

HPLC 2025 BRUGES BRUGES BELGIUM June 15-19, 2025 hplc2025-bruges.org

54th International Symposium on High Performance Liquid Phase Separations & Related Techniques

The Bruges Meeting & Convention Centre (BMCC)



FINAL PROGRAM

Contact: **Symporg SA**, Rue Rousseau 30, 1201 Geneva / Switzerland contact@hplc2025-bruges.org

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CONTENTS

Mobile Application	4
Welcome From the Chairs	5
Sponsors	6
Supporters / Media Partners	7
Committees of HPLC 2025 Bruges	8
History of HPLC Conferences Series and Future Meetings	
Social Events	13
Opening Ceremony	13
Conference Dinner	13
Pre-Dinner Cocktail	13
Farewell Drink	13
Chromatography's Got Talent	14
Debate session "Quo Vadis HPLC in industry"	15
Competitions	16
Csaba Horváth Young Scientist Award	16
Poster Awards	18
HPLC Tube	19
Science Slam	
Exhibition Most Valuable Participant (MVP)	
Awards	21
Chromatographic Society Martin Medal / Chromatographic Society Jubilee Medal	21
J. F. K. Huber Lecture Award	
Uwe D. Neue Award in Separation Science	
General Information A-Z	
Exhibitors Floor Plan	
Conference Centre Floor Plan	
Career Accelerator Programme	
Program at a Glance	
Short Courses	
Vendor Seminars	
Scientific Sessions	51
Poster Sessions	

MOBILE APPLICATION

Download the Conference Mobile Application For free on the Apple Store and Play Store

iOs:



Android:



Event Code hplc2025

Login Details

Your user name and passwords have been sent by email to your address used for the HPLC 2025 registration. You can ask the staff at the registration desk for any help regarding the app.



WELCOME FROM THE CHAIRS

Dear HPLC delegate,

It is a great pleasure to welcome you to the HPLC 2025 Bruges. Having the great honour to chair the 54th edition of this prestigious symposium series, we are proud to offer you a scientific program featuring 227 outstanding oral presentations (including 5 plenaries and 40 young scientist short orals) given by a panoply of leading experts and emerging talents in analytical separation science.

The scientific program basically runs in 3 parallel streams, with a 4th stream added on Wednesday and Thursday to give 40 emerging young scientists a chance to earn an oral presentation credit while simultaneously competing for the Best Poster Pitch Award. The latter is complimentary to the regular Best Poster Competition, which will be held during two Poster & Exhibition fests on Monday and Tuesday afternoon, culminating in the top 20-final on Wednesday noon.

Packed with over 45 exhibitors showcasing their newest products, we're confident the exhibition and catering hall will serve as the vibrant heart of the conference. Also because we are stimulating interactions between vendors and delegates via our €500 Exhibition MVP (Most Valuable Participant) award. And to further acquaint yourself with the latest technological innovations for enhancing your analysis or upgrading your lab, we also gladly offer you a selection of 14 vendor seminars, held from Monday to Wednesday immediately following lunch breaks.

Another not-to-miss event will be HPLC's proper "Chromatography 's Got Talent" show held right after Monday's lectures, wherein you will decide on the winners of the Science Slam and HPLC Tube competitions while simultaneously participating in the first edition of the "Who Wants to Be a Chromatography Millionaire?" audience quiz.

Please also don't miss the "Quo Vadis HPLC in Industry" debate on Tuesday evening. Based on your own input (collected via the ideation board at the exhibition entrance), this promises to be very vivid and insightful. And yet another event we're glad to host is the first edition of an Education in Separation Science workshop (Wednesday morning) where you can share teaching experiences with your colleagues and get new inspiration for your lectures.

Other satellite event we would like to promote are the Career Accelerator Program (incl. a workshop, testimonial panel and job fair), Simone Dimartino's Innovation Hub and the Icebreaker Corner in the lounge area, the place to go to connect with new people.

And of course, we also hope that, after the program, you will be able to take the opportunity to enjoy the beautiful city of Bruges and its many historic sites and savour Belgium's lavish food and drink culture.

Have a great conference!







Gert Sebastiaan Desmet Eeltiink Ken Broeckhoven



Frederic Lynen



Deirdre Cabooter



Pat Sandra

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^{he} Analytical Scientist

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*member of the HPLC Permanent Scientific Committee (PSC)

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Fillet, Marianne Purcaro, Giorgia Mangelings, Debby Focant, Jeff Desmet, Gert Lynen, Frederic Eeltink, Sebastiaan Cabooter, Deirdre Broeckhoven, Ken

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HISTOY OF THE HPLC CONFERENCES AND FUTURE MEETINGS

Since its first edition in 1973 in Interlaken, Switzerland, the HPLC Symposium Series has established itself as the world's most important conference series in separation sciences. The conference provides an international forum for the discussion of advances in the field of liquid phase and related technologies; it has a strong methodological and technological focus. The topics of these conferences comprises fundamentals of separation science, especially liquid chromatography (HPLC, UHPLC) and supercritical fluid chromatography, their coupling with mass spectrometry, multidimensional separations, sample preparation and their applications in various fields. In addition, capillary separations, microfluidic, nanofluidic and chip separations, diagnostic systems and other leading technologies are also discussed. The meetings are held alternately in Europe (odd years) and the United States (even years). Since 2008 an additional meeting has been organized in Asia/Pacific.

Year	No.	Location	Chair(s)
1973	1 st	Interlaken, Switzerland	Willy Simon
1975	2 nd	Wilmington, USA	Jack J. Kirkland
1977	3 rd	Salzburg, Austria	Joseph F.K. Huber
1979	4 th	Boston, USA	Barry L. Karger
1981	5^{th}	Avignon, France	Georges Guiochon
1982	6 th	Cherry Hill, USA	Robert Bardford
1983	7 th	Baden-Baden, Germany	Klaus Peter Hupe
1984	8 th	New York City, USA	Csaba Horvath
1985	9 th	Edinburgh, UK	John H. Knox
1986	10 th	San Francisco, USA	Ronald E. Majors
1987	11 th	Amsterdam, The Netherlands	Hans Poppe
1988	12 th	Washington, USA	Georges Guiochon
1989	13 th	Stockholm, Sweden	Douglas Westerlund
1990	14 th	Boston, USA	Barry L. Karger
1991	15 th	Basel, Switzerland	Fritz Erni
1992	16 th	Baltimore, USA	Fred E. Regnier
1993	17 th	Hamburg, Germany	Klaus K. Unger
1994	18 th	Minneapolis, USA	Larry D. Bowers and Peter W. Carr
1995	19 th	Innsbruck, Austria	Wolfgang Lindner
1996	20 th	San Francisco, USA	William S. Hancock
1997	21 st	irmingham, UK	Anthony F. Fell
1998	22 nd	St. Louis, USA	Daniel W. Armstrong
1999	23 rd	Granada, Spain	Emilio Gelpi

2000	24 th	Seattle USA	Edward S Yeung
2001	25 th	Maastricht. The Netherlands	Hans Poppe and Henk Lingeman
2001	-	Kvoto. Japan	Nobuo Tanaka and Shigeru Terabe
2002	26 th	Montreal. Canada	Irving W. Wainer
2003	27 th	Nice. France	Antoine M. Siouffi
2004	28 th	Philadelphia. USA	Mark R. Schure
2005	29 th	Stockholm. Sweden	Douglas Westerlund
2006	30 th	San Francisco, USA	John H. Frenz
2007	31 st	Gent, Belgium	Jacques Crommen and Pat Sandra
2008	32 nd	Baltimore, USA	Georges Guiochon and Steven Jacobson
2008	33 rd	Kyoto, Japan	Koji Otsuka and Nobuo Tanaka
2009	34 th	Desden, Germany	Christian Huber
2010	35 th	Boston, USA	Steven A. Cohen
2011	36 th	Budapest, Hungary	Attila Felinger
2011	37 th	Dalian, China	Yukui Zhang and Peter Schoenmakers
2012	38 th	Anaheim, USA	Frantisek Svec
2013	39 th	Amsterdam, The Netherlands	Peter Schoenmakers
2013	40 th	Hobart, Australia	Paul Haddad
2014	41 st	New Orleans, USA	J. Michael Ramsey
2015	42 nd	Geneva, Switzerland	Gérard Hopfgartner
2015	43 rd	Beijing, China	Guibin Jiang
2016	44 th	San Francisco, USA	Robert T. Kennedy
2017	45^{th}	Prague, Czech Republic	Michal Holčapek and František Foret
2017	46^{th}	Jeju Island, Korea	Doo Soo Chung
2018	47 th	Washington, DC, USA	Norman Dovichi
2019	48^{th}	Milan, Italy	Alberto Cavazzini and Massimo Morbidelli
2019	49^{th}	Kyoto, Japan	Koji Otsuka
2020	-	San Diego, USA	Mary J. Wirth (postponed due to COVID pandemic)
2022	50^{th}	San Diego, USA	Frantisek Svec
2023	51 st	Düsseldorf, Germany	Michael Lämmerhofer and Oliver J. Schmitz
2024	52 nd	Denver, USA	Susan Olesik
2024	53 rd	Dalian, China	Guowang Xu
2025	54 th	Bruges, Belgium	Gert Desmet, Ken Broeckhoven, Deirdre Cabooter, Sebastiaan Eeltink, Frederic Lynen
2026	55 th	Indianapolis, USA	Todd Maloney, Jared Anderson
2027	56 th	Innsbruck, Austria	Christian Huber, Gunda Köllensperger
2027	57 th	Fukuoka, Japan	Yasushi Ishihama, Kenji Hamase

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SOCIAL EVENTS

SUNDAY, JUNE 15, 2025 OPENING CEREMONY Concertgebouw Bruges, 't Zand 34, 8000 Brugge

The opening ceremony will take place at the Concertgebouw, situated by the 't Zand Place, 350 meters from the Conference Centre.

SUNDAY, JUNE 15, 2025 WELCOME RECEPTION IN THE EXHIBITION Conference Centre, BMCC – Exhibition Hall

The welcome reception will take place at the Conference Centre BMCC, in the exhibition hall on the groundfloor.

MONDAY, JUNE 16, 2025 PRE-DINNER COCKTAIL Conference Centre, BMCC – Exhibition Hall

Sponsored by

WEDNESDAY, JUNE 18, 2025 **CONFERENCE DINNER**

La Brugeoise, Vaartdijkstraat 7, 8200, Brugge

Buses will be available near the BMCC for a 10-minute ride to La Brugeoise. Please follow the instructions from the HPLC staff for directions. If the weather is good, you may also enjoy a pleasant walk along the river to La Brugeoise. HPLC staff will assist you in finding your way to the venue. Return buses to the BMCC will be available starting at 10:00 pm.

THURSDAY, JUNE 19, 2025 **AWARD CEREMONY** Conference Centre, BMCC - Exhibition Hall

To maximize the cheering, the winners of the various competitions will be presented with their prizes during a compact yet festive ceremony in the exhibition hall during lunch on Thursday.

THURSDAY, JUNE 19, 2025 **FAREWELL DRINK** Conference Centre, BMCC – The View, Level 4

As HPLC 2025 Bruges draws to a close, let's come together one final time to reflect on the meaningful experiences we've shared. Raise a glass, connect with fellow attendees, and exchange your last insights and memories before returning to your loved ones. Every participant and their accompanying person are warmly invited to join. Wishing you all a pleasant and safe journey home!

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4:30pm-6:45pm

7:00pm – 9:00pm

6:45pm-8:00pm



7:00pm - 11:30pm

1:00pm – 1:30pm

3:15pm – 3:45pm

CHROMATOGRAPHY'S GOT TALENT

MONDAY, JUNE 16, 2025 CHROMATOGRAPHY'S GOT TALENT Conference Centre, BMCC – Auditorium A&B, Level 1

Get ready for an exciting new addition to the program: the finals of Thermo Fisher Scientific's HPLC Tube and KNAUER's Science Slam in a dynamic, interactive show hosted by Rich Whitworth (The Analytical Scientist).

With €1,250, €750, and €500 up for grabs in the two competitions, you — the audience — will serve as the sole jury, voting live via an online poll to select the winners.

But that's not all - everyone can take part in our brandnew online guiz: "Who Wants to Be a Chromatography Millionaire?", generously sponsored and organized by the RIC Group, with €500, €300, and €100 prizes for the top three participants.

Time to brush up on your chromatography basics — it's going to be a show you won't want to miss!

Program

5:30pm	Welcome & Warm-up quiz questions
5:45pm	Finals HPLC Tube
6:05pm	Second Round of quiz questions
6:15pm	Finals Science Slam
6:35pm	Final quiz questions + announcement of Tube
	& Slam & Quiz winners

Thermo Fisher















DEBATE SESSION "QUO VADIS HPLC IN INDUSTRY"

TUESDAY, JUNE 17, 2025

DEBATE SESSION "Quo Vadis HPLC in industry" Conference Centre, BMCC – Auditorium A&B, Level 1

Current challenges and future opportunities for HPLC analysis in industry

Using ideas and remarks spawned by the delegates via 2 ideation boards (initiative from and graciously sponsored by Merck) and those collected among the participants of the industry leadership track, the perfect ingredients will be available to entertain a vivid debate on the current challenges and future needs for chromatographic analysis in industry.

Moderators and Panel Members:

- Dave Bell (Askprime)
- Steve Groskreutz (Eli Lily, USA)
- Elia Psillakis (Technical Uni Crete, Greece)
- Stefan Lamotte (BASF, Germany)
- Michael Laemmerhofer (Uni Tuebingen, Germany)
- Paul Ferguson (Astra Zeneca, UK)
- Isabelle Francois (Chromisa, Belgium)

Please share your thoughts, concerns, ideas on the future of HPLC with us on the ideation boards located at the entrance of the exhibition hall

Merck





5:30pm-6:30pm

COMPETITIONS AWARDS

CSABA HORVÁTH YOUNG SCIENTIST AWARD

About the Award

The purpose of the Award is to honor the memory of Csaba Horváth and recognize his contributions to HPLC, including his interest in fostering the careers of young people in separation science and engineering. The award includes an invitation to speak at the HPLC 2024 Symposium, a grant to support travel to that meeting, and a trophy engraved with the winner's name. The award is sponsored by HPLC, Inc. The award will be presented during the Closing Ceremony on Thursday, June 22.

Eligibility Criteria

All presenters of oral contributions (excepting past winners) who are less than 35 years of age at the time of their lecture are eligible for consideration. Candidates will be required to provide evidence of eligibility (e.g., passport, driver's license).

Selection Process

The Scientific Committee selects abstracts for inclusion in the oral program. An Award Jury judges the eligible presentations and chooses a winner. The winner will be announced at the Closing Ceremony.

About Csaba Horváth

Professor Csaba Horváth (1930-2004) was born in Hungary and graduated in chemical engineering from the Budapest Institute of Technology. After receiving his Ph.D. in physical chemistry at the J.W. Goethe University in Frankfurt under the direction of Prof. Halász, he immigrated to the United States in 1963 and started research at the Harvard Medical School. In the following year, Dr. Horváth moved to Yale where he designed and built the first high performance liquid chromatograph to demonstrate the feasibility and potential of HPLC in bioseparation sciences. He chaired the Department of Chemical Engineering at Yale from 1987 to 1993 and was named as Roberto C. Goizueta Professor of Chemical Engineering in 1998. Professor Horváth contributed close to 300 publications to the field of separation sciences and had nine patents. His main topics were all fundamental aspects of separations, including instrumentation, stationary phase designs, and mechanisms of separation processes, as well as their application mainly to biological and biomedical research, especially for the high-resolution separation of proteins and peptides.



Past recipie	nts of the Csaba Horváth Young Sci
HPLC 2006	San Francisco, USA – Norma Scully, L
HPLC 2007	Gent, Belgium – Caterina Temporini, L
HPLC 2008	Baltimore, USA – Jude Abia, Universit
HPLC 2009	Dresden, Germany – André de Villiers
HPLC 2010	Boston, USA – Jesse Omamogho, Ur
HPLC 2011	Budapest, Hungary – Matthias Verstra
HPLC 2012	Anaheim, USA – Stefan Bruns, Philipp
HPLC 2013	Amsterdam, The Netherlands – James
HPLC 2014	New Orleans, USA – William Black, Ur
HPLC 2015	Geneva, Switzerland – Andrea Garga
HPLC 2016	San Francisco, USA – Simone Dimart
HPLC 2017	Prague, Czech Republic – Bob Pirok, I
HPLC 2018	Washington, DC, USA – Martina Cata
HPLC 2019	Milan, Italy – Sebastian Piendl, Univers
HPLC 2022	San Diego, USA – Brady Anderson, U
HPLC 2023	Dusseldorf - Simona Felleti, University
HPLC 2024	Denver - Devon Makey, University of M

HPLC 2025 Bruges Csaba Horváth Young Scientist Award Finalists

Rick van den Hurk, University of Amsterdam Bram Huygens, Vrije Universiteit Brussel Clara Whyte Ferreira, University of Liège Christina Brenner, y, University of Vienna Emery Bosten, KU Leuven Jonathan Maurer, University of Geneva Oskar Munk Kronik, University of Copenhagen Hannes Westphal, Leipzig University Gaëlle Spileers, Ghent University Katerina Hruzova, Masaryk University

HPLC 2025 Bruges, Belgium

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Jniversity of Cork, Ireland

University of Pavia, Italy

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s, Stellenbosch University, South Africa

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aeten, Free University of Brussels, Belgium

os-University Marburg, Germany

Grinias, University of North Carolina Chapel Hill, USA

niversity of North Carolina Chapel Hill, USA

ano, University of Amsterdam, The Netherlands

tino, University of Edinburgh, UK

University of Amsterdam, The Netherlands

ani, Università degli Studi di Ferrara, Italy

sity of Leipzig, Germany

Iniversity of Michigan, Ann Arbor, MI, USA

y of Ferrara, Italy

Michigan, USA

OR02 – Monday, June 16 - 9:35am / 9:55am OR12 – Monday, June 16 – 11:50am / 00:10pm OR26 – Monday, June 16 – 9:15am / 9:35am OR28 – Monday, June 16 – 9:55pm / 10:15am OR37 – Tuesday, June 17 – 0:10pm / 0:30pm OR42 – Tuesday, June 17 – 11:30am / 11:50am OR62 – Wednesday, June 18 – 11:50am / 0:10pm OR75 – Wednesday, June 18 – 3:40pm / 4:00pm OR83 – Wednesday, June 18 – 5:15pm / 5:35pm OR89 – Wednesday, June 18 – 5:35pm / 5:55pm

POSTER AWARDS

Presentation of scientific work on a poster is an essential part of the scientific program of the HPLC Symposium Series. A poster is an efficient way to disseminate, share, and discuss the results of liquid phase separation research, progress in new instrumentation and separation method development, applications in life science research, (bio)pharmaceutical product R&D, for the safety and authenticity of consumer goods, in forensics, and environmental monitoring and protection with one's peers.

Agilent Technologies

This year, poster presenters have the opportunity to participate in **two main separate competitions**, both generously sponsored by Agilent Technologies. In addition, there are also 5 topical poster awards that will be awarded.

