

SEPTEMBER 4-7, 2010, PRAGUE, CZECH REPUBLIC

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10<sup>TH</sup> INTERNATIONAL

NUTRITION & DIAGNOSTICS CONFERENCE

PRAGUE

10th International  
**NUTRITION & DIAGNOSTICS** Conference  
September, 4 - 7, 2010

Conference is organized under the auspices of  
**Dr. Jiri Skalicky, MP of the Czech Republic,**

Venue:

**Institute of Molecular Genetics of Academy of Sciences of the Czech  
Republic in Prague, Czech Republic**

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# Preliminary Programme

10<sup>th</sup> INTERNATIONAL NUTRITION & DIAGNOSTICS CONFERENCE – INDC2010

## Saturday, September 4, 2010

13:00 – 20:30 Registration of “INDC2010 participants”

### PLENARY SESSION Chairs: Dostálová J., Blatná J.

- 16:00 16:30 **Horna A., *Opening ceremony***
- 16:30 17:15 **L35 Jandera J., Czech Republic**  
Two-dimensional HPLC - Useful Tool for Increasing the Number of Identified Compounds in the Analysis of Beverages and Plant Extracts
- 17:15 18:00 **L01 Buszewski B., Poland**  
Natural and Artificial Nose in Detection of Volatile Organic Compounds for Medical Diagnosis
- 18:00 18:30 **L27 Halwachs-Bauman G., Austria**  
Assay Based Decision Levels for Vitamin D [25 (OH)D]
- 18:30 20:30 *Opening Reception*

## Sunday, September 5, 2010

### SESSION: ADVANCES IN NUTRITION Chairs: Křen V., Lachman J.

- 09:00 09:25 **L42 Křen V., Czech Republic**  
Do We Need Optically Pure Nutraceuticals?!...Chemoenzymatic Separation of Silybin A and B and Their Biological Activities
- 09:25 09:45 **L17 Lachman J., Czech Republic**  
Hydrophilic and Lipophilic Antioxidants in New Genetic Sources of Emmer, Einkorn and Spring Wheat and Triticale
- 09:45 10:05 **L21 Gutschelhofer C.M., Germany**  
Determination of Watersoluble B-vitamins in Fruits and Fruit Products
- 10:05 10:25 **L28 Velraj G., India**  
Standardization and Quality Evaluation of Value Added Probiotic Yogurt
- 10:25 10:45 **L37 Mumtaz S., Pakistan**  
Anti Diabetic Effects of Prebiotic Carbohydrates (Xylooligosaccharides) in Sprague Dawley Rats
- 10:45 11:00 *Break*

### SESSION: OXIDATIVE METABOLISM Chairs: Jansen E., Rungkat-Zakaria F.

- 11:00 11:30 **L04 Acworth I., USA**  
Beyond Analytical Electrochemistry: Novel Uses of Electrochemical “Sensors”
- 11:30 12:00 **L40 Jansen E., The Netherlands**  
Measurements of Oxidative Stress
- 12:00 12:20 **L24 Fabian E., Austria**  
Impact of Plasma Antioxidants, Considering Nutritional Supplements, on Oxidative and Nitrosative Events in Atopic Asthma
- 12:20 12:40 **L07 Rungkat-Zakaria F., Indonesia**  
Growth Inhibition Activity of Cyclea barbata L.Miers Extracts on K562 and HeLa Cell Lines Was Not Observed on Human Lymphocytes
- 12:40 13:00 **L18 Frye D., USA**

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Micronutrient Optimization Storage Trial - Using Customized Vitamin and Mineral Replacement Therapy

13:00 14:00 *Lunchbreak*

14:00 16:00 **POSTER SESSION**  
Presenting authors of the odd-numbered posters are asked to be present at their posters

## Monday, September 6, 2010

### SESSION: TO DRINK OR NOT TO DRINK

Chairs: Zima T., Cottam J. P.

09:00 09:30 **L08** **Zima T.**, Czech Republic  
To Drink or Not to Drink Alcoholic Drinks

09:30 10:00 **L32** **Cottam J.P.**, USA  
Is Tap Water Safe to Drink? Drinking Water Standards in Europe

10:00 10:20 **L33** **Saphier O.**, Israel  
Role of Radicals in the Lipid Peroxidation Products of Commercial Infant Milk Formula

10:20 10:35 *Break*

### SESSION: ANTIOXIDANTS

Chairs: Ligor M., Zobel A.

10:35 10:55 **L03** **Acworth I.**, USA  
The Application of HPLC with Coulometric Electrochemical Array Detection to the Study of Natural Products: From Targeted Analyses to Metabolomics

10:55 11:15 **L09** **Ligor M.**, Poland  
Study of Antioxidant Activity of Polyphenols and Xanthophylls Isolated from Plants and Natural Products by Means of Coupled Analytical Techniques

11:15 11:35 **L20** **Olszowy M.**, Poland  
Some Problems in Estimation of the Antioxidant Properties of Plant Extracts

11:35 11:55 **L22** **Tumbas V.**, Serbia  
Cranberry (*Vaccinium macrocarpon* L.) – Good Source of Polyphenols

11:55 12:15 **L38** **Zobel A.**, Canada  
Phytochemicals Produced and Extruded by Plants Influence the Behaviour of Other Surrounding Plants and Animals

12:15 13:15 *Lunchbreak*

12:15 14:15 **A** **POSTER SESSION**  
Presenting authors of the even-numbered posters are asked to be present at their posters

13:15 14:15 **B** **CZECH SESSION** – a lecture in Czech language  
Český blok k problematice zdravotních tvrzení – moderátor RNDr. Václav Bažata

**L36** **Winklerová D.**, Health Claims and Food Supplements

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## SESSION: CHEMISTRY OF HUMAN BEHAVIOUR Chairs: Radvanský J., Nazni P.

