

# Final Programme

11<sup>th</sup> INTERNATIONAL NUTRITION & DIAGNOSTICS CONFERENCE – INDC2011

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## Sunday, August 28, 2011

**13:00 – 21:00**      **Registration of INDC2011 participants**

16:00 16:10      **Horna A.**, Czech Republic, **OPENING CEREMONY**  
16:10 16:30      **Chloupek O.**, Czech Republic  
   MENDEL, FATHER OF GENETICS

<b>SESSION: ADVANCES IN NUTRITION I</b> <b>Chairs: Member of Society for Nutrition, Ehrenbergerova J.</b>
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16:30 17:10 **L27**      **Zadak Z.**, Czech Republic  
   LIPIDS - NUTRIENTS, MEDIATORS AND PHARMACEUTICALS

17:10 17:30 **L26**      **Korzeniowska M.**, Poland  
   EGGS AS A SOURCE OF DIFFERENT KIND OF NUTRACEUTICALS

17:30 17:50 **L39**      **Wiese S.**, Denmark  
   EXPEDITIOUS DISCOVERY OF BIOACTIVE PLANT CONSTITUENTS BY  
   HPLC-PDA-SPE-TTMR/HIGH-RESOLUTION BIOASSAY

17:50 18:10 **L28**      **Zobel A.**, Canada  
   "STATS" IN HUMAN HEALTH AS A WHOLE AND OTHER MAMMALS,  
   TOO.

18:10 18:30 **L22**      **Pfisterer M.**, Germany  
   IRRITIBLE BOWEL SYNDROME -THE ROLE OF EXTENDED  
   DIAGNOSTIC TO DETECT FOOD-ALLERGIES AND INTOLERANCES AS  
   RELEASING FACTOR

18:30 18:45 **K2**      **Zadak Z.**, Czech Republic  
   PHOSPHOLIPIDS IN THE TREATMENT OF METABOLIC DISORDERS  
   AND NUTRITION

18:45 20:30      **Welcome reception**

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## Monday, August 29, 2011

10:00 10:10 **Horna A., Czech Republic – OPENING SPEECH**  
10:10 10:50 **VIP GUESTS SPEECHES**  
10:50 11:00 **MENDEL MEDAL AWARD**

### SESSION: ADVANCES IN LIPID ANALYSIS I

Chairs: Acworth I., Schleicher E.

11:00 11:20 **L42** **Acworth I., USA**  
FREE RADICAL CHEMISTRY IN HEALTH AND NUTRITION: A BRIEF  
OVERVIEW OF THE USE OF HPLC WITH ELECTROCHEMICAL  
DETECTION FOR THE MEASUREMENT OF OXIDANTS, DAMAGE  
MARKERS AND ANTIOXIDANTS

11:20 11:40 **L23** **Schleicher E., Germany**  
METABOLISM AND INTERCONVERSION OF FATTY ACIDS IN HUMAN  
TISSUES: WHAT DO PLASMA FATTY ACIDS REFLECT?

11:40 12:00 **L09** **Funfack W., Germany**  
THE CAUSE OF METABOLIC SYNDROME IS IN THE HYPERTROPHIC  
FAT CELLS

12:00 13:00 **Lunch Break**

13:00 14:00 **POSTER SESSION I**

### SESSION: ADVANCES IN LIPID ANALYSIS II

Chairs: Holcapek M., Molnar-Perl I.

14:00 14:20 **L49** **Holcapek M., Czech Republic**  
HPLC/MS LIPIDOMIC CHARACTERIZATION OF HUMAN PLASMA

14:20 14:40 **L19** **Molnar-Perl I., Hungary**  
DERIVATIZATION AND FRAGMENTATION PATTERN ANALYSIS OF  
NATURAL AND SYNTHETIC STEROIDS, AS THEIR TRIMETHYLSILYL  
DERIVATIVES BY GAS CHROMATOGRAPHY MASS SPECTROMETRY:  
ANALYSIS OF DISSOLVED AND DISPERSED STEROIDS IN  
ENVIRONMENTAL WATER SAMPLES

14:40 15:00 **L41** **Acworth I., USA**  
UNIVERSAL DETECTOR FOR THE MEASUREMENT OF ANY NON-  
VOLATILE COMPONENT IN FOOD, BOTANICALS, NATURAL PRODUCTS  
AND SUPPLEMENTS

15:00 15:20 **L16** **Kohut P., Slovakia**  
LIPIDS AND THEIR ANALYSIS IN YEAST

15:20 15:40 **Coffee break**

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## SESSION: ADVANCES IN NUTRITION II

Chairs: Cottam J., Funfack W.