The first main competition, the "Best Poster Competition", will award 3 prizes (€ 1,500; € 1,250; € 750) to the posters that showcase innovative work in a clear, engaging manner and are presented with competence during one-on-one interactions with the jury. The second main competition, the "Young Scientists Poster Pitch Competition", will recognize the 3 young scientists who can best 'sell' the work in their poster in a 5-minute pitch talk (€ 1,500; € 1,250; € 750). Admission to the latter competition was based on abstract reviews. Selected papers are presented as a short oral during the Young Scientists Poster Pitch sessions on Wednesday and Thursday held in Auditorium B.

All participating posters will be reviewed by an international panel of scientific experts, headed by Dr. Deirdre Cabooter as chairperson. The reviewers will be evaluating all participating posters and poster pitches using the following criteria:

- Novelty, originality, and creativity of the work
- The scope of the work, the quality of the experimental design, and practical execution
- The presentation of the poster, especially the author's presence, and explanation during the designated poster session or the Young Scientists Poster Pitch sessions
- Impact of the work

Among the abstracts accepted as poster, around 250 posters participate in the HPLC 2025 "Best Poster Competition". All selected posters are marked accordingly. In the first round of evaluation, held during the designated poster session, reviewers will select the top 20 poster for a second-round review. The selected candidates should present their nominated poster on Wednesday 10:15am-10:45am and 1:15pm-2:15pm in the Top-20 poster area in the exhibition hall.

Next to this, there is also a series of **topical poster awards** that can be won for specific sub-categories:

- € 500 for best poster on "Sustainability Awareness" generously sponsored by KNAUER and to be selected among all posters showing an AGREEprep calculation
- € 500 for best poster on "Biopharmaceutical Analysis" generously sponsored by **RIC group**
- € 500 for best poster on "Pharmaceutical Analysis" generously sponsored by Janssen Pharma
- € 500 for best poster on "Method Development and Retention Modelling" generously sponsored by Waters
- € 250 for best poster on "Sample Preparation" generously sponsored by the Division of Analytical Chemistry of the **EuChemS**

KNALER RIC group

Johnson&Johnson



European Chemical Society

HPLC TUBE

HPLC Tube : Shorter, Sharper, Smarter!

Since its introduction in 2019, HPLC Tube has provided a unique and enjoyable opportunity for scientists to creatively express themselves and unwind at the HPLC conference. This year, the excitement continues, generously sponsored by Thermo Fisher Scientific, offering prizes of €1,250 for first place, €750 for second place, and €500 for third place. New this year is that the winner be selected by through an electronic audience poll, and that the competition is open to groups and all age categories.

What else is new this year?

We're making it easier for everyone to join in! This year, we invite scientists to create short videos (up to 1 minute) that showcase how your chromatography work impacts the world. No need for professional editing, just grab your smartphone and start filming. Make it informative, make it funny, make it cheesy - just make it you! This contest is open to ALL scientists, so let's see your creativity shine!

HPLC Tube 2025

This is a science competition – not a scientific presentation. It's about bringing your research closer to the HPLC 2025 audience in an entertaining yet understandable way.

Rules for Participation:

- **1.** Format: While we are keeping the prompt broad, we would like to provide you with some options as to how you can best create this video to resonate with your audience:
 - Infomercial. (Think science information + commercial!) Sell us on your chromatography and practices that are making the world a healthier, cleaner and safer place.
 - · Sports highlights. Memorable sports moments, like a game-winning shot with a lab flair! You're the lab's Michael Jordan – what analysis is like a slam dunk?
 - Movie Trailers. Your chromatography is the newest blockbuster movie, what are the chromatographic highlights that will grab the audience's attention and make them run to buy tickets to the first showing?
- 2. Content: Make your video engaging and persuasive. Promote your chromatography research and laboratory practices with style.
- 3. Creativity: Have you ever participated in teleshopping before? Watched a game winning goal? Watched the famous "Star Wars: The Force Awakens" trailer? What grabbed your attention? Think about your audience investing in your amazing chromatography!
- 4. Awards: • Gold: €1.250 • Silver: €750 • Bronze: €500

Criteria for Evaluation

- · Best video will be selected via electronic audience poll, based on scientific content, entertainment value, creativity and technical skills.
- Contributions with discriminative, insulting, or offensive language will be excluded.

Who Can Participate?

- Eligibility: Scientists (academic or industrial) of any age involved in research projects related to the liquid chromatography workflow (before, during, or after).
- Submissions: Both individual and group submissions are welcome.
- Content: The video must be based on the presenter's own findings or work.
- Selection: Based on the submitted proposals, the best contributions will be selected for the final round.

Get ready to showcase your research in the most entertaining way possible and take part in the 2025 HPLC Tube, sponsored by Thermo Fisher Scientific.



SEPARATION SCIENCE SLAM

An event that has been unmissable at HPLC conferences since its introduction in 2019 is the Separation Science Slam, which this year is once again generously sponsored by KNAUER (resp. \in 1,250; \in 7,50 and \in 500 for the nrs. 1, 2 and 3). New this year is that the winner be selected by through an electronic audience poll, and that the **competition is open to groups and all age categories**.

Who will be the first professor daring to take on the challenge?

The Separation Science Slam

- The Separation Science Slam is a science competition –not a scientific presentation. It is about bringing your own research closer to the HPLC 2025 audience in an entertaining but understandable way.
- You are on stage and have 3 minutes to impress the HPLC 2025 attendees with free speech, animated PowerPoint presentations, illustrative images, a poem, a rap, a cabaret, ...your creativity!
- Awards: Gold: €1250 Silver: €750 Bronze: €500

Criteria for evaluation

- Best performance will be selected via electronic audience poll, insisting contributions would be judged, in addition to the scientific content, the entertainment value, comprehensibility, creativity and technical skills.
- Contributions with discriminative, insulting, or offensive language will be excluded.

Who can participate?

- Scientists (academic or industrial) of any age involved in research projects related to the liquid chromatography workflow (before, during or after).
- · Submissions from individuals or groups are welcome.
- The presentation must be based on the presenter's own findings or work.
- Based on the submitted proposal, the best contributions will be selected for the final round

KNALER

EXHIBITION MVP (MOST VALUABLE PARTICIPANT)

The HPLC 2025 Bruges organization will offer a € 500 cheque to the person who had the most and best interactions with our exhibitors in our unique "Exhibition MVP (Most Valuable Participant)" competition. Winner will be the one who's badge got scanned most in the different exhibitor booths. Should there be a tie, the winner will be drawn by an impartial hand.

The scan count will conclude following the final morning coffee break on Thursday at 10:45 am.

To get things started, we'll use generative AI to do a presenter-vendor pairing and provide each presenter who submitted an abstract with a list of the 5 companies selling a technology that is most relevant for the topic of the presenter's abstract.



AWARDS

CHROMATOGRAPHIC SOCIETY MARTIN MEDAL

In 1978 Professor Archer. J.P Martin gave permission for his name to be associated with the 'Martin Medal'.

This is awarded to scientists who have made outstanding contributions to the advancement of separation science.

https://chromsoc.com/martin-medal



Winner of the Martin Medal 2025: Prof. **Boguslaw Buszewski** Nicolaus Copernicus University, Poland

CHROMATOGRAPHIC SOCIETY JUBILEE MEDAL

Created in 1982 to mark the 25th anniversary of the Society, the 'Jubilee Medal' is awarded to up-andcoming separation scientists, those who have made major use of separation science in their own field or to scientists who have made important contributions to a particular area of separation science.



Winners of the Silver Jubilee Medal 2025: Prof. **Elia Psilakis**, Technical University of Crete, Greece

https://chromsoc.com/jubilee-medal

J. F. K. HUBER LECTURE AWARD

The J.F.K. Huber Lecture Award is presented by the Austrian Society of Analytical Chemistry (ASAC). This Award was created in 2014 to honor scientists who have made major contributions to the advancement of HPLC in theory and practice. Prof. Joseph Franz Karl Huber (1st January 1925 – 15th August 2000) who gives this Award the name, received his doctoral degree in 1960 about a physico-chemical topic under the supervision of Prof. Erica Cremer of the University Innsbruck (Austria). 1964 Joseph Huber moved to the Free University of Amsterdam.

In 1974 he moved back to Austria accepting the Chair of Analytical Chemistry at the University of Vienna where he became Emeritus in 1995. He is considered as one of the founding fathers of HPLC whereby his vision of the impact of small particles on the high efficiency of LC and of multidimensional LC marks the two corner stones of his research.

Awardee 2025 is:



Prof. **Caroline West** (University of Orléans, France) The Award will be presented during the Session "SFC" on Monday, June 16 from 15:50 to 16:15, in The View, level 4.

Past Awardees

- Attila Felinger (Pécs, Hungary) at ISC 2014 Salzburg 2014
- Gert Desmet (Brussels, Belgium) at HPLC 2017 Prague 2017
- 2019 Fabrice Gritti (Milford, MA, USA) at HPLC 2019 Milano
- Michael Lämmerhofer (Tübingen, Germany) at Analytica virtual 2020 2021
- 2022 Alberto Cavazzini (Ferrara, Italy) at ISC 2022 Budapest
- Deirdre Cabooter (Leuven, Belgium) at HPLC 2023 Duesseldorf 2023
- Torgny Fornstedt (Karlstad, Sweden) at ISC 2024 Liverpool 2024

UWE D. NEUE AWARD IN SEPARATION SCIENCE

About the Award

The Uwe D. Neue Award was created to recognize scientists that have made and continue to make significant contributions to the field of separation science, in honor of the legacy of Dr. Uwe D. Neue, late scientist and Waters® Corporate Fellow.

Eligibility Criteria

The award will honor a distinguished industrial scientist, 15-20 years or more after receiving his or her degree, who has made a significant contribution to the field of separation science. In addition, the awardee should be an industrial scientist, and one who was instrumental in the embodiment of technology in commercial products.

Awardees

The award recipient will receive a commemorative plague, a \$7,500 check and travel support. The recipient of the 2025 Uwe D. Neue Award in Separation Science is Tivadar Farkas (Tbilisi State University).



Dr. Farkas will present a research lecture during the Session "Chiral" on Tuesday, June 17 from 08:55 to 09:15 in The View, level 4.

The award is sponsored by Waters.



Past Awardees

HPLC 2013	Dr. Jack Kirkland
HPLC 2014	Dr. Gerard Rozing
HPLC 2015	Dr. Mark Schure
HPLC 2016	Dr. Lloyd Snyder
HPLC 2017	Dr. Andrew Alpert
HPLC 2018	Christopher Pohl
HPLC 2019	Dr. Christopher Welch
HPLC 2022	Dr. John Dolan
HPLC 2023	Dr. Thomas H. Walter
HPLC 2024	Dr. Miroslav Janco

GENERAL INFORMATION

Mobile Application for HPLC 2025

A Conference Mobile Application will be available for all participants. It enables you to get the most out of the conference: create your personalized agenda, interact with participants, have a swift access to the practical information, and much more.

The use of the app is free of charge. For information on downloading the app, please see page 4.

Badges

Badges will be delivered at HPLC 2025 registration desk. All participants and exhibitors have to wear the name badge in the conference area completely visible at all times. In case you have lost your name badge, please report at the registration desk.

No conference bags will be distributed to participants.

Breaks – (Coffee breaks and lunches)

Coffee, tea and soft drinks as well as a lunch buffet will be served in the exhibition during the coffee / lunch breaks.

Buffets are free for registered participants and accompanying persons. Please wear your name badge throughout the congress.

Certificate of Attendance

A certificate of attendance will be sent out by e-mail to all participants after the conference.

Cloakroom

You can leave your wardrobe and, if necessary, your luggage in the cloakroom, which is located on the ground floor of the BMCC. Please note, that the organizer assumes no liability for wardrobe, valuables and any kind of damages.

The cloakroom is open at the following times:

- Sunday, June 18 08:00 a.m. 10:00 p.m.
- Monday, June 19 08:00 a.m. 9:00 p.m.
- Tuesday, June 20 08:00 a.m. 08:30 p.m.
- Wednesday, June 21 08:00 a.m. 07:00 p.m.
- Thursday, June 22 08:00 a.m. 05:00 p.m.

Exhibition Area

The exhibition is an important component of the conference. Take the opportunity to see the exhibitors' newest products and speak to their representatives. Please take the time to acknowledge the exhibitors for their generous support of the program by visiting the booths located on the ground floor of the BMCC.

You can find the list of exhibitors on page 34 (wait for programme to be finished for the exact page).

Emergency Numbers

- Police: **101**
- Fire Department: **112**
- Medical Emergencies: **112**

Electricity

Electric current in Belgium is supplied at 230 volts with a frequency of 50 Hz, just like in most European countries. The sockets in Belgium are designed for round two-pin plugs, specifically Type C and Type E. Type E sockets feature a male earth pin, and both Type C and Type E plugs are commonly used and widely compatible. If your devices use a different plug type, you will need an appropriate adapter to connect them to Belgian sockets.

Insurance and Liability

The organizers do not accept liability for personal injury or loss or damage of private property of participants and accompanying persons either during or while travelling to the conference. Participants are strongly recommended to seek insurance coverage for health and accident, lost luggage and trip cancellation.

Language

English is the official symposium language. No translation will be provided.

Lost & Found

The Lost & Found Counter is located at the registration desk at the entrance of the BMCC.

Oral Presentations

All presentations must be in Powerpoint 16:9 format. If your presentation contains videos, it is highly recommended to embed them in the PowerPoint presentation.

Speakers are requested to upload their presentation at the Speaker Room (level 2 of the BMCC) preferably on the day before the lecture but at least 2 hours before the beginning of the session.

It is not possible to bring presentations directly to the lecture hall unless you received other instructions. At the Speaker Room, speakers will have the possibility to:

- Review their power-point presentations
- Make last minute changes of power-point presentations
- Being supported by technical staff
- Upload power-point presentation in the dedicated session conference room

The Speaker Room is located on the level 2 ofthe BMCC and is open at the following times:Sunday, June 15:from 18:00 to 20:00Monday, June 16:from 08:00 to 19:00Tuesday, June 17:from 08:00 to 18:00Wednesday, June 18:from 08:00 to 18:00

Thursday, June 19:

Speakers are recommended to arrive in the lecture hall at least 15 minutes before the start of the session to introduce themselves to the session chairs.

from 08:00 to 11:00

Speakers are strongly recommended to respect time limits for their talks.

Kindly note that session chairs are under very strict instructions to keep their sessions on schedule. Suitable devices to control the time and communicate it to the speakers are in each session hall. There are four to five sessions running in parallel with strict time constraints.

Allocated time for your talk has been communicated by email.

Photographs Taken at HPLC 2025

Participants are not allowed to take photos or videos of the lectures or the poster presentations without the prior permission of the respective author.

Poster Sessions

Posters are located on the ground floor of the BMCC, in the Exhibition Hall. Posters will be available during the whole conference and are regrouped by topics.

Odd numbers will be presented on Monday, June 16 and even numbers will be presented on Tuesday, June 17. Poster sessions will start at 13:15 and end at 15:50.

Please refer to the exhibition hall floor plan to locate the position of your poster topic.

Topics:

- 2D-LC
- Biopharma
- Column Technology
- Doping, Drugs & Diagnosis
- Detection
- Environmental
- Food
- Ion Mobility
- Large Molecules
- LC-MS
- Method Development
- OMICS
- Pharma
- Preparative

- Retention Modeling
- Sample Preparation
- SFC
- Stationary Phases

Set-up on Sunday, June 15 from 5:30pm to 8:30pm and Monday, June 16 from 8:00am to 1:00pm. The material to hang your poster (pins) will be available at the registration desk.

Program Changes

The organizers are not liable for any changes made to the program. Updates may be found on the official website (https://www.hplc2025bruges.org) and/or will be communicated via the symposium app.

Registration Desk Opening Hours

The registration desk is situated at the entrance hall of the Confrence Centre BMCC.

Sunday, June 15: from 08:00 am to 9:00 pm Monday, June 16: from 07:30 am to 8:30 pm Tuesday, June 17: from 08:00 am to 7:00 pm Wednesday, June 18: from 08:00 am to 7:00 pm Thursday, June 19: from 08:00 am to 4:00 pm

Registration onsite

You can register in person for either the full conference or for a single day. Payment is accepted by cash or credit card.

Cancellations and refunds

No refund will be made for cancellations.

Special Issue Publication – Elsevier - JCA

Journal of Chromatography A will be publishing a Special Issue of contributions presented at the 54th International Symposium on High Performance Liquid Phase Separations and Related Techniques (HPLC 2025), that will be held from 15 to 20 June 2025 in Bruges, Belgium. The Special Issue will cover all topics related to liquid phase separations comprising sample preparation, (U)HPLC, SFC, electrodriven separations, microfluidics, hyphenation

HPLC 2025 Bruges, Belgium

with mass spectrometry, ion-mobility mass spectrometry, other detection technologies, multidimensional separations, data handling and analysis, machine learning and so forth as well as their applications in (bio)pharmaceutical and bioanalysis, omics, environmental and food analysis, preparative chromatography, process analytical technologies, automation and robotization, etc. The HPLC 2025 conference will have a strong focus on today's and tomorrow's practice in industrial HPLC labs.

You are invited to submit your manuscript at any time before the submission deadline. The journal's submission platform (Editorial Manager®) will be available for receiving submissions to this Special Issue from July 1, 2025 onwards. Please refer to the Guide for Authors to prepare your manuscript, and select the article type of "VSI:HPLC2025" when submitting your manuscript online.

Both the Guide for Authors and the submission portal can be found on the Journal Homepage: http://www.elsevier.com/locate/issn/0021-9673.

Submission deadline: December 31, 2025

Tourist Information - Bruges

Bruges is a charming, historic city in the heart of Belgium, often called the "Venice of the North." It is renowned as one of Europe's most picturesque destinations, celebrated for its well-preserved medieval architecture and enchanting canals.

Visitors will be delighted by attractions such as the Markt square with its iconic Belfry, the tranquil Minnewater (Lake of Love), and the bustlingshoppingstreetslined with chocolatiers and lace boutiques.

The city's museums, including the Groeningemuseum and the Historium, offer fascinating glimpses into Bruges' rich past, while the many cozy cafés and restaurants invite you to savor Belgian specialties.

The stage is set

Behind the curtain lies the future of amino acid separations Coming soon!

New column. New possibilities.

It's almost showtime. Message us to be first in line for the unveiling of our next big chiral advancement.

cte@cte.daicel.com www.chiraltech.com

The knowledgeable staff at the Bruges Tourist Information Centre are ready to help you uncover the city's hidden gems and most scenic corners.

Visit the Bruges Tourist Information at Markt 1, 8000 Brugge, or find more information online at https://www.visitbruges.be/en.

WiFi HPLC 2025

Free WiFi is provided within the conference centre, connect to the "BMCC public" network.





Science with Passion

High-throughput quality control

The KNAUER AZURA® HTQC UHPLC system is the solution for high-throughput quality control when speed, simplicity, and robustness are essential. Each system boasts two binary pumps and a column selection valve, ensuring convenient column reconditioning during analysis. A modern robotic liquid handler with extensive sample storage capability introduces samples with precision and speed.

