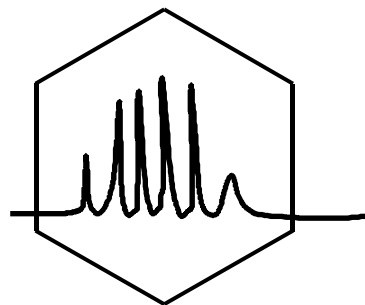


**INSTITUTE OF CHEMISTRY, UNIVERSITY OF SILESIA,  
KATOWICE, POLAND**



**THE XXXIV<sup>th</sup>  
SYMPOSIUM**

**CHROMATOGRAPHIC METHODS  
OF INVESTIGATING THE ORGANIC COMPOUNDS**

**JUNE 8<sup>th</sup> – 10<sup>th</sup>, 2011**

**KATOWICE – SZCZYRK  
POLAND**

**PROGRAM**

## **SCIENTIFIC COMMITTEE OF THE SYMPOSIUM**

Teresa Kowalska (Katowice, Poland)  
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Kornelia Tekes (Budapest, Hungary)  
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Grzegorz Zięba (Katowice, Poland)

**SESSION I WEDNESDAY, JUNE 8<sup>th</sup>, 2011**

**CHAIRPERSONS:** D. Agbaba and R. Kaliszan

**9.25 – 9.30 am OPENING ADDRESS**

**9.30 – 10.00 am**

1. New effects with new chiral stationary phases for liquid-phase enantioseparation techniques

B. Chankvetadze

**10.00 – 10.30 am**

2. Application of monolithic chromatography in drug discovery and development

Y. Vander Heyden

**10.30 -11.00 am**

3. The impact of stationary phase backbone on HILIC selectivity

W. Lindner, W. Bicker, G. Schuster

**SESSION II WEDNESDAY, JUNE 8<sup>th</sup>, 2011**

**CHAIRPERSONS:** M. Waksmundzka-Hajnos and H. Kalasz

**11.30 – 12.00 am**

4. QSRR: Extrathermodynamic vs. thermodynamic modeling of chromatographic retention

R. Kaliszan

**12.00 – 12.30 am**

5. Analysis of the chromatographic column efficiency packed with the totally and superficially porous particles and their separation power

K. Kaczmarek

**12.30 – 1.00 pm**

6. Molecular rotors in thin-layer chromatography

J. Polański, M. Sajewicz, M. Knaś, M. Gontarska, T. Kowalska

**1.30 pm LUNCH**

**POSTER SESSION I WEDNESDAY, JUNE 8<sup>th</sup>, 2011**

**CHAIRPERSONS:** T. Kowalska and Ž. Tešić

**3.00 – 5.00 pm (COFFEE BREAK)**

**6.00 pm BONFIRE**

**SESSION III THURSDAY, JUNE 9<sup>th</sup>, 2011**

**CHAIRPERSONS:** W. Lindner and A. Voelkel

**9.30 – 10.00 am**

7. Thin-layer chromatography with biodetection to screen plant extracts for the presence of potential drugs

M. Waksmundzka-Hajnos, Ł. Cieśla

**10.00 – 10.30 am**

8. Investigation of vegetable triterpenoids and phytosterols by chromatography and mass spectrometry

I. Vovk, M. Martelanc, B. Simonovska

**10.30 – 11.00 am**

9. Hyphenated HPTLC for fast analysis of bee's products

E. S. Chernetsova, G. E. Morlock

**SESSION IV THURSDAY, JUNE 9<sup>th</sup>, 2011**

**CHAIRPERSONS:** B. Chankvetadze and Y. Vander Heyden

**11.30 -12.00 am**

10. Update of generic chiral separation strategies for pharmaceutical compounds using chromatographic and electrophoretic techniques

D. Mangelings, H. Ates, K. De Klerck, A. Hendrickx, A. Younes, Y. Vander Heyden

**12.00 -0.30 pm**

11. HPLC monitoring of blood-brain-barrier penetration of certain polar drugs

H. Kalász, K. Tekes, P. Szegi, K. Kuca

**0.30 – 1.00 pm**

12. Tracking of the food-drug interactions including alcohol-drug interaction with different bioanalytical methods

I. Klebovich

**1.30 pm LUNCH**

**POSTER SESSION II THURSDAY, JUNE 9<sup>th</sup>, 2011**

**CHAIRPERSONS:** D. Mangelings and L. Komsta

**3.00 – 5.00 pm (COFFEE BREAK)**

**6.00 pm DINNER**

**SESSION V FRIDAY, JUNE 10<sup>th</sup>, 2011**

**CHAIRPERSONS:** I. Vovk and K. Kaczmariski

**10.00 – 10.30 am**

13. Disadvantages of the current methods of selectivity evaluation in TLC analysis

M. Kobyłka, Ł. Komsta

**10.30 – 11.00 am**

14. A validated reversed phase hplc method for simultaneous determination of aspirin and clopidogrel and their related substances in combined dosage forms

G. Kahsay, A. Van Schepdael, E. Adams

**11.00 – 11.30 am**

15. TLC-DPPH test revisited

Ł. Cieśla, J. Kryszewski, A. Stochmal, M. Waksmundzka-Hajnos

**11.30 am            CLOSING REMARKS**

**11.30 -12.00 am    COFFEE BREAK**

## POSTER SESSION I

1.

Mapping fragmental drug-likeness in the MoStBioDat environment:  
Intramolecular hydrogen bonding motifs in  $\beta$ -ketoenols

A. Bak, T. Magdziarz, A. Kurczyk, J. Polański

2.

Chemometric models for efficient predictions of chromatographic behavior  
of ziprasidone and its impurities

M. Pavlovic, K. Nikolic, A. Smoliński, D. Agbaba

3.