- 15:40 16:00 **L55** **Guler G. O.**, Turkey  
ANTIOXIDANT PROPERTIES OF DIFFERENT EXTRACTS AND FATTY ACID COMPOSITION OF *H. RETICULATUS* L.
- 16:00 16:20 **L58** **Aktumsek A.**, Turkey  
EFFECT OF PASTEURIZATION TEMPERATURE ON CLA CONTENT AND FATTY ACID COMPOSITION OF CHEESE
- 16:20 16:40 **L59** **Zengin G.**, Turkey  
COMPOSITION OF ESSENTIAL OIL AND ANTIOXIDANT CAPACITY OF *C. DRABIFOLIA* SM. SUBSP. *DETONSA* (BORNM.) WAGENITZ
- 16:40 17:00 **L12** **Hromadka R.**, Czech Republic  
BIOSYNTHESIS OF GLUTATHIONE IN YEAST BIOMASS
- 17:00 17:10 **K01** **Funfack W.**, Germany  
PROGRAM ADHERENCE AND EFFECTIVENESS OF A COMMERCIAL NUTRITION PROGRAM: THE METABOLIC BALANCE STUDY
- 17:10 17:30 **Coffee break**

## SESSION: TO DRINK OR NOT TO DRINK

Chairs: Jandera P., Lachman J.

- 17:30 17:50 **L13** **Jandera P.**, Czech Republic  
SELECTION OF EFFICIENT AND SELECTIVE COLUMNS AND SEPARATION CONDITIONS FOR TWO-DIMENSIONAL HPLC SEPARATIONS OF PHENOLIC COMPOUNDS AND FLAVONES IN BEVERAGES
- 17:50 18:10 **L57** **Lachman J.**, Czech Republic  
BIOLOGICALLY ACTIVE COMPOUNDS IN GRAPE SEEDS, OIL AND MARC - THEIR ACQUISITION AND USE
- 18:10 18:30 **L06** **Cottam J. P.**, Germany  
DISINFECTION BY-PRODUCTS OF DRINKING WATER - DETERMINATION OF BROMATE, DALAPON AND HALOACETIC ACIDS BY IC-MS/MS
- 18:30 18:50 **L15** **Karas M.**, Czech Republic  
NATURAL MEDICINAL HERBAL WINES - HISTORY OF THEIR PRODUCTION IN THE CZECH REPUBLIC AND HOW THEY INFLUENCE HUMAN ORGANISM TO BE IN GOOD HEALTH
- 18:50 21:00 **Czech and Moravian wine tasting**

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**Tuesday, August 30, 2011**

## **SESSION: GUT MICROFLORA AND NUTRITIONAL COMPONENTS IN HEALTH AND DISEASE**

**(PROJECT DEVELOPMENT OF THE TECHNOLOGICAL PROCESSING OF HIGHLY NUTRITIVE VALUABLE PULSES TA01010737)**

**Chairs: Tlaskalova H., Mengheri E.**

- 09:00 09:20 **L25** **Tlaskalova H.**, Czech Republic  
GUT MICROBIOTA AND BARRIER FUNCTION IN PATHOGENESIS OF INFLAMMATORY AND NEOPLASTIC DISEASES
- 09:20 09:40 **L18** **Mengheri E.**, Italy  
PROBIOTICS, IMMUNOMODULATION AND GUT HEALTH
- 09:40 10:00 **L17** **Lalles J.-P.**, France  
INTESTINAL ALKALINE PHOSPHATASE: A KEY ENZYME IN HEALTH AND DISEASE
- 10:00 10:20 **L30** **Tuckova L.**, Czech Republic  
FREQUENT INTESTINAL DISORDERS (OF GASTROINTESTINAL TRACT) INDUCED BY WHEAT COMPONENTS: FOOD ALLERGY AND CELIAC DISEASE
- 10:20 11:00 **Coffee break & POSTER SESSION II**