KNAUER AZURA® HTQC UHPLC Systems

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No sample loss

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HPLC 2025 Bruges, Belgium

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with Liquid Handler and Robotic Cooler

at 59.900 EUR

KNAUER AZURA® HTQC UHPLC System

with Liquid Handler, Robotic Cooler and DAD Detector



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EXHIBITION FLOOR PLAN



List of Exhibitors by booth number:

- 01 Avantor
- 02 RESTEK
- 03 Nacalai Tesque
- 03b Resonac Europe
- 04 Bioanalytic
- 05 Dr. Maisch
- 06 ChromaNik
 - Technologies Inc.
- 07 VICI AG
- 08 GLSciences
- 09 Regis Technologies Inc.
- 10 ACD Labs
- 12 Macherey Nagel
 - **RIC** group
- 14 DryLab-Molnar
 - Institute
- 15 Merck
 - Phenomenex
 - IonBench/SCAT
 - Thermo Fisher
- 19 ECOM/
 - Chromservis
- 20 CMC Instruments
- 21 Agilent
- 22 Shimadzu
 - Axcend
- 24 Silcotek
- 25 The Analytical
 - Scientist
- 26 Welch Materials
- 27 Janssen
- 28 Chiral Technologies
 - Europe
- 29 Knauer
- 30 Bohlender

- 31 S-Matrix
 - Corporation
- 32 Waters
- 33 TOSOH Bioscience
- 34 Chromsword
- 35 YMC
- 36 Teledyne
- 37 Advanced Material Technology
- 38 SPM
- 38b Sepax
- 39 Postnova
- 40 Fortis Technologies
- 41 Bruker
- 42 TECAN
- 43 Microsolv
- 44 Porvair Sciences Ltd
- 45 HPLC 2026
- 46 HPLC 2027 Innsbruck
- 47 Book: Modern HPLC separations in theory and practice
- 48 ISC 2026 Prague
- 49 LC-GC International
- 50 Book: Analytical Separation Sciences
- 51 HPLC 2027 Kyoto

CONFERENCE CENTRE FLOORPLAN

Groundfloor

- Exhibition Hall
- Poster Sessions
- Catering

- Registration Desk Merck Ideation Boards
- Photowall









Level 4
The ViewVIP Room



CARRER ACCELERATOR PROGRAM

TUESDAY, JUNE 17, 2025 HPLC2025 Career Accelerator: Explore and Engage **Career Insights Session & Panel Discussion**

3:50pm-5:20pm

Not sure what's next after your PhD or postdoc? Wondering if academia is still the norm? Curious about the full range of career options available to you? Interested to know what industry is really looking for?

Join the **Career Insights** session to explore diverse career paths after a PhD/Postdoc – from traditional academic roles to industry, NGOs, government, science communication, editing, entrepreneurship, and beyond.

Following this, an interactive panel discussion will feature experts from academia, industry, and other sectors related to separation sciences. Learn from their journeys, gain insider perspectives, and get inspired to shape your own career path.

WEDNESDAY, JUNE 18, 2025 HPLC2025 Career Accelerator: Connect **Speed-Dating Job Interviews**

4:30pm-6:15pm

Are you a PhD student or postdoc ready to take the next step in your career? Or an employer (sponsoring or exhibition company, academic Pls), looking for top talent?

Join our speed-dating session to connect with potential employers or candidates!

Speed-dating interview format:

- Each pair meets at a designated table
- Speed-dating time: 5 minutes
- Introduce yourself, exchange contact details, and explore opportunities

HPLC2025 JOB BOARD

Whole conference

A job board will be available in the exhibition hall throughout the conference, where employers can showcase open positions.



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METHOD DEVELOPMENT

CHARACTERIZATION

INSTRUMENTS

INNOVATION

TRAINING

S.O.S

SU	NDAY -	June 15			MONDAY	- June 16				TUESDAY -	June 17				WEDN	NESDAY - June 18	3				THURSDA	Y - June 19	
The	e short co	ourses are		Auditorium A+B, Level 1	Foyer, Level 3	The View, Level 4	VIP Room, Level 4		Auditorium A+B, Level 1	Foyer, Level 3	The View, Level 4	VIP Room, Level 4		Auditorium A, Level 1	Foyer, Level 3	The View, Level 4	Auditorium B, Level 1	VIP Room, Level 4		Auditorium A, Level 1	Foyer, Level 3	The View, Level 4	Auditorium B, Level 1
takin	g place at of the BN	t the level 3 MCC		MO-01 Multidimensional LC	MO-02 Lab Automation	MO-03 Column Technology			TU-01 LC-MS	TU-02 Stationary Phases	TU-03 Chiral	08h30 - 12h30		WE-01 Metabolomics and Lipidomics	WE-02 Sample preparation	WE-03 Industry stories 1	Tutorial 1			TH-01 Separation Modes 2	TH-02 GC	TH-03 Euchem Sample Preparation	Tutorial 5
			Oh15	KN01 D. Guillarme	KNO3 P. Mieville	KN05 B. Zhang		Oh15	KN18 Alexander Makarov	KN20 M. Catani	KN22 M. Laemmerhofer		Oh15	KN35 M. Holcapek	KN37 V. Pichon	KN39 S. Groskreutz	L. Nilsson		Oh15	KN55 D. McCalley	KN56 J.Focant	KN58 S. Pedersen- Bjergaard	P
			130 - 10	KN02 O. Schmitz	KN04 T. Teutenberg	OR07 T. Walter		130 - 10	KN19 G. Hopfgartner	KN21 C. Pohl	KN23 T. Farkas*		130 - 10	KN36 G. Koellensperger	KN38 M.Segundo	KN40 A. Clarke	2111000011		130 - 10	OR91 H. Cottet	KN57 G. Purcaro	KN59 P.Kuban	Schoenmakers
Mo	ning		08	OR01 S. Chapel	KN04' C. Haas	OR08 D. Yeung		081	OR26 C. Whyte Ferreira**	KN21' K. Otsuka	OR32 B. Chankvetadze		08	OR51 S.Rudaz	KN38' G.Li	OR57 S. Vlyminck	OR156 S. Wiedmer		08	OR92 S.Boye	OR95 P. Cardinael	OR98 Vidal, Lorena	
Sh	lort	Short Course		OR02 R. van den Hurk**	OR05 T. Leek	OR09 K. Horvath			OR27 R. Giraud	OR30 Y. Chen	OR33 S. Felletti			OR52 X. Liu	OR55 E. Gionfriddo	OR58 A. Asokan	OR157 Y.Guo			OR93 R. Cageling	OR96 T. Cucu	OR99 Halvorsen, Trine	FP04 Young Scientists
OOUZ Ro	C-1 om 1	SC-10 Room 4		OR03 J. Dale	OR06 G. Schad	OR10 J. Zhao			OR28 C. Brenner**	OR31 H. Qiu	OR34 D. Mangelings			OR53 G. Theodoridis	OR56 S. Studzinka	OR59 J. Wu Ludvigsson	OR158 A. Cerrato			OR94 J. Urban	OR97 A. Michel	OR100 P.Štěrbová- Kovaříková	OR135-OR142
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SC Roc	C-3 pm 12 C-4			MO-04 Fundamentals	MO-05 Data & ML	MO-06 3D printing & miniaturization			TU-04 Method Development	TU-05 Bioseparations	TU-06 HILIC separations	Irack 2		WE-04 Hyphenation	WE-05 (Bio)Particle Separations 2	WE-06 Industry stories 2	Tutorial 2			TH-04 Sustainability	TH-05 Food	TH-06 Retention modelling	Tutorial 6
Rod	om 7		0	KN06 F. Gritti	KN08 B. Pirok	KN10 L. Mondello		0	KN24 P.Schoenmakers	KN26 ML. Riekkola	KN28 M. Schure		0	KN41 M. Fillet	KN42 A. Astefanei	KN44 Alexey Makarov	TOwn		0	KN60 E. Psillakis*	KN61 P. Dugo	KN63 M.Garcia Alvarez-	Moshum
			5 - 12h3	KN07 A. Felinger	KN09 J. Richert	KN11 M. Breadmore		5 - 12h3	KN25 K.Schuq	KN27 S. Wilson	OR41 T. Ikegami		5 - 12h3	OR60 T. Tuzimskij	KN43 M.H.Moon	KN45 S. Lamotte	1. Gauson	Education in Separation	5 - 12h3	OR101 P. Ferauson	KN62 A. De Villiers	KN64 P. Wiczling	IVI. Schure
			10h48	OR11 A. Adrover	OR14 R. Peters	OR17 M. Belka		10h45	OR35 M. Besenhard	OR38 B. Buszweski*	OR42 J. Maurer**		10h45	OR61 J. Op de Beeck	OR64 M. Marioli	OR67 M. Bashir	5004	Sciences	10h45	OR102 X. Subirats	KN62' A. García Campaña	OR108 U. Tallarek	FDor
				OR12 B. Huygens**	OR15 R. Cunha	OR18 S. Dimartino			OR36 JR. Torres-Lapasio	OR39 T.Chen	OR43 J. Jiang			OR62 O. Kronik**	OR65 V. Marassi	OR68 CJ Venkatramani	Young Scientists			OR103 O. Kalisz	OR106 JP. Chervet	OR109 M. Roses	Young Scientists
	Lunc	ch		OR13 J. Samuelsson	OR16 I. Niezen	OR19 J. Anspach			OR37 E. Bosten**	OR40 J. De Vos	OR44 L. Tutis			OR63 T. Kawai	OR66 V. Biagioni	OR69 J. Dores-Sousa	OR111-OR118			OR104 M. Frank	OR107 O. Núñez	OR110 A. Castellaneta	OR143-OR150
					Lunc	ch				Lunch	h					Lunch					Lunch & Awan	d ceremonies	
					Vendor	Seminars				Vendor S	Seminars		115			Vendor Se	minars						
After Sh	noon ort	All Day Short			Aglient - H Avantor - R	Room 1, level 3	13h30 - 17h30			Thermo Fischer	- The View, level 4		15 - 14h	Po: & Exh	ster ibition	Merck - Roor	m 1, level 3 n 4, level 3				The View	ı, Level 4	
S	C-5	SC-10			Knauer - It Shimadzu -	ne View, Ievel 4 Room 4, Ievel 3				Restek - Ro RIC group - F	om 12, level 3 Room 4, level 3		13H			Tosoh Bioscience	/iew, level 4 - Room 12, level 3		115	c	Closing Ceremony a	& Plenary Sessions	
Roc SC	vm 12 C-6	Room 4	Q					0						WE-07 PFAS &	WE-08 Microfluidics	WE-09 LC-IMS&MS/MS	Tutorial 3	WE-13 Recent	30-15	PL03 - K. Ham	ase (Plenary Lectur	re & Invitation to HPLC 2	2027 Asia)
9 Roc	om 6		5 - 15h5					5 - 15h5						KN46	KN48 P. Koppody	KN50		OR151	13h	PL04 - C. Hube	er (Plenary Lecture &	& Invitation to HPLC 202	27 Europe)
€ Roc	m 10		13h1(Poster			13h1(Poster			16h00	KN47 J. Guibin	KN49 A. Woolley	KN51 T. Causon	S. Fekete M. Imiolek	OR152 S. Lin		PL05 - 1. Ma	aioney (Pienary Lec	ture & invitation to HPL	6 2026)
Ro	om1				& Exhibition					& Exhibition			14h15 -	OR70 P. Forbes	OR73 D. Belder	OR76 G.Eppe		OR153 W. Hewelt-Belka	5h45				
Roo	5-9 om 7						Industry							OR71 M.Pardon	OR74 W. De Malsche	OR77 P. Mueller	FP02 Young Scientists	OR154 C. Brunelli	15h15-1		Farewe	ll Drink	
							Track 1							OR72 M. Hayder	OR75 H. Westphal**	OR78 K. Welters	OR119-OR126	OR155 T. Vercammen					
				MO-07 Oligomer	MO-08 (Bio)Particle	MO-09 SEC			TU-07 Proteomics	TU-08 Preparative	TU-09 Pharmaceutical								:	SC1 - Chromatograph	ny for dummies S	C-5: The analytical to	olbox
			120	Separations 1 KN12 D. Stoll	KN14 KN15son	KN16 C West*		120	KN29 R Kelly	KN32	KN33 E Regalado				(Coffee Break 30'				- everything you need able to follow the HPL P. Schoenmakers / B. F	LC conference Dirok	or the characterization hiopharmaceuticals). Guilarme / J. Maurer	1 OT
			17 - 17	KN13 M. Gilar	KN15 G. Somsen	KN17 L.Novakova		171-171	KN30 L.Zhang	OR46 Krauke /81	KN34 F. Cuyckens	Career Workshop		WE-10	WE-11 Instrument	WE-12				SC2 - Introduction to	practical S	C-6: Introduction to A	rtificial
			151	OR20 S. Fekete	OR22 T. Kubo	OR24 K. Faure		151	KN31 J. Yates	OR47 L. Audoy	OR49 G. Nys			Oligomer Separations 2	Hardware & Detection	Modelling & Al	Tutorial 4			C. West / B. Caux	S	Separations - B. Pirok / T	T.Bos
IO Wo	loomo C	oromony		OR21 T. Fornstedt	OR23 R. Drexel	OR25 S. Olesik			OR45 J. Van Eyk	OR48 I. Sallay	OR50 N. J. Nielsen		8h15	KN52 K. Zhang	KN54 J. Grinias	OR86 Cerbelli / 161	E. Psilakis			SC-3: Two-dimensio Chromatography: Pri Instrumentation. Met	nal Liquid S inciples, E thod	C-7: Chiral Separation B. Chankvetadze / W. Lind	is dner
- 18h4	PL01-K.S PL02-K.	Sandra Thurow			Technical E	Break 10'				Technical Br	reak 10'	_	sh30 - 1	J. Anderson	B. Paull	OR87 S. Deridder		Job Fair		Development, and Ap D. Stoll	pplications S	C-8: Data treatment p or large and diverse an	rocesses alytical
Con Con	certgebou 't Zand	uw Brugge 134	o		Auditorium A	.+B, Level 1		h30		Auditorium A+	-B, Level 1		, ^e	J. Jones	G. Spileers**	T. Letzel	FP03 Young			SC-4: Microfluidics in	d n separation ples S	ata sets - R. Cunha / G.	Renner MS:
) - 18h5		0 - 18h5		«Chromatograph	ny's got talent »		130 - 18		Plenary debate «Qu	o vadis HPLC?»			T. Deschrijver OR81	G. Musile OR85	K. Hruzova** OR90	Scientists OR127-OR134			microfabrication, and and continuous sepa	alytical to rations of G	a. Hopfgartner / P. Muelle	aluation er	
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8			00H0					Ro	oom 6: live streaming	g auditorium A+B or A ub: during breaks & po	oster sessions												
Welcome Reception Pre-Dinner Cocktail (contact simone.dimartino@ed.ac.uk) BMCC BMCC																							
19h0	nt-Maarte	ensbilk 1	18h					*Awa **Hoi	rd Celebration Talk váth Finalist				19h3C		Congress	Dinner @ La Brugeoi	se			PROG	RAMA	AT A GL/	ANCE

SHORT COURSES

MORNING SHORT COURSES

Coffee break and lunch included

SUNDAY, JUNE 15, 2025

9:00am - 0:00pm

SC-1: Chromatography for dummies – everything you need to know to be able to follow the HPLC conference Room 1. Level 3 Peter Schoenmakers, Bob Pirok

We do not expect any real dummies at this course. We do invite participation from scientists with an emerging interest in liquid chromatography (LC) or those for whom it is a minor part of their job. For all of you, HPLC2025 Bruges offers a unique opportunity to learn an awful lot in a single week. However, any of the presentations at the conference may be hard to follow for newcomers. The intention of this very short course is to provide you with sufficient knowledge to make the most out of your participation in the HPLC2025 conference.

In the course we will try to answer the question "What are they talking about?". For example,

- how can we use LC to achieve a separation?
- what's mobile and what's stationary?
- is HPLC high-performance or high-pressure liquid chromatography?
- what is the difference between HPLC and ultra-high-pressure liquid chromatography (UHPLC)?
- what are core shell particles?
- how small is micro-LC? (and how small is nano-LC?)
- what is reversed-phase liquid chromatography the opposite of?
- why do liquid chromatographers love mass spectrometers?
- what is two-dimensional LC and what purposes does it serve?

You should learn the answers to these and many other questions and you will love HPLC2025 Bruges even more after attending this course.

SC-2: Introduction to practical supercritical fluid chromatography

Room 10. Level 3 Caroline West, Benjamin Caux

In this short course, we will introduce you to the basics of analytical supercritical fluid chromatography (SFC) method development. After this course, you will know how to approach any new sample with SFC, starting from sample preparation to final (possibly validated) method, going through choice of detection system, initial screening conditions and optimization steps to achieve a quick, sensitive and robust method. We will also provide comparisons to GC and HPLC, to emphasize the differences and make you understand when SFC should be a good option.

Following the theoretical session, one example will be detailed with a practical "hands-on" session operating a remote instrument.

SC-3: Two-dimensional Liquid Chromatography: **Principles, Instrumentation, Method Development, and Applications** Room 12, Level 3 **Dwight Stoll**

Many industries are developing increasingly complex products that require separations with substantially more resolving power than that offered by state-of-the-art one-dimensional liquid chromatography. Two-dimensional liquid chromatography (2D-LC) techniques meet that need and are finding ever more application to the analysis of samples of moderate to high complexity.

This short course will cover:

- Concepts of the technique including the theoretical underpinnings of the advantages of 2D separations over their conventional 1D-LC counterparts.
- Practical aspects of modern 2D-LC that are critical for the development of successful separations including experimental details, column selection, and the management of the interface between the two separation dimensions.
- Applications of 2D-LC described in the literature that address problems in a variety of industries ranging from the analysis of small molecular weight compounds to polymers, which can be chemical as well as biological in nature.
- Recent trends towards MD-LC that, by adding further dimensions, allow for deep insights into the structure of biomolecules and have the potential for more automation in analytical workflows.

SC-4: Microfluidics in separation science: basic principles, microfabrication, analytical and continuous separations of molecules and particles Room 7, Level 3 Wim de Malsche, Ilyesse Bihi

The course will start with a brief overview of microfluidic principles. Typical flow configurations and resulting flow patterns are discussed and relation is made to applications. Next, the most important microfabrication techniques capable to make structures with micron-scale critical dimensions in glass, Si and polymeric material is given. The relation between characteristic dimensions and geometrical channel profiles to chromatographic dispersive behavior is discussed, and solutions to reduce dispersive sources is addressed (pillar array columns, vortex chromatography). Next, configurations that allow to manipulate, direct and separate particles are introduced and discussed (acoustic focusing, di-electrophoresis, deterministic lateral displacement, centrifugal).



AFTERNOON SHORT COURSES

Coffee break and lunch included

SUNDAY, JUNE 15, 2025 1:00pm-4:00pm SC-5: The analytical toolbox for the characterization of biopharmaceuticals Room 12, Level 3 Davy Guillarme, Jonathan Maurer

In recent years, there has been a strong evolution of the pharmaceutical landscape, towards more complex, targeted, and personalized therapies, including monoclonal antibodies, and emerging modalities such as oligonucleotides, mRNA, and gene therapies. These innovative molecules are specifically designed to address challenging diseases, like cancer, autoimmune disorders, and rare genetic diseases.

However, to fully benefit from these sophisticated therapies, it is essential to ensure that their quality is consistently high. In this context, advanced analytical techniques are indispensable to ensure batch-to-batch reproducibility, long-term stability under various storage conditions, and the precise detection and quantification of impurities, contaminants and degradation products.

