ISC 2018 Cannes-Mandelieu, France
32nd International Symposium on Chromatography

September 23-27, 2018

FINAL PROGRAMME

Version 28/09/2018

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WELCOME WORDS

Welcome to the "Côte d'Azur" for the 32nd International Symposium on Chromatography, ISC 2018

Dear Participants,

On behalf of the Scientific Committees of the ***32nd International Symposium on Chromatography (ISC 2018)*** and of the Organizers, it is our great pleasure to welcome you to Cannes-Mandelieu, in the fabulous setting of the "Côte d'Azur", the French Riviera.

The International Symposium on Chromatography (ISC) is one of the premier meetings to discuss all modes of chromatography and separation sciences with a broad coverage of techniques and applications.

The program entices with outstanding scientists invited by the Scientific Committees as well as a selection from more than 400 submitted abstracts! We hope the harmonious combination of oral and poster presentations, tutorials, short courses, vendor lectures and seminars, and an international exhibition on Instrumentation and Services proposed during ISC 2018 will provide you with the advances, fundamentals, challenges, trends and applications of separation techniques, chromatography and mass spectrometry in the widest range of topics.

Besides this very exciting 5-day conference program, we hope the charm of the region in September, the "human" size of the Congress and Exhibition Centre of Mandelieu (CEC) and its location in the city will favor a sweet and informal atmosphere to enjoy separation sciences and their applications during the Symposium. The venue was constructed recently and offers all the facilities for a successful scientific meeting. The CEC can be reached from most of the hotels of the city by walking along the river Siagne.

In addition, Mandelieu, the Mimosa Capital, is situated on the Esterel Massif, which invites for nice treks in the warm temperatures in September. Or maybe practicing water sports near the beaches is more enticing? Another option are the 3 golf courses located in Mandelieu which are amongst the most beautiful in France. If you prefer a more cultural experience along the sea, the Napoule Castle, with its stunning architecture, or the "Croisette" (Cannes Film Festival) are only a short distance away. For a scientific adventure visit the Sophia Antipolis Science and Technology Park, to discover the creation of many fragrances and perfumes. Last but not least, you can taste the southern version of "French cuisine" and experience the hyphenation of the local food with local wines (with moderation!).

We wish you a fruitful conference and an excellent time in Cannes-Mandelieu.

Symposium Chairpersons

Didier Thiébaut, Paris (F)
Valérie Pichon, Paris (F)
Jean-Luc Veuthey, Genève (CH)

PROGRAMME OVERVIEW

Sunday, 23.09.2018				
Time	**Auditoire Riviera**	**Napoule A**	**Napoule B**	**Napoule C**
08h00 09h00		Short Courses registrations		
09h00 10h00		SC01 - Short Course 1 **Analytical Characterization of Protein Biopharmaceuticals** *Davy Guillarme* *Koen Sandra*		SC03 - Short Course 3 **Development and Control of Robust HPLC Methods by Modeling** *Szabolcs Fekete* *Hans-Jürgen Rieger*
10h00 12h00			SC02 - Short Course 2 **Flavors and Fragrances + Analytical Chemistry: An Endless Story** *Frédéric Begnaud* *Philippe Darriet*	
12h00 13h00				
		Lunch Break		
14h00 17h00		SC04 - Short Course 4 **GC X GC: Fundamental Principles, Processes and Applications** *Philip Marriott*	SC05 - Short Course 5 **Microextraction - The «Green» Sample Preparatoin Choice of Next Generation Analytical Chemists** *Stig Pedersen-Bjergaard* *Janusz Pawliszyn*	SC06 - Short Course 6 **Introduction to Metabolomics Workflow** *Serge Rudaz* *Coral Barbas*
17h30 18h00	**Opening Ceremony**			
18h00 18h45	PL01 - **PLENARY LECTURE 1** Robert Kennedy			
18h45 19h15	**CASSS Award** **Nernst-Tswett Award**			
19h15 21h00	**Welcome Reception** CEC Mandelieu			

Monday, 24.09.2018				
Time	**Auditoire Riviera**	**Salon Azur**	**Siagne D**	**Napoule**
09h15 10h00	PL02 - **PLENARY LECTURE 2** Alain Beck			
	Coffee Break			
10h45 12h15	S01 - **Biopharmaceuticals** *Keynote Speaker:* *Koen Sandra*	S02 - **Chirality** *Keynote Speaker:* *Wolfgang Lindner*	S03 - **Mass Spectrometry** *Keynote Speaker:* *Tony Edge*	
12h30 13h00	12h15 - 13h45 **Poster sessions** (odd numbers) PS-01, PS-02, PS-03, PS-04, PS-05, PS-06	**Teaching Analytical Chemistry, current status and challenges** *Frédéric Begnaud* *Jérôme Randon*	T01 - **TUTORIAL 1** *Michal Holcapek*	LUNCHTIME SEMINAR **Shimadzu**
13h45				
14h00 15h30	S04 - **Fundamentals** *Keynote Speaker:* *Gert Desmet*	S05 - **Environment** *Keynote Speaker:* *Damia Barcelo Culleres*	S06 - **SFC** *Keynote Speaker:* *Caroline West*	
	15h30 - 16h45			
16h00 16h45	**Poster sessions** (even numbers) PS-01, PS-02, PS-03, PS-04, PS-05, PS-06		T02 - **TUTORIAL 2** *Dwight Stoll*	Coffee Break
17h00 17h30	S07 - **Metabolomics** *Keynote Speaker:* *Serge Rudaz*	S08 - **Emerging Techniques** *Keynote Speaker:* *Boguslaw Buszewski*	S09 - **Proteomics** *Keynote Speaker:* *Govert Somsen*	
17h30 18h15	**AFSEP Best Poster Award** 8 Posters in 180 seconds	**AFSEP Best Poster Award** 8 Posters in 180 seconds	**AFSEP Best Poster Award** 8 Posters in 180 seconds	

Tuesday, 25.09.2018

Time	Auditoire Riviera	Salon Azur	Siagne D	Napoule
09h15 10h00	PL03 - **PLENARY LECTURE 3** Fabrice Gritti			
	Coffee Break			
10h45 12h15	S10 - **Fundamentals (HILIC)** *Keynote Speaker: David McCalley*	S11 - **Sample Preparation** *Keynote Speaker: Jean-Christophe Garrigues*	S12 - **2D-GC** *Keynote Speaker: Philip Marriott*	
12h30 13h00 13h45	12h15 - 13h45 **Poster sessions** (odd numbers) PS-07, PS-08, PS-09, PS-10, PS-11	LUNCHTIME SEMINAR **Waters**	T03 - **TUTORIAL 3** *Caroline West* *Abhijit Tarafder*	LUNCHTIME SEMINAR **Agilent**
14h00 15h30	S13 - **Food, Natural Products** *Keynote Speaker: Luigi Mondello*	S14 - **Stationary Phases** *Keynote Speaker: Zhengjin Jiang*	S15 - **Miniaturization and On-Chip Techniques** *Keynote Speaker: Jörg Kutter*	
16h00 16h45	15h30 - 16h45 **Poster sessions** (even numbers) PS-07, PS-08, PS-09, PS-10, PS-11		T04 - **TUTORIAL 4** *Wolfgang Lindner* *Michael Laemmerhofer*	Coffee Break
17h00 18h15 18h30	S16 - **2D-LC** *Keynote Speaker: Sabine Heinisch*	S17 - **Gas Chromatography** *Keynote Speaker: Pascal Cardinael*	S18 - **Fast Separation** *Keynote Speaker: Alberto Cavazzini*	

Wednesday, 26.09.2018

Time	Auditoire Riviera	Salon Azur	Siagne D	Napoule
09h00 10h30	S19 - **Sample Preparation** *Keynote Speaker: Janusz Pawliszyn*	S20 - **Omics** *Keynote Speaker: Jeremy Glennon*	S21 - **Biopharmaceuticals, Quality by Design & Modelling** *Keynote Speaker: Davy Guillarme*	
	Coffee Break			
11h00 12h15 12h30	S22 - **Metabolomics** *Keynote Speaker: Coral Barbas*	S23 - **2D-LC** *Keynote Speaker: Dwight Stoll*	S24 - **Sample Preparation** *Keynote Speaker: Stig Pedersen-Bjergaard*	
12h45 13h00 13h45	12h30 - 13h45 **Poster sessions** (odd numbers) PS-12, PS-13, PS-14	LUNCHTIME SEMINAR **Thermo Fisher**	T05 - **TUTORIAL 5** *Govert Somsen*	LUNCHTIME SEMINAR **PHENOMENEX**
14h00 15h45	S25 - **Electrodriven Techniques** *Keynote Speaker: Herve Cottet*	S26 - **Miniaturization** *Keynote Speaker: Koji Otsuka*	S27 - **Emerging Techniques** *Keynote Speaker: Gertrud Morlock*	
16h15 17h00	15h45 - 17h00 **Poster sessions** (even numbers) PS-12, PS-13, PS-14		T06 - **TUTORIAL 6** *Gérard Hopfgartner*	Coffee Break
17h15 17h30	Martin Medal from Chromatographic Society / Jubilee Medal from Chromatographic Society			
17h30 18h15	**ASAC Award** PL04 - **PLENARY LECTURE 4** Peter Schoenmakers			
19h30	**Gala Dinner - Hippodrome** Departure buses from CEC: 19h00			

Thursday, 27.09.2018

Time	Auditoire Riviera	Salon Azur	Siagne D	Napoule
09h00 10h30	S28 - **Mass Spectrometry** *Keynote Speakers:* *Gérard Hopfgartner, Takehiko Kitamori*	S29 - **MS Proteins** *Keynote Speakers:* *Giancarlo Aldini, Sarah Cianferani*	S30 - **Lipidomics** *Keynote Speakers:* *Michael Laemmerhofer, Michal Holcapek*	
	Coffee Break			
11h15 12h00	PL05 - **PLENARY LECTURE 5** Atila Felinger			
12h00 12h15	**ISC 2020** - Atila Felinger			
12h15 12h30	**Best Poster Award**			
12h30 13h00	**Closing Ceremony**			

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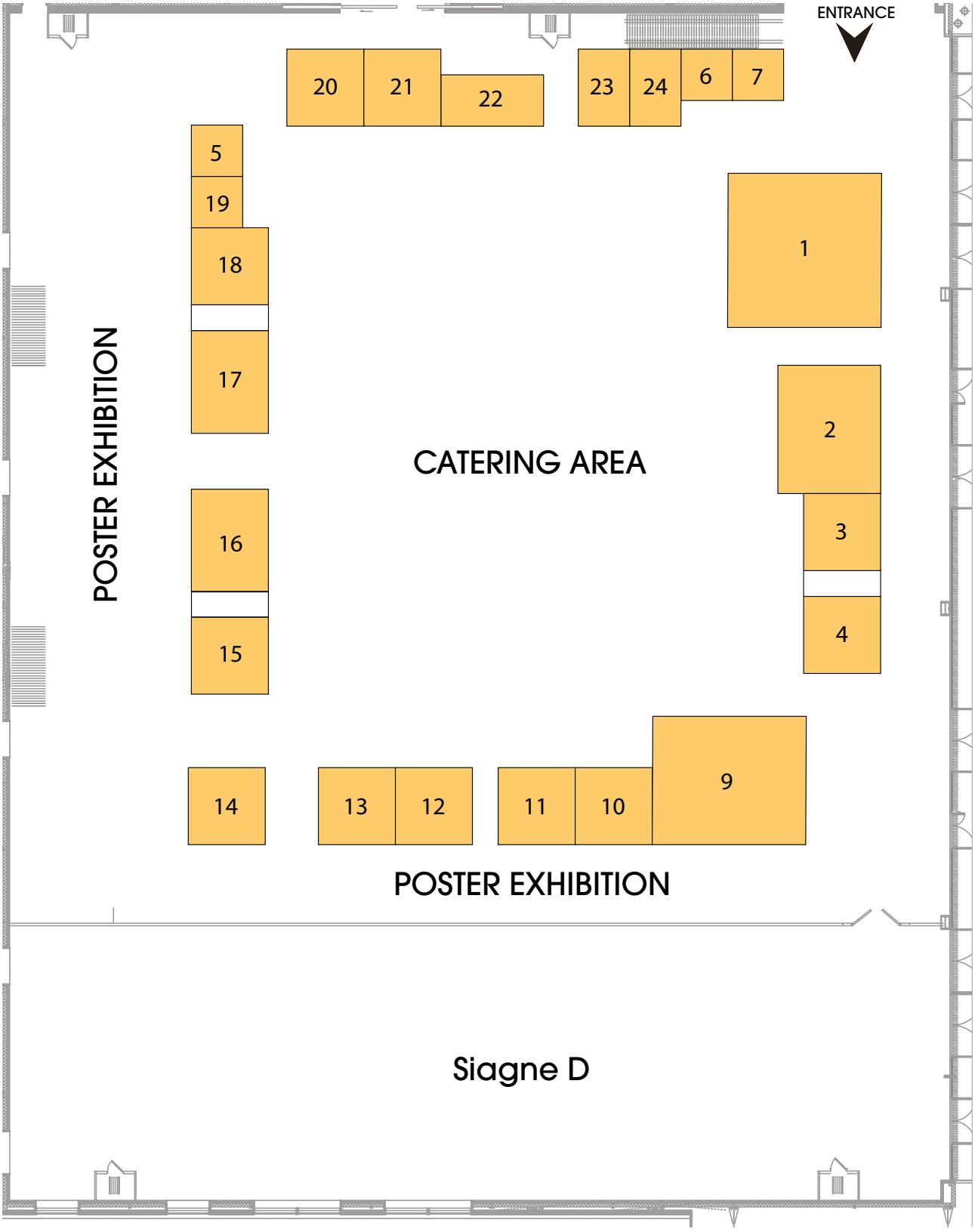

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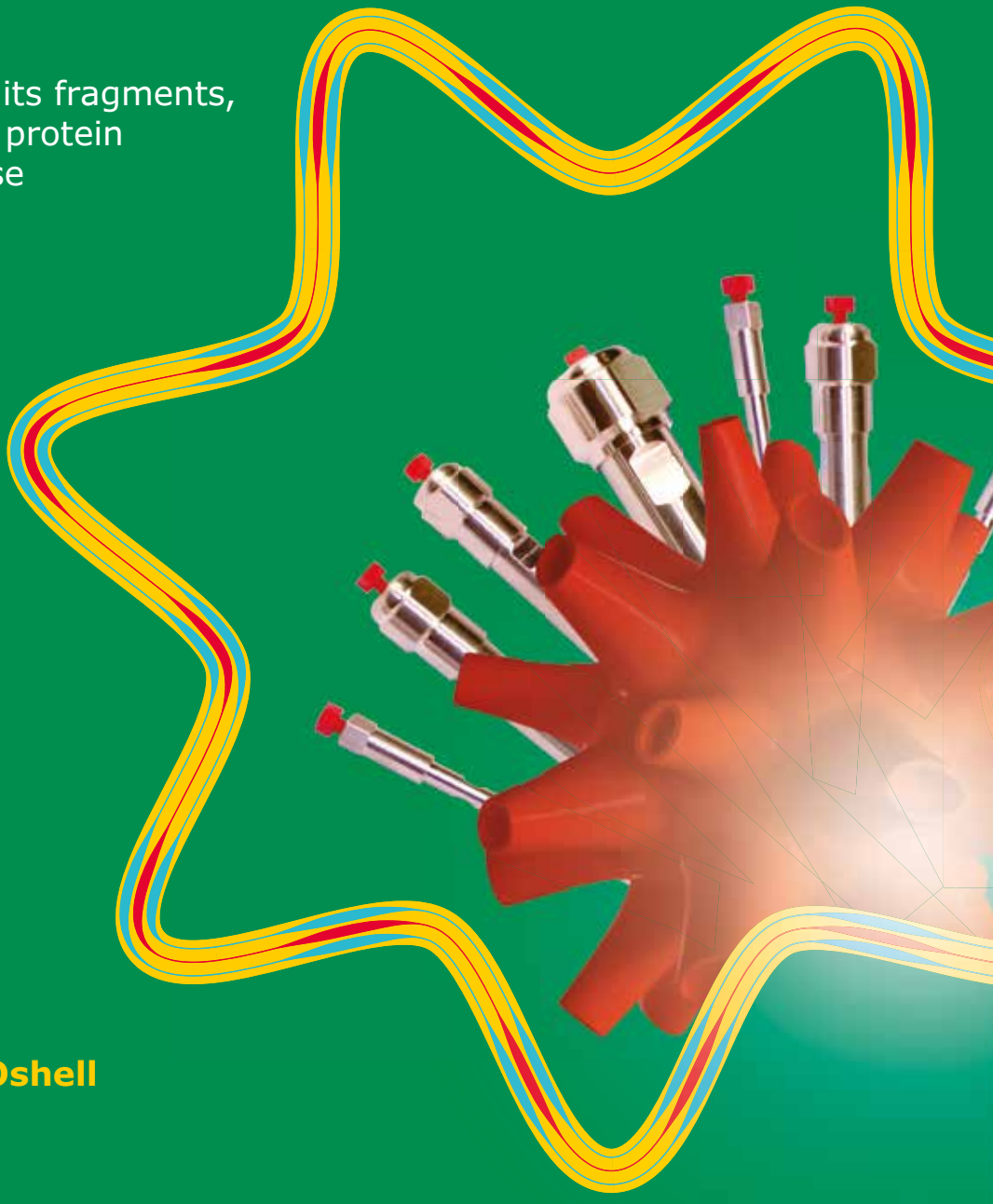

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ISC SYMPOSIUM HISTORY

The ISC series had been organized since its beginning in 1956 by three societies involved in separation sciences (in UK, Germany and France). Symposium of the ISC series should be organised every two years (even years) all over Europe. Since 2014, the three countries decided to devolve responsibility for the organisation of the ISC series to a Permanent Scientific Committee (ISC-PSC) and its members are part of the scientific committee of each series. Symposia in the series should take place normally during September / October on even years alternately with the HPLC series in which symposia are staged in Europe on odd years. It may be organized by an individual, groups of individuals or European National Societies (or groups thereof) involved in separation sciences. The ISC-PSC is composed of seven members, each of whom can serve for a maximum of seven years, with a reasonable international standing as a separation scientist.

Past Conferences

1st	1956 London (UK)	S. F. Birch
2nd	1958 Amsterdam (NL)	J. Boldingh
3rd	1960 Edinburgh (UK)	R. C. Chirnside
4th	1962 Hamburg (DE)	C. S. G. Phillips, H. Kientz
5th	1964 Brighton (UK)	D. H. Desty
6th	1966 Rome (IT)	G. B. Marini-Betolo
7th	1968 Copenhagen (DK)	C. G. Scott
8th	1970 Dublin (IR)	C. L. A.Harbourn
9th	1972 Montreux (CH)	E. R. Adlard
10th	1974 Barcelona (ES)	E. Roth
11th	1976 Birmingham (UK)	R. Stock
12th	1978 Baden-Baden (DE)	G. Schomburg
13th	1980 Cannes (FR)	G. Guiochon
14th	1982 London (UK)	C. E. R. Jones
15th	1984 Nürnberg (DE)	E. Bayer
16th	1986 Paris (FR)	M. Martin, P. Devaux
17th	1988 Wien (AT)	J. F. K. Huber
18th	1990 Amsterdam (NL)	H. Poppe
19th	1992 Aix-en-Provence (FR)	A. Siouffi
20th	1994 Bournemouth (UK)	A. F. Fell
21st	1996 Stuttgart (DE)	H. Engelhardt
22nd	1998 Rome (IT)	F. Dondi
23rd	2000 London (UK)	D. Stevenson
24th	2002 Leipzig (DE)	W. Engewald
25th	2004 Paris (FR)	M. C. Hennion
26th	2006 Kopenhagen (DK)	S. Hansen
27th	2008 Münster (DE)	U. Karst
28th	2010 Valencia (ES)	J. Grimalt
29th	2012 Torun (PL)	B. Buszewski
30th	2014 Salzburg (AT)	W. Buchberger, M. Lämmerhofer, W. Lindner
31st	2016 Cork (IE)	A. Stalcup, J. D. Glennon
32nd	2018 Cannes-Mandelieu (FR)	D. Thiebaut, V. Pichon, JL. Veuthey
33rd	2020 Budapest (HU)	A. Felinger

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AWARDS AND TRAVEL GRANTS

ISC 2018 Best Poster Awards

Presentation of scientific work on a poster is an efficient way to disseminate and discuss with peers, progress in the understanding of fundamental aspects, new instrumental methods and applications of chromatography and other separation sciences especially for young scientists.

The poster sessions are an important part of the ISC series. Therefore, all posters will be available during the whole symposium to allow a thorough and comprehensive discussion.

An international panel of scientists, chaired by Gerard Rozing, will review the posters in the Best Poster Award (BPA) competition by the following criteria:

- Novelty, originality, and creativity of the work
- The scope of the work, the technical quality of experimental design and execution of experiments,
- Presentation of the work on the poster. Special emphasis will be the presence and explanation of the authors during their designated poster session
- Impact of the work like the potential for innovation, on progressing separation science, on economic and societal aspects, and its use in science teaching

✱ **Shimadzu** offers 5 awards (300 Euro each).

✱ The **centre de compétences en Chimie et Toxicologie Analytiques** (ccCTA) offers one award (300 Euro) to a young scientist with a poster in the field of biological/pharmaceutical analysis.

✱ **Springer Verlag** offers 5 book vouchers (200 Euro each) on behalf of **Analytical and Bioanalytical Chemistry** and **Chromatographia**.

All poster awards will be presented to the winners during the closing ceremony on Thursday, September 27.

AFSEP Best Poster Award

This award is arranged on behalf of the **AFSEP** (Association Francophone des Sciences Séparatives, the French-speaking Society of Separation Sciences).

They will sponsor three best poster prizes (300 Euro each).

The awards are intended for young scientists who will deliver a short oral (3-minutes) presentation of their work in three parallel sessions at the end of Monday, September 24, from 17h30 to 18h15. The presenters have been selected according to their rankings resulting from the evaluation of the abstracts submitted by young scientists by the symposium International and National Scientific Committees. In each of these sessions, a review panel consisting of 3-4 peers will be attending, as well as the chairmen of the preceding session and the symposium chairs. Each review panel will deliver their nomination immediately after these sessions.

AFSEP Best Poster Oral Presentation

Monday, September 24, 2018 - 17h30 / 18h15

Session 1, Auditoire Riviera

Poster #	Presenting Author	Title
PS-13-09	Ganorkar, Saurabh	Abridging Pharmaceutical Analysis and Drug Discovery via LC-MS-TOF, NMR, In-Silico Toxicity - Bioactivity Profiling for Therapeutic Purposing Zileuton Impurities: Need of Hour
PS-12-27	Brighenti, Virginia	Development of a new HPLC-ESI-MS/MS method for trace analysis of non-psychoactive cannabinoids in apiary products
PS-12-34	Bosakova, Tereza	Monitoring of 17α-Ethynylestradiol During Mouse Sperm Capacitation by HPLC-MS/MS to Propose its Action Using Kinetic Analysis.
PS-08-23	Murtazashvili, Mariami	Analysis of 12 Synthetic Cannabinoids in Blood by Liquid Chromatography Tandem Mass Spectrometry
PS-05-15	Lebanov, Leo	Application of Average Mass Spectra Combined with Multivariate Statistical Analysis in the Authentication and Quality Assurance of Ylang Ylang Essential Oils
PS-13-15	Arigò, Adriana	Application of Linear Retention Indices in Liquid Chromatography for Reliable Characterization of Oxygen Heterocyclic Compounds in Cosmetics
PS-13-16	Svoboda, Jan	HPLC-UV-MS characterization of platinum and palladium complexes as potential cytostatic activity
PS-13-02	Guichard, Nicolas	Computer-assisted UHPLC-MS/MS Method Development and Optimization for the Determination of 25 Antineoplastic Drugs Used in Hospital Pharmacy

Session 2, Salon Azur

Poster #	Presenting Author	Title
PS-10-03	Drouin, Nicolas	New insights in CE-MS-based metabolomics
PS-07-38	Michalcová, Lenka	How to Efficiently Mix Long-Injection Plugs in Capillary Electrophoresis?
PS-07-43	Dadouch, Meriem	Development of CE/MS methodologies for the analysis of monoclonal antibodies
PS-10-05	Sillner, Nina	Development and Application of a HILIC-MS/MS Method for Polar Fecal Metabolome Profiling
PS-12-39	Bokuchava, Natia	Study of Biologically Active Compounds in Georgian Grapevine Canes
PS-01-33	Gilardoni, Ettore	Enantioselective Chromatography for the Determination of Histidine Dipeptides in Food and Food Supplements
PS-05-12	George, Nadine	Determination of the Design Space of Chiral HPLC Separations on Chirobiotic T Stationary Phase
PS-01-37	Stavrou, Ioannis	Combined Use of Cyclofructans and an Amino Acid Ester-Based Ionic Liquid for the Enantioseparation of Huperzine A and Coumarin Derivatives in CE.

