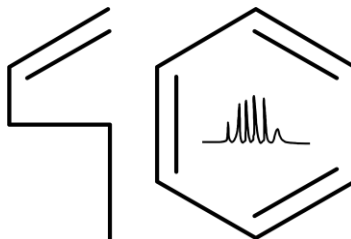


**INSTITUTE OF CHEMISTRY, UNIVERSITY OF SILESIA
KATOWICE, POLAND**



THE 40th SYMPOSIUM

**CHROMATOGRAPHIC METHODS OF INVESTIGATING
THE ORGANIC COMPOUNDS**

MAY 23rd - 26th, 2017

KATOWICE – SZCZYRK, POLAND

PROGRAM

SCIENTIFIC COMMITTEE OF THE SYMPOSIUM

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Andrzej BAŁ (Katowice, Poland)
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Wojciech ZAPAŁA (Rzeszów, Poland)

ORGANIZATION COMMITTEE OF THE SYMPOSIUM

Teresa KOWALSKA (Katowice, Poland)
Krystyna JARZEMBEK (Katowice, Poland)
Violetta KOZIK (Katowice, Poland)

TUESDAY, MAY 23rd, 2017

2.30 pm LUNCH

3.30 – 5.30 pm WORKSHOP

“(HP)TLC combined with bioactivity detection”

Appointed instructor: Dr. Agnes MORICZ

Plant Protection Institute, Hungarian Academy of Sciences,
Budapest, Hungary

7.00 pm DINNER

SESSION I WEDNESDAY, MAY 24th, 2017

CHAIRPERSONS: Danica Agbaba and Anđelija Malenović

8.55 – 9.00 am OPENING ADDRESS

9.00 – 9.30 am

1. Possibilities of instrumental planar chromatography in drug analysis

Slavica Oljačić, Katarina Nikolić, Marija Čarapić, Darija Obradović, Danica Agbaba

9.30 – 10.00 am

2. Novel insights into the pH-dependent retention behavior of analytes in chaotropic chromatography

Anđelija Malenović, Jelena Čolović

10.00 -10.30 am

3. Applications of NIR spectroscopy for qualitative evaluation of substances

Erika Bojnanska, Josef Jampílek

10.30 – 11.00 am COFFEE BREAK

11.00-11.30 am

4. Bioanalytically-supported precision medicine (personalized pharmacotherapy)

Roman Kaliszan

11.30-12.00 am

5. Analysis of basic drugs in pharmaceutical formulations, biological fluids and tissues by HPLC method

Monika Waksmundzka-Hajnos, Anna Petruczynik, Karol Wróblewski

12.00-12.30 am

6. Quantitative structure-retention relationship models based on different computational techniques in micellar liquid chromatography of antipsychotic drugs

Biljana Otašević, Jovana Krmar, Milan Vukićević, Ana Protić, Jelena Golubović, Mira Zečević

1.00 pm LUNCH

SESSION II WEDNESDAY, MAY 24th, 2017

CHAIRPERSONS: Monika Waksmundzka-Hajnos
and Roman Kaliszan

2.30 – 3.00 pm

7. Illustration of the new hybrid optimization method for preparative chromatography column separation using enantiomeric mixtures as a model

Marcin Chutkowski, Jörgen Samuelsson, Marek Leśko, Martin Enmark, Krzysztof Kaczmarek, Erik Forss, Joakim Höglblom, Torgny Fornstedt

3.00 – 3.30 pm

8. Towards ‘sweet spot’ approach: *In silico* estimation of lipophilicity profile for a set of drug transporters

Andrzej Bak, Violetta Kozik, Paulina Dybał, Adam Smoliński, Joseph Jampilek

3.30 – 4.00 pm

9. Whole body autoradiography combined with HPLC

Huba Kalász, Kornélia Tekes

POSTER SESSION I WEDNESDAY, MAY 24th, 2017

CHAIRPERSONS: Marcin Chutkowski and Grzegorz Józwiak

4.00 – 5.30 pm (COFFEE BREAK)

6.30 pm BONFIRE

SESSION III THURSDAY, MAY 25th, 2017

CHAIRPERSONS: Irena Vovk and Danilo Corradini

9.00 – 9.30 am

10. Chromatographic and hyphenated techniques in the development of functional food enriched with xanthophylls

Irena Vovk, Breda Simonovska, Alen Albreht, Eva Kranjc, Lučka Brulc, Vesna Glavnik, Nataša Ferant, Matjaž Červek