The goal of this short course will be to highlight recent advances to rapidly and accurately characterize these new modalities using diverse chromatographic techniques. Topics will include reversed phase liquid chromatography (RPLC), ion exchange chromatography (IEX), size exclusion chromatography (SEC), hydrophobic interaction chromatography (HIC), hydrophilic interaction chromatography (HILIC), ion pairing reverse phase liquid chromatography (IP-RPLC), or affinity chromatography. Additionally, the short course will explore the integration of chromatographic methods with mass spectrometry (MS) and the application of two-dimensional liquid chromatography (2D-LC) for enhanced analysis.

SC-6: Introduction to Artificial Intelligence for Liquid-phase Separations Room 6. Level 3 Bob Pirok, Tijmen Bos

It's no exaggeration to say that artificial intelligence (AI) is transforming science and society. From breakthroughs in molecular discovery to advancements in AI language models, the potential of Al to drive innovation at an unprecedented pace is staggering. Its influence continues to expand, reshaping how we work, learn, and connect with one another. It is therefore not surprising that scientists in analytical separation science also try to capitalize on this potential.

In this course, we will introduce you to artificial intelligence. Like chromatography, artificial intelligence is a vast umbrella representing a large number of techniques. The most important of Al techniques will be discussed.

It is interesting to note that AI has been around for more than half a century. In fact, the technique has undergone two periods of low development, with the Second Al Winter starting around 1984 due to the claims of what AI systems were capable of once more not fulfilling their promise. Indeed, there are also guite some limitations to the successful use of AI, which is why a component of this course will also devote attention to understanding what these limitations are, and that they sometimes cannot be mitigated.

The third component of the course will be a critical overview of less and more successful applications of AI in chromatography and data analysis as well as an attempt to piece together a plausible prediction of what is to come in the upcoming years.

At the conclusion of the course, participants will have the opportunity to see the impact of some of the discussed concepts. A specialized tool will be provided, enabling participants to assess the effects of AI on the optimization process using simulated chromatograms. These chromatograms can either be generated from randomized retention models or derived from user-provided data for personalized testing and analysis. To actively participate in this final interactive part of the course, a (windows) laptop capable of installing third-party software is useful. Performance may vary depending on the device's computational power.

SC-7: Chiral Separations

Room 10. Level 3 Bezhan Chankvetadze, Wolfgang Lindner

What will be taught?

- · Short basics of stereochemistry and separation of enantiomers;
- chromatography (HPLC), super/sub-critical fluid chromatography (SFC), capillary electrophoresis (CE) and capillary electrochromatography (CEC) from the viewpoint of chiral separations and enantioselective analysis:
- stationary phases and chiral selectors;
- comparative characteristics;
- Some unusual effects in chiral separations;
- molecular modeling).

What we hope to convey to the participants?

- Understanding of critical differences between achiral and chiral separations;
- Proper selection of technique for particular problem solving;
- Proper selection of separation and detection conditions;
- Understanding of major tools for adjustment and fine tuning of separation process:
- Adequate interpretation and understanding of separation results;
- · Recent trends in chiral column development and applications.

SC-8: Data treatment processes for large and diverse analytical data sets Room 1. Level 3 Ricardo Cunha, Gerrit Renner

With the increasing complexity of modern analytical techniques and instruments, handling large and diverse datasets has become a crucial skill. This short course gives participants the competencies to flexibly process, inspect, and extract meaningful insights from analytical data.

• Comparative characteristics of gas chromatography (GC), high-performance liquid

· Non-covalent interactions and the importance of their control for preparation and use of chiral

• Currently available chiral columns and chiral selectors for practical problem solving and their

• Understanding enantioselective recognition and chiral separations (kinetics, thermodynamics,

The session will introduce generic open-source software tools (e.g., StreamFind, KNIME and OpenChrom) and high-level programming languages (i.e., R and Python) and demonstrate how they can efficiently handle analytical data, covering key aspects such as data pre-processing techniques and statistical analysis approaches.

A special focus will be placed on machine learning concepts, particularly the fundamental train-testpredict framework, essential for building reliable predictive models. Participants will gain practical knowledge on applying these techniques effectively in their analytical workflows.

The attendees are encouraged to bring their laptops to maximize their learning experience. This allows hands-on exercises with live demonstration examples – such as quality control of pharmaceuticals using Raman spectroscopy and non-target screening (NTS) based on liquid chromatography and mass spectrometry.

By the end of the short course, participants will have gained competencies in:

- The challenges posed by large and complex analytical data sets
- Available software tools and techniques for efficient data processing
- Statistical methods for extracting valuable patterns and trends
- The principles of machine learning and predictive modeling for analytical applications

This interactive session is ideal for professionals, researchers and PhD students looking to enhance their data-handling capabilities and apply advanced analytical techniques in their work.

SC-9: LC-MS and SFC-MS: techniques and data evaluation Room 7, Level 3 Gérard Hopfgartner, Patrick Mueller

Since its introduction in the early 90's liquid and supercritical fluid chromatography, using atmospheric pressure ionization, coupled with tandem mass spectrometry (LC-MS, SFC-MS) has become the method of choice in bioanalysis. The goal of this short course is to highlight the benefits and limitations, as well as new developments, of LC-MS and SFC-MS for the analysis of low molecular weight compounds and peptides.

In the first part of the course, the hyphenation of separation sciences with mass spectrometry using electrospray, atmospheric pressure chemical ionization and photoionization is presented. Various current combinations of low- and high-resolution mass instruments and acquisition workflows (e.g. data dependent and date independent acquisition) will be discussed with selected examples.

The second part starts with ion mobility spectrometry, which can be added as an additional separation dimension and various approaches will be presented. Additional MS/MS fragmentation techniques such as ultraviolet photodissociation and electron activated dissociation are described. Quantitative analysis also plays an important role and will be discussed.

The last part of the short course will present data analysis workflows for the general screening of compounds, from feature annotation, feature reduction to library search in large databases.

FULL DAY SHORT COURSE

Coffee breaks and lunch included

SUNDAY, JUNE 15, 2025

SC-10: Designing good reversed phase methods: fundamentals and hands-on practicals Room 4, Level 3 Mel Euerby

The course will be split into two parts: a theory session in the morning and then a practical "handson" session in the afternoon to reinforce the chromatographic principles that have been explained in the morning. The course is aimed at individuals just beginning their chromatographic careers no matter how old they are. The contents will be delivered in an informal and interactive manner. The aims of the course will be to provide the attendees with the relevant chromatographic information to allow them to start to solve chromatographic troubleshooting (not instrumentation), robustness, method development and optimization issues. The course is NOT designed to answer all questions but to set the attendees off in the correct direction to becoming a good chromatographic operating parameters can have a dramatic effect on the performance of your method. In the afternoon, attendees will have the opportunity to virtually use "state of the art" instrumentation to consolidate what they have learnt in the morning.



9:00am – 4:00pm s: fundamentals and hands-on practicals

VENDOR SEMINARS

MONDAY, JUNE 16, 2025

1:15pm - 2:15pm



Agilent Technologies Room 1, level 3

Innovative Workflows in Chromatography: Real-World Applications of the Infinity III LC System <u>Martijn Schuiling</u>, Scientist, Johnson & Johnson Lee Bertram, Agilent Technologies

The recent introduction of the Agilent Infinity III LC platform marks a significant advancement in high-performance liquid chromatography (HPLC), offering enhanced efficiency, sensitivity, and robustness for pharmaceutical, food, and environmental applications. This presentation highlights key innovations within the Infinity III family and demonstrates how they are being successfully integrated into routine laboratory workflows.

Attendees will gain insights into novel hardware and software features that streamline sample preparation, improve data confidence, and simplify maintenance and troubleshooting. A real-world case study will showcase the Agilent 1290 Infinity III Hybrid Multisampler with Feed Injection, demonstrating its ability to optimize peak shape under strong solvent effects without additional sample preparation. The evaluation of varying feed speeds and injection volumes illustrates the system's flexibility and performance. Furthermore, the multisampler's multiple solvent wash capability significantly reduces carryover, supporting high-throughput, low-contamination workflows.

This session will also introduce additional innovations, including highly sensitive and robust MS and fluorescence detectors, and purification with mass-based fraction collection.

Avantor Room 12, level 3

No Sample Prep Analysis utilizing Therapeutic Affinity Sensing Chromatography (TASC™) <u>Fred Regnier</u>, Novilytic, Lafayette Indiana, USA <u>Gemma Lo</u>, Avantor, Reading, UK Process Analytical Technology is a critical component of therapeutic antibodies (mAb, bi-specifics, Antibody Drug Conjugates, etc.) discovery, production, purification, and product formulation. The common practices today require significant sample preparation. Following host-cell removal from fermenter growth media, preparation of a mAb proteoform family for analysis is widely achieved through some form of analyte specific solid phase extraction, followed by enzymatic digestion and quality attribute analysis by LC-MS/MS.

A limitation of this protocol is that it fails to assess Biological Quality Attributes (BQAs) of the intact protein. The technology described in this report advances mAb quality assessment through direct recognition and quantification of multiple, BQA associated structure attributes in a multimodal affinity chromatography format without preliminary sample preparation, solid phase extraction, or column recycling. These assays were achieved in minutes through the use of a fluorophore labeled affinity selector called a Luminon. This allows coding and quantification of therapeutic function conveying structural features within intact mAbs proteoforms.

A defining feature of this approach is that a ~2 kDa fluorophore labeled constant region Luminon (Lc*) affinity selector and similar low Mw secondary affinity selector Luminons (Ls+) are components of a molecular sizing column mobile phase within which the functionality of multiple BQAs is simultaneously appraised. Injection of a ~150 kDa mAb bearing sample leads to rapid mAb and Luminon mixing with concomitant formation of mAb:(Lc/s*/+)2 and [mAb:(Lc/s*/+)2]n complexes that are subsequently resolved during transport to a fluorescence detector. Concentration of the mAb sequestered Lc* Luminon provides the mAb sample titer while the Ls+ to Lc* concentration ratio is mAb fraction of potential therapeutic functionality. The great value in this approach is that it appraises potential therapeutic functionality directly in the intact molecule while circumventing the need for sample preparation. Moreover, the method assesses mAb monomer and aggregate concentration in addition to the therapeutical potential of mAbs in minutes.

Damage to mAbs through host-cell oxidative stress (OS) during synthesis was assessed by sensing associated PTMs, also through feature coding. The mAb titer and PTM to titer ratios saved days and weeks of analysis time in Discovery, Clone Selection, and Process R&D. Similarly, this data would easily be used to proactively sense problems in the fermenter environment in time to address impending problems in production.

Knauer The View, level 4

Discover the power of automation and high-throughput sample analysis and purification!

Automation and high throughput sample processing are key components in the effective use of laboratory equipment in liquid chromatography. With the right equipment, sample processing can be significantly accelerated in both analytical and preparative chromatography. In analytical chromatography, the use of an autosampler is the standard for achieving high sample throughput. However, autosamplers have their limitations when it comes to the analysis of several hundred

samples at a time and more flexibility regarding the use of different wash solutions. The new KNAUER Liquid Handler LH 8.1L brings more automation and higher sample throughput to the lab. We present our latest system configuration for High Throughput Quality Control (HTQC). See how easy it is to automate purification tasks and simplify analytical method development with our KNAUER valves and check out our application examples.



Shimadzu Room 4, level 3

Supercritical Fluid Chromatography Coupled with Mass Spectrometry: A Green and Sustainable Alternative for Pesticide Residue Analysis Víctor Cutillas Juárez, EURL Almeria, Spain

Supercritical Fluid Chromatography (SFC) coupled with Mass Spectrometry (MS) is emerging as a green and sustainable alternative to conventional Reverse Phase Liquid Chromatography-Tandem Mass Spectrometry (RP-LC-MS/MS) for pesticide residue analysis. This study presents a comprehensive comparison between SFC-MS and RP-LC-MS/MS using the same mass spectrometer, evaluating their performance in multiresidue analysis.

Key aspects investigated include the behavior of different pesticide substance groups, as well as the impact of temperature, matrix effects, and sensitivity differences between the two techniques. The results highlight the advantages of SFC-MS, such as reduced solvent consumption, faster analysis times, reduced matrix effects, and enhanced selectivity/sensitivity for certain pesticide classes. These findings support the adoption of SFC as a more sustainable and efficient tool for pesticide residue monitoring.

Software-Aided Method Development and Optimization for SFC separations

Gesa Schad, Shimadzu Europa GmbH, Duisburg, Germany

In the evolving landscape of analytical chemistry, Supercritical Fluid Chromatography (SFC) emerges as a transformative technique, enhancing both efficiency and versatility in compound separation. While computer-assisted method development is a common practice in HPLC, the distinct differences in retention behaviour previously limited its application in SFC—until now. This presentation will explore the use of innovative method development software designed to streamline the workflows of method screening and optimization in analytical SFC. By utilizing a standard peptide mixture as a model sample, we will demonstrate how this approach can elevate SFC method development and expand its practical applications.

TUESDAY, JUNE 16, 2025



Agilent Technologies Room 1, level 3

Guided Workflow and Automation

<u>Bettina Schuhn</u>, Agilent Technologies <u>Yolanda Casas</u>, Global Sales & Marketing Manager, Service Robotics, Life Sciences & Healthcare, ABB Robotics

Guided Workflows and laboratory automation represent the transformation to state-of-the-art scientific research, resulting in enhanced efficiency, accuracy, and reproducibility. While workflow guidance aims to perform manual lab tasks without errors and in a reproducible manner, laboratory automation uses advanced technologies, such as automated instruments, robotic systems & robots, and software solutions. By integration of guided workflows, such as advanced sample tracking solutions, in an automated lab environment, researchers can achieve higher throughput, optimize resource utilization, and maintain stringent quality control.

This presentation will highlight how cutting-edge technologies will reduce human error, accelerate data collection and distribution, and enhance overall research outcomes, paving the way for the future of autonomous laboratory environments.

ThermoFisher

Thermo Fisher The View, level 4

Celebrating 20 years of CAD technology - the past, present, and future

<u>Paul Gamache</u>, Consultant, Liquid Chromatography <u>Frank Steiner</u>, Senior Manager of Product Applications, Thermo Fisher Scientific

Did you know the first Charged Aerosol Detector (CAD) was introduced in 2005? Now two decades later, this near-universal detector is an essential part of the analytical chemist's quantitative toolbox. Join Paul Gamache, one of the original inventors, for a lunchtime seminar celebrating 20 years of CAD technology. His lecture will cover the history of the invention, when the detector found a place for everyday use by separation scientists, and how the CAD compares to ELSD. More technical parts of the talk will showcase why detector settings like the evaporation temperature drive application versatility, and how the power function affects linearity and response curves.



Restek

Room 12, level 3 PFAS: The Chemicals That Never Leave (And the Peaks That Never Show Up)

Per- and polyfluoroalkyl substances (PFAS) are everywhere – in the environment, food, and even the human body. Although they are prevalent in all areas chemists are interested in, their analysis remains a challenge. Different matrices require tailored sample preparation strategies, and the getting sensitivity and selectivity for a given analyte panel requires the choice of the correct analytical column.

In this talk, we explore how modern LC-MS/MS methods can be optimized to reliably guantify PFAS in complex samples; which columns provide the best separation performance, and which sample preparation techniques maximize recovery whilst minimizing matrix effects. We will highlight best practices, common pitfalls, and innovative approaches for robust and precise PFAS analysis - from environmental samples to clinical research.



RIC group Room 4. level 3

How ancient diseases require modern approaches: providing new tools to manage leprosy patients Ole Lagatie - Scientific Director Biomarkers at Janssen

The first recorded description of leprosy is believed to be in the ancient Sanskrit hymns of the Atharva Veda, dating back to approximately 2000 BC. The disease was also described in the Book of Leviticus in the Bible. Despite this long history, it remains one of the most neglected and stigmatized diseases with 200,000 new cases being reported on a yearly basis. Today, leprosy diagnosis relies on clinical signs and symptoms, followed by slit skin smear bacillary index determination, or invasive skin biopsy. Treatment monitoring requires visual inspection of skin lesions with sensory and motor nerve function assessments. Since the 1960s, clinical research regulatory requirements dictate the use of sacrificing multiple mice for the mouse footpad model to determine treatment efficacy. The availability of a simple blood-based biomarker test would allow physicians to detect leprosy, monitor treatment efficacy, and predict relapse/recurrence in a minimally invasive way and possibly eliminate the use of mice in clinical studies evaluating new drug regimens. Using multimodal metabolomics, we identified two bloodbased biomarkers that have the potential to fulfil all these needs. These findings will pave the way for a paradigm shift in how patients with leprosy are being managed, a shift that is urgently needed for one of the most stigmatized but also most neglected diseases in the world.

Studying structure function relation of antibodies using innovative chromatographic and ma spectrometric tools Hilde Stals - Director CMC

Argenx is developing transformative antibodies, engineered at the variable and Fc region, for the treatment of a range of autoimmune diseases with high unmet medical need. This presentation will discuss the exciting analytical journey argenx and RIC embarked on to study structure and function of these unique therapeutic modalities, using innovative chromatographic and mass spectrometric technologies.

WEDNESDAY, JUNE 17



Agilent Technologies Room 1. level 3

Transformative Therapies: Analytical Mastery of GLP-1 RA Drugs and mRNA LNPs Sonja Schneider and Martin Vollmer, Agilent Technologies

GLP-1 receptor agonists are a class of drugs that have recently gained significant attention due to their effective treatment of obesity and other metabolic diseases. With numerous candidates in clinical development, there is a pressing need for in-depth characterization and method development. Lipid nanoparticles (LNPs) have become particularly prominent during the COVID-19 pandemic as vehicles for delivering mRNA drugs into target cells. Analyzing LNPs requires novel analytical approaches and methods to fully characterize these vehicles and ensure the safety and efficacy of the enclosed mRNA.

In this seminar, Agilent will present state-of-the-art solutions in two Biopharma-related talks, addressing the analytical challenges associated with these two emerging drug modalities. LC and LC/MS based techniques hyphenated to different detection possibilities will be used to highlight the specifics related to key workflows to characterize and analyze therapeutic

1:15pm - 2:15pm



Merck Room4, level 3

Narrowing Down Success: The Art of advancing HPLC

Egidijus Machtejevas Petra Lewits

Part 1: Small I.D. – Big impact: The secrets of Capillary-LC

Capillary High-Performance Liquid Chromatography (HPLC) columns enhance sensitivity and sustainability in analytical chemistry by reducing solvent consumption and enabling trace-level analyses. This seminar presents the use of complementary phases, including RPLC, HILIC, and porous graphitized carbon (PGC) LC columns, to address various analytical challenges.

We demonstrate the rapid separation of nucleosides and the integration of Purospher® STAR RP-18e (2 µm) and SeQuant[®] ZIC[®]-HILIC phases in two-dimensional liquid chromatography (2D-LC) for protein digests. Additionally, we investigate the retention behavior of reduced and non-reduced hexose monosaccharides and disaccharides on a Supel[™] Carbon column. Our findings reveal robust retention patterns and emphasize the influence of molecular structure on retention, aiding in glycan profiling.

Part 2: Mastering superficially porous particles: Maximize Efficiency in RP-LC and HILIC

Fused core[®] columns, also known as superficially porous particulate (SPP) columns or CoreShell[®], represent a significant advancement in chromatography technology, maximizing separation power and efficiency for HPLC.

