

VITAMINS NUTRITION DIAGNOSTICS

2009

31 August – 2 September

9th International Conference
VITAMINS, NUTRITION, DIAGNOSTICS
 August 31 - September 2, 2009

Conference is organized under the auspices of
the Ministry of Education, Youth and Sports
the Lord Mayor of the Brno City Municipality
and the Rector of Mendel University of Agriculture and Forestry in Brno

Venue:

**Mendel University of Agriculture and Forestry, Zemědělská 1,
 613 00 Brno, Czech Republic, building Q**

Organized by



Univerzita Tomáše Bati ve Zlíně
 Tomas Bata University in Zlín

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Conference is supported by the Winegrowers'
 Fund of the Czech Republic (Vinařský fond ČR)

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Final programme

9th International Conference VITAMINS, NUTRITION, DIAGNOSTICS

Monday, August 31, 2009

10:00 - 18:00 Registration of "VITAMINS 2009 participants"

PLENARY SESSION

Chairs: Buszewski B., Jandera P.

12:45	13:10		Horna A., Opening ceremony
13:10	13:40	L10	Buszewski B. , Poland, Gadzała-Kopciuch R., Poland, Ričanyová J. Poland, Slovakia Molecularly imprinted polymer (MIP) for determination of compounds with biological activity
13:40	14:10	L04	Jandera P. , Hájek T., Škeříková V., Kubíčková R., Urban J., Czech Republic HILIC - Hydrophilic interaction chromatography for separation of phenolic and flavone natural antioxidants
14:10	14:40	L51	Jakobsen J. , Denmark Vitamin D – The sunshine hormone in our food
14:40	15:30		<i>Pause</i>

PARALLEL SESSION "A" TO DRINK OR NOT TO DRINK BEER

Chairs: Dostálek P., Hajšlová J.

15:30	15:50	L02	Ehrenbergerová J. , Březinová Belcredi N., Běláková S., Vaculová V., Czech Republic Barley caryopsis as a source of substances beneficial to health
15:50	16:10	L20	Hajšlová J. , Czech Republic Metabolomic profiling as a powerful tool in food and food supplements traceability. Case study: wine and beer
16:10	16:30	L17	Dostálek P. , Karabín M., Štěřba K., Hulín P., Czech Republic Basic characteristics of "Czech beer"
16:30	16:50	L44	Krofta K. , Nesvadba V., Mikyška A., Czech Republic New varieties of Saaz hops and „Czech beer“
16:50	17:10	L49	Márová I. , Pařilová K., Obruča S., Zdráhal Z., Muller L., Czech Republic "Czech beer " - a contribution to authenticity analysis

PARALLEL SESSION "B"

New design and exploiting nanobiosensors and nanosensors to target medicine (NANOSEMED), KAN208130801

Chairs: Hubálek J., Kizek R.

15:30	15:50	L21	Hubálek J. , Adam V., Kizek R., Czech Republic Nanotechnology for society– importance and possibilities
15:50	16:10	L27	Horna A. , Zitka O., Adam V., Kizek R., Czech Republic Nanosystems in separation techniques and technologies
16:10	16:30	L23	Adam V. , Huska D., Choumocka J., Drbohlavova J., Hubalek J., Horna A. Kizek R., Czech Republic Paramagnetic micro- and nanoparticles for detection of proteins and nucleic acids
16:30	16:50	L24	Hubálek J. , Zak J., Adam V., Kizek R., Czech Republic Sensor array for electrochemical mass screening
17:10	18:00		Poster sessions Presenting authors are asked to be present at their posters
18:00	21:00		Welcome reception

Final programme

9th International Conference VITAMINS, NUTRITION, DIAGNOSTICS

Tuesday, September 1, 2009

PARALLEL SESSION "A" TO DRINK OR NOT TO DRINK WINE Chairs: Veverka J., Veselý O.

- 09:00 09:20 **L33** **Kumšta M.**, Bábíková P., Sotolář R., Baroň M., Czech Republic
Antiradical activity and phenolic substances of a new crossin of red grapevine varieties
- 09:20 09:40 **L34** Goliáš J., **Veselý O.**, Czech Republic
Development of volatile aromatic compounds in wine (*Vitis vinifera*) variety Riesling, made by different winemaking techniques
- 09:40 10:00 **L50** **Veverka J.**, Buňka F., Kráčmar S., Hajdučík J., Czech Republic
Content and elimination of biogenic amines in wine
- 10:00 10:20 **L43** **Baroň M.**, Kumšta M., Czech Republic
The influence of assimilable nitrogen on antiradical activity in grape musts
- 10:20 10:40 **L55** **Kubáň V.**, Fic V., Jašková D., Czech Republic
Biological activity of main substances of *Vitis vinifera* products, by-products and bio-wastes
- 10:40 11:00 *Pause*

PARALLEL SESSION "B" ANALYTICAL METHODS FOR ANALYSIS OF BIOLOGICAL MATERIALS I. Chairs: Macka M., Molnár-Perl I.

