

# Analysdagarna 2014

Programme

Kemiportalen  
Djurönäset, Sweden  
9-11 June



# Programme Analysdagarna 2014

## Monday 09 June

11.00-13.00	<b>Registration and lunch</b>
<b>Main building, Kongressen</b>	<b>Plenary session</b> <i>Chair: Anders Colmsjö</i>
13.00-13.05	<i>Opening and welcome</i>
13.05-13.15	<b>Prize ceremony</b>
13.15-14.00	<b>Torbern Bergman lecture:</b> Electrogenerated chemiluminescence - Past, present and future <b>Allen Bard</b> , University of Texas at Austin, USA
14.00-14.45	<b>Torbern Bergman lecture:</b> At 80: The joy of uncovering truths of nature while creating people-serving products <b>Adam Heller</b> , University of Texas at Austin, USA
14.45-15.15	<b>Coffee, Exhibition and Posters</b>

## Monday 09 June (Parallel 1)

<b>Building 7, 7A</b>	<b>Electroanalytical chemistry (Part I)</b> <i>Chair: Lo Gorton</i>
15.15-15.45	Designing and characterising bioaffinity surfaces for biosensing <b>Justin Gooding</b> , The University of New South Wales, Australia
15.45-16.15	Principles of direct (mediator free) bioelectrocatalysis <b>Arkady Karyakin</b> , M.V. Lomonosov Moscow State University, Russia
16.15-16.45	Enantioselective recognition at mesoporous chiral metal surfaces <b>Alexander Kuhn</b> , University Bordeaux, France
16.45-17.00	<b>Short break</b>
<b>Building 7, 7A</b>	<b>Electroanalytical chemistry (Part I, cont.)</b> <i>Chair: Lo Gorton</i>
17.00-17.30	Multi-sensor platforms for ion measurement of low-volume biological liquids <b>Andrzej Lewenstam</b> , Åbo Akademi University, Finland
17.30-17.45	Photo-electrochemical communication between cyanobacteria and osmium redox polymer modified electrodes <b>Kamrul Hasan</b> , Lund University, Sweden
19.30	<b>Dinner</b>

## Monday 09 June (Parallel 2)

<b>Building 4, 4A</b>	<b>MS-omics and bioinformatics</b> <i>Chair: Jonas Bergquist</i>
15.15-15.45	From MS data to systems biology applications in medicine – with specific emphasis on metabolic disorders and their co-morbidities <b>Matej Orešič</b> , Steno Diabetes Center, Denmark
15.45-16.15	A MS based digital biobank for improved understanding of blood plasma protein dynamics in severe infectious disease <b>Johan Malmström</b> , Lund University, Sweden
16.15-16.45	Bioinformatics in studies of protein function <b>Bengt Persson</b> , BILS/SciLifeLab Uppsala University, Sweden
16.45-17.00	<b>Short break</b>
<b>Building 4, 4A</b>	<b>MS-omics and bioinformatics (cont.)</b> <i>Chair: Jonas Bergquist</i>
17.00-17.15	Quantitative analysis of endogenous steroids by high resolution GC–MS/MS for clinical diagnosis <b>Neil de Kock</b> , Uppsala University, Sweden
17.15-17.30	High resolution metabolite imaging following neonatal exposure to the environmental toxin BMAA using multimodal imaging mass spectrometry <b>Jörg Hanrieder</b> , Chalmers University of Technology, Sweden
17.30-17.45	Untargeted analysis methods for response against acute toxicity <b>Erik Tengstrand</b> , Stockholm University, Sweden
17.45-18.00	Digestion of some model proteins for therapeutic proteins in blood plasma with thermolysin and quantification of the peptides by LC/LC-MS/MS <b>Aljona Saleh</b> , Stockholm University, Sweden
18.00-18.15	Investigating GLP1's anti-lipotoxicity function by targeted lipidomics approach <b>Jia Mi</b> , Uppsala University, Sweden
18.15-18.30	Retention-activity relationship of D-optimal mixed turpentine on fungal growth <b>Joel Ljunggren</b> , Mid Sweden University, Sweden
18.30-19.00	Annual proceedings, Swedish Mass Spectrometry Society (SMSS)
19.30	<b>Dinner</b>

