



International Symposium of  
AOAC Europe Section

# Quality Control of Botanicals, TCM, Herbal Food Supplements and Herbal Medicinal Products

Monday 10<sup>th</sup> to Wednesday 12<sup>th</sup>  
October 2011

**University Erlangen-Nuremberg**



## INTRODUCTION and PROGRAM

The importance of plant based products is increasing rapidly within the European Community. Food products, Novel Foods, Traditional Chinese Medicines (TCM), Herbal Medicinal Products (HMPs) and Food Supplements, containing herbal materials have to be controlled by modern analytical techniques regarding their identity, potential adulteration with toxic plant species and contaminants, e.g. pesticides, mycotoxins, heavy metals, fumigants, etc., as well as microbial contamination. Especially for chemical contaminants there are binding legal limits (MRLs) established within the EC, which have to be controlled by experienced and accredited laboratories. For a quality control laboratory it is essential to use state-of-the-art equipment and validated methods for all required tests.

AOAC Europe Section and the main sponsor PhytoLab are proud to present the most advanced findings in QC of botanical products and have invited key speakers in the field. Amongst the areas covered by previous workshops, key topics have been selected and well-known speakers have been invited:

## **Monday 10th October 2011**

- 11h00 – 12h30* REGISTRATION
- 12h30 – 13h00* OPENING
- 13h00 – 13h30* Harmonised criteria for the characterisation of botanical preparations – BOTTEX B. – EFSA, Parma, ITALY
- 13h30 – 14h00* Herbal Food Supplements – an Emerging Risk? – NICOLAIDOU-KANARI P. – Director State General Laboratory, CYPRUS
- 14h00 – 14h30* Comprehensive analytical chemistry – the key to unlocking the safety assessment of naturals – RUSSELL P. J. – Unilever, U.K.
- 14h30 – 15h00* Challenges in the development of quality control monographs for Chinese herbs – BAUER R. – University of Graz, AUSTRIA
- 15h00 – 15h30* COFFEE BREAK
- 15h30 – 16h00* Comprehensive two-dimensional gas chromatography (GCxGC-MS) for the quality control of traditional Chinese medicine – VON TROTHA A.-F. – University of Wuppertal, GERMANY
- 16h00 - 16h30* HPTLC for identification of botanicals and their adulterants – ANKLI A. – CAMAG Laboratory, SWITZERLAND
- 16h30 – 17h00* Identification and Quantitation of analytical markers for herbal medicinal products by UHPLC-DAD/MS – KERST M. – HWI Analytik GmbH, Rülzheim, GERMANY
- 17h00 – 17h30* Analysis of alpha-Dicarbonyl Profiles in High Fructose Corn Syrup – GENSBERGER S. – University of Erlangen-Nuremberg, GERMANY

## **Tuesday 11th October 2011**

- 08h30 – 12h00 Excursion / Poster Session
- 12h00 – 13h00 BUFFET LUNCH
- 13h00 – 13h30 Comprehensive Application of State of the Art but High Standard Analytical Tools as Essential Part of 'Phytoneering' at BIONORICA – ABEL G. – Bionorica SE, Neumarkt/Opf., GERMANY
- 13h30 – 14h00 Novel Infrared Spectroscopic and Imaging Tools for Quality Control – HUCK C. W. – University of Innsbruck, AUSTRIA
- 14h00 – 14h30 LCMS in the Quality Assessment of Herbal Medicine: an Industrial Perspective – PAPAGIANNOPOULOS M. – Weleda AG, Schwäbisch Gmünd, GERMANY
- 14h30 – 15h00 Capillary electrophoresis and capillary electrochromatography – Suitable for quality control and routine analysis of herbal drugs? – GANZERA M. – University of Innsbruck, AUSTRIA
- 15h00 – 15h30 COFFEE BREAK
- 15h30 – 16h00 Innovative Eco-HPLC Method for the Quantitative Determination of Anthocyanins – STUERTZ M. – Symrise AG, Holzminden, GERMANY
- 16h00 – 16h30 Legal requirements for the control of contaminants in herbal medicinal products and related areas – STEINHOFF B. – German Medicines Manufacturers' Association (BAH), Bonn, GERMANY
- 16h30 – 17h00 Risk Management for Contaminants of Herbal Substances and Herbal Preparations – KLIER B. – PhytoLab GmbH & Co. KG, Vestenbergsgreuth, GERMANY
- 17h00 – 17h30 The valiant little LC-MS/MS: seven allergens in one blow – POEPPING B. – Eurofins, U. K.