Session 3, Siagne D

Poster #	Presenting Author	Title
PS-06-15	Marlot, Léa	Preparative Comprehensive Two-Dimensional Chromatography: Comparison of CPCxLC and PrepLCxLC for the Isolation of Multiple Targets from Edelweiss Plant.
PS-06-04	Pérez Cova, Miriam Carolina	Untargeted Comprehensive Two-Dimensional Liquid Chromatography: a Yeast Lipidomic Study
PS-11-04	Ehkirch, Anthony	An online of four-dimensional SECxSEC-IMxMS methodology for in-depth characterization of forced degraded monoclonal antibodies.
PS-06-14	Chapel, Soraya	On-line HILICxRPLC Separation of Complex Peptide Sample
PS-14-31	Sanjuan Navarro, Lorenzo	Chromatographic Characterization of AuNPs Used in Plasmonic Assays
PS-04-01	Ventouri, Iro	Native Asymmetrical Flow Field-Flow Fractionation and Size-Exclusion Chromatography for Studying Aggregation of Beta-D-Galactosidase
PS-12-41	Piparo, Marco	Programmed Temperature Vaporizing (Ptv): A Versatile Solution For A Non-Discrimination Of Vacuum Gas Oil
PS-07-21	Rédei, Csanád	Competitive Adsorption in Supercritical Fluid Chromatography: A Model

ASAC Fritz-Pregl-Medal 2018

Awarded to: **Peter SCHOENMAKERS**, University of Amsterdam, The Netherlands

This Award is named for the Austrian chemist Friedrich Michael Raimund Pregl, who received the 1923 Nobel Prize in Chemistry for his pioneering work in the field of Microchemical Methods, which are very closely related to analytical chemistry and analytical sciences. Fritz Pregl is the doyen of the Austrian analytical chemists.

This highest award of the ASAC will be given to scientists who have contributed outstanding developments in Analytical Sciences.

Throughout his career, Peter Schoenmakers has devoted his scientific enthusiasm towards separation sciences, and in particular, towards liquid chromatography theory and practice. His contributions and innovations advanced the field significantly and had high impact on the today's standing of the large portfolio on separation technologies, essentially applied in all fields of chemistry, life science, environmental science, and materials science, among others. The board of the ASAC respectfully congratulates the awardee.

Chromatographic Society Awards

Each year the Chromatographic Society acknowledges the scientific achievements of respected members of the chromatographic community through the award of one of two medals.

Martin Medal Winner 2018

The Chromatographic Society is pleased to announce that **Prof. Jean-Luc VEUTHEY** from the University of Geneva will be awarded the Martin Medal for 2018.

The award has been made in recognition of his outstanding contributions to separation science applied to the analysis of drugs and drugs of abuse, and in the advancement of the understanding of elucidating drug properties.

Jubilee Medal Winner 2018

The Chromatographic Society is pleased to announce the award of the Jubilee Medal to **Dr. Davy GUILLARME** from the University of Geneva in recognition of his contributions to the development of chromatographic techniques (HPLC, UPLC and SFC) and their hyphenation to mass spectrometry.

Dr. Davy Guillarme has demonstrated his exceptional abilities, application and commitment to the field of separation science and as such the Chromatographic Society is delighted to honour him with the Jubilee Medal for 2018.

EuSSS Award - Nernst-Tswett Award

EuSSS was established in 2002 for:

- Consolidation of people who work in separation sciences,
- Establishment an umbrella for the national societies on separation science, particularly to promote the formation of international networks for the efficient spreading of technical knowledge, for setting up scientific programmers, and for fostering academic/industrial co-operation,
- Promotion of separation sciences as an important part of analytical chemistry, physical and organic chemistry,
- Harmonization of national educational programmes and ensure proper conditions for academic training in separation sciences, in view of the new European bachelor, masters and PhD curricula,
- Nomination of and award to prominent scientists (max 2) of the to Nernst-Tswett Award, particularly scientists who strongly influenced development of separation sciences for the progress of our civilization

28th ISC 2010 in Valencia (Spain)

1. **Prof. V. Davankov** (Russia)
2. **Prof. G. Bonn** (Austria)

29th ISC 2012 in Toruń (Poland)

3. **Prof. P. Sandra** (Belgium)

30th ISC 2014 in Salzburg (Austria)

4. **Prof. F. Švec** (USA)
5. **Prof. W. Lindner** (Austria)

31th ISC 2016 in Cork (Irland)

6. **Prof. K. K. Unger** (Germany)
7. **Prof. P. Jandera** (Czech Rep.)

32th ISC 2016 in Cannes-Mandelieu (France)

8. **Prof. R. Kaliszan** (Poland)
9. **Prof. M. Martin** (France)

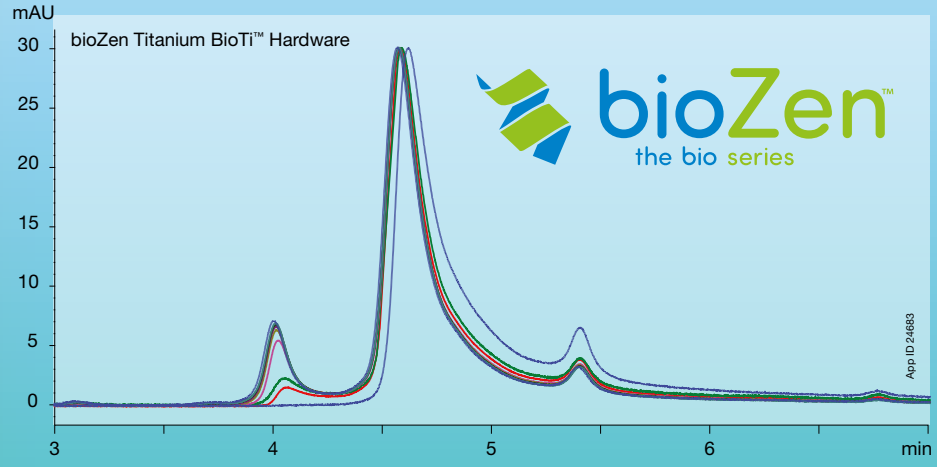
Simon-Widmer Award

Awarded to (2017): **Prof. Takehiko KITAMORI**, University of Tokyo.

The Simon-Widmer Award in memory of Prof Wilhelm Simon and Prof Michael Widmer honors distinguished scientists for their contribution to fundamental and applied analytical science and the education of analytical scientists.

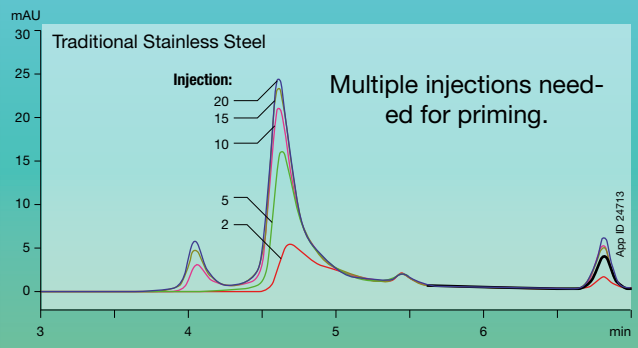
Primed and Ready to Go

Overlaid Successive Injections – Protein Priming Comparison



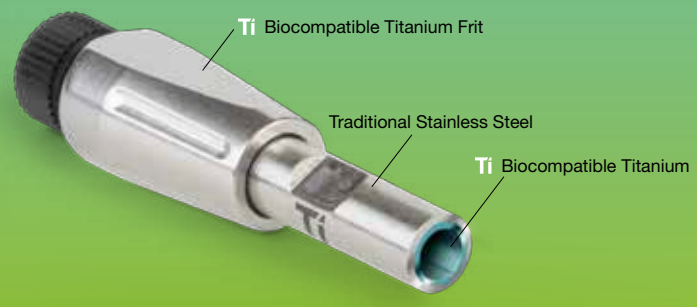
Conditions for both columns:

Column: bioZen 1.8 µm SEC-3
Dimension: 150 x 4.6 mm
Mobile Phase: 100 mM Sodium Phosphate Buffer (pH 6.8)
Flow Rate: 0.3 mL/min
Temperature: Ambient
Detection: UV @ 280 nm
Sample: 1. γ-Globulin
2. Ovalbumin



bioZen Biocompatible LC Columns for:

- **Peptide Mapping**
- **Aggregate Analysis**
- **Glycan Analysis**
- **Peptide Quantitation**
- **Drug Antibody Ratio**
- **Intact Mass**
- **Intact and Fragment Analysis**



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CASSS Award and Student Travel Grants

CASSS is a global community of industry, academic and regulatory professionals who work together to resolve scientific challenges in the field of biopharmaceutical development and regulation. CASSS members are dedicated to facilitating the sharing of resources, information, and best practices in order to advance scientific knowledge for the benefit of their members and the public at large. They do this through their family of conferences and forums that bring them the right people (experienced in the field), the right way (a culture of engagement), at the right time (timely, scientifically relevant content).

CASSS Award

Paul HADDAD announced as 2018 Winner of CASSS Award for Outstanding Achievements in Separation Science.

The CASSS Award for Outstanding Achievements in Separation Science recognizes contributions to the fields of separation science and technology. The award consists of $500, an invitation to speak and reimbursement of travel expenses to a major international symposium where the award is presented. (The award presentation venue varies. Past examples include the HPLC and ISC symposia.) A nominee must have made an outstanding contribution to the fields of separation science and technology with particular consideration given to developments of new methods and techniques.

CASSS Student Travel Grant

CASSS provided a limited number of travel grants for PhD candidates and academic postdocs presenting posters and/or talks at ISC 2018 in Cannes-Mandelieu, France. Interested candidates had to be the first author and presenter at the conference.

All applicants had to be current graduate students enrolled in a program or post-doctoral researchers working in a discipline applicable to biopharmaceutical sciences, including protein and nucleic acid therapeutics, vaccines, cell therapy, and gene therapy, etc, - as well as the application of chromatographic and electrophoretic separation methods within the field.

CASSS selected Students Award Travel Grants

- Noor Abdulhussain, van't Hoff Institute, Netherlands
- Laura Akbal, University of Geneve, Switzerland
- Giorgia La Barbera, Sapienza University, Italy
- Katerina Plachka, Karlova University, Czech Republic

ccCTA Travel Grants

ccCTA selected Students Award Grants:

- Elsa Omer
- Blanka Fodor
- Lucia Chrenkova
- Magy Maged Herz
- Nadine Medhat George

The Center of Competence in Analytical Chemistry and Toxicology (ccCTA - www.ccCTA.ch) is particularly pleased to support the chair persons of the ISC Congress, Professors Valérie Pichon, Didier Thiébault and Jean-Luc Veuthey for the organisation of the ISC 2018 Congress.

Our association founded in Switzerland more than 20 years ago, aims at collaboration between analytical laboratories and researchers, the exchange of know-how and skills, the organization of training programs or scientific events for researchers, students, practitioners and technicians. Concerned with improving knowledge in the fields of analytical chemistry and analytical toxicology but also in the development of modern analytical methods, the ccCTA is particularly attentive to promoting our disciplines among young researchers. The rapid technical evolution of the last few years, the new methodological contributions as well as the challenges posed by the available analytical data, represent formidable opportunities for the next generation of analytical researchers.

The ccCTA committee is thus honored to be present at Cannes-Mandelieu and to contribute to the success of ISC 2018 by having awarded 5 registration grants to deserving young researchers who have been selected to present a poster or an oral presentation.

We wish you an excellent conference.
Prof. Serge Rudaz – President of the ccCTA

PRACTICAL INFORMATION

Conference Venue

Centre Expo Congrès Mandelieu
806 Avenue de Cannes
06210 Mandelieu-la-Napoule
France

Tel: +33 (0)4 93 93 64 64
accueil@ot-mandelieu.fr

Getting to the Venue

ISC 2018 Shuttle Buses

On Sunday, 23 September 2018, there will be a shuttle bus running from 9AM to 9PM, every hour on the hour. Tickets must be bought in advance: https://www.symporg-registrations.com/isc18-shuttlebus

Price: 25 EUR

Public Transport

The following bus lines stop at the Conference Venue.

FROM	BUS	STOPS AT	DIRECTION	PRICE
Nice Airport T1 + T2	3003	Mandelieu-La Napoule Chateauvieux	Saint-Raphaël	20 EUR
Nice Airport T1	LER 20	Mandelieu-La Napoule Tourism Office	Marseille	8 EUR

Please note that these buses do not run regularly!

Taxi

STEEN Denis - +33 (0)6 07 056 444
Taxi David - +33 (0)6 09 525 425
PICCIAU Pascal - +33 (0)6 07 141 277
POLICARO Sébastien - +33 (0)6 09 843 737

Price from the airport: approximately 100 EUR
Uber is also available.

Registration and Welcome Desk

Opening Times

Sunday, 23 September 2018:	08h00 – 20h00
Monday, 24 September 2018:	08h00 – 18h30
Tuesday, 25 September 2018:	08h30 – 19h00
Wednesday, 26 September 2018:	08h30 – 18h30
Thursday, 27 September 2018:	08h30 – 14h00

Onsite Registration

You can register onsite at the Welcome Desk during the Opening Hours.
All prices in EUR, VAT included.

	Early Bird until 23 June 2018	Registration from 24 June to 21 September 2018	Onsite Registration from 23 September 2018
Academic	550 EUR	680 EUR	800 EUR
Industry	690 EUR	820 EUR	950 EUR
Student	270 EUR	330 EUR	450 EUR
Short Courses	80 EUR / short course (limited numbers!)		
Gala Dinner	50 EUR / ticket (limited numbers!)		
Acc. Person	50 EUR / ticket		

* Student rate will be valid upon ID student presentation or with a written confirmation by a Professor

Registration fees for Academic, Industry and Student include:
- Access to all Conferences (excl. Short Courses)
- Conference Bag and Materials
- Welcome Reception on 23 September 2018
- Coffee breaks and Lunches

Registration for Short Courses includes:
- Access to chosen Short Course
- Coffee Break and Lunch on 23 September 2018

Registration for Accompanying Person includes:
- Welcome Reception on 23 September 2018
- Coffee breaks and Lunches

Name Badges

All registered delegates will receive a name-badge at the Welcome desk upon arrival. The badge must be worn prominently in order to gain access to the congress area during all scientific and social events. Admission will be refused to anyone not in possession of an appropriate badge.

Congress Bags

All registered delegates will receive a conference bag at the time of registration.

Certificate of Attendance

A certificate of attendance is available upon request from the Welcome Desk.

Smoking

Smoking is prohibited in the conference venue. Please seek out specially indicated areas if you wish to smoke.

Insurance

Neither the organization nor the conference agency are responsible for individual medical, travel or personal insurance. Delegates are requested to arrange their own travel and health insurance. The organizers cannot assume liability for changes in the programme due to external circumstances.

Lunches and Coffee Breaks

Coffee breaks take place in the exhibition Area
Lunch breaks take place in the exhibition Area

Wi-Fi

Free Wi-Fi is available throughout the conference venue.

Username: **ISC**
Password: **2018**

Please note that the username is case-sensitive!

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Thermo Scientific™ ISQ™ EC single quadrupole MS

Thermo Scientific™ Vanquish™ Duo UHPLC

Thermo Scientific™ TSQ™ 9000 GC-MS/MS

Find out more at **thermofisher.com/isc**

ThermoFisher SCIENTIFIC

INFORMATION ABOUT MANDELIEU LA-NAPOULE

Tourist Information

Situated in the same building as the conference venue, the tourist office welcomes you to Mandelieu-La Napoule!

Ideally located on the French Mediterranean coast, between the massifs of the Esterel and Tanneron, Mandelieu-La Napoule offers a fantastic setting for a unique destination in the heart of the Côte d'Azur midway between Saint-Tropez and the Italian border. Ports and beaches are at the heart of the identity and image of Mandelieu-La-Napoule.

For more information, visit the following:
www.mandelieu.com
www.mandelieu.fr

Language

The official language of the congress is English and all presentations will be given in English. There is no simultaneous translation.

The official language in Mandelieu-La Napoule is French.

Electricity

In France the standard voltage is 230 V and the standard frequency is 50 Hz.

France uses two types of electronic plugs, the C and the E. The type C is used in all countries of Europe except the United Kingdom, Ireland, Cyprus and Malta.

The type E is primarily used in France, Belgium, Poland, Slovakia, the Czech Republic, Tunisia and Morocco.

Currency

The local currency is the Euro.
Banking hours are from Monday to Friday, from 9h00 to 16h30.

Emergencies

Police Secours: 17
Ambulance: 15
Fire Service: 18

PRESENTER INFORMATION

Speaker Room

A speaker room will be provided for all oral presentation. Presentations must be in PowerPoint (MAC or PC) and saved on an empty USB key. Please note that speakers will not be able to use their own laptops!

All presenters are requested to announce themselves at the Speaker Room **at least 2 hours before the scheduled session time**. An audio, video and basic running check of the presentation will be double checked at this time.

Opening Times

Sunday, 23 September 2018:	15h00 – 21h00
Monday, 24 September 2018:	08h00 – 18h00
Tuesday, 25 September 2018:	08h30 – 18h00
Wednesday, 26 September 2018:	08h30 – 18h00
Thursday, 27 September 2018:	08h30 – 10h00

Location

The Speaker room is located on Level 1, Salle des Thermes.

Posters

Poster format: A0, portrait (841 x 1189 mm)

Poster Exhibition Installation

Sunday, 23 September 2018:	17h00 – 20h00
Monday, 24 September 2018:	10h00 – 12h00

Please remember your poster number as panels will show these numbers.

Posters will be hanging for the entire duration of the conference. Please hang your poster before Monday, 24 September 2018, 12h00. The volunteers at the Poster Desk will provide the materials to hang your posters as well as help you find your poster board.

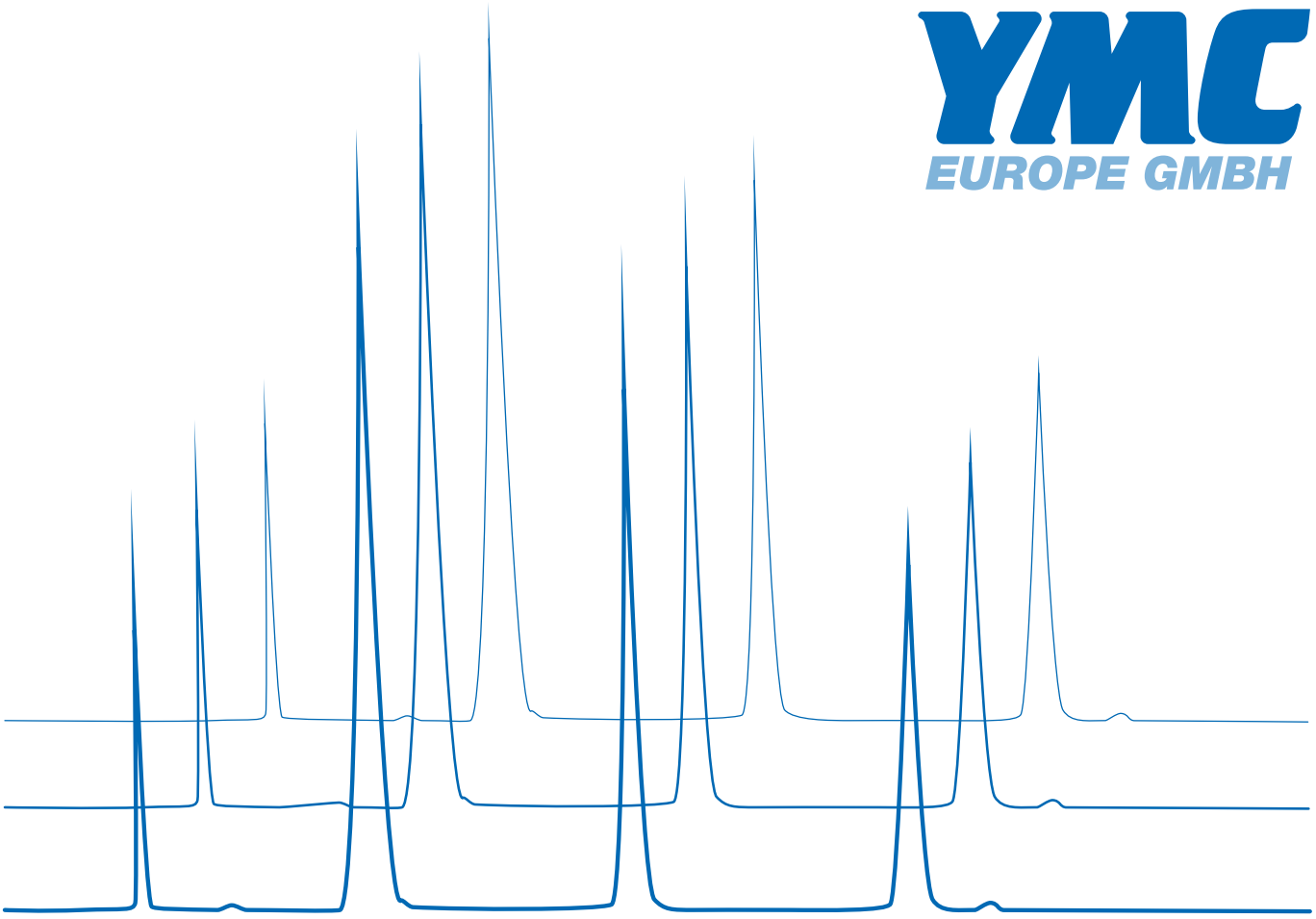
Poster Exhibition Dismantling

Thursday, 27 September 2018: 08h00 – 12h00
Please note that any posters left after 12h00 will be destroyed.

Abstract Book

The abstract book is available for download on the ISC 2018 official website.

YMC EUROPE GMBH



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JOURNAL OF CHROMATOGRAPHY SPECIAL ISSUE ISC 2018

All authors of both oral and poster presentations are kindly invited to submit manuscripts based your presentation(s) at the *32nd International Symposium on Chromatography* (ISC 2018) for possible publication in Journal of Chromatography A (https://www.journals.elsevier.com/journal-of-chromatography-a) or Journal of Chromatography B (https://www.journals.elsevier.com/journal-of-chromatography-b), with the intention of publishing in a joint Special Issue that is dedicated to this symposium.

The Special Issue essentially rules out possible delays in publication for contributors to the special issue. Please see below the publication process;

- All papers will go through normal peer review process per journal standard;
- Papers will be published as soon as they are accepted in earliest available regular journal volumes at ScienceDirect, which ensures very fast publication speed for individual authors;
- There will be Footnotes included in each accepted paper, indicating at which conference it was presented;
- The collection of finally accepted papers will be prepared and hosted at a dedicated Special Issue site – with links to the papers on ScienceDirect, retaining all original citation details.

Authors are suggested to carefully read on the Scope of these two journals before selecting the journal for publication.

Submission instructions

- Submission link:
  - JCA: http://ees.elsevier.com/chroma
  - JCB: https://www.evise.com/profile/#/CHROMB/login
- Fist-time users will need to register;
- Please select special issue short title "**VSI: ISC 2018**" during the submission process;
- Please follow the step-by-step guide in completing the submission procedure;
- **Submission deadline: 15 Jan 2019**

When preparing your manuscript(s), please carefully follow the Guide to Authors of your selected journal, which you can find at each journal's homepage site. In the cover letter please mention that your manuscript is intended for the ISC 2018 Special Issue.

Please note that all manuscripts will be subjected to the mandatory selection process for the journal selected, including the strict peer review procedure; therefore, acceptance for presentation at the conference is not a guarantee for publication in the journals.

Thanks for your attention, and we are looking forward to your contribution!

Elsevier Team

SOCIAL PROGRAMME

Welcome Reception

Join us for drinks and snacks following the Plenary Session!