- 14:15 14:35 **L31** **Cajthamlová K.**, Czech Republic  
Better Understanding of the Psychology of Appetite in the Overweight
- 14:35 14:55 **L34** **Zámola F.**, Czech Republic  
Effect of Pinus Koraiensis Seed Oil on Satiety Hormones CCK and GLP-1
- 14:55 15:15 **L02** **Ullah S.**, United Kingdom  
Resting Energy Expenditure in Morbidly Obese Patients: Accuracy of Estimating Formulae and Alteration Following Roux en Y Gastric Bypass
- 15:15 15:35 **L16** **Nazni P.**, India  
Efficacy of High Carbohydrate Diets for Improving Endurance Performance Among Selected Athletes
- 15:35 15:55 **L25** **Arsic A.**, Serbia  
Unfavourable Plasma Phospholipid Fatty Acid Profile in Professional Boxers
- 15:55 16:15 *Break*

## SESSION: POLYPHENOLS, PHYTOESTROGENS Chairs: Lapčík O., Šimek P.

- 16:15 16:35 **L14** **Moro Lagares C.**, Spain  
Anti-inflammatory Activity of Phenolic Rich Extracts from Pulses
- 16:35 16:55 **L39** **Lapčík O.**, Czech Republic  
Phytoestrogens – Structural Types and Botanical Sources
- 16:55 17:15 **L12** **Palacios Romero I.**, Spain  
Natural Occurrence of Phenolic Compounds in Edible Mushrooms
- 17:15 17:35 **L41** **Šimek P.**, Czech Republic  
Determination of Novel Folate Biomarkers and Related Metabolites of One Carbon Metabolism in Urine of Premature Newborns under Targeted Nutritional Therapy
- 17:35 17:55 **L11** **Goralska J.**, Poland  
Influence of Exogenous Free Fatty Acids on Mitochondrial Function in Stressed Endothelial HUVEC Cells

**Tuesday, September 7, 2010**

## SESSION: ANALYTICAL METHODS Chairs: Macka M., Acworth I.

- 09:00 09:20 **L05** **Acworth I.**, USA  
The Corona Charged Aerosol Detector – A “Universal” Detector for the Measurement of Non-volatile Components in Food, Natural Products and Supplements
- 09:20 09:40 **L45** **Macka M.**, Australia  
The Potential of Microfluidic Electrophoresis with LIF and LED Fluorescence Detection in Nutritional and Biomedical Diagnostics Applications
- 09:40 10:00 **L06** **Molnár-Perl I.**, Hungary  
Precious Weeds by the Roadside: Lignan-rich Fruits of Cirsium Species, Confirmed by Chromatography and Nuclear Magnetic Resonance Spectrometry
- 10:00 10:20 **L30** **Kapalla M.**, Slovak Republic  
The Catalyzing Role of the Routine Clinical Analysis of Nutrition Components for Predictive, Preventive and Personalized Medicine

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- 10:20 10:40 **L23** **Hyánek J.**, Czech Republic  
Diagnostic Significance of Low Holotranscobalamin Values in Patients From Metabolic Surgery
- 10:40 11:00 **L45** **Krčmová L.**, Czech Republic  
Modern Technologies for Determination of Neopterin in Various Biological Fluids in Clinical Research
- 11:00 11:15 *Break*

<p><b>SESSION: NANOTECHNOLOGY IN FOOD &amp; CLINICAL DIAGNOSTICS (NANOSEMED), KAN208130801 Chairs: Babula P., Adam V.</b></p>
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- 11:15 11:30 **L19** **Babula P.**, Czech Republic  
Nanocarriers for Anticancer Drugs – New Trends in Nanomedicine
- 11:30 11:45 **L44** **Horna A.**, Czech Republic  
Novel Use of Nanoporous Graphite for Synthesis of Bioactive Standards
- 11:45 12:00 **L46** **Ryvolová M.**, Czech Republic  
Microfluidic Chip-based Electrophoresis and Paramagnetic Nanoparticles: New Trends in Nucleic Acid Analysis
- 12:00 12:15 **L47** **Adam V.**, Czech Republic  
Quantum Dots – “Light-Emitting” Nano-Analytical Instrument
- 12:15 12:35 **L48** **Gumulec J.**, Czech Republic  
Zinc, Metallothionein and Prostate Tumour Cells, Is There Any Relation?
- 12:35 12:45 *Discussion*
- 12:45 13:00 **Poster Awards**  
**Invitation to 11th International Nutrition and Diagnostics Conference – INDC2011**  
**Closing Ceremony**
- 13:00 13:30 **Farewell Reception**