IN DISEASE</b> Chair: Tor Savidge, Mirek Macka	
12:20 - 12:50	<b>L01</b>	DNA damage formation and DNA repair following an intervention of colorectal cell lines with <i>Ganoderma Lucidum</i> <b>Pavel Vodička (Czech Republic)</b> <b>OPENING LECTURE</b>
12:50 - 13:15	<b>L02</b>	Biomarkers in aging research <b>Eugene Jansen (Netherlands)</b>
13:15 - 13:40	<b>L03</b>	Optimal sequential enrichment trial design with ordered subgroups <b>Ying Yuan (United States)</b>
<b>SESSION 2</b>	<b>INTESTINAL HOMEOSTASIS; THE ROLE OF MICROBIOTA</b> Chair: Helena Tlaskalová-Hogenová, Pavel Kohout	
13:40 - 14:05	<b>L04</b>	Metagenome to Metabolome: a multi-omic view of nutritional pathways in human gastrointestinal disease <b>Tor Savidge (United States)</b>
14:05 - 14:30	<b>L05</b>	Celiac disease and gluten intolerance <b>Pavel Kohout (Czech Republic)</b>
14:30 - 14:50	<b>L06</b>	Novel active peptides derived from wheat germ hydrolysate as putative nutraceuticals preventing calmodulin-dependent protein kinase II associated diseases <b>Thanutchaporn Kumrungsee (Japan)</b>
14:50 - 15:50	Poster Session 1 + Coffee Break	
<b>SESSION 2</b>	<b>CARDIOVASCULAR DISEASES</b> Chair: Helena Tlaskalová-Hogenová, Pavel Kohout	
15:50 - 16:10	<b>L07</b>	Cardiovascular events, FGF23 and diet <b>Caterina Brasacchio (Italy)</b>
16:10 - 16:30	<b>L08</b>	Inhibition of warfarin metabolism in human microsomes by bioactive compounds <b>Nadezhda Pilipenko (Sweden)</b>
17:00 - 19:00	Welcome Reception	

## TUESDAY, OCTOBER 4, 2016

<b>08:00 - 16:00</b>	<b>Registration</b>
<b>SESSION 4</b>	<b>ADVANCES IN ANALYTICAL METHODS</b> <b>Chair: Pavel Jandera, Mirek Macka</b>
09:00 - 09:25	<b>L09</b> Novel analytical approaches to on-site analysis applicable to nutrition and food analysis <b>Mirek Macka (Australia)</b>
09:25 - 09:50	<b>L10</b> Introduction of the Institute of Nutrition and Diagnostics Pardubice. Analytical chemistry and its application to the clinical diagnostics and nutrition research projects. <b>Aleš Horna (Czech Republic)</b>
09:50 - 10:15	<b>L11</b> Multi-dimensional liquid chromatography: off-line and on-line approaches <b>Pavel Jandera (Czech Republic)</b>
10:15 - 10:40	<b>L12</b> The development and implementation of method for the determination of free metanephrines in plasma by the liquid chromatography tandem mass spectrometry (LC-MS/MS) suitable for routine practice in diagnostic laboratory <b>Magdalena Rajská (Czech Republic)</b>
10:40 - 11:05	<b>L13</b> Metabolic phenotyping in nutrition and translational medicine – ready for routine! <b>Ernst Plefka (Austria)</b>
<b>SESSION 5</b>	<b>GUT MICROBIOTA AND DISEASE</b> <b>Chair: Volker Rusch, Alojz Bomba</b>
11:05 - 11:30	<b>L14</b> The microbiome universe and its fascination for the medical community <b>Volker Rusch (Germany)</b>
11:30 - 11:55	<b>L15</b> Gut microbiota, health and probiotics <b>Alojz Bomba (Slovakia)</b>
11:55 - 12:15	<b>L16</b> Germ-free and microbiota content modified mice are less susceptible to imiquimod induced inflammation <b>Zuzana Jirásková-Zákostelská (Czech Republic)</b>
<b>12:15 - 13:15</b>	<b>Lunch</b>
<b>SESSION 6</b>	<b>HEALTHY EFFECTS OF NATURAL COMPOUNDS</b> <b>Chair: Pavel Dostálek, Raquel Soares</b>
13:15 - 13:40	<b>L17</b> Beneficial effect of apples on human health <b>Radek Vávra (Czech Republic)</b>
13:40 - 14:05	<b>L18</b> Biologically active compounds from hops <b>Pavel Dostálek (Czech Republic)</b>
14:05 - 14:25	<b>L19</b> Influence of the processing on the resistant starch content of sorghum based products <b>Raquel Soares (Brazil)</b>
<b>14:25 - 15:25</b>	<b>Poster Session 2 + Coffee Break</b>
15:25 - 15:45	<b>L20</b> Evaluation of physicochemical properties, bioaccessibility of phenolics and antioxidant activity of linden herbal tea beverage <b>Ömer Çopur (Turkey)</b>
15:45 - 16:05	<b>L21</b> Kombucha tea and its health-promoting effects <b>Canan Tamer (Turkey)</b>
16:05 - 16:25	<b>L22</b> Vitamin D status amongst children residing at high altitude in Himachal Pradesh, India <b>Umesh Kapil (India)</b>
<b>18:00 - 20:00</b>	<b>Boat Tour with Dinner (Fee free)</b>