Date: **Sunday, 23 September 2018**
Location: **Conference Centre (CEC), Exhibition Hall**
Time: **from 19h15 – 21h00**

Gala Dinner

Date: **Wednesday, 26 September 2018**
Location: **Hippodrome, Cagnes-sur-Mer**
Time: **from 19h30**

Buses leave from the conference centre (CEC) at 19h00.
Please bring your voucher and do not be late!

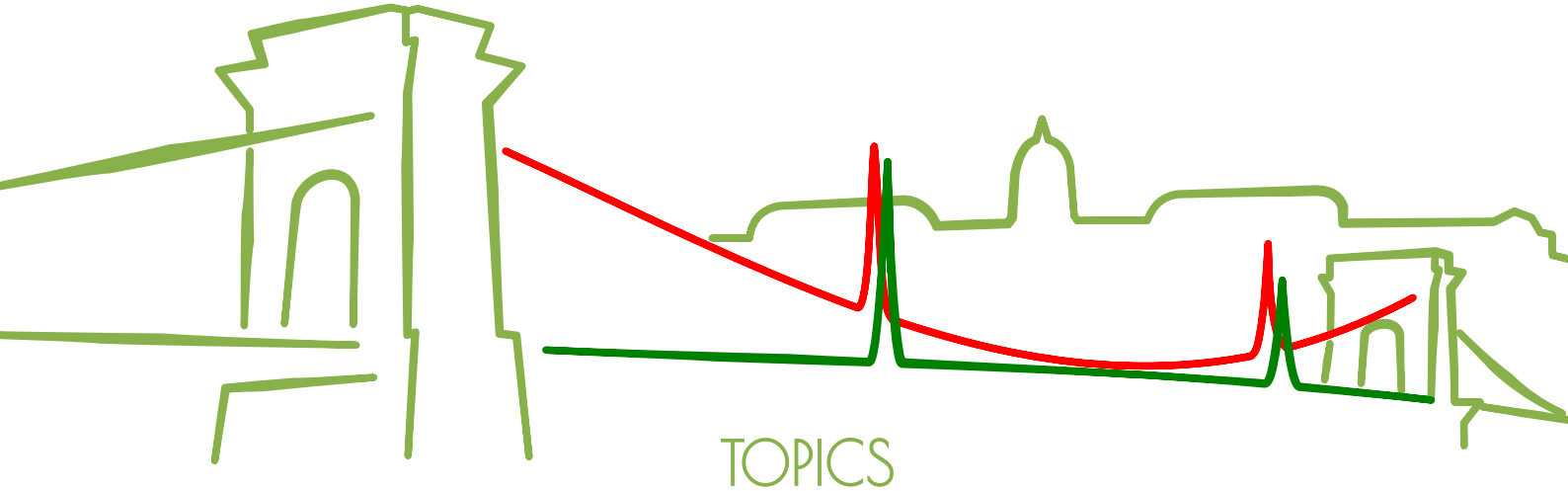
Vouchers available at the desk (50.00 EUR)

ISC 2020

33rd International Symposium on Chromatography

Budapest, Hungary

Save the date:
20-24 September 2020



VISIT OUR BOOTH AND PLAY A QUIZ FOR GREAT PRIZES

1st prize:
Free registration to ISC 2020

2nd prize:
An invitation to our gala dinner

3rd prize:
A bottle of Hungarian wine

4th prize:
Book about Hungary

5th prize:
Rubik's cube

ANNOUNCEMENT OF WINNERS:
26 September 2018
15:45

TOPICS

- New technologies, instrumentations and separation media for GC, HPLC, SFC and electrodriven separations
- Mass spectrometry hyphenation and applications
- Pharmaceuticals
- Biopharmaceutical and biologics
- Foods, natural products, health, security
- Chemometrics, quality by design, data processing
- All modes of chromatography and electrodriven separation techniques
- Miniaturised and lab-on-chip systems
- Clinical, biomedical and toxicological analysis and diagnosis
- Process chromatography and process analytical technology
- Multidimensional and hyphenated techniques
- Sample handling and trace analysis
- ...omics
- Complementary and emerging techniques
- 3D printing of separation systems

http://isc2020.hu/

secretariat@isc2020.hu

SCIENTIFIC PROGRAMME

SUNDAY, 23 SEPTEMBER 2018

09h00 - 13h00 Short Courses
(registration mandatory - lunch included in the registration) - EUR 80.00 / short course

09h00 - 12h00 Napoule A
SC-01 - **Analytical Characterization of Protein Biopharmaceuticals**
Davy Guillarme & Koen Sandra

10h00 - 13h00 Napoule B
SC-02 - **Flavors and Fragrances + Analytical Chemistry: An Endless Story**
Frédéric Begnaud & Philippe Darriet

09h00 - 12h00 Napoule C
SC-03 - **Development and Control of Robust HPLC Methods by Modeling**
Szabolcs Fekete & Hans-Jürgen Rieger

14h00 - 17h00 Short Courses
(registration mandatory - lunch included in the registration) - EUR 80.00 / short course

Napoule A
SC-04 - **GC X GC: Fundamental Principles, Processes and Applications**
Philip Marriott

Napoule B
SC-05 - **Microextraction - The «Green» Sample Preparatoin Choice of Next Generation Analytical Chemists**
Stig Pedersen-Bjergaard & Janusz Pawliszyn

Napoule C
SC-06 - **Introduction to Metabolomics Workflow**
Serge Rudaz & Coral Barbas

17h30 - 19h15 Plenary Session — Auditoire Riviera

17h30 - 18h00
Opening Ceremony
Didier Thiébaut, Valérie Pichon, Jean-Luc Veuthey

18h00 - 18h45
PL-01 - **Advances in nanoscale separations and mass spectrometry**
Chair: Valérie Pichon
Robert Kennedy

18h45 - 19h15
EuSSS - Nernst-Tswett Award
Prof. R. Kaliszan & Prof. M. Martin

CASSS Award - Can chromatographic retention times be predicted based only on the chemical structure of an analyte?
Paul Haddad

19h15 - 21h00 **Welcome Reception**
Welcome Reception at the Congress Center

MONDAY, 24 SEPTEMBER 2018

09h15 - 10h00 Plenary session — Auditoire Riviera

PL-02 - **Cutting-edge chromatographic, electrophoretic and mass spectrometry characterization of mAbs and ADCs**
Chair: Jean-Luc Veuthey
Alain Beck

10h45 - 12h15 Parallel Sessions — Auditoire Riviera
S01 - **Biopharmaceuticals**
Chair: Robert Kennedy

10h45 - 11h15
S01-01 - **Further pushing the limits of LC and LC-MS in biopharmaceutical analysis**
Koen Sandra

11h15 - 11h35
S01-02 - **Extending the Limits of Size Exclusion Chromatography: Simultaneous Separation of Free Payloads and Related Species From Antibody Drug Conjugates and Their Aggregates**
Alexandre Goyon

11h35 - 11h55
S01-03 - **Unravelling Artificial Denaturation and Aggregation of Therapeutic Monoclonal Antibodies Occurring in Native Mass Spectrometry**
Minh Thang Le

11h55 - 12h15
S01-04 - **Conventional-Flow Liquid Chromatography-Mass Spectrometry for Exploratory Bottom-up Proteomic Analyses**
Juraj Lenco

10h45 - 12h15 Parallel Sessions — Salon Azur
S02 - **Chirality**
Chair: Caroline West

10h45 - 11h15
S02-01 - **Achiral x Chiral and Chiral x Chiral 2D-LC Concepts for the Enantioselective Analysis of D-Amino Acids in Complex Matrices**
Wolfgang Lindner

11h15 - 11h35
S02-02 - **Determination of the enantiomeric status of novel psychoactive substances of abuse by HPLC, gas chromatography and capillary electrophoresis**
Martin Schmid

11h35 - 11h55
S02-03 - **Thermodynamic and Kinetic Aspects of Enantioseparations on New Generation Fully Porous and Superficially Porous Chiral Stationary Phases**
Martina Catani

11h55 - 12h15
S02-04 - **Mass Spectrometry Coupling of Seamlessly Integrated HPLC Columns and Packed-Bed Reactors to Study Enantioselective Catalysis at the Microscale**
Rico Warias

10h45 - 12h15 Parallel Sessions — Siagne D

S03 - **Mass Spectrometry**
Chair: Gérard Hopfgartner

10h45 - 11h15
S03-01 - **Addressing ion suppression from non-sample derived sources**
Tony Edge

11h15 - 11h35
S03-02 - **A Comparative View of the Separation and Quantification of Ketamine Metabolites Highlighting the Advantages of a Novel SFC-MS Method in Contrast to Established LC-MS/MS Methods**
Georg Fassauer

11h35 - 11h55
S03-03 - **Application of HPLC – ICP MS/ESI FT MSn techniques for investigation of zinc speciation in lettuce (Lactuca sativa L.)**
Lena Ruzik

11h55 - 12h15
S03-04 - **When mass spectrometry fails: The separation of small isomeric species by liquid chromatography and ion mobility**
Tobias Werres

12h15 - 13h45 Poster Sessions
ODD numbers

PS-01 / **New technologies, instrumentations and separation media for GC, HPLC and SFC**

PS-02 / **Miniaturized and on-chip systems**

PS-03 / **Process Chromatography and Monitoring**

PS-04 / **Complementary and Emerging Techniques (FFF…)**

PS-05 / **Chemometrics, Quality by Design, Data Processing**

PS-06 / **Multidimensional and Hyphenated Techniques**

12h30 - 13h30 Lunchtime Seminars

12h30 - 13h30 — Salon Azur
LS-01 - **Teaching Analytical Chemistry, current status and challenges**
Frédéric Begnaud & Jérôme Randon

12h30 - 13h30 — Napoule
LS-02 - **All that sparkles is not Champagne**

13h00 - 13h45 Tutorial — Siagne D

T-01 - **Lipidomic Analysis Using Various Mass Spectrometry Based Approaches**
Michal Holcapek

14h00 - 15h30 Parallel Sessions — Auditoire Riviera

S04 - **Fundamentals**

Chair: Peter Schoenmakers

14h00 - 14h30
S04-01 - **On the advantage of ordered monolithic and sphere packings for liquid chromatography**
Gert Desmet

14h30 - 14h50
S04-02 - **Characterisation of the Peptide Separation System: Development of a Column Characterisation Protocol based on Peptide Probes**
Jennifer Field

14h50 - 15h10
S04-03 - **New Look on Retention Mechanism of Organic Ions in Ion Chromatography and Mixed Mode HPLC with Focus on Combination of Electrostatic and Hydrophobic Interactions**
Pavel Nesterenko

15h10 - 15h30
S04-04 - **Novel Ways of Constructing Anion Exchangers for Determining Full Organic Acid Profiles in Beverages by Suppressed Ion Chromatography**
Aleksandra Zatirakha

14h00 - 15h30 Parallel Sessions — Salon Azur

S05 - **Environment**

Chair: Jean-Christophe Garrigues

14h00 - 14h30
S05-01 - **MALDI-TOF Imaging and LC-HRMS: New tools for degradation studies of polymer probes exposed to different wastewater environments: Linking chemical transformations and potential microbial consumers**
Damia Barcelo Culleres

14h30 - 14h50
S05-02 - **Exploring Complex Organic and Inorganic Anion Speciation in Environmental and Industrial Samples Using Ion Chromatography – Triple Quadrupole Mass Spectrometry (IC-MS)**
Brett Paull

14h50 - 15h10
S05-03 - **Monitoring of Nitrate and Nitrite in Aquatic Environments using Ion Chromatography with Low-Cost, Portable UV Optical Detection**
Eoin Murray

15h10 - 15h30
S05-04 - **Simultaneous Determination of Organic and Inorganic Anions and Cations in Antarctic Ice Core Samples by Dual Capillary Ion Chromatography**
Estrella Sanz Rodriguez

14h00 - 15h30 Parallel Sessions — Salon Azur

S06 - **SFC**

Chair: Michal Holcapek

14h00 - 14h30
S06-01 - **Varied forms of shape selectivity**
Caroline West

14h30 - 14h50
S06-02 - **Supercritical Fluid Chromatography - Mass Spectrometry as a Complementary Approach to Liquid Chromatography for Qualitative/ Quantitative Analysis in Metabolomics**
Laura Akbal

14h50 - 15h10
S06-03 - **On-line coupling of RPLC and chiral SFC for the analysis of pharmaceutical compounds**
Marion Iguiniz

15h10 - 15h30
S06-04 - **Influences of using water in SFC mobile-phase**
Abhijit Tarafder

15h30 - 16h45 Poster Sessions
EVEN numbers

PS-01 / **New technologies, instrumentations and separation media for GC, HPLC and SFC**

PS-02 / **Miniaturized and on-chip systems**

PS-03 / **Process Chromatography and Monitoring**

PS-04 / **Complementary and Emerging Techniques (FFF…)**

PS-05 / **Chemometrics, Quality by Design, Data Processing**

PS-06 / **Multidimensional and Hyphenated Techniques**

16h00 - 16h45 Tutorial — Siagne D

T-02 - **Two-Dimensional Liquid Chromatography: A Tutorial with a Focus on Current Best Practices**
Dwight Stoll

17h00 - 17h30 Parallel Sessions — Auditoire Riviera

S07 - **Metabolomics**

Chair: Coral Barbas

17h00 - 17h30
S07-01 - **From multivariate to multiblock data structures in Metabolomics: Issues and Solutions**
Serge Rudaz

17h00 - 17h30 Parallel Sessions — Salon Azur

S08 - **Emerging techniques**

Chair: Attila Felinger

17h00 - 17h30

S08-01 - **Flow field flow fractionation and related techniques in the separation and characterization of nano-biosilver composites**

Bogusław Buszewski

17h00 - 17h30 Parallel Sessions — Siagne D

S09 - **Proteomics**

Chair: Koen Sandra

17h00 - 17h30

S09-01 - **New HILIC-MS Methods for Selective and Sensitive Intact/Middle-up Protein Analysis**

Govert W. Somsen

17h30 - 18h15 AFSEP Best Poster Award

PA-01 - **Best Poster Award** - 8 Posters in 180 seconds — Auditoire Riviera

PA-02 - **Best Poster Award** - 8 Posters in 180 seconds — Salon Azur

PA-03 - **Best Poster Award** - 8 Posters in 180 seconds — Siagne D

Detailed list of short oral presentations pages 15-16

TUESDAY, 25 SEPTEMBER 2018

09h15 - 10h00 Plenary session — Auditoire Riviera

PL-03 - **Breaking down the limits of conventional liquid chromatography**
Chair: Gert Desmet
Fabrice Gritti

10h45 - 12h15 Parallel Sessions — Auditoire Riviera

S10 - **Fundamentals (HILIC)**
Chair: Boguslaw Buszewski

10h45 - 11h15
S10-01 - **Hydrophilic interaction chromatography: advances in understanding the mechanism, robustness and detection possibilities for the technique.**
David McCalley

11h15 - 11h35
S10-02 - **Chasing the elusive hold-up time from an LFER approach. Extension to HILIC.**
Marti Roses

11h35 - 11h55
S10-03 - **A Closer Look at The Retention Mechanism of Hydrophilic Interaction Chromatography (HILIC)**
Yong Guo

11h55 - 12h15
S10-04 - **Significantly High Hydrophilicity of a New HILIC Column Modified with Brush-Type Polyacrylamide: Relationship Between the Polymer Structure and the Chromatographic Characteristics**
Tohru Ikegami

10h45 - 12h15 Parallel Sessions — Salon Azur

S11 - **Sample Preparation**
Chair: Janusz Pawliszyn

10h45 - 11h15
S11-01 - **New supramolecular sorbents for green sample-prep and ultra-trace analysis.**
Dr. Jean-Christophe Garrigues

11h15 - 11h35
S11-02 - **Detection of Biocides at Trace Level in Diverse Matrices (Wastewater Treatment Plant Influents and Effluents, Stormwater, Surface Water) by UPLC-MS/MS**
Claudia Paijens

11h35 - 11h55
S11-03 - **Development of a new early stage tumor marker using molecular imprinting**
Fatos Çigdem Kip

11h55 - 12h15
S11-04 - **Development of Molecular Imprinted Polymers for the Monitoring of Emerging Pollutants and Their Metabolites in Water**
Audrey Combes

10h45 - 12h15 Parallel Sessions — Siagne D

S12 - **2D-GC**

Chair: Luigi Mondello

10h45 - 11h15
S12-01 - **Hyping-up-Hyphenation: GC Methods Using Multiple Columns and Multiple Detectors**
Philip Marriott

11h15 - 11h35
S12-02 - **Coupling of Large Volume Injection with Comprehensive Two-Dimensional Gas Chromatography**
Zsuzsanna Eke

11h35 - 11h55
S12-03 - **Extended Quantification Range Of Volatile And Semi-Volatile Regulated Substances In Fragrance Materials By Gc×Gc-Tofms With Tandem Ionization And Online Fid Detection**
Thomas Dutriez

11h55 - 12h15
S12-04 - **Routine quantification of regulated or banned compounds in perfumery raw materials by GC-Orbitrap mass spectrometry**
Emilie Belhassen

12h15 - 13h45 Poster Sessions
ODD numbers

PS-07 / **All Modes of Chromatography and Electrodriven Separation Techniques**

PS-08 / **Clinical, Biomedical and Toxicological Analysis and Diagnosis**

PS-09 / **Biologics**

PS-10 / **Omics**

PS-11 / **Mass Spectrometry Hyphenation and Applications**

12h30 - 13h30 Lunchtime Seminars

12h30 - 13h30 — Salon Azur
LS-03 - **Moving Chromatography Forward**
Waters
THE SCIENCE OF WHAT'S POSSIBLE.™

12h30 - 13h30 — Napoule
LS-04.1 - **2D-LC- A "swiss army knife" to solve chromatographic challenges?**
Agilent Technologies

LS-04.2 - **Two-Dimensional Liquid Chromatography (2D-LC) technique: understanding the benefits with some applications by SEC-RP and FFF-RP**

13h00 - 13h45 Tutorial — Siagne D

T-03 - **Metamorphosis of Supercritical Fluid Chromatography to SFC**
Caroline West & Abhijit Tarafder

14h00 - 15h30 Parallel Sessions — Auditoire Riviera

S13 - **Food, Natural Products**

Chair: Gertrud Morlock

14h00 - 14h30
S13-01 - **The Linear Retention Index Approach: Tool for Dispelling Uncertainties in LC-MS Based Identification**
Luigi Mondello

14h30 - 14h50
S13-02 - **High-capacity sorptive extraction and TD-GC×GC-TOF MS for comprehensive VOC profiling of food and beverages**
Aaron Parker

14h50 - 15h10
S13-03 - **Development of a UHPLC-HRMS/MS (Orbitrap) Acquisition Method for Screening, Quantification, and Confirmation of a Broad Range of Organic Pollutants and Residues in Food Commodities**
Ana Miralles-Marco

15h10 - 15h30
S13-04 - **Investigation of Non-Intentionally Added Substances (Nias) Extracted from Food Contact Materials: Comparison of Gas and Liquid Chromatography – Mass Spectrometry Technologies**
Elsa Omer

TUESDAY

14h00 - 15h30 Parallel Sessions — Salon Azur

S14 - **Stationary Phase**

Chair: Pascal Cardinael

14h00 - 14h30
S14-01 - **Sustainable small synthetic peptide based affinity monoliths for mAb capture and separation in biological fluids**
Zhengjin Jiang

14h30 - 14h50
S14-02 - **Investigation of Column performance of Hybrid Silica-based Porous Layered Open Tube Capillary Columns Produced via Sol-Gel Processing**
Takeshi Hara

14h50 - 15h10
S14-03 - **Polymer Monoliths for Liquid Chromatography Displaying Meso- and Macroporosity**
Dario Arrua

15h10 - 15h30
S14-04 - **New Hyperbranched Anion Exchange Phases for High pH Separation of Carbohydrates**
Christopher Pohl

14h00 - 15h30 Parallel Sessions — Salon Azur

S15 - **Miniaturization and On-Chip Techniques**

Chair: Koji Otsuka

14h00 - 14h30
S15-01 - **Thiolene-based Materials as a Versatile Platform for Microfluidic Separation and Sample Preparation Devices**
Jörg Kutter

14h30 - 14h50
S15-02 - **Seamless Coupling of HPLC and Droplet Microfluidics on a Single Glass Chip**
Andrea Peretzki

14h50 - 15h10
S15-03 - **Modular Microfluidics for Streamlining Phosphoproteomics Research**
Iulia Lazar

15h10 - 15h30
S15-04 - **Chip-Based Liquid Chromatography Analysis for Biological Compounds**
Makoto Tsunoda

15h30 - 16h45 Poster Sessions
EVEN numbers

PS-07 / **All Modes of Chromatography and Electrodriven Separation Techniques**

PS-08 / **Clinical, Biomedical and Toxicological Analysis and Diagnosis**

PS-09 / **Biologics**

PS-10 / **Omics**

PS-11 / **Mass Spectrometry Hyphenation and Applications**

16h00 - 16h45 Tutorial — Siagne D

T-04 - **Liquid Chromatographic Enantiomer Separations: Concepts, State of the Art, (sexy) Applications**
Wolfgang Lindner & Michael Laemmerhofer

17h00 - 18h10 Parallel Sessions — Auditoire Riviera

S16 - **Metabolomics**

Chair: Dwight Stoll

17h00 - 17h30
S16-01 - **On-line comprehensive two-dimensional liquid chromatography as a tool for addressing industrial issues**
Sabine Heinisch

17h30 - 17h50
S16-02 - **2D-LC with Active Solvent Modulation: Making Challenging Combinations of Separation Conditions Work**
Sonja Krieger

17h50 - 18h10
S16-03 - **3D-printed device for multi-dimensional liquid chromatography**
Noor Abdulhussain

17h00 - 18h30 Parallel Sessions — Salon Azur

S17 - **Gas Chromatography**
Chair: Philip Marriott

17h00 - 17h30
S17-01 - **Miniaturization of Gas Chromatographic Systems: From Capillary Columns to Microelectromechanical Systems.**
Pascal Cardinael

17h30 - 17h50
S17-02 - **HPLC and GC Techniques for the Comprehensive Analysis of Bioactive Compounds in Fibre-Type Cannabis sativa L. (hemp)**
Federica Pellati

17h50 - 18h10
S17-03 - **Pyrolysis-GCxGC/MS: would you like to know more about your sample?**
Michel Sablier

18h10 - 18h30
S17-04 - **Integrated System for the rapid Polycyclic Aromatic Hydrocarbons Extraction from aqueous samples and their consecutive Thermal Desorption prior to Gas Chromatography analysis**
Florence Ricoul

17h00 - 18h10 Parallel Sessions — Siagne D

S18 - **Fast Separation**
Chair: Fabrice Gritti

17h00 - 17h30
S18-01 - **Ultrafast high efficient enantioseparations by liquid chromatography**
Alberto Cavazzini

17h30 - 17h50
S18-02 - **Fast and effective detection of ilicit drugs from dried blood spot sample**
Jana Rykl

17h50 - 18h10
S18-03 - **Preparation and Functionalisation of Core-Shell Particles for Rapid and Selective Chromatographic Separations**
Victor Langsi

WEDNESDAY, 26 SEPTEMBER 2018

09h00 - 10h30 Parallel Sessions — Auditoire Riviera

S19 - **Sample Preparation**

Chair: Stig Pedersen-Bjergaard

09h00 - 09h30
S19-01 - **SPME coupling to LC/MS with matrix compatible coatings**
Janusz Pawliszyn

09h30 - 09h50
S19-02 - **Salting-out assisted liquid-liquid extraction with in-line stacking in capillary zone electrophoresis for the determination of tyrosine kinase inhibitors in human plasma**
Omar Ahmed

09h50 - 10h10
S19-03 - **Centrifugal partition chromatography as a fractionation tool for the analysis of lignocellulosic biomass products by liquid chromatography-mass spectrometry**
Alexis Dubuis

10h10 - 10h30
S19-04 - **Phosphorylcholine functionalized porous polymeric material for selective enrichment of C-reactive protein in biological samples**
Qiqin Wang

09h00 - 10h30 Parallel Sessions — Salon Azur

S20 - **Omics**

Chair: Sarah Cianferani

09h00 - 09h30
S20-01 - **Separation and Sensing of Targeted Cell Signalling Molecules in the Microbial Exo-Metabolome**
Jeremy Glennon

09h30 - 09h50
S20-02 - **Optical chromatography: a novel label-free approach to separate and detect immune responses of live innate immune cells to pathogenic and environmental stimuli**
Qin Lu