9.30 – 10.00 am

11. Capillary electrophoresis and HPLC of biomolecules in agro-food matrices

Danilo Corradini

10.00 – 10.30 am

12. New analytical technologies for natural product research

Günther K. Bonn, Rania Bakry

10.30-11.00 am COFFEE BREAK

11.00 – 11.30 am

13. Identification of bioactive peptides in food matrices by multidimensional liquid chromatography and bioinformatics

Riccardo Zenezini Chiozzi, Francesca Ferraris, Giorgia La Barbera, Carmela Maria Montone, Aldo Laganà

11.30 – 12.00 am

14. How to determine aromatic hydrocarbons in bees and bee products using chromatographic techniques?

Katarzyna Zięba, Agnieszka Moos, Anna Król

12.00 - 12.30 am

15. Being uncertain in thin layer chromatography – some thoughts about latent details in the retention estimation

Łukasz Komsta

1.00 pm LUNCH

SESSION IV THURSDAY, MAY 25th, 2017

CHAIRPERSONS: Agnes Moricz and Gertrud Morlock

2.30 - 3.00 pm

16. Liquid chromatography coupled with bioactivity tests.

HPLC or HPTLC?

Ágnes M. Móricz

3.00 – 3.30 pm

17. Latest research in hyphenated HPTLC

Gertrud Morlock

3.30 – 4.00 pm

18. Thin-layer chromatography-direct bioautography as a semi-quantitative method

Irena Choma

POSTER SESSION II THURSDAY, MAY 25th, 2017

CHAIRPERSONS: Kamilla Acs and Biljana Otašević

4.00 – 5.30 pm (COFFEE BREAK)

7.00 pm GALA DINNER

SESSION V FRIDAY, MAY 26th, 2017

CHAIRPERSONS: Teresa Kowalska and Andrzej Bąk

10.00 – 10.20 am

19. TLC-bioautography: An appropriate test for detection of antibacterial activity of essential oils

Kamilla Ács, Viktória L. Balázs, Béla Kocsis, Andrea Böszörményi, György Schneider, Ágnes Móricz, Péter G. Ott, Györgyi Horváth

10.20 – 10.40 am

20. Biotreatment of styrene, ethanol and dimethyl sulfide mixture in the contaminated airstream using the compact trickle bed bioreactor

Paulina Dybał, Andrzej Bąk, Violetta Kozik, Sławomir Kuś

10.40 – 11.00 am

21. Fatal case of poisoning with a new cathinone derivative, α -propylaminopentiophenone chromatographic and spectroscopic analysis of *postmortem* material

Milena Majchrzak, Rafał Celiński, Mieczysław Sajewicz

11.00 am CLOSING REMARKS

12.00 am LUNCH

POSTER SESSION I

1.

Thin-layer chromatographic identification and quantification of anthocyanins in food products

Agnieszka Fulczyk, Eliza Łata, Mieczysław Sajewicz

2.

Thin-layer chromatographic identification of amino acids in spider web

Magda Michalik, Maja Surmacka, Monika Stalmach, Grażyna Wilczek, Teresa Kowalska, Mieczysław Sajewicz

3.

Identification and quantification of polyphenol compounds in lavender and thyme honeys using high-performance liquid chromatography with diode array detection and electrospray ionization mass spectrometry

Kinga Gyergyák, Éva Horváth, Ágnes Farkas, Borbála Boros

4.

Chromatographic comparison of biological activity of essential oil and two *Acorus calamus* rhizome extracts using TLC with direct bioautography as detection method

Grzegorz Józwiak, Monika Waksmundzka-Hajnos, Barbara Majer-Dziedzic, Aneta Rojek

5.

Lipophilicity of selected terephthalamides

Violetta Kozik, Andrzej Bąk, Krystyna Jarzembek, Paulina Dybał, Danuta Pentak, Barbara Hachuła, Marcin Rojkiewicz, Aleksandra Świetlicka, Dominika Bożek, Joanna Kozłowska, Piotr Kuś

6.

Determination of selected pollutants in fuel samples

Violetta Kozik, Andrzej Bąk, Krystyna Jarzembek, Paulina Dybał, Agata Nobis, Janusz Klecki, Danuta Pentak, Katarzyna Sikora, Klaudia Haśnik

7.

Determination of the lipophilicity of selected furanosteroids

Małgorzata Dołowy, Alina Pyka-Pająk, Marcin Pacholczyk

8.