## **SESSION: HEALTH CLAIMS AND CHEMISTRY OF HUMAN BEHAVIOR**

**Chairs: Bazata V., Winklerova D.**

- 11:00 11:20 **L38** **Winklerova D.**, Czech Republic  
FOOD FOR SPORTSMEN AND HEALTH CLAIMS
- 11:20 11:40 **L02** **Bazata V.**, Czech Republic  
NUTRITIONAL AND HEALTH CLAIMS OF BOTANICALS IN EU AS THE LAST EVALUATED CATEGORY
- 11:40 12:00 **L54** **Nigam R.**, India  
NUTRITIONAL HEALTH ASSESSMENT OF URBAN ELDERLY INDIANS: A BIOCHEMICAL AND SOCIO-BEHAVIORAL ANALYSIS
- 12:00 12:20 **L05** **Cajthamlova K.**, Czech Republic  
CASE-STUDY ON THE HABIT CHANGING INTERVENTION IN OBESE PATIENT WITH METABOLIC SYNDROME
- 12:20 12:40 **L60** **Dee K.**, Hungary  
APPLICATION OF A POSSIBLE SCREENING METHOD TO MONITORING THE INCIDENCE OF MALNUTRITION
- 12:40 13:40 **Lunch break**

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<b>SESSION: WHY TO DRINK CZECH BEER</b>
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<b>Chairs: Ehrenbergerova J., Slaby M.</b>
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- 13:40 14:00 **L07** **Ehrenbergerova J.**, Czech Republic  
BARLEY COMPONENTS IMPORTANT FOR MALT AND FUNCTIONAL  
FOODS
- 14:00 14:20 **L24** **Slaby M.**, Czech Republic  
CZECH BEER
- 14:20 19:00 ***Social programme – Mendel museum and Starobrno brewery tour***

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Wednesday, August 31, 2011

## SESSION: ANALYTICAL METHODS FOR NUTRITION AND DIAGNOSTICS

Chairs: Macka M., Havel J.

- 09:00 09:20 **L40** **Acworth I.**, USA  
THE APPLICATION OF HPLC WITH PHOTODIODE ARRAY AND COULOMETRIC ELECTROCHEMICAL ARRAY DETECTION TO THE STUDY OF NATURAL PRODUCTS, BOTANICALS AND MAMMALIAN TISSUES: FROM TARGETED ANALYSES TO METABOLOMICS
- 09:20 09:40 **L35** **Macka M.**, Australia  
WHAT ROLE CAN CHIP-CE PLAY IN MICROFLUIDIC AND MINIATURISED ANALYSIS FOR NUTRITION AND DIAGNOSTICS?
- 09:40 10:00 **L37** **Krcmova L.**, Czech Republic  
ADVANTAGES OF MONOLITHS IN COMBINATION WITH MODERN TECHNOLOGIES FOR HPLC ANALYSIS IN CLINICAL RESEARCH
- 10:00 10:20 **L10** **Hutta M.**, Slovak Republic  
HUMIC SUBSTANCES - ANALYTES AND INTERFERENTS OF CHEMICAL ANALYSIS
- 10:20 10:40 **L11** **Havel J.**, Czech Republic  
HUMIC ACIDS - NATURAL SUPRAMOLECULAR COMPLEXING AGENTS. STRUCTURE, PROPERTIES AND APPLICATIONS IN MEDICINE AND NANO-TECHNOLOGY
- 10:40 11:00 **Coffee break**

## SESSION: NANOTECHNOLOGY IN FOOD & CLINICAL DIAGNOSTICS

(PROJECT NANOSEMED KAN208130801)

Chairs: Hubalek J., Babula P.

- 11:00 11:10 **L00** **Horna A.**, Czech Republic  
HOW CARBON HAS BEEN INFLUENCING THE HUMANS
- 11:10 11:30 **L31** **Zitka O.**, Czech Republic  
ELECTROCHEMICAL DETECTION OF 8-HYDROXY-2'-DEXYGUANOSINE ISOLATED FROM A REAL SAMPLE BY USING ANTIBODY-MODIFIED PARAMAGNETIC PARTICLES
- 11:30 11:50 **L32** **Hubalek J.**, Czech Republic  
NANOPARTICLES AND NANOSTRUCTURES IN SENSING
- 11:50 12:10 **L33** **Babula P.**, Czech Republic  
TOXICITY OF NANOMATERIALS
- 12:10 12:30 **L34** **Chomoucka J.**, Czech Republic  
WATER SOLUBLE QUANTUM DOTS, THEIR SYNTHESIS AND APPLICATIONS
- 12:30 12:40 **Discussion**
- 12:40 12:50 **Poster Awards**
- 12:50 13:00 **Closing Ceremony**  
**Invitation to 12th International Nutrition and Diagnostics Conference**
- 13:00 13:30 **Farewell drink**