09h50 - 10h10
S20-03 - **Simultaneous determination of sphingolipids and phospholipids in red blood cells. Application to the diagnosis and monitoring of Gaucher's disease.**
Caroline Chipeaux

10h10 - 10h30
S20-04 - **Cellular Uptake and Processing of Gold Nanoparticles in Cancer Cells Studied by Direct and Hyphenated ICP-MS Techniques**
Magdalena Matczuk

09h00 - 10h30 Parallel Sessions — Siagne D

S21 - **Biopharmaceuticals, Quality by Design & Modelling**

Chair: Michael Laemmerhofer

09h00 - 09h30
S21-01 - **Innovative strategies for the analytical characterization of proteins biopharmaceuticals**
Davy Guillarme

09h30 - 09h50
S21-02 - **Chromatographic Assay Methods Validation: ICH Against FDA/EMA/USP ? The Long Way to Uncertainty of Measurements**
Jean-Marc Roussel

09h50 - 10h10
S21-03 - **Prediction of Peak Capacity for Isocratic and Complex Gradients based on Peak Simulation**
María Celia García-Alvarez-Coque

10h10 - 10h30
S21-04 - **Apparent efficiency of serially coupled columns in isocratic and gradient elution modes**
Szabolcs Fekete

11h00 - 12h30 Parallel Sessions — Auditoire Riviera

S22 - **Metabolomics**

Chair: Giancarlo Aldini

11h00 - 11h30
S22-01 - **New developments in Metabolomics: in source fragmentation in electrospray ionization mass spectrometry for metabolite identification in untargeted metabolomics**
Coral Barbas Arribas

11h30 - 11h50
S22-02 - **The Metabonomic Profiling of Chicken Eggs During Storage Using High Performance Liquid Chromatography Quadrupole Time-of-Flight Mass Spectrometry**
Amy Johnson

11h50 - 12h10
S22-03 - **A Metabolomic Approach by Capillary Electrophoresis-Mass Spectrometry to Evaluate Coffee Roasting Process**
Raquel Pérez-Míguez

12h10 - 12h30
S22-04 - **The Use of Metabonomic Profiling for the Detection of Dead on Arrival Chicken**
Kate Sidwick

11h00 - 12h10 Parallel Sessions — Salon Azur

S23 - **2D-LC**

Chair: Frédéric Begnaud

11h00 - 11h30
S23-01 - **Recent development toward improving the sensitivity and flexibility of two-dimensional liquid chromatography**
Dwight Stoll

11h30 - 11h50
S23-02 - **An Online Four-Dimensional HICxSEC-IM-MS Methodology for Characterization of Antibody Drug Conjugates**
Valentina D'Atri

11h50 - 12h10
S23-03 - **Two-Dimensional Preparative Chromatography: Isolation of Reference Substances from Complex Samples**
Magali Batteau

11h00 - 12h10 Parallel Sessions — Siagne D

S24 - **Sample Preparation**
Chair: Serge Rudaz

11h00 - 11h30
S24-01 - **Microextraction based on Electrical Fields – Combining Partition and Electrophoresis**
Stig Pedersen-Bjergaard

11h30 - 11h50
S24-03 - **Determination of the Total Sulfur, Chlorine, Bromine, and Fluorine Contents of Solid Samples**
Jeffrey S Rohrer

11h50 - 12h10
S24-04 - **New Approach for the Selective Extraction of Hypocholesterolemic Compounds from Olive Stone by-Products by Sustainable Extraction Techniques**
Romy Vásquez-Villanueva

12h30 - 13h45 Poster Sessions
ODD numbers

PS-12 / **Foods, Natural Products, Health, Security**

PS-13 / **Pharmacy and Cosmetics**

PS-14 / **Sample Handling and Trace Analysis**

12h30 - 13h30 Lunchtime Seminars

12h30 - 13h30 — Salon Azur
LS-05 - **Seeking More Productive Chromatography?**
ThermoFisher SCIENTIFIC

12h30 - 13h30 — Napoule
LS-06 - **Biochromatography, Peptides and Oligonucleotides**
phenomenex

13h00 - 13h45 Tutorial — Siagne D

T-05 - **CE and CE-MS of Biopharmaceuticals**
Govert W. Somsen

WEDNESDAY

14h00 - 15h50 Parallel Sessions — Auditoire Riviera

S25 - **Electrodriven Techniques**

Chair: Govert Somsen

14h00 - 14h30
S25-01 - **The « Who am I ?» Game in Capillary Electrophoresis: When Theory Meets Practice**
Herve Cottet

14h30 - 14h50
S25-02 - **The Multiple Preconcentration Concept For Unlimited Detection Sensitivity in Capillary Electrophoresis: Determination of Amyloid Beta Peptide Biomarkers in Biological Fluids**
Myriam Taverna

14h50 - 15h10
S25-03 - **Comparison Between Capillary Electrophoresis and Isothermal Titration Calorimetry for the Study of Interactions**
Laurent Leclercq

15h10 - 15h30
S25-04 - **Low Flow CE-MS and Measurement of Stability Constants of Complexes by Affinity CE**
Dusan Koval

15h30 - 15h50
S25-05 - **Coupling imaged Capillary Iso-Electric Focusing (iCIEF) with Mass Spectrometry (MS)**
Gerard Rozing

14h00 - 15h50 Parallel Sessions — Salon Azur

S26 - **Miniaturization**

Chair: Jörg Kutter

14h00 - 14h30
S26-01 - **Microscale Liquid Phase Separations Using Specific Interactions**
Koji Otsuka

14h30 - 14h50
S26-02 - **Towards Ultra-Sensitive Neurotransmitter Analysis using Micro Pillar Array Columns with Electrochemical Detection**
Jean-Pierre Chervet

14h50 - 15h10
S26-03 - **Increasing the Retention Capacity of Porous Layered Radially Elongated Pillar Array Columns**
Shunta Futagami

15h10 - 15h30
S26-04 - **Development of a miniature capillary liquid chromatograph with deep UV LED based detection**
Shing Chung Lam

15h30 - 15h50
S26-05 - **Breath sampling on chip : tracking of tobacco markers**
Thomas Chappuis

14h00 - 15h50 Parallel Sessions — Siagne D

S27 - **Emerging Techniques**
Chair: Alberto Cavazzini

14h00 - 14h30
S27-01 - **Miniaturized Planar Chromatography as Citizen Science**
Gertrud Morlock

14h30 - 14h50
S27-02 - **Characterization of Ultra-Large Polymers using Frit-inlet Asymmetrical Flow Field-Flow**
Mubasher Ahmed Bashir

14h50 - 15h10
S27-03 - **Limitations on operating pressure in analytical scale liquid chromatography columns**
Ken Broeckhoven

15h10 - 15h30
S27-04 - **Application of Fused Deposition Modeling 3D Printing for Production of Customized Sorbents Able to Perform Small-Molecule Extraction.**
Szymon Ulenberg

15h30 - 15h50
S27-05 - **Numerical Investigation of Band Spreading Generated by Flow-Through Needle and Fixed Loop Sample Injectors**
Sander Deridder

15h45 - 17h00 Poster Sessions
EVEN numbers

PS-12 / **Foods, Natural Products, Health, Security**

PS-13 / **Pharmacy and Cosmetics**

PS-14 / **Sample Handling and Trace Analysis**

16h15 - 17h00 Tutorial — Siagne D

T-06 - **Ion Mobility Spectrometry - Mass Spectrometry**
Gerard Hopfgartner

17h15 - 18h15 Plenary session — Auditoire Riviera

17h15 - 17h30
Martin Medal from Chromatographic Society / Jubilee Medal from Chromatographic Society

17h30 - 18h15
PL-04 - **Overcoming the separation challenges posed by complex samples**
Chair: Didier Thiebaut
Peter J. Schoenmakers

19h30 **Gala Dinner**
Hippodrome de la Côte d'Azur, Departure from the Congress Center

THURSDAY, 27 SEPTEMBER 2018

09h00 - 10h40 Parallel Sessions — Auditoire Riviera

S28 - **Mass Spectrometry**

Chairs: Damia Barcelo Culleres, Tony Edge

09h00 - 09h30
S28-01 - **Chemical Derivatization with Data Independent Acquisition and Modifier Assisted Ion Mobility Mass Spectrometry to Enhance Analyte Coverage in Metabolomics**
Gerard Hopfgartner

09h30 - 10h00 Simon-Widmer Award
S28-02 - **Microfluidics and Nanofluidics based on Unit Operationsand its Application to Femto-Liter Separation Chemistry**
Takehiko Kitamori

10h00 - 10h20
S28-03 - **The analysis and quantitation of itaconic acid in serum using HILIC (Hydrophilic Interaction Chromatography) coupled to a triple quadrupole mass spectrometer**
Christopher Henry

10h20 - 10h40
S28-04 - **Interaction between plants and xenobiotics: uptake and metabolization of drugs**
Christian Klampfl

09h00 - 10h20 Parallel Sessions — Salon Azur

S29 - **MS Proteins**

Chairs: Hervé Cottet, Jeremy Glennon

09h00 - 09h30
S29-01 - **Affinity chromatography and MS strategies for studying protein lipoxidation.**
Giancarlo Aldini

09h30 - 10h00
S29-02 - **Advances in online hyphenation of non-denaturing chromatographic methods to native mass spectrometry and ion mobility for therapeutic protein characterization**
Sarah Cianferani

10h00 - 10h20
S29-03 - **Development of Complementary Separation Modes Associated to Different Mass Spectrometers for the Characterization of the Structural Heterogeneity of an Intact Glycoprotein**
Julien Camperi

09h00 - 10h40 Parallel Sessions — Siagne D

S30 - **Lipidomics**

Chairs: Wolfgang Lindner, David Mc Calley

09h00 - 09h30
S30-01 - **Promisses and challenges of targeted and untargeted lipidomics profiling**
Michael Laemmerhofer

09h30 - 10h00
S30-02 - **Lipid Cancer Biomarkers in Early Diagnosis: Where we are now and what are future steps**
Prof. Michal Holcapek

10h00 - 10h20
S30-03 - **Personalized Medicine Based on High-Performance Affinity Microcolumns: Analysis of Drug Interactions with Modified Proteins and Clinical Samples**
David Hage

10h20 - 10h40
S30-04 - **Recent Advances in Robotic Sample Preparation On-Line With Capillary GC-FID/MS.**
Christophe Devos

11h15 - 13h00 Plenary session — Auditoire Riviera

11h15 - 12h00
PL-05 - **Reversed flow liquid chromatography**
Chair: Valérie Pichon
Prof. Attila Felinger

12h00 - 12h15
Presentation of ISC 2020
Prof. Attila Felinger

12h15 - 12h30
ISC 2018 Best Poster Award

12h30 - 13h00
Closing Ceremony

LUNCHTIME SEMINARS

Monday, 24 September 2018

LS-01 - Teaching Analytical Chemistry, current status and challenges Salon Azur

Frédéric Begnaud, Jérôme Randon

LS-02 - All that sparkles is not Champagne SHIMADZU Excellence in Science Napoule

1. Golden Solution for Bioanalysis
   Dr. Julia Sander

2. What's all the fuss about? - Analytical characterization and comparison of Champagne with selected sparkling wine from other regions
   Prof. Erich Leitner

We cordially invite you to the Shimadzu Lunch time seminar where our two speakers will give an update on latest developments and applications in the biopharma and food market. If you enjoy a glass of champagne during the Welcome reception, you might want to join this seminar to find out more about its analytical characterization.

Tuesday, 25 September 2018

LS-03 - Moving Chromatography Forward Waters THE SCIENCE OF WHAT'S POSSIBLE.™ Salon Azur

1. 60 Years of Innovations – Celebrating the Past with an Eye on the Future
   Hélène Boiteux - Separations Business Development Manager, Waters SAS (France)

2. Important Considerations for Successful Reverse Phase Method Transfers
   Patricia R. McConville - Director of Systems Development Laboratory, Waters Corporation (USA)

3. Great Detection Power Leads to Great Possibilities for Chromatographers
   Paula Hong, Ph.D. - Principal Consulting Scientist, Waters Corporation (USA)

In 1958, James Logan Waters formed Waters Associates, with the first offices located in the basement of the Framingham, Mass. Police Station. Customers requested all kinds of various scientific instruments and we fondly refer to this as «The Research Boutique!». This year, Waters Corporation are proudly celebrating the 60th Anniversary Diamond Jubilee of Innovation in the field of analytical chemistry, by continuing to lead the way in specialty measurement techniques to answer tomorrow's questions today.

Over the last 6 decades, Waters has continued to revolutionize separations science by innovating not only scientific instrumentation, but complementary column technologies and software solutions to increase separation and detection capabilities.

During the seminar, we will take a look back at 60 Years of Innovations – Celebrating the Past with an Eye on the Future then concentrate on more recent developments to ensure successful reverse phase method transfers and to bring greater detection power to chromatographers.

LS-04 **Agilent Technologies** Napoule

1. 2D-LC- A "swiss army knife" to solve chromatographic challenges?
   Dr. Martin Vollmer, Marketing Director, Agilent Technologies

Do you have doubts on the purity of your analytes, even after performing modern liquid chromatography? Are you facing a lack of chromatographic resolution, thus preventing stable and robust quantitative results for your analytes? Are you dependent on manual sample preparation prior to your chromatography to obtain reasonable peak shapes?

These and more chromatographic challenges can be addressed by applying state-of-the art multidimensional HPLC without the necessity of being an expert in liquid chromatography. Agilent Technologies presents the latest solutions for 2D-LC in combination with real-life sample applications to highlight the benefits 2D-LC can contribute to the efficiency of an analytical laboratory.

2. Two-Dimensional Liquid Chromatography (2D-LC) technique: understanding the benefits with some applications by SEC-RP and FFF-RP
   Frédéric VIOLLEAU, head of TFFC Platform, Ecole PURPAN, Toulouse (France)

Wednesday, 26 September 2018

LS-05 - Seeking More Productive Chromatography? ThermoFisher SCIENTIFIC Salon Azur

Joachim Weiss, Technical Director, Thermo Fisher Scientific, Dreieich, Germany
Rainer Bauder, HPLC Product Marketing, Thermo Fisher Scientific, Chelmsford, USA

As a chromatographer, productivity should be at the centre of your thoughts as it offers a multitude of benefits such as higher throughput and a lower cost per sample, increased return-on-investments, efficient bench utilisation and faster sample to knowledge, whether you are involved in research, development or routine applications. In the first part of this seminar we shall highlight our recent innovations in sample preparation, gas and ion chromatography and CDS software, all centred on improving the chromatographer's productivity and data quality. The second part of the seminar will focus on liquid chromatography and how the recently introduced Thermo Scientific™ Vanquish™ Duo in combination with new detection options allows dramatically more throughput, increased sample knowledge and quantitative information resulting in more productivity and confidence in your data.

LS-06 phenomenex Napoule

Do you have challenges with your current method and need help with troubleshooting? Do you want a new LC, GC or sample preparation method but are not sure where to start? Are you interested in new technologies and how they can be beneficial for your work? Come and meet our experienced technical consultants at stand 15 to talk more about your chromatographic challenges. Some surprises are waiting for you!

And don't miss our Lunchtime seminar at «Napoule» on Wednesday, 26.09.2018 at 12:45h and learn even more about Biochromatography and Peptides and Oligonucleotides! We will talk about:

SEC for Aggregate Analysis of Proteins
Intact Mass and Middle Down Analysis of Monoclonal Antibodies
Peptide Mapping for Sequence Variants Analysis
Glycan Mapping by N-linked Glycan Release and Fluorescent Labeling
And much more!

We look forward to meeting you at stand 15!

POSTER INDEX

Poster Sessions

Presenters are requested to be close to their posters during their poster session to receive questions from the participants. No formal presentation is required.

Monday, 24 September 2018
12h15 - 13h45: odd numbers
15h30 - 16h45: even numbers

PS-01 / New technologies, instrumentations and separation media for GC, HPLC and SFC
PS-02 / Miniaturized and on-chip systems
PS-03 / Process Chromatography and Monitoring
PS-04 / Complementary and Emerging Techniques (FFF…)
PS-05 / Chemometrics, Quality by Design, Data Processing
PS-06 / Multidimensional and Hyphenated Techniques

Tuesday, 25 September 2018
12h15 - 13h45: odd numbers
15h30 - 16h45: even numbers

PS-07 / All Modes of Chromatography and Electrodriven Separation Techniques
PS-08 / Clinical, Biomedical and Toxicological Analysis and Diagnosis
PS-09 / Biologics
PS-10 / Omics
PS-11 / Mass Spectrometry Hyphenation and Applications

Wednesday, 26 September 2018
12h30 - 13h45: odd numbers
15h45 - 17h00: even numbers

PS-12 / Foods, Natural Products, Health, Security
PS-13 / Pharmacy and Cosmetics
PS-14 / Sample Handling and Trace Analysis

Poster List

PS-01 / New technologies, instrumentations and separation media for GC, HPLC and SFC (odd numbers)

PS-01-01 **A Simple and Rapid Reverse-Phased HPLC Method for Simultaneous Determination of six Types of Pyrethrins Found in Pyrethrum Extract**
Filip Butikoski, Dobrila Sekulovska Popovska
ALKALOID AD, Skopje, Macedonia

PS-01-03 **Development and validation of sulfonamides in medicated feeding stuffs with the use of micellar liquid chromatography and diode array detection**
Ewelina Patyra, Monika Przeniosło-Siwczyńska, Aleksandra Grelik, Krzysztof Kwiatek
National Veterinary Research Institute, Poland

PS-01-05 **Investigation of Ultra-High-Pressure Gel Permeation Chromatography for Industrial Applications**
Hamed Eghbali[1], Lu Bai[2], Miroslav Janco[2], Ron Salome[3], Wei Gao[2], Edwin Mes[3], David Meunier[4]
[1]Dow Chemical, Netherlands, [2]Core R&D Analytical Science, The Dow Chemical Company, USA, [3]Core R&D Analytical Science, Dow Benelux BV, The Netherlands, [4]Core R&D Analytical Science, The Dow Chemical Company, USA

PS-01-07 **Enantioselective Separation of New Psychoactive Substances by HPLC-UV and a Novel Lux® Amylose-1 Column**
Kian Kadkhodaei, Martin Schmid, Marlene Kadisch
University of Graz, Austria

PS-01-09 **Unusual Thermal Behavior And Chromatographic Performances Of A New Liquid Crystal Stationary Phase In Capillary Gas Chromatography**
Faïza Ammar Khodja[1], Patrick Sassiat[2], Mohamed Hanafi[3], Didier Thiebaut[2], Jerome Vial[2]
[1]LC / USTHB - Alger : Laboratoire de Chromatographie / Université des Sciences et de la Technologie Houari Boumediene - Alger., Algeria, [2]LSABM / ESPCI - Paris : Laboratoire de Sciences Analytiques Bioanalytiques et Miniaturisation / Ecole Supérieure de Physique et de Chimie Industrielles de la ville de Paris., France, [3]SIMM / ESPCI - Paris : Laboratoire de Sciences et Ingénierie de la Matière Molle / Ecole Supérieure de Physique et de Chimie Industrielles de la ville de Paris, France

PS-01-11 **High-Performance Liquid Chromatography Coupled with Electrochemical Detection for the Determination of Pseudomonas Aeruginosa Signaling Molecules**
Alyah Buzid, Phyllis E. Hayes, Gerard P. McGlacken, John, H. T. Luong, Jeremy D. Glennon
University College Cork, Ireland

PS-01-13 **Synthesis and Evaluation of Novel Chiral Strong Cation Exchangers for Chiral Separation of Basic Drugs**
Jana Herciková, Michal Kohout
University of Chemistry and Technology Prague, Czech Republic

PS-01-15 **Automatic Pre-Column Derivatization of Amino Acids by LC**
Vadim Kraft, Philipp Jochems, Gesa J. Schad
Shimadzu Europa GmbH, Germany

PS-01-17 **Gas Chromatographic Computer Modeling Software for Optimized Method Development**
Ty Kahler, Jaap De Zeeuw, Becky Wittrig, Chris Nelson, Kristi Sellers
Restek Corporation, United States of America

PS-01-19 **Boronate affinity separation of β-NAD via molecularly imprinted silica particles in batch and microfluidic systems**
Cagil Zeynep Sungu, Cigdem Kip, Ali Tuncel
Hacettepe University, Turkey

PS-01-21 **Molecularly imprinted monodisperse-porous, silica microbeads for folic acid determination**
Bensu Alan, Cigdem Kip, Ali Tuncel
Hacettepe University, Turkey

PS-01-23 **Titania based immobilized metal affinity sorbent for the purification of histidine-rich proteins**
Sezgi Alpaslan, Rukiye Babacan Tosun, Cigdem Kip, Bensu Alan, Ali Tuncel
Hacettepe University, Turkey

PS-01-25 **Revealing Secondary Interactions in Novel HILIC Stationary Phases Resulted from Particular Surface Hydrophilization Technique**
Alla Chernobrovkina, Alexander Popov, Natalya Chikurova, Aleksandra Zatirakha, Alexander Smolenkov, Oleg Shpigun
Lomonosov Moscow State University, Russia

PS-01-27 **Fast Supercritical Fluid Chromatography Enantioseparation of Novel Synthetic Spirobrassinin Analogs**
Kveta Kalikova[1], Oleksandr Kozlov[2], Mariana Budovska[2], Tatana Gondova[2], Eva Tesarova[3]
[1]Univerzita Karlova, Prirodovedecka Fakulta, Czech Republic, [2]Faculty of Science, P.J. Šafárik University, Košice, Slovakia, [3]Faculty of Science, Charles University, Prague, Czech Republic

PS-01-29 **New GC Inlet Liner Deactivation Exhibits Excellent Response for Active Compounds**
Jaap Dezeeuw
Restek, Netherlands

PS-01-31 **How to: Immobilization of ligands onto silica monoliths**
Petra Lewits, Benjamin Peters, Gisela Jung, Peter Knoell, Tom Kupfer, Egidijus Machtejevas
Merck KGaA, Germany

PS-01-33 **Enantioselective Chromatography for the Determination of Histidine Dipeptides in Food and Food Supplements**
Ettore Gilardoni[1], Laura Fumagalli[1], Lucia Pucciarini[2], Veronica Marrone[1], Roccaldo Sardella[2], Marina Carini[1], Giancarlo Aldini[1], Luca Regazzoni[1]
[1]Università degli studi di Milano, Italy, [2]Università degli studi di Perugia, Italy

PS-01-35 **Development of a Novel Immobilised Type Polysaccharide Chiral Stationary Phase for Enantiomeric Separation**
Daniel Esser[1], Masahide Kobayashi[2], Toshikazu Adachi[2], Takehiro Iwadate[2], Tsuyoshi Watabe[2], Noritaka Kuroda[2]
[1]YMC Europe GmbH, Germany, [2]YMC Co., Ltd., Japan

PS-01-37 **Combined Use of Cyclofructans and an Amino Acid Ester-Based Ionic Liquid for the Enantioseparation of Huperzine A and Coumarin Derivatives in CE.**
Ioannis Stavrou, Constantina Kapnissi-Christodoulou
University of Cyprus, Cyprus

PS-01-39 **Influence of the Acid-Base Ionization in RP-HPLC Retention**
Marti Roses, Elisabet Fuguet, Sara Soriano-Messeguer
Universitat de Barcelona, Spain

PS-01-41 **Comparison of Different Aryl Chemically Bonded Core-Shell Phases for the Determination of Mycotoxins with Liquid Chromatography Tandem Mass Spectrometry**
Hans Rainer Wollseifen, Torsten Kretschmer, Aliye Mengus-Kaya, Max Arens
MACHEREY -NAGEL GmbH Co. KG, Germany

PS-01-43 **Unique GC Column Selectivity for Time and Cost-efficient Separation of Complex cis/trans Fatty Acid Methyl Esters in Food**
Garlet Benoit, Frederic Thiebaut, Ramkumar Dhandapani
Phenomenex, France

PS-01-45 **Development and Application of Different Octadecylsilane Core-Shell Columns in Liquid Chromatography Tandem Mass Spectrometry**
Hans Rainer Wollseifen, Daniel Ramb, Torsten Kretschmer, Aliye Mengus-Kaya, Max Arens
MACHEREY -NAGEL GmbH Co. KG, Germany