## Monday 09 June (Parallel 3)

<b>Building 4 4E</b>	<b>Vibrational spectroscopy</b> <i>Chair: Lars Österlund</i>
15.15-15.45	Mid-IR quantum cascade lasers - New opportunities for analytical chemistry <b>Bernard Lendl</b> , Vienna University of Technology, Austria
15.45-16.15	Can vibrational spectroscopy tell us how proteins work? <b>Kenneth Rotschild</b> , Boston University, USA
16.15-16.45	Interpretation of delicate IR and Raman spectroscopy data assisted by computational chemistry <b>Patrik Johansson</b> , Chalmers University of Technology, Sweden
16.45-17.00	<b>Short break</b>
<b>Building 4 4E</b>	<b>Vibrational spectroscopy (cont.)</b> <i>Chair: Lars Österlund</i>
17.00-17.30	Vibrational spectroscopy goes Jurassic <b>Per Uvdal</b> , Lund University, Sweden
17.30-18.00	On the nitrogen doping mechanism in small diameter single walled carbon nanotubes - Electronic properties and growth selectivity, studied by Raman spectroscopy <b>Thomas Wågberg</b> , Umeå University, Sweden
18.00-18.30	Raman spectroscopy in forest industry - From concepts to applications <b>Leonardo Galvis Rojas</b> , Aalto University, Finland
18.30-19.15	Annual proceedings, Vibrational Spectroscopy
19.30	<b>Dinner</b>

## Tuesday 10 June (Parallel 1)

### Building 7, Electroanalytical chemistry (Part II)

7A

*Chair: Lo Gorton*

- 09.00-09.30 Microelectrochemistry meets electrocatalysis. New analytical tools for visualization of localized electrocatalytic activity  
**Wolfgang Schuhmann**, Ruhr University (RUB), Germany
- 09.30-10.00 Nanocomposite and nanostructure toward in vivo and vitro electroanalysis  
**Lin Yuqing**, Capital Normal University, China
- 10.00-10.15 Using artificial cells for probing the effect of cholesterol on membrane dynamics for exocytosis  
**Neda Najafinobar**, Chalmers University of Technology, Sweden

10.15-10.45 **Coffee, exhibition and poster session (odd numbers)**

### Building 7, Electroanalytical chemistry (Part II, cont.)

7A

*Chair: Lo Gorton*

- 10.45-11.15 Nanomotor-based biosensing - Nanoscale motion transduction and isolation  
**Joseph Wang**, UCSD, USA
- 11.15-11.30 In vivo electrochemical measurements of optogenetic-stimulated release of single varicosities in *Drosophila melanogaster* larvae  
**Soodabeh Majdi**, Chalmers University of Technology, Sweden

11.30-13.00 **Lunch**

### Building 7 Inorganic analytical chemistry

7A

*Chair: Jean Petterson*

- 13.00-13.30 Element analysis of small objects by inductively coupled plasma MS and laser ablation-ICP-MS  
**Detlef Günter**, ETH Zürich, Switzerland
- 13.30-14.00 Elemental analysis by ICP-MS in clinical chemistry – Diagnosis and monitoring of metabolic diseases  
**Niklas Forsgård**, Sahlgrenska University Hospital, Sweden
- 14.00-14.30 The big four – The four metals on the top 10 list of priority chemicals of public health concern and the monitoring of their levels in food stuff  
**Barbro Kollander**, National Food Agency, Sweden