- 09:00 09:20 **L11** Walsh Z., Ireland, Levkin P. A., USA, Heger D., Czech Republic, Norton M., Ireland, Abele S., Ireland, Svec F., USA, Klán P., Czech Republic, Paull B., Ireland, **Macka M.**, Ireland
Making monoliths with visible LED light sources
- 09:20 09:40 **L14** **Horna A.**, Zitka O., Adam V., Kizek R., Czech Republic
Electroactive nutritional biomarkers
- 09:40 10:00 **L18** **Maruška A.**, Kornyšova O., Proscavicius J., Ragazinskiene O., Lithuania
Comparative analysis of induced polyploid and primary diploid forms of annual medicinal plants
- L19** Stankevičius M., **Maruška A.**, Lithuania
In-line antioxidant activity determination of hop bitter acids by automated capillary electrophoresis apparatus with coupled reaction detector
- 10:00 10:20 **L28** **Molnár-Perl I.**, Jámboř A., Hungary
Amino acid analysis by HPLC after derivatization with 9-fluorenylmethoxycarbonyl chloride: literature overview, further study and utilization for the analysis of the free amino acids in plasma
- 10:20 10:40 **L45** **Skripko A.**, Latvia
New screening method detecting decreased macular pigment in the eye
- 10:40 11:00 *Pause*

Final programme

9th International Conference VITAMINS, NUTRITION, DIAGNOSTICS

PARALLEL SESSION "A" TO DRINK OR NOT TO DRINK

Chairs: Čurda L., Tlaskalová-Hogenová H.

- 11:00 11:20 **L12** **Tlaskalová-Hogenová H.**, Štěpánková R., Hrnčíř T., Hudcovič T., Funda D., Klimešová K., Kozáková H., Kverka M., Zakostelská Z., Tučková L., Rossmann P., Czech Republic
Intestinal microflora in development of inflammatory and neoplastic diseases: protective effects of probiotics
- 11:20 11:40 **L29** **Čurda L.**, Czech Republic
Drinking of milk - food for thought
- 11:40 12:00 **L03** **Eghdami A.**, Mskhdoom H., Izadi M., Iran
Study the effect of juice of two varieties of pomegranate on decreasing plasma LDL cholesterol
- 12:00 12:20 **L38** **Winklerová D.**, Kubíková M., Czech Republic
Energy and "smart" drinks
- 12:20 13:20 *Pause (lunch)*

PARALLEL SESSION "B"

ANALYTICAL METHODS FOR ANALYSIS OF BIOLOGICAL MATERIALS II.

Chairs: Krčmová L., Šimek P.

- 11:00 11:20 **L31** **Šimek P.**, Czech Republic
Mass spectrometry-based metabolite profiling strategies for biomarker tracing in urine
- 11:20 11:40 **L32** **Krčmová L.**, Solichová D., Kašparová M., Plíšek J., Melichar B., Sobotka L., Solich P., Czech Republic
Application of modern technologies for determination of retinoids and tocopherols in biological fluids
- 11:40 12:00 **L46** **Eidi M.**, Pouyan O., Shahmohammadi P., Bahar M., Iran
Comparison of plasma seminal L-carnitine concentrations in asthenozoospermic, trazoospermic, oligozoospermic and necrozoospermic infertile men
- 12:00 12:20 **L15** **Zobel A. M.**, Canada, Zobel G., Canada, Turło J. Poland
Enhanced environmental conditions cause changes in quality and quantity of extruded compounds on the cell surface
- 12:20 13:20 *Pause (lunch)*

SESSION

TARGETED NUTRITIONAL THERAPY I.

Chairs: Ehrenbergerová J., Radvanský J.

- 13:20 13:40 **L13** **Radvanský J.**, Joachimová M., Sodomková G., Czech Republic
What is – and what is not - evidence based medicine in the field of the sport nutrition supplements
- 13:40 14:00 **L16** **Kocsis L.**, Savernik I., Klepp R., Austria
Nutrition and health - developing new healthy food
- 14:00 14:20 **L35** **Kaškonienė V.**, Čeksterytė V., Maruška A., Lithuania
Bee bread – source of essential fatty acids
- 14:40 15:00 **L40** **Margitanová E.**, Vollmannová A., Krížová L., Harangozo L., Bojňanská T., Slovak Republic
Content of total polyphenols in seeds of amaranth and millet under conditions of model metallic loaded soil
- 15:15 17:00 **Visiting Botanic gardens and Arboretum of the University**

Final programme

9th International Conference VITAMINS, NUTRITION, DIAGNOSTICS

Wednesday, September 2, 2009

PARALLEL SESSION "A" TARGETED NUTRITIONAL THERAPY II. Chairs: Fabian E., Hromádka R.