PS-01-47 **Interaction of Viscous Fingering and Langmuir Adsorption in Preparative Liquid Chromatography**
Michel Martin[1], Chinar Rana[2], Satyajit Pramanik[3], Anne De Wit[2], Manoranjan Mishra[4]
[1]CNRS ESPCI, France, [2]Université Libre de Bruxelles, Belgium, [3]Royal Institute of Technology and Stockholm University, Sweden, [4]Indian Institute of Technology Ropar, India

PS-01-53 **Investigation of enantioseparation in vancomycin chiral column,**
Mostafa Shahnani[1], Alireza Ghassempour[2], Ahmad Mehdi[3], Didier Thiebaut[4]
[1]ESPCI, France, [2]Medicinal Plants and Drug Research Institute, Shahid Beheshti university, G.C; Evin, Tehran, [3]Institut Charles Gerhardt de Montpellier, UMR 5253, CNRS-ENSCM-UM, Université de Montpellier, France, [4]Ecole Supérieure de Physique et de Chimie Industrielles de la ville de Paris, France

PS-01 / New technologies, instrumentations and separation media for GC, HPLC and SFC (even numbers)

PS-01-02 **Application of micellar liquid chromatography for determination of tetracycline antibiotics in medicated feedingstuffs with the use HPLC-DAD**
Ewelina Patyra, Monika Przeniosło-Siwczyńska, Aleksandra Grelik, Krzysztof Kwiatek
National Veterinary Research Institute, Poland

PS-01-04 **Influence of Alkyl Spacer on the Chromatographic Behaviors of Novel Mesogenic Bioactive Phases for GC**
Ouassila Ferroukhi[1], Nihad Mermat[1], Valerie PEULON-AGASSE[2], Marie Vaccaro[2], Pascal Cardinael[2], Moulay Hassene Guermouche[1]
[1]Laboratoire de Chromatographie, Faculté de Chimie, Université des Sciences et de la Technologie USTHB, Algeria, [2]Normandie Univ, EA-3233, Laboratoire SMS, Univ Rouen, France

PS-01-06 **A new approach of supercritical fluid chromatography coupled with online supercritical fluid extraction for biological samples**
Yoshiyuki Watabe, Tetsuo Iida, Shinichi Kawano, Yoshihiro Hayakawa
Shimadzu, Japan

PS-01-08 **Successful application of Supercritical Fluid Chromatography (SFC) to support Drug Discovery**
David Corens[1], David Speybrouck[2], Michel Carpentier[3], Sébastien Thomas[2], Kristien Raeymaekers[3]
[1]Janssen Pharmaceutica NV / Johnson & Johnson, Belgium, [2]Janssen Research and Development France, France, [3]Janssen Pharmaceutica NV, Belgium

PS-01-10 **Improvement of Biphenyl Sorbents by Bulky Substituents**
Helmut Riering, Natalie Bilmann, Maria Ganin
Macherey-Nagel, Germany

PS-01-12 **Reversed phase separation of proteins by alkyl functionalized organosilicon monolith**
Fatoş Çiğdem Kip[1], Ali Tuncel[1], Michael Lämmerhofer[2]
[1]Hacettepe University, Turkey, [2]University of Tübingen, Germany

PS-01-14 **Influence of Primary Amine Structure in Hyperbranched Functional Layer on the Performance of Anion Exchangers for Ion Chromatography**
Anna Uzhel, Anastasia Gorbovskaja, Aleksandra Zatirakha, Alexander Smolenkov, Oleg Shpigun
Lomonosov Moscow State University, Russia

PS-01-16 **Influence of Porous Polystyrene-Divinylbenzene Particles Morphology on their Performance in Reversed Phase HPLC and Ion Chromatography**
Alexey Loshin[1], Yuliana Porukova[2], Aleksandra Zatirakha[2], Alexander Smolenkov[2], Oleg Shpigun[2]
[1]Lomonosov Moscow State University, Russia, [2]Moscow State University, Russia

PS-01-18 **A microfluidic system based on an organosilicon monolith for affinity separation of histidine-tagged proteins**
Fatoş Çiğdem Kip, Ilkay Kocer, Fatma Cambay, Eda Celik Akdur, Ali Tuncel
Hacettepe University, Turkey

PS-01-20 **A Microfluidic System for Immobilized Metal Affinity Separation of Phosphoproteins**
Cigdem Kip, Duygu Yildirim, Cagil Zeynep Sungu, Ali Tuncel
Hacettepe University, Turkey

PS-01-22 **Development and Characterization of a Novel HILIC Stationary Phase Modified with Poly(glycidyl methacrylate) Using Surface Initiated-Atom Transfer Radical Polymerization**
Ashin Taniguchi, Tohru Ikegami
Kyoto Institute of Technology, Japan

PS-01-24 **Evaluating the Applicability of Alternative Substrates in Hydrophilic Interaction Chromatography**
Alexander Popov, Alla Chernobrovkina, Kirill Domnikov, Alexander Smolenkov, Oleg Shpigun
Lomonosov Moscow State University, Russia

PS-01-26 **Carryover Improvement Achieved Through Instrument Design Changes and Needle Wash Optimization for HPLC Systems**
Amanda Dlugasch, Jennifer Simeone, Patricia McConville
Waters Corporation, United States of America

PS-01-30 **Separation of Enantiomers of Panthenol by HPLC Method with Different Types of Chiral Stationary Phases**
Anna Lomenova, Katarína Hroboňová, Terézia Šolonyová
Slovak University of Technology in Bratislava, Faculty of Chemical and Food Technology, Slovakia

PS-01-32 **Modern SFC in QC laboratories**
Claudio Brunelli
Pfizer, United Kingdom

PS-01-34 **Amphiphilic polymer modified monodisperse calcium carbonate microspheres for application in separation materials**
Yuki Hiruta, Mai Mochida, Yuta Nagai, Hiroto Kumagai, Hiroaki Imai, Daniel Citterio
Keio University, Japan

PS-01-36 **Synergistic Enantioseparation Systems With Either Cyclodextrins or Cyclofructans and L-Alanine Tert Butyl Ester Lactate**
Athina Nicolaou, Maria Mavroudi, Ioannis Stavrou, Constantina Kapnissi-Christodoulou
University of Cyprus, Cyprus

PS-01-38 **Chiral Separations by Using Cyclodextrin- and Cyclofructan-Based Chiral Stationary Phases in HPLC**
Eliana Agathokleous, Constantina P. Kapnissi-Christodoulou
University of Cyprus, Cyprus

PS-01-40 **Comparison of Different Aryl Chemically Bonded Phases for the Determination of Primary Aromatic Amines with Liquid Chromatography Tandem Mass Spectrometry**
Hans Rainer Wollseifen, Torsten Kretschmer, Aliye Mengus-Kaya, Max Arens
MACHEREY-NAGEL GmbH Co. KG, Germany

PS-01-42 **Development of a Multiproduct Method for the Analysis of Cholesterol-Lowering Drugs by Ultra High Performance Supercritical Fluid Chromatography (UHPSFC) and Chemometrics**
Márcia Cristina Breitkreitz, Igor Miranda Santana, José Licarion Pinto Segundo Neto, Lucília Vilela de Melo, Isabel Cristina S. F. Jardim, Douglas Neil Rutledge
UNICAMP, Brazil

PS-01-44 **Quinine-Based Zwitterionic Stationary Phases: Exploring Retention and Enantioseparation Mechanisms in Supercritical Fluid Chromatography**
Adrien Raimbault[1], Cam Mai Anh Ma[1], Pascal Bonnet[1], Martina Ferri[2], Michael Lämmerhofer[2], Caroline West[1]
[1]University of Orleans, ICOA, CNRS UMR 7311, France, [2]University of Tübingen, Institute of Pharmaceutical Sciences, Pharmaceutical (Bio-) Analysis, Germany

PS-01-46 **Examination of the Mass-Transfer in Liquid Chromatography Columns using Total Pore Blocking and Flow-Reversal Methods**
Nándor Lambert[1], Attila Felinger[2]
[1]MTA-TKI, Hungary, [2]University of Pécs, Department of Analytical and Environmental Chemistry, Hungary

PS-01-48 **A Systematic approach towards Chiral Method Development in early phase product development- An overview**

Nilesh Joshi[1], Balaji Dhamarlapati[2], Prabakaran Narayanan[2], Athimoolam Pillai[2], Laura Blue[3], Jason Tedrow[3]

[1]Syngene Amgen Research and Development Center (SARC), Syngene International Ltd. Bangalore, India, [2]Syngene International Ltd, India, [3]Amgen Inc., India

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PS-02 / Miniaturized and on-chip systems (odd numbers)

PS-02-01 **Microfluidic Electro-driven Spatial Chip for Multidimensional Separations**

Noor Abdulhussain, Suhas Nawada, Peter J. Schoenmakers

Van 't Hoff Institute for Molecular Science (HIMS), Faculty of Science, The Netherlands

PS-02-03 **Polymer Monoliths in Poly(ethylene-co-tetrafluoroethylene) Tubing as Chromatographic Supports for Microbore HPLC**

Mónica Catalá-Icardo[1], Sagrario Torres-Cartas[2], Susana Meseguer-Lloret[2], Carmen Gómez-Benito[2], Ernesto Francisco Simó-Alfonso[1], José Manuel Herrero-Martínez[1]

[1]Universitat de València, Spain, [2]Instituto de Investigación para la Gestión Integrada de Zonas Costeras, Campus de Gandía, Universitat Politècnica de València, Spain

PS-02-05 **Preparation of Methacrylate Monoliths in Microbore Columns by Photo-Initiation Using Poly(ethylene-co-tetrafluoroethylene) as Housing Material**

Mónica Catalá-Icardo[1], Carlos Lloret-Mascarell[2], Sagrario Torres-Cartas[2], Carmen Gómez-Benito[2], Susana Meseguer-Lloret[2], Ernesto Francisco Simó-Alfonso[1], José Manuel Herrero-Martínez[1]

[1]Universitat de València, Spain, [2]Instituto de Investigación para la Gestión Integrada de Zonas Costeras, Campus de Gandía, Universitat Politècnica de València, Spain

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PS-02 / Miniaturized and on-chip systems (even numbers)

PS-02-02 **Selective Extraction of Cocaine and Benzoylecgonine From a Biological Sample Using a Monolithic Imprinted Capillary Coupled On-Line With Nano-Liquid Chromatography**

Thomas Bouvarel, Audrey Combès, Nathalie Delaunay, Valérie Pichon

Department of Analytical, Bioanalytical Sciences, and Miniaturization (LSABM), UMR CBI 8231 (CNRS-ESPCI), ESPCI Paris, PSL University, France

PS-02-04 **Development and Characterization of Microbore-Methacrylate Monolithic Columns Modified With Magnetite Nanoparticles for Separation of Phosphorylated Compounds**

Sagrario Torres-Cartas[1], Susana Meseguer-Lloret[2], Carmen Gómez-Benito[2], Mónica Catalá-Icardo[2], Marta Domingo-Martí[2], Ernesto Francisco Simó-Alfonso[3], José Manuel Herrero-Martínez[3]

[1]Universitat de València, Spain, [2]Instituto de Investigación para la Gestión Integrada de Zonas Costeras, Universitat Politècnica de València, Spain, [3]Department of Analytical Chemistry, Universitat de València, Spain

PS-02-06 **Separation of Casein Digests in a Microbore Monolithic Column Functionalized With Magnetic Nanoparticles**

Susana Meseguer-Lloret[1], Sagrario Torres-Cartas[1], Mónica Catalá-Icardo[1], Carmen Gómez-Benito[1], Ernesto Francisco Simó-Alfonso[2], José Manuel Herrero-Martínez[2]

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PS-03 / Process Chromatography and Monitoring (odd numbers)

PS-03-01 **Quantitative Analysis of Elemental Sulfur in Pulping Liquors**
Stefan Böhmdorfer, Oliver Musl, Antje Potthast, Thomas Rosenau
Boku - University of Natural Resources and Life Sciences, Vienna, Austria

PS-03-03 **The key role of HPTLC coupled with column purification techniques for manufacturing clinical batches in a modern API CMO production plant**
Pierre Bernard-Savary[1], Amélie Havard[2], Daniel Dron[2]
[1]Chromacim Camag, France, [2]Oril Industrie, France

PS-03 / Process Chromatography and Monitoring (even numbers)

PS-03-02 **Split-Intein Mediated Affinity Chromatography for the Purification of a C-Intein Tagged Protein**
Simona Felletti[1], Nicole Ulmer[2], Oliver Rammo[3], Michael Schulte[3], Alberto Cavazzini[1], Massimo Morbidelli[2]
[1]University of Ferrara, [2]ETH Zürich, [3]Merck KGaA, Italy

PS-03-04 **Development of a 2D-HPLC Method Supporting the Process Optimization of a new Protein-Based Vaccine.**
Jean-Pol DEVILLE, Xavier Gérin, Pascal Gerkens, Francesco Galletto
GSK, Belgium

PS-04 / Complementary and Emerging Techniques (FFF...) (odd numbers)

PS-04-01 **Native Asymmetrical Flow Field-Flow Fractionation and Size-Exclusion Chromatography for Studying Aggregation of Beta-D-Galactosidase**
Iro Ventouri[1], Alina Astefanei[2], Erwin Kaal[3], Govert W. Somsen[4], Peter J. Schoenmakers[2]
[1]University of Amsterdam & Vrije University of Amsterdam, The Netherlands, [2]University of Amsterdam, Van 't Hoff Institute for Molecular Sciences-Analytical Chemistry Group, The Netherlands, [3]DSM Biotechnology Center, The Netherlands, [4]Vrije Universiteit Amsterdam, Division of BioAnalytical Chemistry, The Netherlands

PS-04-03 **No doubts – How complementary chromatographic methods can support a full analytical picture in pharmaceutical drug development**
Petra Lewits, Holger Bauer
Merck KGaA, Germany

PS-04-05 **Tips and Tricks for TLC-MS**
Monika Bäumle[1], Michaela Oberle[2], Stephan Altmaier[2], Michael Schulz[2]
[1]Sigma-Aldrich Chemie GmbH, a Merck Company, Switzerland, [2]Merck KGaA, Instrumental Analytics R&D, Darmstadt, Germany

PS-04-07 **Modern Bioautography - A fast Analytical Tool to discover active Compounds in Plant Extracts used for Cosmetics**
Monika Bäumle[1], Michaela Oberle[2], Janina Engemann[2], Ines Klingelhöfer[3], Gertud Morlock[3]
[1]Sigma-Aldrich Chemie GmbH, a Merck Company, Switzerland, [2]Merck KGaA, Life Science, Germany, [3]Justus Liebig University Giessen, Institute of Nutritional Science, and Interdisciplinary Research Center, Germany

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PS-04 / Complementary and Emerging Techniques (FFF...) (even numbers)

PS-04-02 **Straightforward Process Design for the Identification and Isolation of bioactive Natural Products using Thin-Layer and Preparative Chromatography**
Petra Lewits, Michaela Oberle, Michael Schulte
Merck KGaA, Germany

PS-04-04 **Using Modern 2D High Performance Thin Layer Chromatography coupled with MALDI-TOF-MS for a first screening approach of plant extracts**
Petra Lewits, Michaela Oberle
Merck KGaA, Germany

PS-04-06 **The Advantages of TLC as a Quick Screening and Crosscheck Method for Natural Products using the Quantification of α- and β- Acids in Hop as an Example**
Monika Bäumle[1], Janina Engemann[2], Vanessa Pilakowski[2], Michaela Oberle[2], Markus Burholt[2], Michael Schulz[2]
[1]Sigma-Aldrich Chemie GmbH, a Merck Company, Switzerland, [2]Merck KGaA, Germany

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PS-05 / Chemometrics, Quality by Design, Data Processing (odd numbers)

PS-05-01 **Using Free, High-Performance, Computer Modeling Software to Simulate Gas Chromatographic Separations**
Jaap Dezeeuw
Restek, Netherlands

PS-05-03 **Enhanced workflows in GC×GC data processing**
Laura McGregor[1], Aaron Parker[1], Joe Blanch[2], Patrick Henry[2], Nick Bukowski[1]
[1]SepSolve Analytical, United Kingdom, [2]Markes International, United Kingdom

PS-05-05 **Compliance to the Latest Recommendations on Chromatographic Assay Methods Validation with a Dedicated Software**
Jean-Marc Roussel[1], Michel Righezza[2]
[1]JM ROUSSEL, France, [2]Aix-Marseille Université, France

PS-05-07 **Principle component analysis and quantification of anthocyanin patterns in coloured wheat by high-performance thin-layer chromatography**
Stefan Böhmdorfer, Josua Oberlerchner, Christina Fuchs, Thomas Rosenau, Heinrich Grausgruber
Boku - University of Natural Resources and Life Sciences, Vienna, Austria

PS-05-09 **Development and Design Space Modeling of a Stability-Indicating HPLC Method for Determination of Fexofenadine, its Related Compound and Preservatives in a Suspension Dosage Form**
Abdallah Salama, Hatem Mokhtar
Medical Union Pharmaceuticals Co. (MUP), Egypt

PS-05-11 **Science–Based Quality by Design Concept for Mass Balance Study of Forced Degradation of Rosuvastatin**
Maja Hadzieva Gigovska[1], Ana Petkovska[1], Jelena Acevska[2], Natalija Nakov[2], Packa Antovska[1], Sonja Ugarkovic[1], Aneta Dimitrovska[2]
[1]Alkaloid AD Skopje, Macedonia, [2]Faculty of Pharmacy, University "Ss Cyril and Methodius", Macedonia

PS-05-13 **Quality by Design Approach for HPLC Method Development on Vancomycin Based Stationary Phase**
Magy Herz[1], Hassan Aboul-Enein[2], Lamia Shihata[1], Rasha Hanafi[1]
[1]German University in Cairo, Egypt, [2]National Research Center, Egypt

PS-05-15 **Application of Average Mass Spectra Combined with Multivariate Statistical Analysis in the Authentication and Quality Assurance of Ylang Ylang Essential Oils**
Leo Lebanov[1], Laura Tedone[1], Robert Bardsley[2], Massoud Kaykhaii[3], Matthew R. Linford[4], Brett Paull[1]
[1]University of Tasmania, Australia, [2]Plant Therapy Inc, United States of America, [3]University of Sistan and Baluchestan, Iran, [4]Brigham Young University, United States of America

PS-05-17 **Chemometric Analysis of Ylang-Ylang (Cananga odorata) Oils**
Shiladitya Chatterjee[1], Leo Lebanov[2], Laura Tedone[2], Paul Stanger[3], Massoud Kaykhaii[4], Brett Paull[2], Matthew R. Linford[1]
[1]Brigham Young University, United States of America, [2]University of Tasmania, Australia, [3]Plant Therapy Inc, United States of America, [4]University of Sistan and Baluchestan, Iran

PS-05-19 **Powerful Combination Between Analytical QbD (AQbD) and RPLC in Pharmaceutical Analysis**
Ricardo Goncalves, Lucia Sousa
Hovione FarmaCiência, Portugal

PS-05 / Chemometrics, Quality by Design, Data Processing (even numbers)

PS-05-02 **An Application of Self-Organizing Maps for Clustering of Fresh Cheese with Added Nisin Producing Lactococcus Lactis Bacteria Strains**
Paulius Kaškonas[1], Mantas Stankevičius[2], Kristina Kondrotienė[3], Vilma Kaškonienė[2], Mindaugas Malakauskas[3], Audrius Maruška[2]
[1]Kaunas University of Technology, Lithuania, [2]Vytautas Magnus University, Lithuania, [3]Lithuanian University of Health Sciences, Lithuania

PS-05-04 **Expansion of the empirical retention time prediction model on the ternary isocratic method to ternary multi-step gradient method**
Ryunosuke Kitamura, Takefumi Kawabe
Daiichi-Sankyo, Japan

PS-05-06 **Design of Experiments in Gradient Chromatography based on the Minimization of Prediction Errors**
José Ramón Torres-Lapasió, Sergio López-Ureña, José Antonio Navarro-Huerta, María Celia García-Álvarez-Coque
University of Valencia, Spain

PS-05-08 **The correctness of van't Hoff plots in chiral chromatography**
Annamária Sepsey, Attila Felinger
University of Pécs, Hungary

PS-05-10 **A Chemometric Approach for the Development of a Chiral HPLC Method for Simultaneous Determination of Enantiomeric Impurity and Degradation Products of Rosuvastatin**
Natalija Nakov, Jelena Acevska, Katerina Brezovska, Liljana Anastasova, Ana Poceva Panovska, Jasmina Tonich Ribarska, Suzana Trajkovich Jolevska, Rumenka Petkovska, Aneta Dimitrovska
Faculty of Pharmacy, Un. «SS. Cyril and Methodius», Macedonia

PS-05-12 **Determination of the Design Space of Chiral HPLC Separations on Chirobiotic T Stationary Phase**
Nadine George[1], Hassan Aboul-Enein[2], Lamia Shihata[1], Rasha Hanafi[1]
[1]German University in Cairo, Egypt, [2]National Research Center, Egypt

PS-05-14 **Chemometrically Treatment of Optimisation by Factorial Design**

Josep Esteve-Romero[1], Juan Peris Vicente[2], Jaume Albiol Chiva[1], Samuel Carda Broch[1], Misericordia Jiménez[3], José Vicente Gimeno Adelantado[2], José Vicente Gómez[3], Andrea Tarazona[3], Rufino Mateo Castro[2], Eva Mateo[4]

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PS-05-16 **Application of Average Mass Spectra Combined with Multivariate Statistical Analysis in the Identification of Different Essential Oils**

Leo Lebanov[1], Laura Tedone[1], Robert Bardsley[2], Massoud Kaykhaii[3], Matthew R. Linford[4], Brett Paull[1]

[1]University of Tasmania, Australia, [2]Plant Therapy Inc, United States of America, [3]University of Sistan and Baluchestan, Iran, [4]Brigham Young University, United States of America

PS-05-18 **The Importance of Analytical Method Robustness Modelling for Successful Method Transfer**

Ricardo Goncalves, Antonio Ramos

Hovione FarmaCiência, Portugal

PS-06 / Multidimensional and Hyphenated Techniques (odd numbers)

PS-06-01 **Online Heart-Cutting Liquid Chromatographic Analysis of Ramelteon in Human Serum**

Ahmet Olcay Sagirli[1], Armagan Önal[1], Sidika Ertürk Toker[1], S. Evrim Kepekci Tekkeli[2]

[1]Istanbul University, Faculty of Pharmacy, Turkey, [2]Bezmialem Vakıf University, Turkey

PS-06-03 **Evaluation of Stationary Phase Film Thickness For Short Coated Gas Chromatography Capillary Columns**

Myriam Bonose[1], Murphy Elouma Ndinga[2], Alain Tchapla[2]

[1]LETIAM, Lip(Sys)2, Univ. Paris-Sud, Université Paris Saclay, France, [2]Lip(Sys)2, LETIAM, Univ. Paris Sud, Université Paris-Saclay, France

PS-06-05 **Effective Determination of Pharmaceutical Impurities by Two-Dimensional Liquid Chromatography (2D-LC)**

Isabelle Francois[1], Zhimin Li[2]

[1]Waters Corporation, France, [2]Waters, United States of America

PS-06-07 **Enabling challenging Separation Modes in Two-dimensional Liquid Chromatography to enhance targeted Analysis in Polymers**

Stephan Buckenmaier[1], Antje Wegener[2], Matthias Pursch[2]

[1]Agilent Technologies, Germany, [2]Dow Deutschland Anlagen GmbH, Germany

PS-06-09 **Simultaneous Determination of Neurotransmitters and Endocannabinoids Using Dansyl Derivatization and Online Column-Switching Liquid Chromatography**

Maria Baranyi, Beata Sperlagh

Institute of Experimental Medicine Hungarian Academy of Sciences, Hungary

PS-06-11 **GC-IR Hyphenation and Quantum-Chemical Spectra Simulation - a Fruitful Cooperation of Experiment and Theory for Difficult Structure Elucidations**

Reinhard Doetzer, Susanne Salzmann, Sandra Steiner, Gabriele Steffen, Michaela Stritzinger

BASF SE, Germany

PS-06-13 **AMD-HPTLC-EDA-HRMS as a new comprehensive tool for complex samples.**

Pierre Bernard-Savary[1], Stefan Weiss[2], Wolfgang Schulz[2]

[1]Chromacim Camag, France, [2]Zweckverband Landeswasserversorgung, Germany

PS-06-15 **Preparative Comprehensive Two-Dimensional Chromatography: Comparison of CPCxLC and PrepLCxLC for the Isolation of Multiple Targets from Edelweiss Plant.**
Léa Marlot[1], Magali Batteau[2], Karine Faure[2]
[1]EZUS, France, [2]Institut des Sciences Analytiques ISA Lyon, France