14.30-15.00 **Coffee, exhibition and poster session (even numbers)**

### Building 7 Inorganic analytical chemistry (cont.)

7A

*Chair: Jean Petterson*

- 15.00-15.30 X-ray fluorescence - The use of handheld XRF analyzers for a direct in situ measurement of elements in waste incineration ashes and waste fuel  
**Bertil Magnusson**, SP Technical Research Institute of Sweden, Sweden
- 15.30-16.00 SCGD - The analytical spark  
**David Mamström**, Swerea KIMAB, Sweden
- 16.00-16.15 Exploring metallomics - Challenges and methodology  
**Marcus Korvela**, Uppsala University, Sweden
- 16.15-16.30 Calibration procedures at certification analyses for production of certified reference materials (CRMs)  
**Ingemar Gustavsson**, Gustavsson Consulting, Sweden
- 16.30-16.45 Some newer developments in elemental C, N, O analysis  
**Sven-Erik Bäckman**, Degerfors Laboratorium AB, Sweden

17.30-18.00 Annual proceedings, Analytical division within the Swedish Chemical Society (Building 7, 7A)

18.30-19.15 Football

20.00 **Dinner**

## Tuesday 10 June (Parallel 2)

- Building 4, 4A**      **NoSSS 7th Symposium - Advances in separation science (Part I)**
- Advances in HPLC*  
*Chair: Douglas Westerlund*
- 09.00-09.45      Columns in analytical high performance liquid chromatography (HPLC) - Latest developments and results  
**Klaus Unger**, Johannes Gutenberg University, Germany
- 09.45-10.15      Recent advances in hydrophilic interaction liquid chromatography  
**David McCalley**, University of the West of England, UK
- 10.15-10.45      **Coffee, exhibition and poster session (odd numbers)**
- Building 4, 4A**      **NoSSS 7th Symposium - Advances in separation science (Part I, cont.)**
- Sample preparation and bioanalytical applications*  
*Chair: Marja-Liisa Riekkola*
- 10.45-11.15      Liquid-phase microextraction based on passive diffusion and electro-kinetic transport – An overview of different extraction principles and technical configurations  
**Stig Pedersen-Bjergaard**, University of Oslo, Norway
- 11.15-11.30      Simultaneous determination of acylcarnitines and acylcoenzyme A's in rat heart tissue homogenate samples by UPLC-MS-MS  
**Eduards Sevostjanovs**, Latvian Institute of Organic Synthesis, Latvia
- 11.30-13.00      **Lunch**
- Building 4, 4A**      **NoSSS 7th Symposium - Advances in separation science (Part I, cont)**
- 13.00-13.30      Coupling solid-liquid extraction and capillary electrophoresis via a digital microfluidic interface - A preliminary study  
**Mihkel Kaljurand**, Tallinn University of Technology, Estonia
- Separation science in biomolecular studies*  
*Chair: Jonas Bergquist*
- 13.30-13.45      Some general view-points on the design and the interpretation of experiments of the type electrophoresis, chromatography, diffusion, sedimentation...  
**Stellan Hjertén**, Uppsala University, Sweden
- 14.00-14.30      Partial filling affinity capillary electrophoresis – Flexible technique for biomolecular interaction studies  
**Marja-Liisa Riekkola**, University of Helsinki, Finland
- 14.30-15.00      **Coffee, exhibition and poster session (even numbers)**
- Building 4, 4A**      **NoSSS 7th Symposium - Advances in separation science (Part I, cont.)**
- HPLC applications and advances in SFC*  
*Chair: Stellan Hjertén*
- 15.00-15.30      Development and application of separation and related techniques for phytochemical, environmental and food analysis  
**Audrius Maruska**, Vytautas Magnus University, Lithuania