This seminar will present several new additions to the Ascentis[®] Express and BIOshell[™] portfolio, including the Ascentis® Express PCS-C18 and Phenyl-Hexyl columns with positively charged surface (PCS) chemistry for improved peak shapes of basic compounds. We will also introduce the Ascentis[®] Express 120 Å C18 pH+ column, designed for excellent stability in high pH environments (pH 2-12), and the BIOshell[™] Oligo column for superior separation of oligonucleotides. Additionally, the new Ascentis® Express ZIC®-cHILIC columns will be showcased, enhancing the separation of hydrophilic bio-related molecules, including phosphorylated compounds and peptides, with applications in OMICS fields such as metabolomics and glycomics.



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The View, level 4

LC-MS and Light Scattering Solutions for Analysis of GLP-1 Analogs Pawel Bigos, Waters Corporation

Glucagon-like-peptide-1 (GLP-1) analogs have recently gained significant attention as a metabolic regulator for the treatment of type 2 diabetes and obesity. Their increased visibility as weight-loss treatments has driven increased demand and accelerated research into new analogs and delivery methods. This surge in demand has introduced analytical challenges from peptide synthesis, impurity profiling, and stability monitoring, as manufacturers look to drive efficiency and scale-up production. To address these challenges, analytical techniques such as LC-MS and light scattering detectors have become essential tools for characterization of GLP-1 analogs. The discussion will demonstrate the value of orthogonal mass detection for confirming molecular identity and rapidly screening impurities, as well as the importance of light scattering in directly measuring aggregation, mass, stability, and interactions.



Tosoh Bioscience Room 12. Level 3

From Small to Complex Biotherapeutics: **Comprehensive Characterization with SEC and Light Scattering**

Join us to explore how size exclusion chromatography (SEC) combined with multi-angle light scattering (MALS) enables precise and comprehensive characterization of a wide range of biotherapeutics-from peptides and oligonucleotides to mAbs, LNPs, RNA, and gene delivery vectors.

This session will introduce how MALS works and how it can be seamlessly integrated into SEC workflows to provide absolute molar mass, size, and even compositional insights—without relying on calibration standards. You'll learn how to easily generate high-quality data and gain critical information on aggregation and molecular heterogeneity. Whether you're optimizing an existing workflow or exploring new modalities, this seminar offers practical guidance to maximize the value of your SEC analyses.

HPLC 2025 Bruges, Belgium





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ORAL PRESENTATIONS



HPLC 2025 Bruges, Belgium

Sunday, June 15, 2025

Concertgebouw Bruges

:30	WEL	COME	CERE	EMON

8:50		
16:30 17:30	Opening Welcome Jubilee N	Ceremony From the chairs, combined with JFK Huber Lecture, Uwe D. Neue, Iedal and Martin Medal award ceremonies and live entertainment
17:30 18:10	PL01	Unraveling mRNA structure – The coming-of-age of the analytical toolbox Koen Sandra ¹ , Helena Vanluchene ¹ , Kris Morreel ¹ , Jelle De Vos ¹ , Liesa Verscheure ¹ , Ine Vandendriessche ¹ , Piotr Alvarez ¹ , Ruben t'Kindt ¹ , Pat Sandra ¹ 'RIC group, Kortrijk, Belgium
18:10 18:50	PL02	Automating the Analytical Laboratory - Current Developments and Future Perspectives <u>Kerstin Thurow</u> ¹ ¹ Celisca, University Of Rostock, Rostock, Germany

BMCC Exhibition Hall

19:00WELCOME RECEPTION21:00



	Auditorium A+B, Level 1	
08:30 10:15	MO-01	MULTIDIMENSIONAL LC Chairs of the session: Michael Laemmerho
08:30	KN01	Streamlining method development in co Davy Guillarme ¹ , Megane Aebischer ¹ , Sab ¹ University Of Geneva, 1 Rue Michel Servet, Sw
08:55	KN02	Boosting the separation power of LC×L Katharina Wetzel ¹ , <u>Oliver J. Schmitz</u> ¹ , Jaqu ¹ University of Duisburg-Essen
09:15	OR01	Simplifying Method Development in On approach for Orthogonal Condition Sel Soraya Chapel ¹ , Jessy Saint-Auret ² , Maria ¹ Laboratory for Pharmaceutical analysis, Depa KU Leuven, Leuven, Belgium, ² Laboratory for N Pharmacological Sciences, KU Leuven, Leuver
09:35	OR02	Significance of radial dispersion in mod chromatography <u>Rick van den Hurk^{1,2}, Tijmen Bos^{1,2,3}, Dwig</u> ¹ Analytical Chemistry group, HIMS, University of Analytical Sciences Amsterdam (CASA), Amst Adolphus College, Saint Peter, United States
		Csaba Horváth Nominee
09:55	OR03	Direct mRNA Sequence Mapping Using with 2-D LC-MS/MS Jessica Dale ¹ , Ken Cook, Alexander Schw ¹ University of Sheffield, Sheffield, United Kingdo

	Foyer, Lev	vel3
)8:30 10:15	MO-02	LAB AUTOMATION Chairs of the session: Adrian Clarke, Ron F
08:30	KN03	Integrating HPLC and SFC methods into road toward a self-driving laboratory Pascal Mieville ¹ , Ngoc Van Thanh Nguyen Clerc ¹ ¹ EPFL Swiss Cat+, Lausanne, Switzerland
08:55	KN04	Approaching the «dark lab»: Can we run <u>Thorsten Teutenberg</u> ¹ ¹ Institut für Umwelt & Energie, Technik & Analyti
09:15	KN04'	Bridging physical and digital worlds: The automated lab Christian P. Haas ¹ ¹ Agilent Technologies, Waldbronn, Germany
09:35	OR05	Analytical LabAutomation in early drug Tomas Leek ¹ , Lena von Sydow ² , Marta Pa Czechtizky ⁶ ¹ Medicinal Chemistry, ² Research and Developm R&D, ⁵ AstraZeneca, ⁶ Gothenburg, Sweden
09:55	OR06	Al-Enhanced Method Development for Gesa Schad ¹ , Shinichi Fujisaki ² ¹ Shimadzu Europa Gmbh, Duisburg, Germany,





ofer, André de Villiers

omprehensive 2D-LC using a freely accessible tool bine Heinisch²

vitzerland, ²University of Lyon, Lyon, France

.C

ueline Leddin¹, Sven W. Meckelmann¹

line Comprehensive 2D-LC with a New Tool-Based lection

e Pardon^{1,3}, Deirdre Cabooter¹ artment of Pharmaceutical and Pharmacological Sciences, *Nolecular Biodiscovery, Department of Pharmaceutical and n, Belgium, ³Freelance developer, Fukuoka, Japan*

lulation interfaces for two-dimensional liquid

ht Stoll3. Bob Pirok^{1,2,3} of Amsterdam, Amsterdam, the Netherlands, ²Centre for terdam, the Netherlands, ³Department of Chemistry, Gustavus

Online Partial RNase T1 Digestions in Conjunction

wahn, Fiona Rupprecht, Mark Dickman

Peters

o an entirely automated synthetic laboratory : On the

¹, Jean-Charles Cousty¹, Leander Choudhury¹, Elisa

it fully automated?

ik e.V. (IUTA), Bliersheimer Str. 58-60, 47229 Duisburg, Germany

e new role of analytical instrumentation in the

discovery chemistry labs

assamonti³, Manasses Jora⁴, Christian Manz⁵, Werngard

ment, ³Respiratory and Immunology (R&I), ⁴BioPharmaceuticals

Synthetic Peptides and Impurities

²Shimadzu Corporation, Kyoto, Japan

	The View, Level 4		
08:30 10:15	MO-03	COLUMN TECHNOLOGY Chairs of the session: Fabrice Gritti, Tivadar Farkas	
08:30	KN05	Precision Manufacture of Ordered Chromatographic Material Bo Zhang ¹ ¹ Xiamen University, Xiamen, China	
08:55	OR07	Recent Developments in Inert Columns for HPLC Separations of Small Molecule <u>Thomas Walter</u> ¹ ¹ Waters Corporation, Milford, United States	
09:15	OR08	Selection of optimal stationary phase for reversed-phase peptide separations in proteomics: interplay between pore size (60-300 Å) and the length of alkyl ligands (C4, C8, C18) Darien Yeung ¹ , Victor Spicer ² , Oleg Krokhin ² ¹ Princess Maxima Center For Pediatric Oncology, Utrecht, Netherlands, ² University of Manitoba, Winnipeg, Canada	
09:35	OR09	Column Length Optimization in HPLC: Is It the Key to Gradient Separation Success? <u>Krisztián Horváth</u> ¹ ¹ University of Pannonia, Veszprém, Hungary	
09:55	OR10	Revolutionizing HPLC: Columns Coated with Diamond-Like Carbon (DLC) for Superior Separation of Metal-Sensitive Analytes Chuping Luo ¹ , Xiaomei Wu ¹ , Liangxiang Li ¹ , Yan Han ¹ , Deyun Liu ¹ , Hui Yang ¹ , Jack Zhao ¹ ¹ Welch Materials, Songjiang, China	
	Evhibition		

Exhibition Hall

10:15COFFEE BREAK10:45Sponsored by Macherey & Nagel

MACHEREY-NAGEL

Auditorium A+B, Level 1		
MO-04	FUNDAMENTALS Chairs of the session: Kirstzian Horvath, Szcabols Fekete	
KN06	Rebirth of slalom chromatography: separation fundamentals and key applications in cell and gene therapy Fabrice Gritti ¹ , Kevin Wyndham ¹ ¹ Waters Corporation, MILFORD, United States	
KN07	The thermodynamics of liquid chromatograph Attila Felinger ¹ ¹ University of Pécs, Pécs, Hungary	
OR11	Dispersion properties of triply periodic minimal surface (TPMS) supports for LC Carolina Lauriola ¹ , Ali Moussa ² , Gert Desmet ² , <u>Alessandra Adrover¹</u> ¹ Sapienza Università Di Roma, Rome, Italy, ² Vrije Universiteit Brussel, Brussels, Belgium	
OR12	Columns, capillaries and chaos: on the relation between disorder and band broadening <u>Bram Huygens</u> ¹ , Gert Desmet ¹ ¹ Vrije Universiteit Brussel, Belgium	
	Csaba Horváth Nominee	
OR13	Indirect Detection of Non-UV-Absorbing Analytes: Modeling, Application, and Experimental Evaluation Jörgen Samuelsson ¹ , Marek Lesko ¹ , Torgny Fornstedt ¹ ¹ Department of Engineering and Chemical Sciences, Karlstad University, SE-651 88 Karlstad, Sweden	
	Auditoriu MO-04 KN06 KN07 OR11 OR12 OR12	

		Foyer, Level 3	
10 12):45 2:30	MO-05	DATA & ML Chairs of the session: Thorsten Teutenber
10):45	KN08	Strategies to Improve Robustness and Ef and Machine Learning for Comprehens Bob Pirok ¹ , Tijmen Bos ¹ , Nino Milani ¹ ¹ University of Amsterdam, Amsterdam, Netherl
11	1:10	KN09	Digital Transformation of the Analytical Joachim Richert ¹ 'TU Darmstadt, Weinheim, Germany
11	:30	OR14	Digitalization in analytical R&D labs: boo enhancement Ron A.H. Peters ^{1,2,3} ¹ Centre of Analytical Sciences Amsterdam (CA ² University of Amsterdam, van 't Hoff Institute for Science Park 904, 1098 XH Amsterdam, the No Sustainability, Testing, Analytics, and Physics g
11	:50	OR15	StreamFind: open source, agnostic and <u>Ricardo Cunha</u> ¹ , Walter Laurito ² , Steffen ¹ InstitUmwelt & Energie, Technik & Analytik e. V. Informatik, Karlsruhe, Germany
12	2:10	OR16	Reinforcement learning for automated in Leon Niezen ¹ , Pieter Libin ² , Deirdre Cabor ¹ Vrije Universiteit Brussel, Department of Chemic Department of Computer Science, Artificial Intelli Leuven), Department for Pharmaceutical and Pha

	The View, Level 4	
10:45 12:30	MO-06	3D PRINTING & MINIATURIZATION Chairs of the session: Detlev Belder, Adam
10:45	KN10	Theoretical and practical aspects of mi <u>Francesca Rigano</u> ¹ , Luigi Mondello ¹ ¹ ChiBioFarAm Department, University of Mess
11:10	KN11	3D printed devices and components for <u>Michael Breadmore</u> ¹ ¹ University Of Tasmania, Hobart, Australia
11:30	OR17	3D-printed sorbents: optimizing techno <u>Mariusz Belka</u> ¹ ¹ Department of Pharmaceutical Chemistry, Me
11:50	OR18	Technoeconomic and sustainability eva integrated clarification and capture of t <u>Simone Dimartino</u> ¹ , Mariachiara Conti, Yu 'The University Of Edinburgh, Edinburgh, Unite
12:10	OR19	Column Geometry Optimization for Mic Jason Anspach ¹ , Roxana Eggleston-Ran ¹ Phenomenex, Torrance, United States

	Exhibition Hall
13:15	POSTER & EXHIBITION FEST (XXL Coffee break
15:50	Odd numbers

rg, Max Besenhard

fectiveness of Retention-Time Alignment, Peak Tracking ive Two-dimensional Chromatography Separations

ands

Lab - it's Mind over Matter!

osting innovation by efficiency and effectivity

ASA), Science Park 904, 1098 XH Amsterdam, the Netherlands, or Molecular Sciences (HIMS), Analytical-Chemistry Group, etherlands, ³Covestro (Netherlands) B.V., Group Innovation & proup, Sluisweg 12, 5145 PE, Waalwijk, the Netherland

I flexible data processing workflow designer Thoma², Thorsten Teutenberg¹ ((IUTA), Duisburg, Germany, ²FZI Forschungszentrum

method development in liquid chromatography

oter³, Gert Desmet¹

al Engineering, Brussel, Belgium, ²Vrije Universiteit Brussel, igence Laboratory, Brussel, Belgium, ³University of Leuven (KU armacological Sciences, Pharmaceutical Analysis, Leuven, Belgium

n Woolley

iniaturization in Liquid Chromatography

sina, Messina, Italy

or 3D for chemical analysis and separations

ology and geometry for drug extraction

edical University of Gdańsk, Gdańsk, Poland

aluation of 3D printed monolithic adsorbers for therapeutic antibodies uki Abe, Andrew Sinclair, James Pullen ed Kingdom

cro-Flow LC/MS

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13:15 14:15	VENDOR SEMINARS	
	AGILENT (Rooms 1-2, level 3) Innovative Workflows in Chromatography: Real-World Applications of the Infinity III LC System	Agilent Technologies
	SHIMADZU (Rooms 4-5, level 3) Green and Clean: Pioneering Advanced SFC Methods	Excellence in Science
	AVANTOR (Room 12, level 3) No Sample Prep Analysis utilizing Therapeutic Affinity Sensing Chromatography (TASC [™])	✔ avantor [*]
	KNAUER ("The View", level 4) Discover the power of automation and high-throughput sample analysis and purification!	

Auditorium A+B, Level 1

15:50 17:20	MO-07	OLIGOMER SEPARATIONS 1 Chairs of the session: Davy Guillarme, Kelly Zhang
15:50	KN12	Recent advances in 1D- and 2D-LC separations of oligonucleotides - Something old, something new, and some surprises Dwight Stoll ¹ 'Gustavus Adolphus College, Saint Peter, United States
16:15	KN13	Nucleic acid melting temperature and its importance for LC analysis <u>Martin Gilar</u> ¹ ¹ Waters Corporation, Milford, United States
16:40	OR20	Weak to Strong Ion Pairing Elution Gradients to Improve the Selectivity of Oligonucleotide RPLC Separations Szabolcs Fekete ¹ , Mateusz Imiolek ¹ , Matthew Lauber ² ¹ Waters Corporation, Geneva, Switzerland, 2Waters Corporation, Milford, USA
17:00	OR21	Analytical and preparative separations of therapeutic oligonucleotides: Current understanding and challenges Torgny Fornstedt ¹ , Martin Enmark ¹ , Jörgen Samuelsson ¹ , Patrik Forssén ¹ ¹ Karlstad University, Karlstad, Sweden

Fover. Level 3

	T Oyel, Levelo	
15:50 17:20	MO-08	(BIO)PARTICLE SEPARATIONS 1 Chairs of the session: Myeyong Hee Moon, Susanne Boye
15:50	KN14	Asymmetric Flow-Field Flow Fractionation (AF4) for the characterization of biopharmaceuticals Lars Nilsson ¹ ⁷ Lund University, Lund, Sweden
16:15	KN15	Assessment of nanoparticle distributions: divide and conquer <u>Govert Somsen</u> ¹² , Joshka Verduin ¹² , Jordy Kruijswijk ¹² , Tijmen Bos ^{2,3} , Ton Brooijmans ⁴ , Ron Peters ^{2,3,4} , Amin Famili ⁵ , Bob Pirok ^{2,3} , Kevin Jooss ^{1,2} ¹ Vrije Universiteit Amsterdam, Amsterdam, Netherlands, ² Centre for Analytical Sciences Amsterdam (CASA), Amsterdam, Netherlands, ³ University of Amsterdam, Amsterdam, Netherlands, ⁴ Covestro Coating Resins, Waalwijk, Netherlands, ⁵ Genentech, South San Francisco, USA
16:40	OR22	Macroporous Material for the Effective Separation of Extracellular Vesicles, Viruses, and Cells <u>Takuya Kubo</u> ¹ , Eisuke Kanao ² , Tetsuya Tanigawa ² , Yoshiyuki Watabe ³ , Sayaka Yamada-Konishi ¹ , Yasushi Ishihama ² ¹ Kyoto Prefectural University, Kyoto, Japan, ² Kyoto University, Kyoto, Japan, ³ Shimadzu General Service, Inc., Kyoto, Japan

17:00	OR23	In-line coupling of asymmetrical-flow fi scattering (AF4-SAXS) for the quantita nanoparticles
		Roland Drexel ¹ ¹ Postnova Analytics, Landsberg Am Lech, Gerr

	The View, Level 4	
15:50 17:20	MO-09	SFC Chairs of the session: Susan Olesik, Claud
15:50	KN16	From Science-Fiction Chromatography Caroline West ¹ , Clément De Saint Jores ¹ , Shinnosuke Horie ³ ¹ University Of Orléans, Orléans, France, ² Shima Duisburg, Germany
		JFK Huber Lecture Award
16:15	KN17	Breaking Boundaries in Natural Product Lucie Novakova ¹ , Kateřina Plachká ¹ , Veron ¹ Charles University, Faculty of Pharmacy, Depa Králové, Czech Republic
16:40	OR24	Searching for orthogonality: Supercritic Separation Techniques <u>Karine Faure</u> ¹ ¹ Institute of Analytical Sciences (ISA), Universit
17:00	OR25	Enhanced Fluidity or Subcritical Liquid chromatography of biological compour Susan Olesik ¹ , O'Donnell Sylester ¹ , Navid 'Department of Chemistry and Biochemistry, The
	15:50 17:20 15:50 16:15 16:40 17:00	The View 15:50 MO-09 15:50 KN16 16:15 KN17 16:40 OR24 17:00 OR25

Auditorium A+B, Level 1

:30	CHROMATOGRAPHY'S GOT TALENT-SESSION
:50	Audience quiz: Who wants to be a Chromatography
	Finals HPLC Tube competition
	Finals Separation Science Slam competition

Exhibition Hall

18:50 PRE-DINER COCKTAIL 20:00



field-flow fractionation with small angle X-ray ative size-resolved characterization of mRNA

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/ to modern SFC Laurine Réset¹, Benjamin Caux¹, Ramy Abou-Naccoul²,

adzu France, Marne-la-Vallée, France, ³Shimadzu Europa,

t Analysis with SFC-MS nika Pilařová¹, Štefan Kosturko¹, Karel Vraj¹ artment of Analytical Chemistry, Heyrovského 1203, Hradec

cal Fluid Chromatography in Multidimensional

ty of Lyon, France

Chromatographic Separations- the impact on nds

Tabrizi¹ e Ohio State University, 100 West 18th Ave., Columbus, OH 43210

N Millionaire?