PS-06-17 **On-line comprehensive two-dimensional liquid separations for impurity analysis in nitric acid-rich industrial reaction mixtures**
Florent Rouvière[1], Eric Tuva[2], Karine Faure[3], Candice Grivel[2], Sabine Heinisch[3]
[1]EZUS LYON, France, [2]CRTL Solvay Rhodia, France, [3]Institut des sciences analytiques, France

PS-06-19 **Evaluation of quadrupole based comprehensive GcxGC system for MOSH/MOAH analysis**
Erich Leitner, Andrea Walzl
TU Graz, Analytical Chemistry and Food Chemistry, Austria

PS-06-21 **A Multi-Detector Set-up Comprising UV/Vis, Charged Aerosol and Single Quadrupole Mass Spectrometric Detection for Comprehensive Quantitative Sample Analysis**
Tim Cross, Stephan Meding, Katherine Lovejoy, Martin Samonig, Frank Hoefler, Remco Swart, Martin Ruelh
Thermo Fisher Scientific, United Kingdom

PS-06 / Multidimensional and Hyphenated Techniques (even numbers)

PS-06-02 **Fast and efficient group-type analysis by GC×GC**
Laura McGregor[1], Aaron Parker[1], Steve Smith[2], Nick Bukowski[1]
[1]SepSolve Analytical, United Kingdom, [2]Markes International, United Kingdom

PS-06-04 **Untargeted Comprehensive Two-Dimensional Liquid Chromatography: a Yeast Lipidomic Study**
Miriam Carolina Pérez Cova[1], Romà Tauler[2], Joaquim Jaumot[2]
[1]Consejo Superior de Investigaciones Científicas (CSIC-IDAEA), Spain, [2]IDAEA-CSIC, Spain

PS-06-06 **Potential and limitations of off-line comprehensive two-dimensional separation of petroleum sample by SECxRPLC-ICP-MS/MS**
Marie Bernardin[1], Frédérique Bessueille[2], Agnès Le Masle[1], Charles-Philippe Lienemann[1], Sabine Heinisch[2]
[1]IFPEN, France, [2]Institut des Sciences Analytiques, France

PS-06-08 **Biochrom– Development of an On-Line High-Performance Liquid-Chromatography Hyphenation with Biochemical Detection (HPLC-BCD) for Tracking Antioxidant Compounds in Natural Extracts**
Lionel Paillat[1], Eric Bordier[2], Michel Seite[2], Sakina Mezzache[2], Brice Bonnet[2]
[1]L'Oréal, France, [2]L'Oréal Research and Innovation, France

PS-06-10 **Direct Analysis of Oligonucleotides with Online Desalting Using Heart-Cutting Two Dimensional Liquid Chromatography (2D-LC)**
Clarissa Dickhut, Sonja Krieger
Agilent Technologies R&D and Marketing GmbH & Co. KG, Germany

PS-06-12 **Increasing Sample Throughput Using Parallel Column Regeneration**
Zhimin Li, Paula Hong, Patricia McConville
Waters, United States of America

PS-06-14 **On-line HILICxRPLC Separation of Complex Peptide Sample**
Soraya Chapel, Sabine Heinisch
INSTITUT DES SCIENCES ANALYTIQUES, France

PS-06-16 **Two-Dimensional Preparative Chromatography: Isolation of High Molecular Weight Compounds from Lignin Bio-Oil Using CPCxSFC**
Coraline Duroux[1], Magali Batteau[1], Chantal Lorentz[2], Dorothée Laurenti[2], Karine Faure[1]
[1]Institut des Sciences Analytiques ISA Lyon, France, [2]IRCELyon, France

PS-06-18 **Comprehensive Gas Chromatography Combining With Orbitrap Based Mass Spectrometer GC´GC-MS**
Viet Hung Nguyen, Valérie Agasse, Stephane Marcotte, Marie Vaccaro, Pascal Cardinael
Normandie Université, Laboratoire SMS-EA3233, Université de Rouen, France

PS-06-20 **Advantages of Comprehensive Two-Dimensional Liquid Chromatography on Separation and Matrix Effects in the Polyphenol Profiling of Extra Virgin Olive Oils**
Adriana Arigò[1], Katia Arena[2], Francesco Cacciola[3], Fabio Salafia[1], Francesca Rigano[4], Mariosimone Zoccali[1], Paola Dugo[1], Luigi Mondello[1]
[1]Department of «Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali» University of Messina, Italy, [2]Italy, [3]Department of «Scienze Biomediche, Odontoiatriche e delle Immagini Morfologiche e Funzionali», University of Messina, Italy, [4]Chromaleont S.r.l., c/o Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali, University of Messina, Italy

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PS-07 / All Modes of Chromatography and Electrodriven Separation Techniques (odd numbers)

PS-07-01 **Acceleration of Conventional United States Pharmacopeia Methods Using Smaller Column Dimensions**
Carola Thiering, Philipp Jochems, Robert Ludwig, Gesa Schad, Thomas Schüßeler
Shimadzu Europa GmbH, Germany

PS-07-03 **Development of Capillary Electrophoretic Method for the Separation of Isomeric Components in a Silymarin Complex**
Petra Riasová, Pavel Jáč, Miroslav Polášek
Charles University, Faculty of Pharmacy, Czech Republic

PS-07-05 **The impact of π…π interactions on the retention and separation of oligonucleotides by ion pair chromatography**
Sylwia Studzińska[1], Bogusław Buszewski[2]
[1]Nicolaus Copernicus University in Toruń, [2]Chair of Environmental Chemistry and Bioanalytics, Faculty of Chemistry, Nicolaus Copernicus University, Poland

PS-07-07 **Analysis of β Adrenoceptor Antagonists in Urine Samples using Multi-Linear Gradient Elution in Micellar Liquid Chromatography**
José Ramón Torres-Lapasió, José Antonio Navarro-Huerta, María José Ruiz-Ángel, María Celia García-Álvarez-Coque
University of Valencia, Spain

PS-07-09 **HILIC, Polar, and Shape Selectivity of a FluoroPhenyl Phase**
Ty Kahler, Becky Wittrig, Olivier Griffaton, Susan Steinike
Restek Corporation, United States of America

PS-07-11 **LFER Study on the Selectivity of a HILIC Column: Methanol and Acetonitrile as Organic Solvents**
Xavier Subirats[1], Althea Justicia[2], Michael H. Abraham[3], Martí Rosés[2]
[1]Universitat de Barcelona, [2]University of Barcelona, [3]University College London, Spain

PS-07-13 **An Evaluation of the Robustness of a Peptide Based Column Characterisation Protocol**
Jennifer Field[1], Melvin Euerby[2], Patrik Petersson[3]
[1]Shimadzu Europa GmbH, [2]University of Strathclyde / Shimadzu, [3]Novo Nordisk, Germany

PS-07-15 **Effect of Column Packing Procedure on the Column Ends Structure and Bed Heterogeneity - Experiments with Flow-Reversal**

Dóra Zelenyánszki[1], Nándor Lambert[2], Fabrice Gritti[3], Attila Felinger[4]
[1]Magyar Elválasztástudományi Társaság, [2]MTA–PTE Molecular Interactions in Separation Science Research Group, [3]Waters Corporation, Instrument/Core Research/Fundamental, [4]University of Pécs, MTA–PTE Molecular Interactions in Separation Science Research Group, Hungary

PS-07-17 **Chromatographic Retentive Behaviour of Pseudomonas Aeruginosa Cell-Cell Signalling Molecules in the Development of a Liquid Chromatography-Mass Spectrometry Method**

Phyllis Hayes, Emma C. Birney, Alyah Buzid, Jeremy D. Glennon
University College Cork, Ireland

PS-07-19 **Purification of Anastrozole with Centrifugal Partition Chromatography**

Dóra Rutterschmid, Erika Jantyikné Tamás, Márton Czirók, Dávid Nagy
RotaChrom Technologies Ltd., Hungary

PS-07-21 **Competitive Adsorption in Supercritical Fluid Chromatography: A Model**

Csanád Rédei[1], Attila Felinger[2]
[1]Magyar Elválasztástudományi Társaság, [2]University of Pécs, MTA-PTE Molecular Interactions in Separation Science Research Group, Hungary

PS-07-23 **Modeling the Nonlinear Gradient Behavior of a Pharmaceutical Relevant Peptide in RP-LC**

Chiara De Luca[1], Martina Catani[2], Simona Felletti[2], Marco Visentin[3], Walter Cabri[3], Antonio Ricci[3], Alberto Cavazzini[4]
[1]University of Ferrara, [2]Università degli Studi di Ferrara - Dept. Chemistry&Pharmaceutical Sciences, [3]Fresenius Kabi iPSUM s.r.l., via San Leonardo 23, 45010, Villadose (Ro), Italy, [4]Università degli Studi di Ferrara - Dept. Chemistry&Pharmaceutical Science, Italy

PS-07-25 **Influence of the Immobilization Chemistry on Chromatographic Features of Reversed Phase/Weak Anion-Exchange Mixed Mode Silica Gel**

Stefanie Bäurer, Aleksandra Zimmermann, Jeannie Horak, Michael Lämmerhofer
Institute of Pharmaceutical Sciences, Pharmaceutical (Bio-) Analysis, University of Tübingen, Germany

PS-07-27 **Qualitative and quantitative determination of Cathinones as new drugs of abuse in humane urine by GC-MS and HPLC-UV**

Elisabeth Pendl[1], Martin Schmid[2], Claudia Braunstein[2], Michael Hiden[3], Max Foissner[3]
[1]University of Graz; Institute of Pharmaceutical Sciences, [2]Institute of Pharmaceutical Sciences Graz, [3]IKA Graz, Austria

PS-07-29 **Determination of Androstenone, Indole and Skatole in Porcine Serum by LC-MS/MS Method**

Barbara Woźniak, Sebastian Witek, Iwona Matraszek-Zuchowska, Andrzej Posyniak
National Veterinary Research Institute, Poland

PS-07-31 **Synthesis and Evaluation of Hybrid Organic/Inorganic Particles for Biomolecular Separations**

Nicole Lawrence, Kevin Wyndham, Jessica Sargent, Kenneth Glose, Edward Bouvier, Susan Rzewuski, Matthew Lauber, Stephan Koza, Thomas Walter
Waters Corporation, United States of America

PS-07-33 **Best Practices for Generating Reliable and Robust Liquid Chromatography Methods Using Long Shallow Gradients**

Jennifer Simeone, Paula Hong
Waters Corporation, United States of America

PS-07-35 **Recent Developments in Wastewater Analysis by Gas Chromatography**
Grzegorz Boczkaj
Gdansk University of Technology, Faculty of CHemistry, Department of Chemical and PRocess Engineering, Poland

PS-07-37 **Control of Molecular Interactions between Liposomal Stationary Phase by Magnetic Force for High Performance Separation**
Yukihiro Okamoto, Ryo Kawakami, Masayori Suwa, Keishi Suga, Hiroshi Umakoshi
Osaka University, Japan

PS-07-39 **Carbon Dots as Double-Agents: Mediators of ssDNA and Metalloprotein Mobility, and Facilitators of Label-Free Fluorescence Detection in ctITP Assays.**
Christa Colyer, Debashish Roy, Leona Sirkisoon
Wake Forest University, United States of America

PS-07-41 **Determination of Polyphenolic Content of Carobs, Cultivated in Cyprus**
Atalanti Christou, Constantina P. Kapnissi-Christodoulou
University of Cyprus, Cyprus

PS-07-43 **Development of CE/MS methodologies for the analysis of monoclonal antibodies**
Meriem Dadouch[1], Claudia Bich[2], Yoann Ladner[2], Gaëlle Coussot[2], Christian Larroque[3], Catherine Perrin[2]
[1]Université de Montpellier, [2]Institut des Biomolécules Max Mousseron, [3]Institut de recherche en Cancérologie de Montpellier, France

PS-07-45 **Investigation of imatinib mesylate peak splitting in the presence of salt in capillary zone electrophoresis by means of Simul new version and Peakmaster computational tools**
Omar Ahmed[1], Michal Malý[2], Yoan Ladner[3], Laurent Philibert[4], Catherine Perrin[3], Pavel Dubsky[5]
[1]Université de Montpellier, France, [2]Department of Physical and Macromolecular Chemistry, Faculty of Science, Charles University in Prague, Albertov, [3]Institut des Biomolécules Max Mousseron (IBMM), UMR 5247-CNRS-UM-ENSCM, Montpellier, France [4]Institut régional du Cancer de Montpellier (ICM), Département de Pharmacie et Pharmacologie, Montpellier, France [5]Department of Physical and Macromolecular Chemistry, Faculty of Science, Charles University in Prague, Albertov, Prague

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PS-07 / All Modes of Chromatography and Electrodriven Separation Techniques (even numbers)

PS-07-02 **Chromatographic properties of L-cystein-modified gold-coated copolymer styrene-divinylbenzene**
Irina Ananyeva, Daria Prosuntsova, Andrey Plodukhin, Elena Shapovalova
Lomonosov Moscow State University, Chemistry Department, Russia

PS-07-04 **Analysis of Modified Oligonucleotides with the Use of Ion Pair Reversed-Phase Ultra High Performance Liquid Chromatography**
Anna Kaczmarkiewicz, Łukasz Nuckowski, Sylwia Studzińska, Bogusław Buszewski
Nicolaus Copernicus University in Toruń, Poland

PS-07-06 **Evaluation of Several Hydrophilic Interaction Liquid Chromatography Stationary Phases for Analysis of Nucleosides: Modelling the Retention Behavior**
María Celia García-Alvarez-Coque, Ester Peris-García, Raquel Burgos-Gil, Ana Ribera-Castelló, Juan José Baeza-Baeza, María José Ruiz-Ángel
University of Valencia, Spain

PS-07-08 **Affecting Selectivity and HILIC Retention on a FluoroPhenyl Stationary Phase**
Ty Kahler, Becky Wittrig, Olivier Griffaton, Susan Steinike
Restek Corporation, United States of America

PS-07-10 **Retention-pH Profiles of Acids and Bases in HILIC**
Xavier Subirats[1], Tamara Alvarez-Segura[2], Martí Rosés[1]
[1]Universitat de Barcelona, Spain, [2]University of Valencia, Spain

PS-07-12 **Enantioseparation of Novel Psychoactive Substances by Capillary Electrophoresis Using Carboxymethyl-β-Cyclodextrin as Chiral Selector**
Johannes Hägele, Martin Schmid
KFU Graz, Austria

PS-07-14 **Development of a Simple Chromatographic Characterisation Protocol for Strong Cation Exchange (SCX) Columns**
Jennifer Field[1], Ashleigh Bell[2], Melvin Euerby[3], Patrik Petersson[4]
[1]Shimadzu Europa GmbH, Germany, [2]University of Strathclyde, United Kingdom, [3]University of Strathclyde / Shimadzu, United Kingdom/Germany, [4]Novo Nordisk, Denmark

PS-07-16 **Investigation the Retention Mechanism on Zwitterionic Chiral Stationary Phases via Nonlinear Chromatography**
Ivett Bacskay[1], Renáta Kulágin[2], Wolfgang Lindner[3], Attila Feilnger[4]
[1]MTA-TKI, Hungary, [2]Department of Analytical and Environmental Chemistry and Szentágothai Research Center, University of Pécs, Hungary, [3]Institute of Analytical Chemistry, University of Vienna, [4]MTA–PTE Molecular Interactions in Separation Science Research Group; Department of Analytical and Environmental Chemistry and Szentágothai Research Center, University of Pécs, Hungary

PS-07-18 **Liquid Chromatographic-Mass Spectrometric Determination of Guaiacol and its Phenolic Precursors Associated with Alicyclobacillus Contamination in Fruit Juice and Beverages**
Phyllis Hayes, Alyah Buzid, Jeremy D. Glennon
University College Cork, Ireland

PS-07-20 **Purification of Sugammadex using Centrifugal Partition Chromatography**
Erika Anna Jantyikné Tamás, Márton Czirók, Kristóf Gazda, Dávid Nagy, Dóra Rutterschmid
Rotachrom Technologies Ltd., Hungary

PS-07-22 **Enantioseparation of Cathinones and Their Metabolites in SFC-MS**
Natalie Kolderová[1], Martin Kuchař[1], Wolfgang Lindner[2], Michal Kohout[1]
[1]University of Chemistry and Technology Prague, Czech Republic, [2]Department of Analytical Chemistry, University of Vienna, Austria

PS-07-24 **Techniques for Optimizing GC Analysis of Glycols in an Aqueous Matrix**
Ty Kahler, Jaap De Zeeuw, Becky Wittrig, Corby Hilliard, Kristi Sellers
Restek Corporation, United States of America

PS-07-26 **Performance of Modified Quinine-Type Chiral Stationary Phases for the Separation of Labelled and Unlabelled Amino Acids for Structure Elucidation of Therapeutic Peptides**
Jeannie Horak, Aleksandra Zimmermann, Ulrich Woiwode, Michael Lämmerhofer
Eberhard-Karls-University Tuebingen, Germany

PS-07-28 **Development and application of the UHPLC-MS/MS method to pharmacokinetics studies of thiouracil in calves**
Sebastian Witek, Barbara Woźniak, Iwona Matraszek-Zuchowska, Andrzej Posyniak
National Veterinary Research Institute, Poland

PS-07-30 **Transfer and Scaling of a USP Assay for Quetiapine Fumarate across Liquid Chromatographic Systems**
Amanda Dlugasch, Jennifer Simeone, Patricia McConville
Waters Corporation, United States of America

PS-07-32 **Optimization of HILIC UHPLC-UV method for analysis of Rutin, Quercetin and Related Metabolites**
Jakub Pavlík[1], Veronika Pilařová[1], Enrique Espinola[2], Lucie Nováková[1]
[1]Department of Analytical Chemistry, Faculty of Pharmacy, Charles University, Czech Republic, [2]University of Granada, Spain

PS-07-34 **Robustness and Accuracy of Orthogonal Phase Combinations in Pharmaceutical Related Substances Assays**
Daniel Meston, William John Lough
University of Sunderland, United Kingdom

PS-07-36 **Polymers reverse engineering: HPTLC has still many bright days ahead for complete deformulation**
Pierre Bernard-Savary[1], Patrick Van Impe[2]
[1]Chromacim Camag, France, [2]Solvay R&I Center Brussels, Belgium

PS-07-38 **How to Efficiently Mix Long-Injection Plugs in Capillary Electrophoresis?**
Lenka Michalcová, Hana Nevídalová, Zdeněk Glatz
Masaryk University, Faculty of Science, Department of Biochemistry, Czech Republic

PS-07-40 **Superhydrophobic Capillary Coatings for Electrophoretic Separations**
Charly Renard[1], Laurent Leclerq[2], Antonio Stocco[3], Hervé Cottet[2]
[1]Faculté des Sciences de Montpellier, France, [2]IBMM, Univ. Montpellier, CNRS, ENSCM, France, [3]L2C, Uni Montpellier, France

PS-07-42 **Study of Drug-Plasma Protein Binding Parameters by CE-MS**
Zdenek Glatz, Hana Nevidalova, Lenka Michalcova
Masaryk University, Faculty of Science, Department of Biochemistry, Czech Republic

PS-07-44 **Multilane capillary electrophoresis device for forensic DNA analysis**
Cedric Hurth[1], Nitigya Kathuria[2], Rongguan Liang[2], Frederic Zenhausern[1]
[1]Center for Applied Nanobioscience and Medicine, United States of America, [2]College of Optical Sciences, University of Arizona, United States of America

PS-07-46 **Development of HILIC-UHPLC-MS/MS Method for Analysis of Sofosbuvir: Use in In-Vitro Study of its Transport Mechanism and Drug-Drug Interactions**
Pavlína Svobodová, Hana Kočová Vlčková, Jakub Pavlík, Ondřej Matinec, Lukáš Červený, Petr Solich, Lucie Nováková
Faculty Of Pharmacy, Charles University, Czech Republic

PS-08 / Clinical, Biomedical and Toxicological Analysis and Diagnosis (odd numbers)

PS-08-01 **Application of ion pair chromatography coupled with mass spectrometry for the determination of antisense oligonucleotides in total RNA extracts obtained from cell cultures**
Sylwia Studzińska[1], Krzysztof Sobczak[2], Piotr Cywoniuk[2], Bogusław Buszewski[3]
[1]Nicolaus Copernicus University in Toruń, Poland, [2]Department of Gene Expression, Institute of Molecular Biology and Biotechnology, Adam Mickiewicz University, Poland, [3]Chair of the Environmental Chemistry & Bioanalytics, Faculty of Chemistry, Nicolaus Copernicus University, Poland

PS-08-03 **A Novel Solution for EtG/EtS Analysis in Urine by LC-MS/MS**
Ty Kahler, Becky Wittrig, Justin Steimling, Frances Carroll, Olivier Griffaton
Restek Corporation, United States of America

PS-08-05 **Sensitive Screening for new sychoactive substances in human urine by gc-ms**
Petra Gerhards[1], Luzia Schaaf[2], Inge de Dobbeleer[1], Thierry Domenger[1]
[1]Thermo Fisher Scientific, Germany, [2]LVR Viersen, Germany

PS-08-07 **Determination of perampanel in human serum by capillary electrophoresis with fluorescence detection**

Miroslava Bursová[1], Tomáš Hložek[1], Radomír Čabala[1], Petr Tůma[2]
[1]Department of Analytical Chemistry, Faculty of Science, Charles University, Czech Republic, [2]Charles University, Third Faculty of Medicine, Department of Hygiene, Czech Republic

PS-08-09 **Synthesis, Characterization and Quantification by UHPLC-MS/MS of DNA Adducts from 5 OXY-PAHS for the Evaluation of Their Genotoxicity**

Adeline Clerge[1], Jérémie Le Goff[2], Isabelle Vaudorne[3], Stéphanie Lagadu[3], Raphaël Delépée[4]
[1]ABTE ToxEMAC, France, [2]ADn'tox, France, [3]Normandie Univ, UNICAEN, France, [4]PRISMM, Plateforme de Recherche et d'Innovation en Spectrométrie de Masse et Métabolomique, ICORE, France

PS-08-11 **Quantification of 17 modified Nucleosides by UHPLC-MS/MS as new cancer Biomarkers**

Raphaël Delépée[1], Stéphanie Lagadu[2], Marc Since[3]
[1]Université de Caen Normandie - ABTE - CLCC F. Baclesse, France, [2]Normandie Université, UNICAEN, France, [3]Normandie Univ, UNICAEN, CERMN, France

PS-08-13 **Analysis of Cysteine Linked Antibody-Drug Conjugates Using Hydrophobic Interaction Chromatography (HIC)**

Lilla Guricza, Sonja Schneider
Agilent Technologies, Germany

PS-08-15 **Peroxidase-like activity of magnetic, monodisperse-porous SiO2 microspheres for sensing of proteins**

Cigdem Kip, Burcu Gökçal, Cihan Demir, Ali Tuncel
Hacettepe University, Turkey

PS-08-17 **The levels of antioxidants and amino acids in the patients with pheochromocytoma as a model for permanent stress**

Kamila Syslova[1], Milos Mikoska[1], Ondrej Petrak[2]
[1]UCT Prague, Czech Republic, [2]Department of Endocrinology and Metabolism, General University Hospital in Prague, Czech Republic

PS-08-19 **Monitoring of Trans Fatty Acids in the Breast Milk of Prague Mothers**

Martin Jaček[1], Milena Černá[2], Pavel Dlouhý[3], Petr Tůma[3]
[1]Third Faculty of Medicine, Czech Republic, [2]Department of Hygiene, Third Faculty of Medicine/ The National Institute for Public Health, Czech Republic, [3]Department of Hygiene, Third Faculty of Medicine, Czech Republic

PS-08-21 **Monitoring of Ochratoxin a Occurrence in The Plasma of Healthy Blood Donors by HPLC**

Josep Esteve-Romero[1], José Vicente Gómez[2], Andrea Tarazona[2], Juan Peris Vicente[3], José Vicente Gimeno Adelantado[3], Jaume Albiol Chiva[1], Samuel Carda Broch[1], Misericordia Jiménez[2], Eva Mateo[4]
[1]Química Bioanalítica, QFA, ESTCE, Universitat Jaume I, Spain, [2]Department of Microbiology and Ecology, University of Valencia, Spain, [3]Department of Analytical Chemistry, University of Valencia, Spain, [4]Institute for Research INCLIVA, Microbiology Service, Spain