## Tuesday 10 June (Parallel 2, cont.)

15.30-16.00	Normal phase enantioseparation of phenylpiracetam derivatives on polysaccharide-based chiral stationary phases <b>Helena Kažoka</b> , Latvian Institute of Organic Synthesis (LOSI), Latvia
16.00-16.30	Towards more reliable and predictable analytical & preparative supercritical fluid chromatography <b>Torgny Fornstedt</b> , Karlstad University, Sweden
16.30-16.45	Ligninolytic fungi in bioremediation - Screening and evaluation of potential for degradation of PAHs <b>Nicola Tiso</b> , Vytautas Magnus University, Lithuania
16.45-17.00	Sampling and identification of coal tar resistant fungi found on wooden railway sleepers <b>Jurgita Mikasauskaitė</b> , Vytautas Magnus University, Lithuania
17.30-18.00	Annual proceedings, Analytical division within the Swedish Chemical Society (Building 7, 7A)
18.30-19.15	Football
20.00	<b>Dinner</b>

## Tuesday 10 June (Parallel 3)

### Building 4, Analytical methods for test of suspicious illegal pharmaceutical products

4E

Chair: *Torbjörn Arvidsson*

09.00-09.30 Illegal medicines - A challenge for analytical chemists, a threat for public health

**Eric Deconinck**, WIV-ISP (The Scientific Institute of Public Health), Belgium

09.30-10.00 Screening suspected illegal products in the search for active pharmaceutical products

**Monika Johansson**, Medical Products Agency, Sweden

10.00-10.15 Rapid testing of drug samples with DSA

**Jan Nordin**, Chemalys, Sweden

10.15-10.45 **Coffee, exhibition and poster session (odd numbers)**

### Building 4, Micro and nano scale analysis

4E

Chair: *Åsa Emmer*

10.45-11.15 The multifunctional pipette for single cell and tissue analysis

**Aldo Jesorka**, Chalmers University of Technology, Sweden

11.15-11.45 The potential of microfluidic devices for applications in drug analysis

**Jörg Kutter**, University of Copenhagen, Denmark

11.45-13.00 **Lunch**

### Building 4, Micro and nano scale analysis (cont.)

4E

Chair: *Åsa Emmer*

13.00-13.30 Acoustofluidic strategies to cell specific separation and submicrometer bioparticle enrichment

**Thomas Laurell**, Lund University, Sweden

13.30-13.45 Glycan profiling of therapeutic and disease specific proteins using a centrifugal microfluidic system and MALDI-MS

**Gunnar Thorsén**, Stockholm University, Sweden

13.45-14.00 Detection of amyloid  $\beta$ -peptides in cerebrospinal fluid and blood plasma with immunoprecipitation-MALDI-TOF-MS, using micropillar targets on a silicon chip

**Johan Jacksén**, KTH Royal Institute of Technology, Sweden

### Building 4, General session (Part I)

4E

Chair:

14.00-14.15 Strategy for tracking protein transformations. Improved detection of modified aminoacids

**Javier Zurita**, Stockholm University, Sweden

14.15-14.30 Proteomic studies on aqueous humor in eyes with pseudoexfoliation syndrome

**Amelie Botling Taube**, Uppsala University, Sweden

14.30-15.00 **Coffee, exhibition and poster session (even numbers)**

### Building 4, General session (Part I, cont.)

4E

Chair:

15.00-15.15 The effect of flow rate on chiral selectivity and resolution in SFC: Conventional wisdom is not always the best advice

**Mandana Fasth**, Phenomenex, Sweden

15.15-15.30 ChromSword® software for computer-assisted and automated HPLC method development

**Sergey Galushko**, ChromSword Team, Germany



## Tuesday 10 June (Parallel 3, cont.)

15.30-15.45	Crystal polymorph analysis by Raman spectroscopy for medicine development <b>Mats Grapne-Askfelt</b> , Kovalent AB, Sweden
15.45-16.00	Separating beyond question – Bringing the power of mass detection to you with the Acquity QDa detector <b>Per Ragneborn</b> , Waters Sweden, Sweden
16.00-16.15	$\mu$ DAWN - World's first light scattering detector for UHPLC applications <b>Tomas Sandberg</b> , Wyatt Technology Europe, Sweden
16.15-16.30	GC solutions for high boiling and high volatile compounds <b>Hansjörg Majer</b> , RESTEK/Teknolab Sorbent AB, Sweden
16.30-16.45	MIPs-MEPS online with LC/MS/MS as a tool for extraction and determination of biomarkers in plasma and urine samples <b>Mohammad Mahdi Moein</b> , Stockholm University, Sweden
16.45-17.00	Potent skin allergens identified in chloroprene rubber products <b>Ahmed Ramzy</b> , Stockholm University, Sweden
17.30-18.00	Annual proceedings, Analytical division within the Swedish Chemical Society (Building 7, 7A)
18.30-19.15	Football
20.00	<b>Dinner</b>