## WEDNESDAY, OCTOBER 5, 2016

<b>08:00 - 16:00</b>	<b>REGISTRATION</b>
<b>SESSION 7</b>	<b>NUTRITION AND HEALTH</b> <b>Chair: Emilio Jirillo, Ulrich Steinhoff</b>
09:00 - 09:25	<b>L23</b> Nutritional interventions and modulation of the immune response in obese people <b>Emilio Jirillo (Italy)</b>
09:25 - 09:50	<b>L24</b> Control of mucosal homeostasis and intestinal inflammation by dietary protein <b>Ulrich Steinhoff (Germany)</b>
09:50 - 10:15	<b>L25</b> The key role of nutritional treatments in the management of metabolic syndrome <b>Gregorio Torchia (United Kingdom)</b>
10:15 - 10:40	<b>L26</b> Structural information elucidation of a new metmyoglobin reductase purified from porcine myocardium <b>Bangquan Jin (China)</b>
10:40 - 11:05	<b>L27</b> Discovery of aspergillus-derived acid protease as a novel bifidogenic factor <b>Norihisa Kato (Japan)</b>
<b>SESSION 8</b>	<b>HEALTHY BENEFITS OF FOOD</b> <b>Chair: Eugene Jansen, Aldona Baltusnikiene</b>
11:05 - 11:30	<b>L28</b> Calculation of nutrient composition of foods according to EuroFIR Recipe calculation guideline <b>Marie Macháčková (Czech Republic)</b>
11:30 - 11:55	<b>L29</b> The impact of lactic acid bacteria on pork meat quality parameters and biogenic amine contents <b>Aldona Baltusnikiene (Lithuania)</b>
11:55 - 12:15	<b>L30</b> Protocatechuic acid improves insulin sensitivity and inflammation in visceral adipose tissue from obese subjects: a possible role for PTP1B <b>Paulina Ormazabal (Chile)</b>
<b>12:15 - 13:15</b>	<b>Lunch</b>
<b>SESSION 9</b>	<b>NEWBORN SCREENING AND PEDIATRIC NUTRITION</b> <b>Chair: David Friedecký, Ana Lindsay</b>
13:15 - 13:40	<b>L31</b> Newborn screening of inherited metabolic disorders - actual state and perspectives <b>David Friedecký (Czech Republic)</b>
13:40 - 14:05	<b>L32</b> Newborn screening in the Czech Republic <b>Petr Chrastina (Czech Republic)</b>
14:05 - 14:25	<b>L33</b> Brazilian immigrant mothers' beliefs and practices related to infant feeding: a qualitative study <b>Ana Lindsay (United States)</b>
<b>14:25 - 15:25</b>	<b>Poster Session 3 + Coffee Break</b>
<b>SESSION 10</b>	<b>ADVANCES IN ONCOLOGY</b> <b>Chair: Tomáš Büchler, Pavel Blažíček</b>
15:25 - 15:50	<b>L34</b> Chemoprophylaxis for colorectal cancer <b>Tomáš Büchler (Czech Republic)</b>
15:50 - 16:15	<b>L35</b> The biochemical diagnosis of pheochromocytoma: from a paper chromatography to a liquid chromatography with Coulochem detection <b>Pavel Blažíček (Slovakia)</b>
<b>18:00 - 21:00</b>	<b>Social Programme (60 EUR) Sightseeing Bus Tour and Dinner</b>

## THURSDAY, OCTOBER 6, 2016

<b>08:00 - 10:00</b>	<b>Registration</b>
<b>SESSION 11</b>	<b>BIOLOGICAL AND CLINICAL RESEARCH</b> <b>Chair: Soňa Peková, Georgiy Vladimirov</b>
09:00 - 09:25	<b>L36</b> Dried blood spot sampling method in determination of aminoacids, ketoacids, fatty acids and glutathione <b>Lenka Andrllová (Czech Republic)</b>
09:25 - 09:45	<b>L37</b> Chemiluminescent method for evaluating total antioxidant capacity (TAoC) in biological materials <b>Georgiy Vladimirov (Russia)</b>
09:45 - 10:05	<b>L38</b> Oxidative stress in blood: Methods of diagnostics and clinical research <b>Elena V. Proskurnina (Russia)</b>
10:05 - 10:30	<b>L39</b> Large-scale molecular detection of microorganisms – molecular microbiomes <b>Soňa Peková (Czech Republic)</b>
<b>10:30 - 10:50</b>	<b>Coffee Break</b>
<b>SESSION 12</b>	<b>NUTRITION IN DISEASE PREVENTION</b> <b>Chair: Sophie Yvon, Ibrahim Salem Said</b>
10:50 - 11:10	<b>L40</b> Lysozyme contained in donkey milk counteracts stress-induced functional gastrointestinal disorders in mice <b>Sophie Yvon (France)</b>
11:10 - 11:30	<b>L41</b> Lucigenin enhanced chemiluminescence as a method of estimation of superoxide radical producing ability of mitochondria in tissue <b>Anastasiia Polimova (Russia)</b>
11:30 - 11:50	<b>L42</b> Ameliorative effect of dandelion ( <i>Taraxacum officinale</i> ) leaves on osteoporosis in female rats <b>Ibrahim Said Salem (Egypt)</b>
<b>11:50 - 12:00</b>	<b>Closing Ceremony</b> <b>Aleš Horna</b>

\*Each speaker will receive 20 or 25 minutes of presentation time; 15 or 20 minutes PowerPoint presentation followed by a 5 minutes discussion