PS-08-23 **Analysis of 12 Synthetic Cannabinoids in Blood by Liquid Chromatography Tandem Mass Spectrometry**

Mariami Murtazashvili[1], Malkhaz Jokhadze[2], Tamar Chikviladze[1], Paata Tushurashvili[2], Koba Sivsivadze[1], Tamaz Murtazashvili[1]
[1]Tbilisi State Medical University, Georgia, [2]Levan Samkharauli National Forensics Bureau, Georgia

PS-08-25 **Pivaloylcarnitine Interference due to Nipple Balm Usage in Nursing Mother Identified by Second-Tier HPLC-MS/MS as Cause of False Positive Newborn Screening for Isovaleric Acidemia**

Renáta Górová[1], Mária Ostrožlíková[2], Vladimír Bzdúch[2], Gabriela Addová[1], Viktória Ferenczy[2], Helena Jurdáková[1], Claudia Šebová[2]
[1]Institute of Chemistry, Faculty of Natural Sciences, Comenius University in Bratislava, Slovakia, [2]National Institute of Child Diseases, Slovakia

PS-08-27 **On the Benefits of Using CLAM-2000/LCMS2-8050 for Therapeutic Drug Monitoring of Mycophenolic Acid**

Paul Lefevre[1], Carole Jamey[2], Daniel Brumaru[2], Jean-Marc Lessinger[2], Véronique Kemmel[2]
[1]Laboratoire de Biochimie et de Biologie Moléculaire, France, [2]Biochemistry and Molecular Biology Laboratory –University Hospitals of Strasbourg, France

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PS-08 / Clinical, Biomedical and Toxicological Analysis and Diagnosis (even numbers)

PS-08-02 **A Simple Method for the Analysis of Methylmalonic Acid in Human Plasma by LC-MS/MS**

Ty Kahler, Becky Wittrig, Justin Steimling, Frances Carroll, Olivier Griffaton
Restek Corporation, United States of America

PS-08-04 **Bile Acid Profiling and Quantification in Human Plasma using LC-MS/MS**

Ty Kahler, Becky Wittrig, Olivier Griffaton, Frances Carroll, Dan Li
Restek Corporation, United States of America

PS-08-06 **Search of new Plasma Biomarkers for the Diagnosis of Alzheimer's Disease**

Emilie Rossi[1], Thuy Tran[2], Myriam Taverna[3]
[1]Institut Galien Paris Sud, Univ. Paris-Sud, CNRS, Université Paris-Saclay, France, [2]Insitut Galien UMR8612, [3]Institut Galien UMR8612, France

PS-08-08 **Chromatographic Method Development in Early Drug Development**

Jenny Ottosson[1], Jenny Ottosson[2], Karin Carlsson[2], Malin Gränfors[2], Veronica Berntsson[2], Henrik Kristensson[2], Lena Nilsson[3], Annika Träff Wergeni[2], Sheller Ariai[2], Angela Ku[2]
[1]AstraZeneca, Sweden, [2]Early Product Development, Pharmaceutical Sciences, IMED Biotech Unit, AstraZeneca, Sweden, [3]Product Development, Pharmaceutical Technology and Development, Operations, AstraZeneca, Sweden

PS-08-10 **Determination of Exocyclic DNA Adducts Profile By UHPLC-MS/MS as potential biomarker of Genotoxicity related to Oxidative Stress**

Héléna Alamil[1], Mathilde Lechevrel[2], Stéphanie Lagadu[3], Sylvain Billet[4], Zeina Dagher[5], Raphaël Delépée[2]
[1]ABTE ToxEMAC, [2]PRISMM, Plateforme de Recherche et d'Innovation en Spectrométrie de Masse et Métabolomique, ICORE, Caen, France, [3]Normandie Univ, UNICAEN, France, [4]Unité de Chimie Environnementale et Interactions sur le Vivant (UCEIV), Université du Littoral-Côte d'Opale, Dunkerque, France, [5]Lebanese University, Lebanon

PS-08-12 **Quantification of Four Gaucher Disease Biomarkers in Plasma and Red Blood Cells: Correlation With Disease Severity and Response to Therapeutic Intervention**

Caroline Chipeaux[1], Marine de Person[1], Sylvie Héron[1], Nathalie Burguet[1], Mélanie Franco[2], Caroline Le Van Kim[2], Fathi Moussa[1]
[1]LETIAM, Lip(Sys)2, France, [2]INTS, France

PS-08-14 **Effects of Process Conditions on Peroxidase-Like Activity of Monodisperse-Porous Metal Oxide Microspheres Modified with Cupric Oxide**

Burcu Gökçal, Cigdem Kip, Rukiye Babacan Tosun, Cihan Demir, Ali Tuncel
Hacettepe University, Turkey

PS-08-16 **Effects of vitamins on the peroxidase-like activity of monodisperse-porous MnO2 microspheres 5 µm in size**

Rukiye Babacan Tosun, Cigdem Kip, Burcu Gökçal, Cihan Demir, Ali Tuncel
Hacettepe University, Turkey

PS-08-18 **Direct Amino Acids Analysis in Biological Fluids by Mixed-Mode LC-MS/MS**

Claude Netter, Valérie Thibert
Thermo Fisher Scientific, France

PS-08-20 **Determinantion of Tyrosine Kinase Inhibitors in Human Plasma of Cancer Patients by Micellar Liquid Chromatography**

Jaume Albiol Chiva[1], Josep Esteve Romero[1], Juan Peris Vicente[2], José Vicente Gimeno Adelantado[3], Diego Enrique Kassuha[4], Devasish Bose[5], Abhilasha Durgbanshi[6], Samuel Carda Broch[1], Rufino Mateo Castro[3], Eva Mateo[7]

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PS-08-22 **Optimization and Validation by HPLC Method for Quantification of Rifampicin in Plasma and Urine Samples from Tuberculosis Patients**

Jaume Albiol Chiva[1], Devasish Bose[2], Pooja Mishra[2], Rajendra Prasad Pawar[2], Abhilasha Durgbanshi[3], Abhishek Jain[4], Josep Esteve Romero[1], Juan Peris Vicente[5], Samuel Carda Broch[1], Rufino Mateo Castro[5], Eva Mateo[6]

[1]Bioanalytical Chemistry, QFA, ESTCE, Universitat Jaume I, Castelló, Spain, [2]Criminology and Forensic Science, Dr. Harisingh Gour Vishwavidyalaya, India, [3]Chemistry, Dr. Harisingh Gour Vishwavidyalaya, India, [4]Medical Officer, Dr. Harisingh Gour Vishwavidyalaya, India, [5]Department of Analytical Chemistry, University of Valencia, Spain, [6]Institute for Research INCLIVA, Microbiology Service, Spain

PS-08-26 **Pharmacogenetic of Polymorphisms in HIV and Renal Transplanted Patients**

Jaume Albiol Chiva[1], Diego Enrique Kassuha[2], Micaela Flores[2], Gerardo Castro Ocampo[3], Josep Esteve Romero[1], Juan Peris Vicente[4], Samuel Carda Broch[1], Jesús Javier Iborra Millet[5], Eva Mateo[6]

[1]Bioanalytical Chemistry, QFA, ESTCE, Universitat Jaume I, Castelló, Spain, [2]Facultat Ciencias Químicas y Tecnología, Universidad Católica de Cuyo, Spain, [3]Hospital Descentralizado Dr. Guillermo Rawson, Spain, [4]Department of Analytical Chemistry, University of Valencia, Spain, [5]Bioquímica Clínica, Hospital General Universitari, Castelló, Spain, [6]Institute for Research INCLIVA, Microbiology Service, Spain

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PS-09 / Biologics (odd numbers)

PS-09-01 **Improvement of Separation of Monoclonal Antibodies Using Core-Shell Column**

Norikazu Nagae, Tomoyasu Tsukamoto, Makoto Sato

ChromaNik Technologies Inc., Japan

PS-09-03 **Dilute-and-Shoot Analysis of Therapeutic Monoclonal Antibody Glycosylation from Fermentation Broth: A Method Capability Study**

Therese Wohlschlager[1], Christof Regl[2], Wolfgang Skala[2], Christian G. Huber[2]

[1]University of Salzburg, CDL for Biosimilar Characterization, Austria, [2]University of Salzburg, Austria

PS-09-05 **Silk sericin, a natural carrier for drug delivery, biomedical and cosmeceutical use: size distribution and structural characterization by complementary HILIC, RP and SEC-MS methods**

Caterina Temporini, Sara Tengattini, Enrica Calleri, Gabriella Massolini, Sara Perteghella, Elia Bari, Maria Luisa Torre

University of Pavia, Dept. Drug Sciences, Italy

PS-09-07 **Charge Variant Method Design for Analysis of Monoclonal Antibodies**

Alexander Schwahn[1], Shanhua Lin[2], Julia Baek[2], Shane Bechler[2], Stacy Tremintin[2]

[1]Thermo Fisher Scientific, Switzerland, [2]Thermo Fisher Inc, United States of America

PS-09-09 **Quality control of synthetic biomolecules using rapid methods with serial coupling of UV and MS detectors**

Joachim Weiss[1], Sylvia Grosse[2], Katherine Lovejoy[2], Frank Steiner[2]

[1]Thermo Fisher Scientific GmbH, Germany, [2]Thermo Fisher Scientific Germering, Germany

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PS-09 / Biologics (even numbers)

PS-09-02 **Biomolecule separation on silica monoliths**
Petra Lewits, Benjamin Peters, Gisela Jung, Peter Knoell, Tom Kupfer, Egidijus Machtejevas
Merck KGaA, Germany

PS-09-04 **In-Depth Analytical Comparison of Infliximab and Related Biosimilars**
Garlet Benoit, Frederic Thiebaut
Phenomenex, France

PS-09-06 **Novel workflow to introduce and Ion Exchange Chromatography of biopharmaceutical proteins into High Resolution Mass Spectrometry**
Ken Cook[1], Jonathan Bones[2]
[1]Thermo Fisher Scientific, United Kingdom, [2]NIBRT, Ireland

PS-09-08 **High throughput, flexible chromatographic analysis of monoclonal antibodies**
Ken Cook[1], Nicola McGillicuddy[2], Martin Samonig[3], Amy Farrell[2], Jonathan Bones[2]
[1]Thermo Fisher Scientific United Kingdom, [2]NIBRT, Ireland, [3]Thermo Fisher Scientific Germering, Germany

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PS-10 / Omics (odd numbers)

PS-10-01 **Derringer's desirability functions as a scoring algorithm for optimizing analytical resources in metabolomic studies**
Julian Pezzatti, Víctor González-Ruiz, Santiago Codesido, Yoric Gagnebin, Julien Boccard, Serge Rudaz
University of Geneva, Switzerland

PS-10-03 **New insights in CE-MS-based metabolomics**
Nicolas Drouin, Victor Gonzalez-Ruiz, Santiago Codesido Sanchez, Serge Rudaz, Julie Schappler
University of Geneva, Switzerland

PS-10-05 **Development and Application of a HILIC-MS/MS Method for Polar Fecal Metabolome Profiling**
Nina Sillner[1], Alesia Walker[2], Eva-Maria Harrieder[3], Philippe Schmitt-Kopplin[2], Michael Witting[2]
[1]Helmholtz Zentrum München GmbH, Germany, [2]Helmholtz Zentrum München, Germany, [3]Technical University of Munich, Germany

PS-10-07 **Tandem UHPLC operation for high-throughput LC-MS peptide mapping analyses**
Alexander Schwahn, Martin Samonig, Sabrina Patzelt, Carsten Paul, Martin Ruehl, Remco Swart
Thermo Fisher Scientific Germering, Germany

PS-10 / Omics (even numbers)

PS-10-02 **Analysis of Platelet Fatty Acids and Oxylipins by Combined Targeted and Untargeted LC-MS Method**
Malgorzata Cebo, Jörg Schlotterbeck, Michael Lämmerhofer
University of Tübingen, Germany

PS-10-04 **Study on Extraction Protocols for UHPLC-ESI-MS/MS-Based Lipidomic Analysis of Hela Cells**
Carlos Calderon, Michael Laemmerhofer
[1]Universität Tübingen, Germany

PS-10-06 **Metabolomics in Chronic Kidney Disease: Toward a Better Understanding of Disease Progression and Hemodialysis**

Yoric Gagnebin[1], Julian Pezzatti[1], Pierre Lescuyer[2], Sophie De Seigneux[3], Julien Boccard[1], Serge Rudaz[1], Belén Ponte[3]

[1]School of Pharmaceutical Sciences, University of Geneva, University of Lausanne, Switzerland, [2]Department of Genetic and Laboratory Medicine, Geneva University Hospitals (HUG), Switzerland, [3]Service of Nephrology, Geneva University Hospitals (HUG), Switzerland

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PS-11 / Mass Spectrometry Hyphenation and Applications (odd numbers)

PS-11-01 **HPLC-QTOF-MS Determination of the Coupling of Ammonium Dicarboxylate Salts by Esterifications with Glycol**

Lein Jan Bostelaar[1], Shan Ma[2], Wei Fu Dong[2], Li Bo Xin[3]

[1]Vishay BCcomponents, Netherlands, [2]HEC R&D Center Aluminum Products Division, China, [3]HEC R&D Center Generics Division, China

PS-11-03 **Quantification in a Soil Degradation Study by High Resolution Mass Spectrometry**

Michael Speitling, Klaus Reinhard

BASF SE, Germany

PS-11-05 **CE-ICP-MS as a Tool for Investigation of the Changes of Gold Nanoparticles in Human Cytosol**

Joanna Legat[1], Magdalena Matczuk[1], Andrei Timerbaev[2], Maciej Jarosz[1]

[1]Chair of Analytical Chemistry, Faculty of Chemistry, Warsaw University of Technology, Poland, [2]Vernadsky Institute of Geochemistry and Analytical Chemistry, Poland

PS-11-07 **Comparison of UHPLC-HRMS and UHPLC-MS/MS approaches for the determination of the flavonoids and isoflavonoids**

Lucia Chrenková[1], Hana Kočová Vlčková[2], Veronika Pilařová[2], Jakub Pavlík[2], Lenka Applová[3], Iveta Najmanová[3], Přemysl Mladěnka[4], Lucie Nováková[2]

[1]Charles University, Faculty of Pharmacy in Hradec Králové, Czech Republic, [2]Department of Analytical Chemistry, Faculty of Pharmacy in Hradec Králové, Charles University, Czech Republic, [3]Department of Pharmacology and Toxicology, Faculty of Pharmacy in Hradec Králové, Charles University, Czech Republic, [4]Department of Biological and Medical Sciences, Faculty of Pharmacy in Hradec Králové, Charles University, Czech Republic

PS-11-09 **How the chromatography solves the ultra-trace quantification of chlordecone and some of its degradation products in epidemiology, toxicity and soil remediation contexts?**

Emmanuelle Bichon[1], Ingrid Guiffard[2], Philippe Marchand[2], Christophe Mouvet[3], Bruno Le Bizec[2]

[1]LABERCA - Oniris - INRA -UBL, France, [2]LABERCA - UMR 1329 – Oniris, France, [3]BRGM/, Direction Eau, Environnement, Ecotechnologies, France

PS-11-11 **Evaluation of DART-MS for Quantification of Organic Acids in urine samples**

Myriam Bonose[1], Maxime Bridoux[2], Naira Perez Vasquez[1], Diane Doummar[3], Remy Couderc[3], Fathi Moussa[1],

[1]Lip(Sys)2, LETIAM, Univ. Paris Sud, Université Paris-Saclay, France, [2]CEA, DAM, DIF, France, [3]Services de Neuro-Pédiatrie et de Biochimie, Hospital Group A. Trousseau-La Roche-Guyon, APHP, France

PS-11-13 **Assessment of Structural Heterogeneity of Intact Isoforms of Follicular Stimulating Hormone Using Nano-Liquid Chromatography Coupled to High Resolution Mass Spectrometry**

Amira Al Matari[1], Julien Camperi[2], Nicolas Eskenazi[3], Audrey Combès[4], Jean Guibourdenche[5], Thierry Fournier[6], Joëlle Vinh[7], Valérie Pichon[8], Nathalie Delaunay[8]

[1]ESPCI Paris, France, [2]Department of Analytical, Bioanalytical Sciences, and Miniaturization, UMR CBI 8231 CNRS - ESPCI Paris, PSL University, France, [3]Laboratory of Biological and Proteomic Mass Spectrometry, USR 3149 CNRS - ESPCI Paris, PSL University, France, [4]Department of Analytical, Bioanalytical Sciences, and Miniaturization, UMR CBI 8231 CNRS - ESPCI Paris, PSL University, France, [5]Laboratory of PhysioPathology and PharmacoToxicology of the Human Placenta, UMR-S 1139 – Inserm - University Paris Descartes, Sorbonne Paris Cité, France- Laboratory of hormonology, CHU Cochin AP-HP, France, [6]Laboratory of PhysioPathology and PharmacoToxicology of the Human Placenta, UMR-S 1139 –Inserm - University Paris Descartes, Sorbonne Paris Cité, France, [7]Laboratory of Biological and Proteomic Mass Spectrometry, USR 3149 CNRS - ESPCI Paris, PSL University, Paris France, [8]Department of Analytical, Bioanalytical Sciences, and Miniaturization, UMR CBI 8231 CNRS - ESPCI Paris, PSL University, France

PS-11-15 **Growth Hormone: Chromatographic Separations Coupled with Mass Spectrometry Towards A Novel Method For Anti-Doping Tests**

Hala Dadi

Université Paris-Sud, France

PS-11-17 **Peptidomic strategy for purification and identification of new potential ACE-inhibitory and antioxidant peptides in Tetradesmus obliquus microalgae**

Giorgia La Barbera, Anna Laura Capriotti, Chiara Cavaliere, Carmela Maria Montone, Susy Piovesana, Riccardo Zenezini Chiozzi, Michela Antonelli, Aldo Laganà

University of Rome La Sapienza, Italy

PS-11-19 **Liquid Chromatography – High – Resolution Mass Spectrometry of Polydisperse Surfactants used in Oil Industry**

Alizee Dufour[1], Didier Thiebaut[2], Matthieu Loriau[3], Jerome Vial[2]

[1]Société des Amis de l'ESPCI, France, [2]Department of Analytical, Bioanalytical Sciences, and Miniaturization (LSABM), UMR CBI 8231 CNRS - ESPCI Paris, PSL Research University, France, [3]Total Exploration & Production, Lacq Research Center (PERL), France

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PS-11 / Mass Spectrometry Hyphenation and Applications (even numbers)

PS-11-02 **Comparison of natural and artificial aging kinetics of ballpoint pen ink strokes using liquid chromatography mass-spectrometry**

Dilara Baygildieva, Timur Baygildiev, Irina Ananieva, Oleg Shpigun, Igor Rodin

Lomonosov Moscow State University, Russia

PS-11-04 **An online of four-dimensional SECxSEC-IMxMS methodology for in-depth characterization of forced degraded monoclonal antibodies**

Anthony Ehkirch[1], Alexandre Goyon[2], Oscar Hernandez-Alba[1], Valentina D'Atri[2], Florent Rouviere[3], Olivier Colas[5], Alain Beck[4], Sabine Heinisch[3], Davy Guillarme[2], Sarah Cianferani[3]

[1]Laboratoire de Spectrométrie de Masse BioOrganique, Université de Strasbourg, France, [2]School of Pharmaceutical Sciences, University of Geneva, University of Lausanne, Switzerland, [3]Université de Lyon, Institut des Sciences Analytiques, France, [4]IRPF - Centre d'Immunologie Pierre-Fabre (CIPF), France

PS-11-06 **Determination of Free Polyphenols in Buckwheat using HPLC/MS/MS**

Kateřina Pravcová, Lenka Česlová

University of Pardubice, Czech Republic

PS-11-08 **Has Ion Chromatography-Mass Spectrometry Arrived?**

Jeffrey S Rohrer

Thermo Fisher Scientific, United States of America

PS-11-10 **Application of Py-GCxGC/MS for the identification of Asian lacquer samples**
Michel Sablier[1], Shun Okamoto[2], Takayuki Honda[2], Tetsuo Miyakoshi[2], Han Bin[1]
[1]Centre de Recherche sur la Conservation, CNRS USR 3224, Muséum National d'Histoire Naturelle, Ministère de la Culture et de la Communication, France, [2]Department of Applied Chemistry, School of Science and Technology, Meiji University, Japan

PS-11-12 **Capillary-HPLC Coupled to Tandem Mass Spectrometry in Analysis of Alkaloid Dyestuffs**
Damian Dąbrowski, Katarzyna Lech, Maciej Jarosz
Faculty of Chemistry, Chair of Analytical Chemistry, Warsaw University of Technology, Poland

PS-11-14 **Development of LC-MS methods for monitoring of VPHP-degraded organic dyes**
Milos Mikoska, Aram Zolal, Lukas Filip, Kamila Syslova
UCT Prague, Czech Republic

PS-11-16 **Diastereomer separation of DI-Amino acids derivatized with (+)-flec by Trapped Ion Mobility Spectrometry**
Raquel Pérez Míguez[1], Elena Domínguez-Vega[2], María Castro-Puyana[3], María Luisa Marina[3], Govert W. Somsen[4]
[1]Departamento de Química Analítica, Química Física e Ingeniería Química, Universidad de Alcalá, Spain. [2]Division of BioAnalytical Chemistry, AIMMS research group BioMolecular Analysis, Faculty of Science, Vrije Universiteit, The Netherlands, [3]Departamento de Química Analítica, Química Física e Ingeniería Química, Universidad de Alcalá, Spain, Instituto de Investigación Química Andrés M. del Río (IQAR), Universidad de Alcalá, Spain, [4]Division of BioAnalytical Chemistry, AIMMS research group BioMolecular Analysis, Spain

PS-11-18 **Structural identification of impurities in the synthesis process of drug development using an impurity profiling system (2D-LC-IT-TO) in nonvolatile buffer conditions.**
Takahiro Takeuchi
Teijin Pharma Limited, Japan

PS-11-20 **Getting Hair Done: Analyzing Drugs of Abuse in a Complex Matrix**
Garlet Benoit, Frederic Thiebaut, Laura Snow, Seyed Sadjadi, Shahana Huq, Sean Orlowicz
Phenomenex, France

PS-12 / Foods, Natural Products, Health, Security (odd numbers)

PS-12-01 **Determination of Polypeptide Antibiotic Residues in Food of Animal Origin Samples by Liquid Chromatography-Tandem Mass Spectrometr**
Tomasz Bladek, Andrzej Posyniak
National Veterinary Research Institute (PIWet), Poland

PS-12-03 **Analysis of Volatiles of Syringa Vulgaris Grown in LithuaniaUsing SPME-GC/MS**
Vilma Kaškonienė, Rūta Mickienė, Audrius Maruška
Vytautas Magnus University, Lithuania

PS-12-05 **Reliable speciation of fatty acid methyl esters by flow-modulated GC×GC–TOF MS/FID with Tandem Ionisation**
Laura McGregor, Aaron Parker, Rebecca Preston, Bob Green
SepSolve Analytical, United Kingdom

PS-12-07 **Chemical Differentiation of Two Species of Sinapis Semen by High-Performance Liquid Chromatography**
Siu-Po Ip[1], Zhen Hu[2]
[1]School of Chinese Medicine, [2]The Chinese University of Hong Kong, China

PS-12-09 **Control of Disinfection By-Products in Canned Vegetables Caused by Water Used in Their Processing**
Mercedes Gallego, María-José Cardador
University of Córdoba, Spain

PS-12-11 **Regional Study of Georgian Propolis Chemical Content by LC-MS/MS Method**
Luiza Kunchulia[1], Tamaz Murtazashvili[1], Malkhaz Jokhadze[2], Paata Tushurashvili[2], Nino Imnadze[1], Naili Shengelidze[1], Koba Sivsivadze[1], Tamar Chikviladze[1]
[1]Tbilisi State Medical University, Georgia, [2]Levan Samkharauli National Forensic Bureau, Tbilisi, Georgia

PS-12-13 **Multiresidue Method for the Determination of Nitroimidazoles, Sulfonamides and Trimethoprim in Beeswax by LC-MS/MS**
Kamila Mitrowska, Maja Antczak
National Veterinary Research Institute (PIWet), Poland