Tuesday, June 17, 2025

Auditorium A+B, Level 1	Aud	itori	Jm	A+B	Le	vel 1	
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08:30 10:15	TU-01	LC-MS Chairs of the session: Valerie Gabelica, Lihua Zhang
08:30	KN18	Frontiers of high-resolution accurate mass analysis for LC/MS Alexander Makarov ¹ ¹ Thermo Fisher Scientific, Bremen, Germany
08:55	KN19	How much chromatography is needed for the multimodal mass spectrometric analysis of metabolites and lipids in plasma and urine? <u>Gérard Hopfgartner</u> ¹ ¹ University Of Geneva, Geneva, Switzerland
09:15	OR26	Porous Silicon Micropillar Arrays in Thin-Layer Chromatography for High-Performance Separation and Laser Desorption Ionization Mass Spectrometry Integration <u>Clara Whyte Ferreira</u> ^{1,2,3} , Bastien Cabrera-Tejera ² , Romain Tuyaerts ¹ , Gilles Scheen ¹ , Yannick Coffinier ³ , Gauthier Eppe ² , Edwin De Pauw ² ¹ Incize, Louvain-la-Neuve, Belgium, ² Mass Spectrometry Laboratory (MolSys Research Unit), University of Liège, Belgium, ³ Univ. Lille, CNRS, UMR 8520 - IEMN, Lille, France
		Csaba Horváth Nominee
09:35	OR27	Multimodal Tandem Mass Spectrometry Activation Methods for the Enhanced Screening of Pesticides in Wines and Juices by Column-Switching Liquid Chromatography - Mass Spectrometry Romain Giraud ¹ , Yves Le Blanc ² , Mircea Guna ² , Gérard Hopfgartner ¹ ¹ Unige, Genève, Switzerland, ² SCIEX, Toronto, Canada
09:55		
09.00	OR28	Decoding Tumoral Heterogeneity in Glioblastoma: A Dual HPLC-MS/MS Workflow for Metabolomics in Brain Tumors Christina Brenner ^{1,2} , Lisa Panzenböck ^{1,2} , Sagar Acharya ³ , Cornelius Cadrien ³ , Gilbert Hangel ⁴ , Gunda Köllensperger ¹ ¹ Institute of Analytical Chemistry, Faculty of Chemistry, University Of Vienna, Vienna, Austria, ² Vienna Doctoral School in Chemistry, Faculty of Chemistry, University of Vienna, Vienna, Austria, ³ Department of Neurosurgery, Medical University Of Vienna, Austria, ⁴ High-field MR Center, Department of Biomedical Imaging and Image- guided Therapy, Medical University of Vienna, Austria

Fover. Level 3

08:30 10:15	TU-02	STATIONARY PHASES Chairs of the session: Zhengjin Jiang, Alois Jungbauer			
08:30	KN20	Exploring retention properties and selectivity of different stationary phases for the characterization of natural extracts through ultra-high performance liquid chromatography coupled to high resolution mass spectrometry. Martina Catani ¹ , Davide Barboni ¹ , Desiree Bozza ¹ , Nicoletta Bianchi ² , Brunilda Myftari ³ , Natasha Damiana Spadafora ⁴ , Paola Tedeschi ¹ , Chiara De Luca ¹ , Simona Felletti ⁴ , Luisa Pasti ⁴ , Alberto Cavazzini ¹⁵ ¹ Department of Chemical, Pharmaceutical and Agricultural Sciences; University of Ferrara, Ferrara, Italy, ² Department of Translational Medicine; University of Ferrara, Ferrara, Italy, ³ Department of Pharmacy; University of Medicine, Tirana, Italy, ⁴ Department of Environmental and Prevention Sciences; University of Ferrara, Ferrara, Italy, ⁵ Council for Agricultural Research and Economics (CREA), Rome, Italy			
08:55	KN21	Application of high pH anion exchange chromatography for the separation of carbohydrates <u>Christopher Pohl</u> ¹ ¹ Cap Chromatography Llc, Union City, United States			

09:15	KN21'	Retrospective of the Development of M Techniques Koji Otsuka ¹² 'Osaka Metropolitan University, Osaka, Japan,
09:35	OR30	Construction of Novel Chiral Covalent Org Yuan Chen ¹ ¹ Sichuan University, Chengdu, China
09:55	OR31	New stationary phases for rare earth io Hongdeng Qiu ^{1,2} 'Ganjiang Innovation Academy, Chinese Acade Physics, Chinese Academy of Sciences, Lanzh

I he View	, Level 4
TU-03	CHIRAL Chairs of the session: Alberto Cavazzini, C
KN22	Toolbox for isomer separations in (bio-) <u>Michael Laemmerhofer</u> ¹ , Cornelius Knapp Benedikt Masberg ¹ , Niklas Carstensen ¹ , F ¹ University of Tuebingen, Institute of Pharmace
KN23	Chiral Stationary Phases Based on Poly Silica – Present and Future <u>Tivadar Farkas</u> ¹² ¹ Tbilisi State University, Tbilisi, Georgia, ² Pheno
	Uwe D. Neue Award Winner
OR32	Separation of enantiomers and isotopic Bezhan Chankvetadze ¹
	¹ Tbilisi State University, Tbilisi, Georgia
OR33	¹ Tbilisi State University, Tbilisi, Georgia The potentiality of DMC as an alternativ and retention <u>Simona Felletti</u> ¹ , Greta Compagnin ¹ , Chiar ¹ University Of Ferrara, Ferrara, Italy, ² CREA, Ro
	The View TU-03 KN22 KN23 OR32

	Exhibition Hall
15 45	COFFEE BREAK

Auditoriu	m A+B, Level 1
TU-04	METHOD DEVELOPMENT Chairs of the session: Lucie Novakova, Mar
KN24	A New Generation of LC-Method-Development Peter Schoenmakers ^{1,2} , Bob Pirok ^{1,2} ¹ University of Amsterdam, Amsterdam, Netherlands
KN25	Data Science Tools for Advanced Method E Kevin Schug ¹ ¹ The University Of Texas At Arlington, Arlington,
	Auditoriu TU-04 KN24 KN25

10: 10:

Microscale High Performance Liquid Phase Separation

,²Professor Emeritus, Kyoto University, Kyoto, Japan

ganic Frameworks for Chromatographic Enantioseparation

on separation

lemy of Sciences, Ganzhou, China, ²Lanzhou Institute of Chemical hou, China

Caroline West

pharmaceutical analysis and biosciences pe¹, Ryan Karongo1, Simon Jaag¹, Xiaoqing Fu¹, Min Su¹, ⁻eiyang Li¹ putical Sciences, Tuebingen, Germany

saccharide Derivatives and Superficially Porous

menex, Inc., Torrance, United States

cally labelled compounds: Similarities and differences

ve co-solvent in chiral SFC and its impact on selectivity

ra De Luca¹, Martina Catani¹, Alberto Cavazzini^{1,2} ome, Italy

Enantioselectivity Retention Relationships to Predict -Based Chiral Stationary Phases , Jordy Peeters¹, Fardine Ameli¹, Yvan Vander Heyden¹,

Jordy reelers, rardine Ameri, rvan vander neyden,

dicine and Pharmacy, Department of Analytical Chemistry, ng, Laarbeeklaan 103, 1090 Brussels, Belgium

rià Celia Garcia Alvarez-Coque

opment Tools

lands, ²Centre for Analytical Sciences Amsterdam, Amsterdam,

Development and Prediction in Analytical Measurements

, United States

1	1:30	OR35	HPLC on Autopilot: Al for Self-Driven Method Development Fanyi Duanmu ¹ , Dian Ning Chia ¹ , Luca Mazzei ¹ , Eva Sorensen ¹ , <u>Maximilian Besenhard</u> ¹ ¹ University College London, Department of Chemical Engineering, London, United Kingdom
1	1:50	OR36	Application of Global Models in HPLC Method Development with Serially Coupled Columns José-Ramón Torres-Lapasió ¹ , Pau Peiró-Vila ¹ , María-Celia García-Álvarez-Coque ¹ ¹ University Of Valencia, Burjassot (Valencia), Spain
12:10	2:10	OR37	Knowledge-Informed and Data Driven Method Development in Liquid Chromatography <u>Emery Bosten</u> ^{1,2} , Marie Pardon ¹ , Kai Chen ² , Valerie Koppen ² , Gerd Van Herck ² , Mario Hellings ² , Deirdre Cabooter ¹ ¹ Department for Pharmaceutical and Pharmacological Sciences, Pharmaceutical Analysis, KU Leuven, Leuven, Belgium, ² Therapeutics Development & Supply, Johnson & Johnson Innovative Medicine, Beerse, Belgium
			Csaba Horváth Nominee

	Foyer, Level 3				
10:45 12:30	TU-05	BIOSEPARATIONS Chairs of the session: Ana Garcia Campana, Marianne Fillet			
10:45	KN26	Potential of Immunoaffinity Chromatography and Field-Flow Fraction for the Fractionation and Isolation of Biomacromolecules <u>Marja-Liisa Riekkola</u> ¹ , Evgen Multia ¹ , Thanaporn Liangsupree ¹ , Matti Jussila ¹ , Torgny Fornstedt ² , Patrik Forssén ² ¹ Department of Chemistry, University of Helsinki, Helsinki, Finland, ² Department of Engineering and Chemical Sciences, Karlstad University, Karlstad, Sweden			
11:10	KN27	Fewer animals, Less Waste: Automated Analysis of Organoids and Organ-on-a-Chip System <u>Steven Ray Wilson</u> ¹ ¹ University of Oslo, Norway			
11:30	OR38	Characterization, identification and determination of microbiomes by different separation and spectral techniques Bogusław Buszewski ^{1,2} , Dominika Błońska ² , Michał Szumski ³ ¹ Prof. Jan Czochralski Kuyavian-Pomeranian Research & Development Centre, Krasińskiego 4, Toruń, Poland, ² Nicolaus Copernicus University in Toruń, Faculty of Chemistry, Chair of Environmental Chemistry and Bioanalytics, Gagarina 7, 87-100 Toruń, Poland, ³ Interdyscyplinary Center of Modern Technology, Nicolaus Copernicus University, Wileńska 4, 87 100 Toruń, Poland			
		Martin Medal Winner			
11:50	OR39	Accelerating and Innovating Drug Development Through Analytical Automation, Digital Transformation and AI/ML <u>Tao Chen</u> ¹ ¹ Genentech, Inc., South San Francisco, United States			
12:10	OR40	One- and two-dimensional miniaturized affinity chromatography-mass spectrometry to stud structure-function relation of therapeutic monoclonal antibodies Jelle De Vos ¹ , Evert Van Hoestenberghe ¹ , Urs Lohrig ² , Christian Graf ³ , Pat Sandra ¹ , Koen Sandra ¹ 'RIC group, Kortrijk, Belgium, ² Novartis Pharmaceutical Manufacturing GmbH, Kundl, Austria, ³ Novartis Business Services GmbH, München, Germany			

The View, Level 4	
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10:45 12:30	TU-06	HILIC SEPARATIONS Chairs of the session: David McCalley, Xavier Subirats
10:45	KN28	Molecular Simulations and Retention Measurements of Hydrophilic Interaction Liquid Chromatography (HILIC): How HILIC works <u>Mark Schure</u> ¹ , Hsiao-Feng Liu ² , Chun-Kai Chang ² , J. Ilja Siepmann ² , Stephanie Schuster ³ , Peter Pellegrinelli ³ , William Miles ³ , Tim Horchuck ³ ¹ Kroungold Analytical, Inc., Blue Bell, United States, ² Dept. of Chemistry & Chemical Theory Center and Dept. o Chemical Engineering & Materials Science, Minneapolis, United States, ³ Advanced Materials Technology, Inc., Wilmington, United States

1:10	OR41	Development of amine oxide-containing Tohru Ikegami ¹ , Kento Tsubakihara ¹ ¹ Kyoto Institute Of Technology, Kyoto, Japan
1:30	OR42	The promises of HILIC for intact mRNA- Jonathan Maurer ^{1,2,3} , Matthew A. Lauber ⁴ , Marc François-Heude ³ , Davy Guillarme ¹² ¹ Institute of Pharmaceutical Sciences of Western St of Pharmaceutical Sciences, University of Geneva, Sciences, Sanofi, Marcy l'Etoile, France, ⁴ Waters Co
		Csaba Horváth Nominee
1:50	OR43	Effect of spatial arrangement of zwitteri Zhengjin Jiang ¹ ¹ College of Pharmacy, Jinan University, Guangz
2:10	OR44	Ion-pairing hydrophilic interaction chror impurity profiling of therapeutic phosph <u>Luca Tutiš</u> ^{1,2} , Govert Somsen ^{1,2} , Andrea Ga ¹ Vrije Universiteit Amsterdam, Amsterdam, The (CASA), Amsterdam, The Netherlands, ³ University
	Exhibitior	Hall
3:15	POSTER	& EXHIBITION FEST (XXL Coffee break)

3:15 4:15	VENDOR SEMINARS
	AGILENT (Rooms 1-2, level 3) Transforming laboratories: The Power of Guided V
	RIC GROUP (Rooms 4-5, level 3) Structure function relation of antibodies & new too
	RESTEK (Room 12, level 3) PFAS: The Chemicals That Never Leave (And the F
	THERMO FISHER ("The View", level 4) Celebrating 20 years of CAD technology – the pass

	Auditorium A+B, Level 1	
15:50 17:20	TU-07	PROTEOMICS Chairs of the session: Robert Kennedy, Gu
15:50	KN29	An In-Depth Single-Cell Proteome Ever Ryan Kelly ¹ ¹ Brigham Young University, Provo, United State
16:15	KN30	High-Throughput Spatial Proteome Ana Yue Sun, Haofei Sun, Chao Wang, Dan Liu 'Dalian Institute Of Chemical Physics, Chinese
16:40	KN31	In vivo Protein Footprinting Reveals the of Multiple Tissues in Progressing Alzhe Yates John ¹ , Ahrum Son ¹ , Hyunsoo Kim ² , A Daniel B. McClatchy ¹ , Stuart Lipton ^{3,4,5} ¹ Department of Integrated Structural and Comput ² Department of Convergent Bioscience and Infor Daejeon, Republic of Korea, ³ Department of Mole United States, ⁴ Neurodegeneration New Medicin ⁵ Department of Neurosciences School of Medicin

15:50 Even numbers

g HILIC stationary phase

-based therapeutics analysis ¹, Szabolcs Fekete⁵, Mateusz Imiołek⁵, Camille Malburet³,

Switzerland, University of Geneva, Geneva, Switzerland, ²School , Geneva, Switzerland, ³mRNA Center of Excellence, Analytical Corporation, Milford, USA, ⁵Waters Corporation, Geneva, Switzerland

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matography: a powerful separation technique for norothioated oligonucleotides

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Netherlands, ²Centre for Analytical Sciences Amsterdam rsity of Amsterdam, Amsterdam, The Netherlands

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alysis by Top-down and Bottom-up Strategies u, Yu Liang, Lihua Zhang

Academy Of Sciences, Dalian, China

Dynamic Conformational Changes of the Proteome eimer's Disease

Jolene K. Diedrich¹, Casimir Bamberger¹,

Itational Biology, Scripps Research, Lajolla, United States, rmatics, Chungnam National University, 99 Daehak-ro, Yuseong-gu, ecular and Cellular Biology, The Scripps Research Institute, La Jolla, nes Center, The Scripps Research Institute, La Jolla, United States, ine University of California, San Diego, La Jolla, United States



17:00 OR45 HPLC: a critical component of proteomics in precision medicine Jennifer Van Eyk¹ ⁷Cedars Sinaï Medical Center, Los Angeles, United States

	Foyer, Level 3		
15:50 17:20	TU-08	PREPARATIVE CHROMATOGRAPHY Chairs of the session: Bo Zhang, Chiara De Luca	
15:50	KN32	Preparative and Industrial Chromatography of Viral Gene therapy Vectors, Vaccine and Bionanoparticles <u>Alois Jungbauer</u> ¹ ¹ BOKU University, Vienna, Austria	
16:15	OR46	Optimization of a Simulated Moving Bed (SMB) chromatography system for SMB method development of chiral and non-chiral compounds in analytical scale Yannick Krauke ¹ , Lena Steuter ¹ , Giorgia Greco ¹ ¹ Knauer Wissenschaftliche Geräte GmbH, Berlin, Germany	
16:40	OR47	Simplifying Process Intensification: The Advantages of Multi-Frequency Chromatography Lisa Audoy ¹ ¹ Cromaoak, Porcheville, France	
17:00	OR48	Large Scale Peptide Purifications Never Cease to Astonish	

The View, Level 4

¹Osaka Soda, Osaka, Japan

15:50 17:20	TU-09	PHARMACEUTICAL SEPARATIONS Chairs of the session: Debby Mangelings, Todd Maloney
15:50	KN33	Automated multicolumn screening workflow in ultra-high pressure hydrophilic interaction chromatography for streamlined method development of polar analytes <u>Erik Regalado</u> ¹ , Mohamed Hemida, Rodell Barrientos, Davy Guillarme. Gioacchino Luca Losacco ¹ Merck & Co., Inc., Rahway, United States
16:15	KN34	Boosting sensitivity in drug metabolism research with cutting-edge LC configurations <u>Filip Cuyckens</u> ¹ 'Johnson & Johnson, Beerse, Belgium
16:40	OR49	Multi-Attribute Monitoring for QC release testing of a therapeutic nanobody <u>Gwenael Nys</u> ¹ , Rani Moons ¹ , Lien Gerits ¹ , Hilde de Busser ¹ 'Sanofi, Geel, Belgium
17:00	OR50	Going micro: Pharmacokinetic insulin-profiles obtained from microsampled rat plasma and a microflow LC-MS/MS assay results in higher sensitivity and statistical power, less trauma imposed on animals and fewer animals used, compared to a conventional approach Gaudry Bruno Troché ^{1,2} , Tue Søeborg ² , Thorá Bödvarsdottir ² , Mads Bjelke ² , <u>Nikoline Juul Nielsen 'Dept. Plant and Environmental Sciences</u> , University of Copenhagen, Frederiksberg C, Denmark, ² Global Discovery and Development Sciences, Novo Nordisk, Måløv, Denmark