Knowledge discovery in molecular and structural chemical databases

A. Kurczyk, A. Bąk, T. Magdziarz, J. Polański

4.

The influence of heat effect on the peak profiles in overload conditions

J. Kostka, W. Zapała, K. Kaczmarek

5.

Chiral separation in normal-phase liquid chromatography: Enantioselectivity  
of recent polysaccharide-based selectors. Part II. Enantioselectivity at  
optimization conditions

A. A. Younes, D. Mangelings, Y. Vander Heyden



6.

Evaluation of reduced test sets for the development of separation strategies for chiral drug compounds

H. Ates, B. Desmedt, Y. Vander Heyden

7.

Updating a screening strategy for chiral separations in supercritical fluid chromatography with new chlorinated polysaccharide-based selectors

K. De Klerck, G. Parewyck, D. Mangelings, Y. Vander Heyden

8.

The influence of sample matrix composition and injected sample volume on the electrophoretic behaviour of small non-enveloped viruses

I. Oita, H. Halewyck, B. Thys, B. Rombaut, Y. Vander Heyden

9.

Inverse gas chromatography in the examination of modern organic-inorganic hybrid materials

J. Kołodziejek, Ż. Olszak, A. Voelkel

10.

The HPLC study of aqueous and non-aqueous solutions of phenylalanine and phenylglycine

M. Sajewicz, M. Gontarska, N. Kuśmierz, M. Możdżeń, A. Prudnik, T. Kowalska

11.

Quality control of *citri reticulatae pericarpium*: exploratory analysis and discrimination

Ch. Tistaert, A. Szandrach, L. Thierry, B. Dejaegher, Y. Vander Heyden

12.

Study of condensation oscillations with *L*-lactic acid in pure acetonitrile and aqueous ethanol

M. Sajewicz, D. Kronenbach, M. Gontarska, T. Kowalska

13.

The HPLC and optical tracing of the molecular level inhomogeneity with the aqueous ethanol solution of *S*(+)-naproxen

M. Sajewicz, M. Gontarska, A. Rudzka, M. Sosenko, T. Kowalska

## POSTER SESSION II

14.

Stability study of acetylsalicylic acid in solutions by the use of UHPLC/ESI-Q-TOF method

R. Skibiński, Ł. Komsta

15.

Photostability Study of Alopres® tablets

V. Marinkovic, I. Savic, Ivan Savic, K. Nikolic, P. Sibinovic, D. Agbaba

16.

Solid phase extraction for the determination of biogenic amines in dry fermented sausages

E. De Mey, G. Drabik-Markiewicz, M-C. Peeters, G. Derdelinckx, H. Paelinck, T. Kowalska

17.

Determination of the soil-water, octanol-water, and air-water partition coefficients for the twelve benzodiazepines by the means of the reversed-phase thin-layer chromatography

F. Andrić, P. Ristivojević, J. Trifković, Ž. Tešić, D. M. Milojković-Opsenica

18.

Degradation of C.I. Reactive Black 5 using water falling film dielectric barrier discharge. An investigation of carboxylic intermediates by IC

M. Natić, B. Dojčinović, T. Tosti, D. Milojković-Opsenica, Ž. Tešić, D. Manojlović, G. Roglić

19.

Revisiting thin layer chromatography as a lipophilicity determination tool.

Part II. Is silica gel a reliable adsorbent for lipophilicity investigation?

E. Gowin, L. Komsta

20.

Densitometric RP TLC-DPPH method for quantitative evaluation of free radical scavenging activity of N,N'-bis(acetylaceton)ethylenediimine and corresponding copper(II) complex

N. Stevanović, D. Perušković, M. Aleksić, M. Natić, Ž. Tešić, R. Baošić

21.

Application of gas chromatography in experiments on steam gasification and co-gasification of coal and biomass

N. Howaniec, A. Smoliński

22.

Application of gas chromatography in experiments of underground lignite gasification to hydrogen-rich gas

A. Smoliński, K. Stańczyk

23.

The HPLC analysis of the selected extract fractions derived from a variety of the sage (*Salvia*) species

M. Sajewicz, D. Staszek, E. Recmanik, K. Sobczyk, M. Waksmundzka-Hajnos, T. Kowalska

24.

Thin-layer chromatography with micellar mobile phase of aromatic biogenic amines in magnetic field

M. Studziński, K. Stępnik, I. Malinowska

25.

Comparison of GC/MS, GC/ECD and HPLC/DAD techniques in determination of PBDEs in water samples.

I. Fulara, J. Wypych, M. Witoszek, A. Swinarew

26.

Dehydration and analysis of 18-Crown-6 used for anionic polymerization of propylene oxide

A.S. Swinarew, B. Nowakowski, M. Szklarska, B. Swinarew, J. Gabor  
A. Stolarzewicz, I. Fulara, J. Jurek

27.

New CZE-DAD and LC-DAD methods for honeybee venom analysis and standardization of the product.

J. Matysiak, B. Urbaniak, P. Dereziński, Z. J. Kokot

28.

Using gas chromatography to control the functioning of polytrioxane production installation

A. Łodyga, P. Tyński, M. Koziół, D. Minda-Data, Z. Majerczyk

29.

Application of GC analysis in the control of trioxane synthesis using ion-exchange resins as catalysts

A. Łodyga, P. Tyński, D. Minda-Data, M. Koziół, Z. Majerczyk

30.

Determination of volatile components and phenolic acids in *Satureja montana* by GC/MS

J. Rzepa, T. Baj, P. Gorczyca, M. Włodarek, K. Głowniak, M. Waksmundzka-Hajnos, T. Kowalska