## Wednesday 12th October

- 08h30 – 09h00 Identification and Quantitation of pesticides in Tea and Herbal Extracts using Triple Quadrupole LC/MS with Triggered MRM (tMRM) Acquisition – GLAUNER T. – Agilent Technologies, GERMANY
- 09h00 – 09h30 Non-Targeted Screening for Food Residues using High Resolution Accurate Mass LC-MS/MS and Statistical Data Processing – SCHREIBER A. – AB Sciex, CANADA
- 09h30 – 10h00 Nuclear Magnetic Resonance Based Screening Tool for Quality Control of Botanicals – COLSON K. L. – Bruker BioSpin, USA
- 10h00 – 10h30 COFFEE BREAK
- 10h30 – 11h00 Improving the Analysis of Herbal Medicinal Products by Fused Core<sup>TM</sup> particle technology and systematic evaluation of different Liquid Chromatography Stationary Phase Chemistries – MICHEL F. – Sigma-Aldrich, GERMANY
- 11h00 – 11h30 Non-Targeted Searching for Food Contaminants using Orbitrap High Resolution Mass Spectrometry – GODULA M. – Thermo Fisher Scientific, GERMANY
- 11h30 – 12h00 Profiling of Flavonoid Isomers in Highly Complex Citrus Juice Samples using UPLC Ion Mobility Time of Flight Mass Spectrometry – RONTREE S. – Waters Corporation, U.K.
- 12h00 – 12h30 Characterization of Nutrients, Actives and Exogenous Compounds in Herbal Supplements and Nutraceuticals Using UHPLC-Multi-reflecting Time-of-flight Mass Spectrometry - Comparison of Suppliers and Dosage forms of Green Tea, Performance Enhancers and Acai Berry Extracts – WENDT J. – LECO Separation Sciences, GERMANY
- 12h30 – 13h00 FAREWELL AND MEETING CLOSURE

The symposium is aimed at laboratory managers as well as researchers and students, specialized in the field of herbal products to provide an update on recent developments as well as forming a discussion platform between scientists from contract, academic and public laboratories.

Part of the symposium will be an excursion to the Martin Bauer Group, the leading group of companies in Teas, Extracts and Botanicals. Participants will enjoy a factory tour as well as a lab tour through PhytoLab's facilities. The excursion is limited to max. 50 participants. An early registration is recommended.

## **CALL FOR POSTERS**

Abstracts of Posters related to one of the above areas are also welcome before August 31st (150 words max). Please send to: klaus.reif@phytolab.de. Posters will be reviewed by the Scientific Committee for formal approval. The max. poster size is A0 (1 m x 1.25 m).

## **BEST POSTER AWARD**

As previously, the most innovative work will be presented with the AOAC EUROPE BEST POSTER AWARD. The winner will be granted free attendance to the 2012 AOAC Europe Symposium in Copenhagen/Denmark including travel expenses.

## **LANGUAGE**

The official language of the symposium (posters and oral presentations) will be English.

## **LOCATION**

The symposium will take place at Castle Erlangen in the heart of Erlangen. The castle is part of the University of Erlangen-Nuremberg.

It can be easily reached by Nuremberg Airport or by train (Erlangen Main Train Station).

## ACCOMMODATION

There are many hotels in Erlangen available. A contingent of rooms has been reserved for participants with special rates. Please contact:

### Tourist-Information Erlangen

Rathausplatz 3 . 91052 Erlangen . E-mail: Karin.Strebel@etm-er.de  
Tel.: +49 (0) 9131/895111 . Fax: +49 (0) 9131/895151

## INTERNET

More details about the venue are available on:  
[www.aoaceurope.com](http://www.aoaceurope.com) . [www.phytolab.com](http://www.phytolab.com) . [www.gdch.de](http://www.gdch.de)

## CONTACTS

For all general information and registration matters please contact:

### AOAC Europe Section

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## IMPORTANT DATES

Posters Abstracts Deadline\* / Registration / Hotel booking: **31 August 2011**

\* last minute posters might be accepted, subjected to the approval of the Scientific Committee members

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# REGISTRATION FORM

## International Symposium of AOAC Europe Section

“Quality Control of Botanicals, Herbal Food Supplements and Herbal Medicinal Products”

Contaminants (Mycotoxins, Pesticides, Heavy Metals), Identity, Adulterations, Active compounds, Regulatory Aspects

Title (Mr/Ms/Dr) / First name / Family name:	
Organisation:	
Street / Postal code / City / Country:	
Telephone / Fax / E-mail:	
Date:	Signature:

GDCh or AOAC Member

AOAC Non Member

Student

I disagree that my contact info will be forwarded to the exhibitors

I will attend the excursion

Please return to: Dr. Klaus Reif (see “CONTACTS”)

## REGISTRATION FEES (VAT incl.)

**GDCh or AOAC Members**

**300 EUR**

**AOAC Non Members**

**350 EUR**

**Students**

**100 EUR**

**! CREDIT CARDS CANNOT BE ACCEPTED**

The registration fee includes:

- admittance to all scientific sessions
- lunch, coffee and refreshments
- exhibition

Registration becomes definitive only when payment has been received by AOAC Europe Section:

For international transfers please use the following codes:

IBAN : BE08 3200 3197 5213 (ING Bank Belgium)

BIC : BBRUBEBB

### REFUND / CANCELLATION POLICY

The registration fee will be refunded if notice of cancellation is received by August 31st, 2011. After that date no refunding is possible. Registration is not considered final until fees have been paid.

The Executive Committee of AOAC Europe Section may cancel the symposium because of insufficient enrollment or other unforeseen circumstances. If the symposium will be canceled, the Executive Committee of AOAC Europe Section will refund registration fees but cannot be held responsible for other costs, charges, or expenses, including cancellation/change charges assessed by airlines or travel agencies.