## Tuesday 10 June (Parallel 4)

<b>Building 5, 5E</b>	<b>Biorefinery analysis</b> <i>Chair: Fredrik Aldaeus</i>
09.00-09.30	Characterization of cellulose supramolecular structure using solid-state NMR <b>Tomas Larsson</b> , Innventia, Sweden
09.30-10.00	Biorefinery analytics - Challenges along the path from polymer to monomer <b>Antje Potthast</b> , BOKU Vienna, Austria
10.00-10.15	FTIR spectroscopy – Analytical tool for chemical analysis of wood components and wood-based biorefinery products <b>Jasna Stevanic Srdovic</b> , Innventia, Sweden
10.15-10.45	<b>Coffee, exhibition and poster session (odd numbers)</b>
<b>Building 5, 5E</b>	<b>Biorefinery analysis (cont.)</b> <i>Chair: Fredrik Aldaeus</i>
10.45-11.15	Analytical techniques for biorefineries – Did we solve all challenges in COST action FP0901? <b>Stefan Willför</b> , Åbo Akademi University, Finland
11.30-13.00	<b>Lunch</b>
<b>Building 5, 5A</b>	<b>Green and sustainable chemistry</b> , session co-arranged with Organikerdagarna <i>Chair: Charlotta Turner and Ola Wendt</i>
13.00-13.45	Analytical chemistry and benign design <b>Mihkel Koel</b> , Tallinn University of Technology, Estonia
13.45-14.15	Greening analytical liquid chromatography <b>Margareta Sandahl</b> , Lund University, Sweden
14.15-14.45	Lignin - A challenging molecule to transform and analyze <b>Joseph Samec</b> , Uppsala University, Sweden
14.45-15.15	Sustainable, efficient and fast extraction method to determine polyphenols in cocoa and cocoa products <b>Merichel Plaza</b> , Lund University, Sweden
15.15-15.30	Synthesis and investigation of two alternative eco-friendly Al-MCM-41 Catalysts for Friedel–Crafts reaction <b>Demirdogen Ruken Esra</b> , Cankiri Karatekin University, Turkey
15.30-16.00	<b>Coffee and exhibition</b>
17.30-18.00	Annual proceedings, Analytical division within the Swedish Chemical Society (Building 7, 7A)
18.30-19.15	Football
20.00	<b>Dinner</b>