Synthesis of crown thiaethers – potential complexing agents for transition metals

Hubert Hellwig, Piotr Kuś

9.

Voltammetric Determination of Heavy Metals in Green and Black Tea

Alexandra Planková, Ľubomír Švorc, Josef Jampílek, Peter Mikuš

10.

Thin-layer chromatographic analysis of stanozolol

Małgorzata Dołowy, Karolina Chrystow-Chrystow, Alina Pyka-Pająk, Krzysztof Marciniak

11.

Identification of instability products of the cathinone derivatives

Jakub Wantulok, Krzysztof Byrdy, Tadeusz Paździorek, Jacek

E. Nycz

12.

Separation and quantitation of selected water-soluble vitamins
using different HILIC stationary phases

Justyna Kamińska, Lidia Zapała, Marcin Chutkowski, Piotr
Ziobrowski, Wojciech Zapała

13.

Comparison of isocratic retention models for hydrophilic
interaction liquid chromatography

Justyna Kamińska, Lidia Zapała, Marcin Chutkowski, Piotr
Ziobrowski, Wojciech Zapała

14.

Multivariate analysis of variance of designed chromatographic
data

Danuta Liberda, Jade Tobin, Dalene de Beer, Beata Walczak

15.

Simple and rapid screening procedure for 66 synthetic cannabinoids by liquid chromatography-tandem mass spectrometry

Katarzyna Ambroziak, Piotr Adamowicz

POSTER SESSION II

1.

Chromatographic determination of phenolic compounds in commercial samples of *Cistus incanus* L

Magdalena Knaś, Dariusz Szeremeta, Alicja Król, Karolina Męcik, Ewa Długosz, Paweł Olczyk, Teresa Kowalska, Mieczysław Sajewicz

2.

Development and validation of RP HPLC method for determination of cyanocobalamin and phenol in pharmaceutical dosage form

Branka Ivković, Jasmina Brborić, Olivera Čudina

3.

Analysis of retention behavior of selected antipsychotics and their impurities by thin layer chromatography

Slavica Oljačić, Anđela Arsić, Darija Obradović, Katarina Nikolić, Danica Agbaba

4.

Characterization of unknown impurity of ziprasidone with new UPLC MS/MS method

Marija Čarapić, Katarina Nikolic, Bojan Marković, Danica Agbaba

5.

Metabolite profiling of MAO-A inhibitor – moclobemide with the use of human liver microsomes and LC-MS method

Maciej Gawlik, Robert Skibiński

6.

Streamlined workflow to discover antibiotics

Gertrud Morlock, M. Jamshidi-Aidji

7.

Validation of RP HPLC method for quantitative analysis of antiretrovirals drugs in human plasma samples

Nemanja Turković, Branka Ivković, Božana Dimitrijević, Ivan Kovačević, Radmila Novaković, Gordana Dragović Lukić, Zorica Vujić

8.

Application of a polynomial modified Gaussian model and a half-width plot approach to describe chromatographic peaks and reveal column performance in chaotropic chromatography

Jelena Čolović, Andelija Malenović

9.

Robustness testing of chaotropic chromatography method for the determination of olanzapin and its two impurities

Milena Rmandić, Jelena Čolović, Andelija Malenović

10.

Influence of selected mobile phase properties on the TLC retention behavior of ziprasidone and its impurities

Darija Obradović, Slavica Oljačić, Katarina Nikolić, Danica Agbaba

11.

TLC-Bioautography as an appropriate technique for screening anti-*haemophilus* activity of essential oils

Viktória Lilla Balázs, Béla Kocsis, Judit Krisch, Györgyi Horváth

12.

Comparative analysis between chromatographically and computationally estimated lipophilicity descriptors of synthetic rhamnolipids

Jovana Krmar, Biljana Otašević, Ana Protić, Jelena Golubović, Mira Zečević, Nevena Maljurić

13.

Lipophilicity of some quinothiadiazine derivatives

Maria J. Maślankiewicz, E. Chrobak, Danuta Pentak, Danuta Kwapulińska

14.

Determination of 1,2-dichloroethane as relevant impurity of ethephon using HS-GC-MS technique

M. Płonka, M. Miszczyk, D. Kronenbach-Dylong, Patrycja Marczevska, Mieczysław Sajewicz

15.

Office Chromatography - do it yourself!

G. Morlock, D. Fichou