- 09:00 09:20 **L37** **Kalousová M.**, Kuběna A., Košťířová M., Dusilová-Sulková S., Tesař V., Zima T., Czech Republic
Vitamin A, but not vitamin E, is an independent mortality predictor in chronic hemodialysis patients
- 09:20 09:40 **L36** **Hromádka R.**, Sandříková V., Beran M., Semerádová S., Czech Republic
 β -Glucans from yeast biomass
- 09:40 10:00 **L52** **Fabian E.**, Bogner M., Brandtner A., Kickingner A., Wagner K.H., Elmadfa I., Austria
Vitamin status in elderly people of eastern Austria with consideration of the use of multivitamin supplements
- 10:00 10:20 **L01** Dvořáková K., **Dindoš M.**, Czech Republic
The healing power of garlic tincture
- 10:20 10:40 **L41** **Szabóová G.**, Tomáš J., Bystrická J., Peltznerová L., Margitanová E., Slovak Republic
Total evaluation of polyphenol content in frozen vegetables
- 10:40 11:00 *Pause*

PARALLEL SESSION "B" ADVANCED DIAGNOSTICS I. Chairs: Hubálek J., Trnková L.

- 09:00 09:20 **L53** **Khaza'ai H.**, Abdul Mutalib M. S., Musa I., Yusuf F., Malaysia
Neuroprotective of tocotrienols in *in vitro* and *in vivo* system
- 09:20 09:40 **L54** **Abd. Mutalib M. S.**, Khaza'ai H., Malaysia
Comparative study of the absorption and distribution of tocotrienols to tocopherols
- 09:40 10:00 **L22** **Chomoucká J.**, Hubálek J., Babula P., Kryštofová O., Adam V., Kizek R., Czech Republic
Quantum dots – possibilities and their application
- 10:00 10:20 **L26** **Trnková L.**, Jelen F., Huska D., Adam V., Kizek R., Czech Republic
An employment of electrochemical methods in nanotechnologies
- 10:20 10:40 **L25** **Babula P.**, Adam V., Horna A., Kizek R., Czech Republic
Nanotechnologies in drugs and pharmaceuticals application
- 10:40 11:00 *Pause*

Final programme

9th International Conference VITAMINS, NUTRITION, DIAGNOSTICS

SESSION OXIDATIVE STRESS Chairs: Ďuračková Z., Lachman J.

- 11:00 11:20 **L05** **Lachman J.**, Hamouz K., Orsák, M., Hejtmánková A., Pivec V., Czech Republic
Factors affecting high antioxidant content and activity in novel foods - coloured potatoes, red grapes and wines and minority crops
- 11:20 11:40 **L06** **Ďuračková Z.**, Slovak Republic
Present look at oxidative stress
- 11:40 12:00 **L07** **Muchová J.**, Paduchová Z., Nagyová Z., Ďuračková Z., Slovak Republic
Biomodulating effect of omega-3 fatty acids on lipid profile and oxidative stress in children suffering from hypercholesterolemia
- 12:00 12:20 **L42** **Peltznerová L.**, Tomáš J., Musilová J., Margitánová E., Slovak Republic
Antioxidant activity of *Solanum Tuberosum* l. Cultivated in soil contaminated by lead
- 12:20 12:40 **L39** **Křížová L.**, Vollmannová A., Bystrická J., Margitanová E., Slovak Republic
Antioxidant activity in small forest fruits
- 12:40 13:40 *Pause (lunch)*

SESSION ADVANCED DIAGNOSTICS II. Chairs: Van Elsacker G., Maruška A.

- 13:40 14:00 **L08** **Oravec S.**, Dukát A., Gavorník P., Kučera M., Očadlík I., Blažíček P., Slovak Republic
Dyslipoproteinemia and arterial hypertension, (importance of ldl-subfractions determination)
- 14:00 14:20 **L09** **Čaprnda M.**, Slovak Republic, Lietava J., Slovak Republic, Mustafa A., Finland, Blažíček P., Slovak Republic, Dukát A., Slovak Republic, Fodor JG, Canada, Hänninen O., Finland
Low levels of glutathione and hyperhomocysteinemia in postmenopausal women with ischemic heart disease
- 14:20 14:40 **L47** Wishart D., Newbolt S., **Van Elsacker G.**, Czech Republic
SKAC Sharing knowledge against cancer
- 14:40 15:00 **L48** **Eidi A.**, Eidi M., Fazaeli R., Pouyan O., Shahmohammadi P., Iran
Correlation between seminal plasma selenium concentration and semen parameters
- 15:00 15:15** **Poster Awards**
Invitation to 10th International Nutrition and Diagnostics Conference, Prague, September 4-7, 2010
Closing Ceremony
- 15:15 16:00** **Farewell Reception**