## Wednesday 11 June (Parallel 1)

<b>Building 4, 4A</b>	<b>NoSSS 7th Symposium - Advances in separation science (Part II)</b> <i>Separation of biopharmaceuticals and biomolecules</i> <i>Chair: Staffan Nilsson</i>
09.00-09.45	Analytical aspects of bringing a biopharmaceutical to the market <b>Pat Sandra</b> , Research Institute for Chromatography (RIC), Belgium
09.45-10.15	Microseparations for glycoprotein analysis <b>Frantisek Foret</b> , Institute of Analytical Chemistry ASCR, Czech Republic
10.15-10.45	<b>Coffee, exhibition and posters</b>
10.45-11.30	Comprehensive N-glycosylation characterization of therapeutic antibodies by capillary electrophoresis and CE-MS <b>Andras Guttman</b> , Northeastern University, USA
11.30-13.00	<b>Lunch</b>
<b>Building 4, 4A</b>	<b>NoSSS 7th Symposium - Advances in separation science (Part II, cont.)</b> <i>Separation of biopharmaceuticals and biomolecules (cont.)</i> <i>Chair: Mihkel Kaljurand</i>
13.00-13.30	Challenges and solutions in the structure elucidation of lipopolysaccharides <b>Ferenc Kilár</b> , University of Pécs, Hungary
13.30-14.15	Capillary electrophoresis-mass spectrometry for the characterization of biopharmaceuticals <b>Govert W. Somsen</b> , VU University Amsterdam, The Netherlands
14.15-14.30	Expanding the role of capillary electrophoresis with mass spectrometry detection (CESI-MS) for the development, characterization & control of biologics and proteomics research <b>Steven Lock</b> , AB Sciex, Sweden
14.30-15.00	<b>Coffee and exhibition</b>
<b>Building 4, 4A</b>	<b>NoSSS 7th Symposium - Advances in separation science (Part II, cont.)</b> <i>Separation of biopharmaceuticals and biomolecules (cont.)</i> <i>Chair: Audrius Maruska</i>
15.00-15.15	Portable wireless single chip detector for capillary electrophoresis <b>Tomas Drevinskas</b> , Vytautas Magnus University, Lithuania
15.15-15.45	Searching the pancreatic beta-cell IC2 autoantibody targeted lipid autoantigen by direct scanning HPTLC-DESI MS <b>Carl-Henrik Brogren</b> , Rigshospitalet, Denmark
15.45-16.15	SAW-MALDI MS - Open chip for biomolecule sample handling, painful cell experiments? <b>Staffan Nilsson</b> , Uppsala University, Sweden
16.30-16.45	<b>Concluding remarks on Analysdagarna 2014</b> <i>Chair: Douglas Westerlund</i>

## Wednesday 11 June (Parallel 2)

- Building 5, 5A**      **General session (Part II)**  
*Chair: Anders Colmsjö*
- 09.00-09.15      Analysis of porphyrins in *aggregtibacter actinomycetemcomitans* by liquid chromatography electrospray ionization tandem mass spectrometry  
**Jonas Fyrestam**, Stockholm University, Sweden
- 09.15-09.30      The occurrence of biogenic polysaccharides in aerosols and fog in the summer high Arctic  
**Farshid Mashayekhy Rad**, Stockholm University, Sweden
- 09.30-09.45      When standards are expensive make your own! Combining ion-exchange chromatography with MS and ICP-AES for the characterization of inositols phosphates  
**Julia Paraskova**, Uppsala University, Sweden
- 09.45-10.00      Monodisperse, fully porous particles, a promising new technology for HPLC/UHPLC  
**Jason Wrigley**, Sigma-Aldrich, Sweden

10.00-10.15

10.15-10.45      **Coffee, exhibition and posters**

- Building 5, 5A**      **General session (Part II, cont.)**  
*Chair: Anders Colmsjö*
- 10.45-11.00      Environmental trigger of neurodegeneration: Exploring the non-protein amino acid toxin BMAA and its isomers  
**Leopold Ilag**, Stockholm University, Sweden
- 11.15-11.30      Bayesian deconvolution of one-dimensional chromatograms  
**Magnus Åberg**, Stockholm University, Sweden

11.30-13.00      **Lunch**

- Building 5, 5A**      **General session (Part II, cont.)**  
*Chair: Gunnar Thorsén*
- 13.00-13.15      Analytical quality by design on a firmer theoretical basis  
**Jörgen Samuelsson**, Karlstad University, Sweden
- 13.15-13.30      Characterization of stabilized sodium hyaluronate hydrogels with <sup>1</sup>H-NMR spectroscopy and LC-MS  
**Eva Nilsson**, Galderma, Sweden
- 13.30-13.45      Breath analysis  
**Conny Östman**, Stockholm University, Sweden

14.30-15.00      **Coffee and exhibition**

- 16.30-16.45      **Concluding remarks on Analysdagarna 2014**  
*Chair: Douglas Westerlund*  
(in Room 4A)