VIP Room, Level 4

15:50 WORKSHOP & PANEL DISCUSSION17:20 Career Insights

Auditorium A+B, Level 1

17:30 QUO VADIS HPLC IN INDUSTRY-DEBATE18:30

Wednesday, June 18, 2025

	Auditorium A, Level 1	
08:30 10:15	WE-01	METABOLOMICS AND LIPIDOMICS Chairs of the session: Kenji Hamase, Chris
08:30	KN35	Can we combine high-throughput and o <u>Michal Holčapek</u> ¹ , Ondřej Peterka ¹ , Petra ¹ University Of Pardubice, Pardubice, Czech Re
08:55	KN36	Delving into tissue metabolomics Gunda Koellensperger ¹ , Helena Kim ¹ , Chr Fiammetta Di Marco ¹ , Harald Schoeny ¹ ¹ University Of Vienna, Vienna, Austria
09:15	OR51	Improved metabolome coverage with c separation techniques hyphenated with Serge Rudaz ¹² , Sergey Girel, Mathieu Ga Sliwinska ¹ , Isabel Meister ^{1,2} ¹ University of Geneva, Switzerland, ² Swiss Cen
09:35	OR52	Novel Methods for Simultaneously Unta Analysis in One Injection of LC-MS Pengwei Guan ¹ , student Yuting Wang ¹ , <u>Xir</u> ¹ Dalian Institute of Chemical Physics, Chinese A
09:55	OR53	LC-MS Metabolomics. Constraints, Per clinical application <u>Georgios Theodoridis</u> ^{1,2} , Helen Gika ^{1,3} ¹ Biomic_CIRI, Aristotle University Thessaloniki, Thessaloniki, Greece, ³ Dept. Medicine, Aristotle

	Foyer, Level 3	
08:30 10:15	WE-02	SAMPLE PREPARATION Chairs of the session: Stig Pedersen-Bergj
08:30	KN37	Functionalized monoliths for sample pre Valérie Pichon ^{1,2} , Alice Taxil-Paloc ¹ , Lorenz Audrey Combès ¹ ¹ ESPCI Paris - PSL University, Paris, France, ² Sc
08:55	KN38	Automation of flow-based sample treatr Marcela Segundo ¹ ¹ Faculdade de Farmácia da Universidade do Po
09:15	KN38'	Sample preparation and detection all in Gongke Li ¹ ¹ School of Chemistry, Sun Yat-sen University, Gu
09:35	OR55	Efficient strategies for selective precond prior to liquid chromatography-mass spe Emanuela Gionfriddo ¹ , Aghogho Abigail C Danielson ³ , Derek Eitzmann ⁴ , Jared Ande ¹ University At Buffalo, The State University Of N ³ Miami University, Buffalo, United States, ⁴ Iowa S
09:55	OR56	Methods for Therapeutic Oligonucleotic Serum and Cerebrospinal Fluid Samples Sylwia Studzińska ¹ , Szymon Bocian ¹ , Anna Bełdzińska ² ¹ Chair of Environmental Chemistry and Bioanaly Toruń, Toruń, Poland, ² Department of Developm Gdansk, Gdańsk, Poland

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comprehensive lipidomic quantitation? Peroutková¹, Robert Jirásko¹ *public*

ristina Brenner¹, Lisa Panzenboeck¹, Veronika Fitz¹,

conventional and miniaturized approaches for h mass spectrometry Ilmiche¹, Mathis Fiault¹, Valentin Miéville¹, Patrycja Nowak-

ter of Human Applied Toxicology (SCAHT), Switzerland

argeted Metabolome and Targeted Exposome

nyu Liu¹, Guowang Xu¹ Academy of Sciences, Dalian, China

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centration of per- and polyfluoroalkyl substances ectrometry

Diomukoro¹, Erasmus Cudjoe², Ruichao Xie³, Neil erson⁴

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des (Nusinersen) Extraction and Determination in the

a Lemska², Jakub Szymarek², Maria Mazurkiewicz-

lytics, Faculty of Chemistry, Nicolaus Copernicus University in nental Neurology, Faculty of Medicine, Medical University of

	The View, Level 4		
08:30 10:15	WE-03	INDUSTRY STORIES 1 Chairs of the session: Amanda Guiraldelli, Stefan Lamotte	
08:30	KN39	Design and application of Online Liquid Chromatography-Based Process Analytical Technology to Enable Synthetic Peptide Process Development and Manufacturing Steve Groskreutz ¹ ¹ Eli Lily, Indianapolis, USA	
08:55	KN40	Necessity is the Mother of Invention: the challenges of novel pharmaceutical entities and the analytics they inspire Adrian Clarke ¹ ¹ Novartis Pharma AG, Basel, Switzerland	
09:15	OR57	Beyond Conventional Methods: Novel RP-HPLC Method Development for NANOBODY®- Oligonucleotide Silke Vlyminck ¹ , Sarah Greiner ¹ , Kevin O'Connell ¹ , Héloïse Quillay ¹ , Gauthier Husson ¹ , Aurélie Delangle ¹ ¹ Sanofi Ghent, Ghent, Belgium	
09:35	OR58	Innovative Approaches to Tackle Challenges in UHPLC Method Development for Peptides Aromal Asokan ¹ ¹ Johnson & Johnson	
09:55	OR59	Accelerate pharmaceutical analytical method development using digital tools <u>Jufang Wu Ludvigsson</u> ¹ , Paul Ferguson ¹ ¹ AstraZeneca, Molndal, Sweden	
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Auditorium B, Level 1

08:30 09:15		TUTORIAL 1 Chair of the session: Jan Christensen
08:30	TUT-01	Asymmetric flow field-flow fractionation (AF4) coupled to synchrotron small angle x-ray scattering (SAXS) – A new tool for characterization of proteins and nanoparticles Lars Nilsson ¹ ¹ ¹ Lund University, Lund, Sweden

Auditorium B, Level 1

09:15 10:15	WE-03'	SEPARATION MODES 1 Chair of the session: Jan Christensen
09:15	OR156	Liposome electrokinetic chromatography for studies on analyte interactions with cholesterol- and ergosterol-rich membranes Susanne Wiedmer ¹ , Dumidu Perera ¹ , Hanna Lai ¹ , Tuuliina Tuominen ¹ , Valeriia Lishchuk ¹ , Shshir Jaikishan ¹ , Amin Hedayati Moghaddam ² , Juha Mylläri ³ ¹ Department of Chemistry, University Of Helsinki, Helsinki, Finland, ² Department of Chemical Engineering, Islamic Azad University, Iran, ³ Department of Computer Science, University of Helsinki, Finland
09:35	OR157	Quantitative Assessment of Retention Mechanisms for Ionized Compounds in Hydrophilic Interaction Chromatography (HILIC) Yong Guo1 'Fairleigh Dickinson University, Florham Park, United States
09:55	OR158	An innovative photochemical reaction for the in-depth characterization of hempseeds by untargeted lipidomics <u>Andrea Cerrato</u> ¹ , Chiara Cavaliere ¹ , Aldo Laganà ¹ , Carmela Maria Montone ¹ , Enrico Taglioni ¹ , Ann Laura Capriotti ¹ ¹ Department Of Chemistry, Sapienza University Of Rome, Rome, Italy

	Exhibition Hall
10:15 10:45	COFFEE BREAK
	Exhibition Hall
10:15 10:45	TOP-20 POSTER FINALS-PART I

	Auditoriu	im A, Level 1
10:45 12:30	WE-04	HYPHENATION Chairs of the session: Ryan Kelly, Michal Ho
10:45	KN41	SEC-UV-MALS: a valuable tool for monit context of drug design Oceane Bauwens ¹ , Lionel Pochet ² , Carolin Quentin Spiller ³ , Raphael Frederick ³ , <u>Maria</u> ¹ Université de Liège, Liège, Belgium, ² University Belgium
11:10	OR60	Use of Liquid Chromatography Combine Quadrupole Mass Spectrometry for Ana with Coronary Artery Disease and Poten <u>Tomasz Tuzimski</u> ¹ , Szymon Szubartowski Janiszewska ³ , Viorica Railean ^{4,5} , Bogusław ¹ Department of Physical Chemistry, Medical Unive Poland, ³ Department of Cardiac Surgery, Medical Unive Poland, ³ Department of Environmental Chemist Copernicus University, 87-100, Toruń, Poland, ⁴ D Administration, Institute of Veterinary Medicine, Toruń, Poland, ⁵ Centre for Modern Interdisciplin 4, 87-100, Toruń, Poland, ⁶ Professor Jan Czochr Krasinskiego 4, 87-100, Toruń, Poland
11:30	OR61	Advancing Low Flow LC/MS for Single C Microfabricated Pillar Array Columns Jeff Op De Beeck ¹ , Marcel Bühler ² , Emin A Delanghe ³ , Kris Gevaert ² , Ir. Paul Jacobs ¹ ¹ Thermo Fischer Scientific, Ghent, Belgium, ² Ug Bremen, Germany
11:50	OR62	Advancing Non-Target Screening in Envi Chromatographic Stability for Large Sar Processing Workflows Oskar Munk Kronik ¹ , Ryland T. Giebelhaus Nikoline Juul Nielsen ¹ ¹ University of Copenhagen, Frederiksberg, Deni Metabolomics Innovation Centre, Canada
		Csaba Horvath Nominee
12:10	OR63	Ultra-sensitive LC/CE 2D Profiling of N-li <u>Takayuki Kawai</u> ¹ , Takaya Miki ¹ , Suen He ¹ , C Mitsuhiro Kinoshita ² , Nobuaki Matsumori ¹ ¹ Kyushu University, Fukuoka, Japan, ² Kindai Univ

	Foyer, Le	vel 3
10:45 12:30	WE-05	(BIO)PARTICLE SEPARATIONS 2 Chairs of the session: Lars Nilsson, Susan

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toring disruption of self-assembled proteins in the

ne Mathieu³, Juhans Dechenne³, Johan Wouters², anne Fillet¹ of Namur, Namur, Belgium, ³University of Louvain, Louvain,

ed with Fluorescence Detection and Triple alysis of Bisphenols in Pericardial Fluid from Patients ntial Clinical Application

¹, Janusz Stążka², Kamil Baczewski², Daria w Buszewski^{3,6}, Małgorzata Szultka-Młyńska³ iversity of Lublin, Chodźki 4a, 20-093, Lublin, Poland, ersity of Lublin, Jaczewskiego 8 (USK Nr 4), 20-093, Lublin, try and Bioanalytics, Gagarina 7, Faculty of Chemistry, Nicolaus Department of Infectious, Invasive Diseases and Veterinary Nicolaus Copernicus University in Torun, Gagarina 7, 87-100, nary Technologies, Nicolaus Copernicus University, Wilenska ralski Kuyavian-Pomeranian Scientific Technological Centre,

Cell Proteomics with Variable Flow and 50 cm

Araftpoor Araftpoor², Julia Kraegenbring³, Bernard

ent Gevaert Lab, Ghent, Belgium, ³Thermo Fischer Scientific,

ironmental Analysis with LC×LC-HRMS: Assessing mple Sets and Developing Automated Data

s^{2,3}, Selina Tisler¹, Giorgio Tomasi¹, Jan H. Christensen¹,

mark,²University of Alberta, Edmonton, Canada, ³The

inked Glycans by Dual Stacking Strategy Chenchen Liu¹, Sachio Yamamoto², Kohei Torikai¹,

versity, Higashi-Osaka, Japan

ne Wiedmer

10:45	KN42	Beyond Conventional Methods: AF4 for Advanced Analysis of (Bio)Molecular Assemblies <u>Alina Astefanei</u> ^{1,2} , Iro K. Ventouri ^{1,2} , Maria Hayder ^{1,2} , Claudia Zielke ³ , Susanne Boye ⁴ ¹ Van 't Hoff Institute for Molecular Science (HIMS), Universiteit van Amsterdam, Science Park 904, 1098 XH Amsterdam, The Netherlands, ² Centre of Analytical Sciences Amsterdam, Science Park 904, 1098 XH Amsterdam, The Netherlands, ³ Department of Bioengineering, Stanford University, Schools of Medicine and of Engineering, Stanford 94305, CA, USA, ⁴ Polymer Separation Group, Center for Macromolecular Structure Analysis, Leibniz-Institut für Polymerforschung Dresden, Germany
11:10	KN43	Flow FFF-ESI-MS for the Direct Lipid Analysis of Extracellular Vesicles <u>Myeong Hee Moon</u> ¹ 'Yonsei University, Seoul, South Korea
11:30	OR64	Characterization of nanomedicines by asymmetric flow field-flow fractionation Maria Marioli ¹ 'Ardena Nanomedicines, Oss, Netherlands
11:50	OR65	Field-Flow Fractionation for the Characterization and Purification of mi3-SpyCatcher: A Robust Nanoscaffold for Vaccine and Biopharmaceutical Applications Valentina Marassi ^{1,2} , Stefano Giordani ¹ , Anna Placci ¹ , Prof Matteo Calvaresi ¹ , Alberto Danielli ³ , Barbara Roda ^{1,2} , Andrea Zattoni ^{1,2} , Pierluigi Reschiglian ^{1,2} ¹ Department of Chemistry, University of Bologna, Bologna, Italy, ² INBB - Biostructures and Biosystems Nation Institute, Rome, Italy, ³ Department of Pharmacy and Biotechnology, University of Bologna, Bologna, Italy
12:10	OR66	Hydrodynamic Chromatography with Deterministic Lateral Displacement Valentina Biagioni ¹ 'Sapienza University of Rome, Italy

The View Level 4

10:45 WE-06 INDUSTRY STORIES 2 Chairs of the session: Alexandre Grand-Guillaume-Perrenoud, Steve Groskreutz 10:45 KN44 Advancing the analytical toolbox to enable macrocyclic peptide pharmaceutical drug discovery Alexey Makarovi 'Merck & Co. Inc., Boston, United States 11:10 KN45 Bridge over troubled water - How to overcome solvent strength issues in industrial HPLC applications Stefan Lamotte', Mo Legellii 'BASF SE, Ludwigshafen, Germany 11:30 OR67 Utilization of Two-Dimensional Liquid Chromatography for Problem Solving in the Chemical Industry Mubasher Ahmed Bashir', Meng Jing ² , Matthias Pursch ³ 'Analytical Science, Dow Core R&D, Terneuzen, Netherlands, 'Analytical Science, Dow Core R&D, Collegeville, USA, 'Analytical Science, Dow Core R&D, Terneuzen, Netherlands, 'Analytical Science, Dow Core R&D, Collegeville, USA, 'Analytical Science, Dow Core R&D, Wiesbaden, Germany 11:50 OR68 Applications of One and Multidimensional Chromatography in Modern Day Pharmaceuticals CJ Venkatramani' 'Genentech Inc, South San Francisco, United States 12:10 OR69 Navigating the dual challenges of speed and efficiency in automated high-throughput purification (HTP) to accelerate drug discovery José Luis Dores-sousa', Lars Van Eynde', Evelien Renders', Peter J.J.A. Buijnsters'. David Corens' 'Chemistry Capabilities, Analytical and Purification (CCAP), Janssen Pharmaceutica NV, a Johnson & Johnson company, Beerse, Belgium			,
10:45 KN44 Advancing the analytical toolbox to enable macrocyclic peptide pharmaceutical drug discovery Alexey Makarov' Merck & Co. Inc., Boston, United States 11:00 KN45 Bridge over troubled water - How to overcome solvent strength issues in industrial HPLC applications Stefan Lamotte', Mo Legelli' BASF SE, Ludwigshafen, Germany 11:30 OR67 Utilization of Two-Dimensional Liquid Chromatography for Problem Solving in the Chemical Industry Mubasher Ahmed Bashir', Meng Jing², Matthias Pursch³ 'Analytical Science, Dow Core R&D, Terneuzen, Netherlands, ²Analytical Science, Dow Core R&D, Collegeville, USA, 'Analytical Science, Dow Core R&D, Wiesbaden, Germany 11:50 OR68 Applications of One and Multidimensional Chromatography in Modern Day Pharmaceuticals C_J Venkatramani! 'Genentech Inc, South San Francisco, United States 12:10 OR69 Navigating the dual challenges of speed and efficiency in automated high-throughput purification (HTP) to accelerate drug discovery José Luis Dores-sousa', Lars Van Eynde', Evelien Renders', Peter J.J.A. Buijnsters'. David Corens' 'Chemistry Capabilities, Analytical and Purification (CCAP), Janssen Pharmaceutica NV, a Johnson & Johnson company, Beerse, Belgium	10:45 12:30	WE-06	INDUSTRY STORIES 2 Chairs of the session: Alexandre Grand-Guillaume-Perrenoud, Steve Groskreutz
11:10 KN45 Bridge over troubled water - How to overcome solvent strength issues in industrial HPLC applications Stefan Lamotte ¹ , Mo Legelli ¹ 11:30 OR67 Utilization of Two-Dimensional Liquid Chromatography for Problem Solving in the Chemical Industry Mubasher Ahmed Bashir ¹ , Meng Jing ² , Matthias Pursch ³ 11:30 OR67 Utilization of Two-Dimensional Liquid Chromatography for Problem Solving in the Chemical Industry 11:30 OR67 Utilization of Two-Dimensional Liquid Chromatography for Problem Solving in the Chemical Industry 11:40 OR68 Applications of One and Multidimensional Chromatography in Modern Day Pharmaceuticals C.J Venkatramani ¹ 11:50 OR68 Applications of One and Multidimensional Chromatography in Modern Day Pharmaceuticals C.J Venkatramani ¹ 12:10 OR69 Navigating the dual challenges of speed and efficiency in automated high-throughput purification (HTP) to accelerate drug discovery José Luis Dores-sousa ¹ , Lars Van Eynde ¹ , Evelien Renders ¹ , Peter J.J.A. Buijnsters ¹ . David Corens ¹ 'Chemistry Capabilities, Analytical and Purification (CCAP), Janssen Pharmaceutica NV, a Johnson & Johnson company, Beerse, Belgium	10:45	KN44	Advancing the analytical toolbox to enable macrocyclic peptide pharmaceutical drug discovery <u>Alexey Makarov</u> ¹ ¹ Merck & Co. Inc., Boston, United States
11:30 OR67 Utilization of Two-Dimensional Liquid Chromatography for Problem Solving in the Chemical Industry Mubasher Ahmed Bashir ¹ , Meng Jing ² , Matthias Pursch ³ 'Analytical Science, Dow Core R&D, Terneuzen, Netherlands, ² Analytical Science, Dow Core R&D, Collegeville, USA, ³ Analytical Science, Dow Core R&D, Wiesbaden, Germany 11:50 OR68 Applications of One and Multidimensional Chromatography in Modern Day Pharmaceuticals CJ Venkatramani ¹ 'Genentech Inc, South San Francisco, United States OR69 Navigating the dual challenges of speed and efficiency in automated high-throughput purification (HTP) to accelerate drug discovery José Luís Dores-sousa ¹ , Lars Van Eynde ¹ , Evelien Renders ¹ , Peter J.J.A. Buijnsters ¹ . David Corens ¹ Oremistry Capabilities, Analytical and Purification (CCAP), Janssen Pharmaceutica NV, a Johnson & Johnson Company, Beerse, Belgium	11:10	KN45	Bridge over troubled water - How to overcome solvent strength issues in industrial HPLC applications <u>Stefan Lamotte¹</u> , Mo Legelli ¹ ¹ BASF SE, Ludwigshafen, Germany
11:50 OR68 Applications of One and Multidimensional Chromatography in Modern Day Pharmaceuticals CJ Venkatramani ¹ 'Genentech Inc, South San Francisco, United States 12:10 OR69 Navigating the dual challenges of speed and efficiency in automated high-throughput purification (HTP) to accelerate drug discovery José Luís Dores-sousa ¹ , Lars Van Eynde ¹ , Evelien Renders ¹ , Peter J.J.A. Buijnsters ¹ . David Corens ¹ 'Chemistry Capabilities, Analytical and Purification (CCAP), Janssen Pharmaceutica NV, a Johnson & Johnson company, Beerse, Belgium	11:30	OR67	Utilization of Two-Dimensional Liquid Chromatography for Problem Solving in the Chemical Industry Mubasher Ahmed Bashir ¹ , Meng Jing ² , Matthias Pursch ³ ¹ Analytical Science, Dow Core R&D, Terneuzen, Netherlands, ² Analytical Science, Dow Core R&D, Collegeville, USA, ³ Analytical Science, Dow Core R&D, Wiesbaden, Germany
12:10 OR69 Navigating the dual challenges of speed and efficiency in automated high-throughput purification (HTP) to accelerate drug discovery José Luís Dores-sousa ¹ , Lars Van Eynde ¹ , Evelien Renders ¹ , Peter J.J.A. Buijnsters ¹ . David Corens ¹ ¹ Chemistry Capabilities, Analytical and Purification (CCAP), Janssen Pharmaceutica NV, a Johnson & Johnson company, Beerse, Belgium	11:50	OR68	Applications of One and Multidimensional Chromatography in Modern Day Pharmaceuticals <u>CJ Venkatramani</u> ¹ ¹ Genentech Inc, South San Francisco, United States
	12:10	OR69	Navigating the dual challenges of speed and efficiency in automated high-throughput purification (HTP) to accelerate drug discovery <u>José Luís Dores-sousa</u> ¹ , Lars Van Eynde ¹ , Evelien Renders ¹ , Peter J.J.A. Buijnsters ¹ . David Corens ¹ ¹ Chemistry Capabilities, Analytical and Purification (CCAP), Janssen Pharmaceutica NV, a Johnson & Johnson company, Beerse, Belgium