PS-12-15 **Identification of short-chain poly-3-hydroxybutyrates in Saiga horn extracts**
Statis Pataridis[1], Oleg Romanov[2], Ivan Miksik[1]
[1]Institute of Physiology of the Czech Academy of Sciences, Czech Republic, [2]Kalmykian State University, Elista, Czech Republic

PS-12-17 **Analysis of total plant extracts by tandem Mass Spectrometry (MS / MS): search for compounds by spectral similarity using databases**
Mamadou Baldé[1], Ludivne Riffault-Valois[2], Diane Julien-David[2], Sonia Lordel-Madeleine[2], Alassane Wélé[3], Eric Marchioni[2]
[1]Strasbourg University/Cheikh Anta Diop University of Dakar, France/Senegal, [2]Strasbourg University, France, [3]Cheikh Anta Diop University of Dakar, Senegal

PS-12-19 **De Novo Identification of peptides with antitumor and hypotensive activity from an olive by-product by RP-HPLC- and HILIC-ESI-Q-TOF (MS/MS)**
Romy Vásquez-Villanueva[1], Laura Muñoz-Moreno[2], María José Carmena[2], María Luisa Marina[3], María Concepción García[3]
[1]University of Alcalá, Spain, [2]Departamento de Biología de Sistemas, Universidad de Alcalá, Spain, [3] Departamento de Química Analítica, Química Física e Ingeniería Química, Universidad de Alcalá; Instituto de Investigación Química Andrés M. del Río, Spain

PS-12-21 **Innovative Screening Approaches for the Determination of Non-Intentionally Added Substances in Food Contact Materials**
Chrysoula Kanakaki[1], Veronica Osorio Piniella[1], Nicole Steiner-Reischütz[1], Michael Pyerin[1], Brigitte Jaksa[2], Erich Leitner[2]
[1]OFI, Austria, [2]Graz University of Technology, Austria

PS-12-23 **The chemical and pharmacological evaluation of the sulphide silt peloids of some Adjara region lakes**
Tamar Masiukovich[1], Tamaz Murtazashvili[1], Aliosha Bakuridze[2], Malkhaz Jokhadze[3], Marina Goderdzishvili[4], Sophio Rigvava[4], Karen Mulkijanyan[5]
[1]Tbilisi State Medical University, Department of Pharmaceutical and Toxicological Chemistry, Georgia, [2]Tbilisi State Medical University, Department of Pharmaceutical Technology, Georgia, [3]LEPL Levan Samkharauli National Forensics Bureau, Georgia, [4]G. Eliava Institute of Bacteriophages, Microbiology and Virology, Georgia, [5]I. Kutateladze Institute of Pharmacochemistry, Georgia

PS-12-25 **Detection and Identification of Acetylcholinesterase Inhibitors Compounds in Annona cherimola Mill. by HPTLC-Bioassay Methodology Coupled To Mass Spectrometry**
Mario Aranda, Oscar Galarce, Karem Henriquez
University of Concepcion, Chile

PS-12-27 **Development of a new HPLC-ESI-MS/MS method for trace analysis of non-psychoactive cannabinoids in apiary products**
Virginia Brighenti[1], Federica Pellati[2], Tatiana Pedrazzi[2], Davide Bertelli[2], Stefania Benvenuti[2]
[1]Department of Life Sciences, University of Modena and Reggio Emilia, Italy, [2]University of Modena and Reggio Emilia, Italy

PS-12-29 Development Of An Efficient Method For Characterization Of Volatile Organic Compounds (VOCs) Involved In The Yellow Disea

Emilie Stierlin, Xavier Fernandez, Thomas Michel
Université Côte d'Azur, Institut de Chimie de Nice, France

PS-12-31 HPLC analysis of melamin and related substances in fertilizers,

Gesa Schad[1], Yuji Shirai[2], Azusa Morita[3]
[1]Shimadzu Europa GmbH, [2]Food and Agricultural Materials Inspection Center, Saitama, [3]Shimadzu Corporation, Hadano, Germany

PS-12-33 Identification of Ricin by Immunocapture Extraction and LC-MS/MS or LC-MS/HRMS Analysis

Andréa Gordien, Julien Enche, Charlotte Desoubries, Cindy Dubois, Cécile Montauban, Clotilde Favino, Christophe Giral, Valérie Morineaux-Hilaire, Anne Bossée
DGA MNRBC, France

PS-12-35 Impact Assessment of House Energy Efficiency Works over the Concentration of Formaldehyde and Other Carbonyl Compounds in Five Cities from Romania

Mihail Simion Beldean-Galea, Alexandra Cucoş, Denisa Burghele, Ancuţa Ţenter, Kinga Szacsvai, Botond Papp, Mircea Moldovan, Tiberius Dicu, Vlad Pănescu
Babes-Bolyai University, Romania

PS-12-37 Accelerated Solvent Extraction of H-2 and HT-2 Toxins in Oat Grains for LC Analysis

Josep Esteve-Romero[1], José Vicente Gómez[2], Andrea Tarazona[2], Juan Peris Vicente[3], José Vicente Gimeno Adelantado[3], Jaume Albiol Chiva[1], Samuel Carda Broch[1], Misericordia Jiménez[2], Eva Mateo[5]
[1]Química Bioanalítica, QFA, ESTCE, Universitat Jaume I, Spain, [2]Department of Microbiology and Ecology, University of Valencia, Spain, [3]Department of Analytical Chemistry, University of Valencia, Spain, [5]Institute for Research INCLIVA, Microbiology Service, Spain

PS-12-39 Study of Biologically Active Compounds in Georgian Grapevine Canes

Natia Bokuchava[1], Tamaz Murtazashvili[1], Malkhaz Jokhadze[2], Paata Tushurashvili[2], Koba Sivsivadze[1], Mariam Tatanashvili[1]
[1]Tbilisi State Medical University, Georgia, [2]Levan Samkharauli National Forensics Bureau, Georgia

PS-12-41 Programmed temperature vaporizing (PTV): a versatile solution for a non-discrimination of vacuum gas oil

Marco Piparo[1], Pascal Cardinael[1], Pierre Giusti[2], Gaelle Jousset[2]
[1]Sciences et Methodes Separatives - Normandie University, France, [2]TOTAL, France

PS-12-43 Extraction and Purification of High-Value Metabolites from Betula glandulosa

Claudia Carpentier[1], Jean-Luc Wolfender[2], Daniel Grenier[3], François Béland[4], Normand Voyer[3]
[1]Université Laval and SiliCycle, Canada, [2]Université de Genève, Switzerland, [3]Université Laval, Canada, [4]SiliCycle, Canada

PS-12-45 Simultaneous determination of 100 pesticides residues in food matrices using the QuEchERS Methodology

Saida Belarbi[1], Martin Vivier[2], Wafa Zagouani[2], Pascal Cardinael[3], Valerie Agasse[3]
[1]Normandie Université, France, [2]SGS, France, [3]Université de Rouen, France

PS-12-47 Development and Validation of a Novel LC-HRMS Method to Detect the Genotoxic Impurity 1-Ethyl-(3,3-dimethyl aminopropyl) Urea (EDU)

Ricardo Goncalves, Marco Galésio
Hovione FarmaCiência, Portugal

PS-12-49 **Characterization of Klason Lignin Samples Isolated from Beech and Aspen Using Microbore Column Size-Exclusion Chromatography,**
Robert Gora, Erik Beno, Milan Hutta
Department of Analytical Chemistry, Faculty of Natural Sciences, Comenius University, Slovakia

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PS-12 / Foods, Natural Products, Health, Security (even numbers)

PS-12-02 **Analysis of Arsenic and Chromium Species in Food and Food Packaging Using LC-ICPMS**
Uwe Oppermann[1], Ludivine Fromentoux[1], Jan Knoop[1], Marcin Frankowski[2]
[1]Shimadzu Europa GmbH, Germany, [2]Faculty of Chemistry, Adam Mickiewicz University, Poland

PS-12-04 **Latin Square design for optimization of extraction parameters for isolation of steroidal glycosides from Dioscorea deltoidea Wall cell suspension culture**
Irina Ananyeva, Boris Sarvin, Elizaveta Fedorova, Igor Rodin, Andrey Stavrianidi, Oleg Shpigun
Lomonosov Moscow State University, Chemistry Department, Russia

PS-12-06 **Achieving Fast, Efficient Separations in environmental applications using Superficially Porous Particle Column Technology**
Ty Kahler, Becky Wittrig, Olivier Griffaton, Mike Chang
Restek Corporation, United States of America

PS-12-08 **Procedure for the Determination of Malachite Green, Crystal Violet and Their Leuco Metabolites in Fish Feed by Isotope Dilution Liquid Chromatography Tandem Mass Spectrometry**
Kamila Mitrowska, Andrzej Posyniak
National Veterinary Research Institute (PIWet), Poland

PS-12-10 **Origin of Low-Molecular Mass Aldehydes as Disinfection By-Products in Beverages**
Manuel Silva, Maria Serrano
University of Cordoba, Spain

PS-12-12 **Screening method for determination of polyphosphates in fish, dairy and meat products using ion-chromatography with conductimetry detector**
Francesca Longo, Francesca Longo, Rocco Baccelliere, Rossana Claudia Bonanni, Laura Spinaci, Daniele Colangelo, Bruno Neri
Istituto Zooprofilattico Lazio e Toscana» M. Aleandri», Italy

PS-12-14 **HPLC-ECD and Chemometric Analysis of Bee Products and Evaluation of Their Biological Activity**
Vilma Kaškonienė[1], Paulius Kaškonas[2], Augustinas Šarkinas[1], Greta Jestremskaitė[1], Audrius Maruška[1]
[1]Vytautas Magnus University, Lithuania,[2]Institute of Metrology, Kaunas University of Technology

PS-12-16 **Pungency level determination of chili products with HPLC**
Philipp Jochems, Robert Ludwig, Uwe Oppermann
Shimadzu Europa GmbH, Germany

PS-12-18 **Influence of Decaffeination of Coffee on Chlorogenic Acids Content**
Lenka Ceslova, Barbora Řeháková, Kateřina Pravcová
University of Pardubice, Czech Republic

PS-12-20 **Development and Validation of a Method for the Determination of Malachite Green, Crystal Violet and Their Leuco Forms in Water by Isotope Dilution LC-MS/MS**
Kamila Mitrowska, Angelika Tkaczyk, Andrzej Posyniak
National Veterinary Research Institute (PIWet), Poland

PS-12-22 **LC/DAD Method for Simultaneous Determination of Cannabinoids and Terpenes**

Ivana Cvetkovikj Karanfilova, Gjoshe Stefkov, Katerina Brezovska, Jelena Acevska, Marija Karapandzova, Natalija Nakov, Liljana Ugrinova, Aneta Dimitrovska, Svetlana Kulevanova
Ss. Cyril and Methodius University, Faculty of Pharmacy, Macedonia

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Katarína Hroboňová, Eva Brokešová
Slovak University of Technology in Bratislava, Faculty of Chemical and Food Technology, Institute of Analytical Chemistry, Slovakia

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Mélissa Chami[1], Thomas Michel[2], Elodie Bouju[3], Francis Hadji Minaglou[1], Xavier Fernandez[2]
[1]Botanicert, France, [2]Institut de Chimie de Nice, France, [3]Extrasynthese, France

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Pierre Bernard-Savary[1], Salvador Cañigueral[2], Débora Frommenwiler[3], Eike Reich[3]
[1]Chromacim Camag, France, [2]University of Barcelona, Department of Pharmacology and Therapeutic Chemistry, Spain, [3]Camag, France

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Mario Aranda[1], Jessy Pavon-Perez[1], Karem Henriquez-Aedo[1], Miguel Herrero[2]
[1]University of Concepcion, Chile, [2]Institute of Food Science Research (CIAL), Chile

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Tereza Bosakova[1], Zuzana Adamova[2], Zuzana Hampejsova[3], Katerina Dvorakova-Hortova[4]
[1]Charles University, Faculty of Science, Department of Analytical Chemistry, Czech Republic, [2]Charles University, Faculty of Zoology, Czech Republic, [3]Charles University, Czech Republic, [4]Institute of Biotechnology CAS, BIOCEV, Group of Reproductive Biology, Czech Republic

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Tiwtawat Napiroon, PhD[1], Henrik Balslev[2], Markus Bacher[3], Kongkanda Chayamarit[1], Wichai Santimaleeworagun[4], Srunya Vajrodaya[5]
[1]The Forest Herbarium (BKF), Department of National Parks Wildlife and Plant Conservation, Thailand, [2]Department of Bioscience, Faculty of Science and Technology, Aarhus University, Denmark, [3]Division of Chemistry of Renewables, University of Natural Resources and Life Sciences (BOKU), Austria, [4]Department of Pharmacy, Faculty of Pharmacy, Silpakorn University, Thailand, [5]Department of Botany, Faculty of Science, Kasetsart University, Thailand

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Laura Tedone[1], Lada Staskova[2], Dandan Yan[1], Simon P.Whittock[3], Robert A. Shellie[4], Anthony Koutoulis[5]
[1]Australian Centre for Research on Separation Science, University of Tasmania, Australia, [2]School of Science, RMIT University, Australia, [3]Hop Products Australia, [4]Trajan Scientific and Medical, [5]School of Natural Sciences, University of Tasmania, Australia

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[1]Bioanalytical Chemistry, QFA, ESTCE, Universitat Jaume I, Spain, [2]Department of Analytical Chemistry, University of Valencia, Spain, [3]Criminology and Forensic Science, Dr. Harisingh Gour Vishwavidyalaya, India, [4]Chemistry, Dr. Harisingh Gour Vishwavidyalaya, India, [5]Medical Officer, Dr. Harisingh Gour Vishwavidyalaya, India, [6]Bioquímica Clínica, Hospital General Universitari, Spain, [7]Institute for Research INCLIVA, Microbiology Service, Spain

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Scott Krepich[1], Matthew Trass[1], Allen Misa[1], Laura Snow[1], Ramkumar Dhandapani[1], Montserrat Ferrer[2], Benoit Garlet[1]
[1]Phenomenex, United States of America, [2]Phenomenex Helvetia, Switzerland

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Gwenaelle Lavison Bompard[1], A. C. Dirtu[2], C. Inthavong[2], A. Ducrocq[2]
[1]Agence nationale de sécurité sanitaire de l'alimentation, de l'environnement et du travail (Anses), France, [2]Université Paris-Est, Anses, Laboratoire de sécurité des aliments, France

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Jaehee Hyun, Soyoung Won, Woojin Cho, Inseon Kim, Jaehee Hyun, Kyeongwook Kim, Jaei Kim, Dongsul Kim, Wooseong Kim
Center for Food & Drug Analysis, Busan Regional Korea Food and Drug Safety, South Korea

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Katerina Plachka, Frantisek Svec, Lucie Novakova
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[1]Tbilisi State Medical University, Georgia, [2]Levan Samkharauli National Forensic Bureau, Georgia, [3]Bio-Rational Technologies Research Center (BrTRC), Georgia

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[1]L'OREAL Recherche & Innovation, France, [2]ESPCI Paris, PSL Research University, France

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Univerzita Karlova v Praze, Farmaceuticka fakulta v Hradci Kralove, Czech Republic

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[1]YMC Europe GmbH, Germany, [2]YMC Co., Ltd., Japan

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[1]Bioanalytical Chemistry, QFA, ESTCE, Universitat Jaume I, Spain, [2]Department of Analytical Chemistry, University of Valencia, Spain, [3]Bioquímica Clínica, Hospital General Universitari, Castelló, [4]Facultat Ciencias Químicas y Tecnología, Universidad Católica de Cuyo, Spain, [5]Hospital Descentralizado Dr. Guillermo Rawson, Spain, [6]Criminology and Forensic Science, Dr. Harisingh Gour Vishwavidyalaya, India, [7]Institute for Research INCLIVA, Microbiology Service, Spain

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[1]Department of «Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali» University of Messina, Italy, [2]Chromaleont s.r.l., c/o Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali", University of Messina, Italy

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Tim Cross[1], Sylvia Grosse[2], Mauro De Pra[2], Markus Martin[2], Frank Steiner[2]
[1]Thermo Fisher Scientific, United Kingdom, [2]Thermo Fisher Germering, Germany

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[1]University of Geneva, [2]Geneva University Hospitals, Switzerland

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[1]Pierre Fabre Dermo-Cosmétique, France, [2]Laboratoire de Chimie Agro-Industrielle, **France**

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[1]Charles University, Faculty of Science, Department of Analytical Chemistry, Czech Republic, [2]Czech Academy of Sciences, Institute of Macromolecular Chemistry, Department of Polymer Networks and Gels, Czech Republic

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[1]Química Bioanalítica, QFA, ESTCE, Universitat Jaume I, Spain, [2]Department of Analytical Chemistry, University of Valencia, Spain, [3]Department of Microbiology and Ecology, University of Valencia, Spain, [4]Institute for Research INCLIVA, Microbiology Service, Spain

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[1]Gedeon Richter Plc., Hungary, [2]School of Pharmaceutical Sciences, University of Geneva, Switzerland

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Health Canada, Canada

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[1]University Koblenz-Landau, Germany, [2]SAS Hagmann GmbH, [3]University Koblenz - Landau, Germany

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Institute of Pharmaceutical Sciences, Pharmaceutical (Bio-)Analysis, University of Tübingen, Germany

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Zélie Triaux[1], Hugues Petitjean[2], Eric Marchioni[1], Damien Steyer[4], Christophe Marcic[3]
[1]Université de Strasbourg - UMR 7178 - Equipe CAMBAP / Benephyt, France, [2]Benephyt, France, [3]Université de Strasbourg - UMR 7178 - Equipe CAMBAP, France, [4]Twistaroma, France

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[1]Department of Analytical, Bioanalytical Sciences, and Miniaturization, PSL University, France, [2]Laboratory of Biological Mass Spectrometry and Proteomics, PSL University, France, [3]Laboratory of PhysioPathology and PharmacoToxicology of the Human Placenta, University Paris Descartes, France

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[1]Semmelweis University Doctoral School, Hungary, [2]Institute of Chemistry, Department of Analytical Chemistry, Eötvös Loránd University, Hungary

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[1]University of Pardubice, Czech Republic, [2]University of Defence, Czech Republic

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University of Valencia, Spain

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University of Valencia, Analytical Chemistry Department, Spain

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[1]University of Valencia, Spain, [3]University of Coruña, Spain

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[1]University of Sao Paulo, Brazil, [2]University of São Paulo, Escola de Artes, Ciências e Humanidades, Brazil, [3]University of São Paulo, Instituto de Química de São Carlos, Brazil

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Katinka Ruth, Andrea Wille, Christian Emmenegger
Metrohm International Headquarters, Switzerland

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María Gómez Lueso, Mathieu Schaller, Maya I. Mitova, Michel Rotach, Catherine Goujon
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Raphaël Delépée[1], Simon Rodier[2], Stéphanie Lagadu[3], Jean Marc Guilloit[4], Agnès Palix[5], Guillaume Saint-Lorant[6]

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Łukasz Nuckowski, Sylwia Studzińska, Anna Kaczmarkiewicz, Bogusław Buszewski

Chair of Environmental Chemistry and Bioanalytics, Faculty of Chemistry, Nicolaus Copernicus University in Toruń, Poland

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Giorgia La Barbera, Anna Laura Capriotti, Carmela Maria Montone

University of Rome La Sapienza, Italy

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Noemi Dorival[1], Fabrizio Galbiati[2], Ralf Kruell[2], Roman Kovasy[3], Kyle D'Silva[3], Jonathan Bones[1]

[1]NIBRT, Ireland, [2]Thermo Fisher Scientific, Switzerland

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Scott Krepich[1], Syljohn Estil[2], Agustin Pierri[3], Ramkumar Dhandapani[1], Montserrat Ferrer[4], Benoit Garlet[1]

[1]Phenomenex, United States of America, [2]Sanitation Districts of Los Angeles County-San Jose Creek Water Quality Laboratory, United States of America, [3]Weck Laboratories, United States of America, [4]Phenomenex Helvetia, Switzerland

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Frederic Zenhausern[1], Alexandra Taraboletti[2], Albert J. Fornace[2]

[1]Center for Applied Nanobioscience and Medicine, University of Arizona, United States of America, [2]Waters Center of Innovation for Metabolomics, Georgetown University, United States of America

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[1]University of Valencia, Spain, [2]IcMOL-UV, Spain

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[1]Agilent Technologies, Germany, [2]SGS INSTITUT FRESENIUS GmbH, Germany

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University of Valencia, Spain

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Mariusz Belka, Szymon Ulenberg, Lucyna Konieczna, Magdalena Okońska, Magdalena Pyszka, Tomasz Bączek
Faculty of Pharmacy with Subfaculty of Laboratory Medicine, Medical University of Gdańsk, Poland

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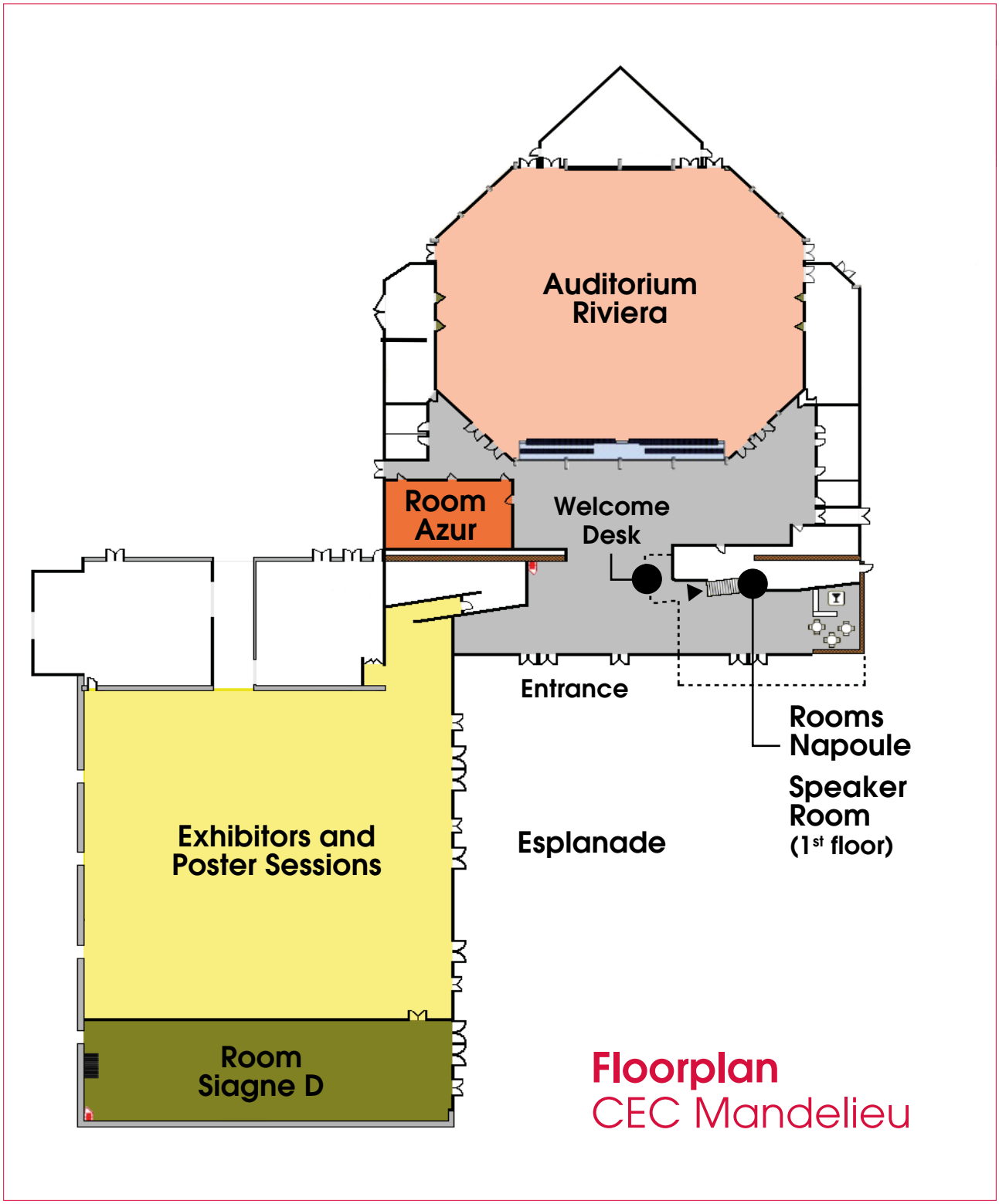

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