## Wednesday 11 June (Parallel 3)

<b>Building 4, Kilen 4</b>	<b>SP Course: Measurement quality in practice according to recommendations in ISO/IEC 17025 &amp; ISO 15189</b>
09.00-10.15	Overview of the elements in ISO/IEC 17025 The basis for a well-functioning laboratory (personnel, competence, accommodation and environmental conditions, method, instrument control etc)
10.15-10.45	<b>Coffee, exhibition and posters</b>
10.45-11.30	Overview of the elements in ISO/IEC 17025 The basis for a well-functioning laboratory (personnel, competence, accommodation and environmental conditions, method, instrument control etc)
11.30-13.00	<b>Lunch</b>
13.00-14.30	How to introduce a new analytical method in the laboratory – what to include in the planning Implementation and documentation of the method validation/verification Setting-up internal and external quality control
14.30-15.00	<b>Coffee and exhibition</b>
15.00-16.30	Measurement uncertainty and metrological traceability Internal audits – examples of practical applications
16.30-16.45	<b>Concluding remarks on Analydagarna 2014</b> <i>Chair: Douglas Westerlund</i> (in Room 4A)

## Poster list Analysdagarna 2014

**Postersessions** Odd numbers – Tuesday 10 June, 10.15-10.45

Even numbers – Tuesday 10 June, 14.30-15.00

- P01** *Analysis of biomass burning tracer compounds in atmospheric aerosols in southern Sweden*  
Hafiz Abdul Azeem, Lund University
- P02** *Studying the supercritical fluid extraction process in real-time using evaporative light scattering detection*  
Victor Abrahamsson, Lund University
- P03** *Effect of various fermentation types on antioxidant properties of selected medicinal – spice plants*  
Ieva Akuneca, Vytautas Magnus University
- P04** *Detection of BMAA and its isomers using N-hydroxysuccinimide ester of N-butyl nicotinic acid (Cn-NA-NHS)*  
Rudolf Andrys, Stockholm University
- P05** *Determination of benzothiazole and benzotriazole derivatives in tire and clothing textile samples by HPLC-ESI-MS/MS*  
Rozanna Avagyan, Stockholm University
- P06** *Comparison of Two Different Green Methods for Formation and Characterization of Superhydrophobic Textile Surfaces*  
Ruken Esra Demirdogen, Cankiri Karatekin University
- P07** *Raffinose-stabilized silver nanoparticles as a novel sorbent for separation, preconcentration and speciation of chromium*  
Lyubomir Djerahov, Sofia University St. Kl. Ohridski
- P08** *Microarray electrodes for chemically imaging release from cells*  
Johan Dunevall, Chalmers University of Technology
- P09** *Characterization, Isolation, and Quantitation of Capsaicinoids in Chili Peppers and Hot Sauces*  
Mandana Fasth, Phenomenex Aps
- P10** *Coupling solid-liquid extraction and capillary electrophoresis via a digital microfluidic interface*  
Jelena Gorbatoeva, Tallinn University of Technology
- P11** *Elucidating bio-incorporation of neurotoxin BMAA into proteins by proteomics*  
Liyang Jiang, Stockholm University
- P12** *Peroxyl radical induced degradation of sodium hyaluronate gels followed by SEC-UV analysis*  
Lina Kandelin, Galderma

- P13** *Cellular plasma membrane lipids analysed by hyphenated HPTLC DESI-MS*  
Amila Kapicic, Rigshospitalet
- P14** *Influence of different growing regions on chemical composition of *Chamerion angustifolium* L.*  
Mykolas Kazlauskas, Vytautas Magnus University
- P15** *Quantification of neurotoxin BMAA ( $\beta$ -N-methylamino-L-alanine) in seafoods from Swedish markets*  
Nadezda Kiselova, Stockholm University
- P16** *New developments for chromatographic purification in drug discovery*  
Pernilla Korsgren, AstraZeneca
- P17** *Mass spectrometric imaging of the content of single neurotransmitter vesicles*  
Jelena Lovric, Chalmers University of Technology
- P18** *Chemicals in clothing textiles - a global cycle of toxic pollution*  
Giovanna Luongo, Stockholm University
- P19** *Chemical composition and chemometric analysis of bee pollen volatile and non-volatile compounds*  
Audrius Maruska, Vytautas Magnus University
- P20** *Analytical measurements of the effect of gold nanoparticles on exocytosis from PC12 cells*  
Hoda Mashadi Fathali, Chalmers University of Technology
- P21** *Cannabinoids (CBD, THC) detection by fluorescence signature method and non-aqueous spectral capillary electrophoresis combined with fluorescence detector*  
Jekaterina Mazina, Tallinn University of Technology
- P22** *Evaluation of synergy of antimicrobial activity of the essential oils and phenolic compounds extracted from *Eryngium* L. species*  
Ruta Mickiene, Vytautas Magnus University
- P23** *Sample preconcentration in open microchannels combined with MALDI- and nano-ESI-MS*  
Saara Mikkonen, KTH Royal Institute of Technology
- P24** *Novel needle trap molecularly imprinted polymer sol-gel xerogel as microextraction by packed sorbent for on line extraction and identification of bilirubin as new lung cancer biomarker by Liquid Chromatography Tandem Mass Spectrometry*  
Mohammad Mahdi Moein, Stockholm University
- P25** *Characterization of lipid classes in krill oil using LC-MS/MS*  
Petter Olsson, Stockholm University
- P26** *Identification of Copaxone by capillary isoelectric focusing*  
Dalia Pinkert, Teva Pharmaceutical Ind.

- P27** *Membrane-assisted isoelectric focusing device as a micro-preparative fractionator for two dimensional shotgun proteomics*  
Mohammad Pirmoradian, Karolinska Institutet
- P28** *Preparative gas chromatography and its applications for purification of diterpenes*  
Rizan Rahmani, Mid Sweden University
- P29** *An exploration of sample preparations and detection limits for conductive, semi-conductive and non-conductive materials as pertaining to the Nu Astrum HR-GDMS*  
Bengt Sandgärde, Massanalys Spectrometry Nordic AB
- P30** *The most recent developments in proton-transfer-reaction time-of-flight mass spectrometry (PTR-TOFMS) and their applications*  
Bengt Sandgärde, Massanalys Spectrometry Nordic AB
- P31** *An electronic tongue using cellobiose dehydrogenases from different origins to discriminate various sugars and interfering analytes*  
Christopher Schulz, Lund University
- P32** *Pharmaceutical tablet matrix effects in quantitative transmission Raman spectroscopy*  
Anders Sparén, AstraZeneca
- P33** *Rapid development of quantitative transmission Raman and NIR spectroscopy calibrations for the determination of drug substance in pharmaceutical tablets*  
Anders Sparén, AstraZeneca
- P34** *Supercritical fluid chromatography separation of 5- methylsubstituted phenylpiracetam stereoisomers on polysaccharide-based chiral stationary phases*  
Agrita Spröge, LOSI
- P35** *Screening of chemical composition of coal tar and creosote treated used railway sleepers collected in Lithuania using gas chromatography mass spectrometry*  
Mantas Stankevicius, Vytautas Magnus University
- P36** *Development of a quantification method targeting growth related proteins in cats*  
Mårten Sundberg, Uppsala University
- P37** *A quantitative LC-MS/MS (Qtrap) method to profile sphingolipids in pancreatic  $\beta$ -cells*  
Kumari Ubhayasekera, Uppsala University
- P38** *Exploring bacterial phenotypic surface differences with time-of-flight secondary ion mass spectrometry*  
Patrick Wehrli, University of Gothenburg
- P39** *Translating retention times of target peptides across LCMS proteomic platforms*  
Jason Wrigley, Sigma-Aldrich