VIP Room, Level 4

10:45	WORKSHOP EDUCATION FOR IMPACT
12.20	Innovata learning in congration colonges

innovate learning in separation sciences

	Auditoriu	m B, Level 1
10:45 11:30		TUTORIAL 2 Chair of the session: Sebastiaan Eeltink
10:45	TUT-02	Ion mobility-mass spectrometry and its <u>Tim Causon</u> ¹ ¹ BOKU University, Vienna, Austria

	Auditoriu	m B, Level 1
11:30 12:30	FP-01	YOUNG SCIENTISTS SHORT ORALS Chair of the session: Sebastiaan Eeltink
11:35	OR111	Non-targeted Analysis of Agrochemical Audrey Dewar ¹ , Pedro Alejandro Segura ¹ ¹ Université De Sherbrooke, Sherbrooke, Canad
11:42	OR112	Chiral chromatography on polysacchar conformational diversity and chiral reco Fardine Ameli ¹ , Yvan Vander Heyden ¹ , Del ¹ Vrije Universiteit Brussel (VUB), Faculty of Mec Applied Chemometrics and Molecular Modellin Belgium
11:49	OR113	An automated platform for the monitorine reactors Sanjay Lama ¹ , Hannes Westphal ¹ , Simon S ¹ Institute of Analytical Chemistry, Leipzig University of Chemistry and Mineralogy, Leipzig University Saarbrücken, Germany, ⁴ Synthesis of Natural-F Research Saarland (HIPS) Helmholtz Centre for
11:56	OR114	Revealing Extensive Glycoform Diversit Separation Strategies Coupled To Mass Sigourney Karijodikoro ¹ , Constantin Blöck Wuhrer ¹ , Elena Domínguez-Vega ¹ ¹ Leiden University Medical Center, Leiden, Nett
12:03	OR115	Sustainable Advances in Therapeutic P Alternative to Acetonitrile in RP-LC Chiara De Luca ¹ , Chiara Nosengo ¹ , Matter Carraro ² , Walter Cabri ³ , Marco Macis ² , All Martina Catani ¹ ¹ Department of Chemical, Pharmaceutical and ² Fresenius Kabi iPSUM, Villadose (RO), Italy, ³ D University of Bologna, Bologna, Italy, ⁴ Council for ⁵ Department of Environmental and Prevention
12:10	OR116	Multi- ² D LC × LC and more for a compre Katharina Wetzel ¹ , Priscilla Nhan, Marvin H Schmitz ¹ University of Duisburg-essen, Essen, Germany (CSIC-UAM), Madrid, Spain
12:17	OR117	Automated Method Development for Hi Integration into Self-Optimizing Flow Re <u>Vinaya Francis¹²</u> , Aravind Senthil Vel ¹ , Julia Niket S Kaisare ² ¹ Nantes Université, CEISAM, CNRS UMR 6230 Engineering, Indian Institute of Technology Mac
12:24	OR118	lonic liquid-functionalized silica-graphe application in microextraction packed s Alessandra Timóteo Cardoso ¹² , Alejandra ¹ Universidade de São Paulo, São Carlos, Brazil, Madrid, Spain

hyphenation

Compounds in Honeybees

ide-based chiral selectors: exploration of their ognition mechanisms using computational methods bby Mangelings¹, Kenno Vanommeslaeghe¹

licine and Pharmacy, Department of Analytical Chemistry, ng, Laarbeeklaan 103, 1090 Brussels, Belgium, Brussels,

ng and screening of microfluidic immobilized enzyme

Schmidt¹, Rico Warias¹, Tanja Gulder^{2,3,4}, Detlev Belder¹ rsity, Leipzig, Germany, ²Institute of Organic Chemistry, Faculty y, Leipzig, Germany, ³Organic Chemistry I, Saarland University, Product Derived Drugs, Helmholtz Institute for Pharmaceutical or Infection Research (HZI), Saarbrücken, Germany

ty Of C1-INH By Nanoscale Liquid Chromatography Spectrometry

hl¹, Christoph Gstöttner¹, Vojtech Franc², Manfred

nerlands, ²Pharming Technologies B.V., Leiden, Netherlands

Peptide Purification: Dimethyl Carbonate as a Green

o Spedicato¹, Laura Magagnato², Giacomo Fogli², Marco berto Cavazzini^{1,4}, Simona Felletti⁵, Antonio Ricci²,

Agricultural Sciences, University Of Ferrara, Ferrara, Italy, Department of Chemistry "G. Ciamician", Alma Mater Studiorum, for Agricultural Research and Economics (CREA), Rome, Italy, Sciences, University of Ferrara, Ferrara, Italy

hensive analysis of European medicinal plants Häßler, Tatyana Tishakova, Lidia Montero, Oliver J.

,²Instituto de Investigación en Ciencias de la Alimentación

igh-Performance Liquid Chromatography for eactors an Spils¹, Daniel Cortes-Borda¹, François-Xavier Felpin¹,

), Nantes, Nantes, France, ²Department of Chemical dras, Chennai, India

ene oxide hybrid sorbent: development and sorbent for multiclass pesticide determination o Cifuentes², Fernando Mauro Lanças¹

²Instituto de Investigación en Ciencias de la Alimentación,

Exhibition Hall

13:15TOP-20 POSTER FINALS-PART II14:15

13:15 14:15	VENDOR SEMINARS		
	AGILENT (Rooms 1-2, level 3) Transformative Therapies: Analytical Mastery of GLP-1 RA Drugs and mRNA LNPs	*	Agilent Technologies
	MERCK (Rooms 4-5, level 3) Narrowing Down Success: The Art of advancing HPLC		Merck
	TOSOH BIOSCIENCE (Room 12, level 3) From Small to Complex Biotherapeutics: Comprehensive Characterization with SEC and Light Scattering	тозон	TOSOH BIOSCIENCE
	WATERS ("The View", level 4) LC-MS and Light Scattering Solutions for Analysis of GLP-1 Analogs		Waters™

Auditorium A, Level 1

14:15 16:00	WE-07	PFAS & ENVIRONMENTAL Chairs of the session: Paola Dugo, Martina Catani
14:15	KN46	Non-Target Screening of Environmental Samples: Strategies for Quantification, Prioritization, and Identification Using LC-HRMS and Multidimensional Chromatography Jan Christensen, Selina Tisler ¹ , Kristoffer Kilpinen ¹ , Nikoline Nielsen ¹ , Thomas Karlsson ¹ , Jonathan Zweigle ¹ , Giorgio Tomasi ¹ ¹ University Of Copenhagen, Denmark
14:40	KN47	Machine learning-assisted liquid chromatography-mass spectrometry analysis for the identification of new contaminants with toxic effects Ting Ruan ¹ , Hao Jiang ¹ , Yu Zhang ¹ , <u>Guibin Jiang¹</u> ¹ Research Center For Eco-environmental Sciences, Chinese Academy Of Sciences, Beijing, China
15:00	OR70	Insights into the composition of aquatic natural organic matter: UPLC-HRMS of SPE fractions with PCA Patricia Forbes ¹ , Boitumelo Nokeri ¹ , Savia Marais ² ¹ University Of Pretoria, Pretoria, South Africa, ² Rand Water, Vereeniging, South Africa
15:20	OR71	Multi-dimensional liquid chromatography coupled to high-resolution mass spectrometry for the assessment of risk and removal of organic micropollutants from wastewater <u>Marie Pardon</u> ^{1,2} , Warich Leekitratanapisan ³ , Soraya Chapel ¹ , Peter de Witte ² , Karel de Schamphelaere ³ , Deirdre Cabooter ¹ ¹ KU Leuven, Laboratory for Pharmaceutical analysis, Department of Pharmaceutical and
15:40	OR72	Maria Hayder ¹ , Cloé Veclin ¹ , Aislinn Ahern ¹ , Aleksandra Chojnacka ¹ , Gert-Jan M. Gruter ¹² , Annemarie P. van Wezel ³ , Alina Astefanei ¹ 'Van 't Hoff Institute for Molecular Sciences, University Of Amsterdam, Amsterdam, Netherlands, ² Avantium BV, Amsterdam, Netherlands, ³ Institute for Biodiversity and Ecosystem Dynamics, University of Amsterdam, Amsterdam, Netherlands

Foyer, Level 3

14:15	WE-08	MICROFLUIDICS
16:00		Chairs of the session: Simone Dimartino, James Grinias

14:15	KN48	Coupling Droplet Microfluidics to LC an Analysis Robert Kennedy ¹ ¹ University Of Michigan, Ann Arbor, United Stat
14:40	KN49	3D printed microfluidic chromatograph <u>Adam Woolley¹, Timothy Skaggs¹, Dallin M</u> Haggard ¹ , Prof. Gregory Nordin ¹ ¹ Brigham Young University, Provo, United State
15:00	OR73	Chip-HPLC, Microfluidic Breadboards, <u>Detlev Belder</u> ¹ ¹ Leipzig University, Leipzig, Germany
15:20	OR74	Realization of vortex chromatography i Dariush Bahrami ¹ , Ilyesse Bihi ¹ , Daniel Bon Stadlober ² , <u>Wim De Malsche¹</u> ¹ µFlow group (Vrije Universiteit Brussel), Bruss mbH, Weiz, Austria
15:40 OR75	Coupling continuous µ-reactors with ch heterogeneously catalysed reactions Hannes Westphal ¹ , Rico Warias ¹ , Detlev E ¹ Institute of Analytical Chemistry, Leipzig Unive	
		Csaba Horváth Nominee

	The View	, Level 4
14:15 16:00	WE-09	LC – IMS & MS/MS Chairs of the session: Oliver Schmitz, Gera
14:15	KN50	New Omnitrap-enabled activation technology Valérie Gabelica ¹ ¹ Unige, Genève, Switzerland
14:40	KN51	Implementing high-resolution ion mobili methods Sabrina M Cramer ¹ , Viktoria Kowarz ² , Diet 'BOKU University, Department of Natural Scien Chemistry, Vienna, Austria, ² BOKU University, D Microbiology and Microbial Biotechnology, Vien
15:00	OR76	How to improve the resolving power in it chromatography for environmental cont Gauthier Eppe, Hugo Muller ¹ , Aurore Schr ¹ MSLab ULiège, Liège, Belgium
15:20	OR77	Isomer-Resolved Metabolomics: Chrom Mass Spectrometry of Radical Cations a Patrick Mueller ¹ , Gérard Hopfgartner ¹ ¹ University Of Geneva, Geneva, Switzerland
15:40	OR78	Coupling Supercritical Fluid Chromatog Chip-Based platform for Rapid Analysis Klaus Welters ¹ , Julius Schwieger ¹ , Christia Detlev Belder ¹ ¹ Leipzig University, Leipzig, Germany, ² Leibniz U
	14:15 14:15 14:40 15:00 15:20 15:40	The View 14:15 WE-09 14:15 KN50 14:40 KN51 15:00 OR76 15:20 OR77 15:40 OR78

	VIP ROC	OM, Level 4
14:15 16:00	WE-13	RECENT ADVANCES Chairs of the session: Simona Feletti, Bogu

Wednesday

nd Ion Mobility Spectrometry for High-Throughput

tes

ny systems

Miner¹, James Holladay¹, Zachary Berkheimer¹, Michael

S

and the Future of Integrated Chemical Processing

in polymeric devices

orstner², Philipp Melchior², Gerburg Schider², Barbara

sels, Belgium, ²Joanneum Research Forschungsgesellschaft

hipHPLC/MS detection for the investigation of

Belder¹ ersity, Leipzig, Germany

ard Hopfgartner

niques for oligonucleotide analysis

lity and mass spectrometry for fast(er) analytical

thard Mattanovich², Stephan Hann¹, <u>Tim Causon¹</u> nces and Sustainable Resources, Institute of Analytical Department of Biotechnology and Food Science, Institute of enna, Austria

on mobility in hyphenation with front end ntaminants neiders¹, Johann Far¹

natography versus Differential Mobility Spectrometry and Protonated Molecules

graphy with Ion Mobility Spectrometry: A Miniaturized

an Thoben², Alexander Nitschke², Stefan Zimmermann²,

Jniversity, Hannover, Germany

uslaw Buszewski

14:15 OR151		HILIC-MS: A Powerful Characterization Method for Biomacromolecule Analysis Annika van der Zon ¹ , Ziran Zhai ¹ , Luca Tutis ¹² , Govert Somsen ² , <u>Andrea Gargano</u> 1 ¹ University Of Amsterdam, Amsterdam, Netherlands, ² VU Amsterdam, Amsterdam, Netherlands
14:40	OR152	Evolution of Ion-Exchange Columns for Biologics Characterization <u>Shanhua Lin</u> ¹ , Shane Bechler, Ryan Cowley ¹ , Brandon Robson ¹ , Ke Ma ¹ , Ken Cook ¹ 'Thermo Fisher Scientific, Sunnyvale, United States
15:00 OR153 T		Towards new approaches for extracellular vesicles purification and lipidome analysis <u>Weronika Hewelt-Belka</u> ¹ , Michał Młynarczyk ¹ , Jorge Matinha-Cardoso ^{2,3,4} , Paulo Oliveira ^{3,5} , Felicj Gajdowska ⁶ , Mikołaj Klimczuk ⁷ , Raphael Ewonde Ewonde ⁸ , Sebastiaan Eeltink ⁸ , Mariusz Belka ⁹ , Danuta Gutowska-Owsiak ⁷ ¹ Department of Analytical Chemistry, Faculty of Chemistry, Gdańsk University of Technology, Gdańsk, Poland, ² MCbiology Doctoral Program, ICBAS – School of Medicine and Biomedical Sciences Abel Salazar, University of Porto, Portugal, ³ CIIMAR – Interdisciplinary Centre of Marine and Environmental Research, University of Porto, Portugal, ⁴ i3S - Instituto de Investigação e Inovação em Saúde, University of Porto, Portugal ⁵ Department of Biology, Faculty of Sciences, University of Porto, Portugal, ⁶ Laboratory of Experimental and Translational Allergology and Pneumology, Medical University of Gdańsk, Poland, ⁷ Laboratory of Experimental and Translational Immunology, University of Gdansk, Intercollegiate Faculty of Biotechnology, University of Gdansk and Medical University of Gdansk, Gdansk, Poland, ⁸ Department of Chemical Engineering, Vrije Universiteit Brussel, Belgium, ⁹ Department of Pharmaceutical Chemistry, Medical University of Gdańsk, Polan
15:20	OR154	Perspectives and Challenges in the Analysis of Radio Pharmaceuticals <u>Claudio Brunelli</u> ¹ , Nicoletta Fabiano ¹ ¹ Advanced Accelerator Applications, a Novartis Company, Colleretto Giacosa, Italy
15:40	OR155	Robots and Analytics: Trends & Advances in Lab Automation <u>Tom Vercammen¹</u> 'Sampleq, Belgium

	Auditorium B, Level 1		
14:15 15:00		TUTORIAL 3 Chair of the session: Ken Broeckhoven	
14:15	TUT-03	Chromatographic strategies for the analytical characterization of cell and gene therapy products Szabolcs Fekete ¹ , Mateusz Imiolek ¹ ¹ Waters Corporation	

	Auditoriu	im B, Level 1
15:00 16:00	FP-02	YOUNG SCIENTISTS SHORT ORALS Chair of the session: Ken Broeckhoven
15:05	OR119	Engineering Multi-Modal Magnetic Nanovitality for PFCs: From Extraction to Degradation with UHPLC-MS/MS Monitoring Uday Shashikumar ¹ , Vinoth Kumar Ponnusamy ¹ ¹ Department of Medicinal and Applied Chemistry, Kaohsiung Medical University, Kaohsiung, Taiwan-807
15:12	OR120	Energetic and kinetic criteria for the use of collision induced unfolding as quality control for biopolymers Thomas Tilmant ¹ , Loic Quinton ¹ , Gauthier Eppe ¹ , Edwin De Pauw ¹ , Johann Far ¹ ¹ University Of Liège, Mass Spectrometry Laboratory (MSlab), Belgium
15:19	OR121	Antibody-drug conjugates: a strategy of purification and characterization <u>Margherita Marino</u> ¹ , Paolo Rovero ¹ , Walter Mier ² , Hendrik Rusche ³ , Anna Maria Papini ¹ ¹ Interdepartmental Research Unit of Peptide & Protein Chemistry & Biology, Departments of Chemistry "Ugo Schiff" and NeuroFarba, University of Florence, 50019-Sesto F.no, Italy, Sesto Fiorentino (FI), Italy, ² Radiopharmaceutical Chemistry, University Clinic of Heidelberg, Neuenheimer Feld 400 69120 Heidelberg Gebaude 6400, Germany, Heidelberg, Germany, ³ Fischer Analytics GmbH, Saarlandstrasse 377, 55411-Bingen, Germany, Bingen am Rhein, Germany
15:26	OR122	Improving robustness and applicability of TRLC Adriaan Ampe ¹ , Ken Broeckhoven ² , Frederic Lynen ¹ ¹ Ghent University, Ghent, Belgium, ² VUB, Brussels, Belgium

15:33	OR123	Nanoflow Size Exclusion Chromatograp and Protein Complexes Ziran Zhai ¹ , Andrea F.G. Gargano ¹ ¹ University of Amsterdam, Netherlands
15:40	OR124	The First Cut is the Deepest: In-Depth G Mesenchymal Stem Cells Using 2D-LC-I Amirreza Dowlati Beirami ¹² , Antonio Brand Egger ⁴ , Ursula Hiden ⁵ , Evelyn Rampler ¹² ¹ Department of Analytical Chemistry, Faculty of Che Austria, ² Vienna Doctoral School in Chemistry (Dos Austria, ³ Department of Biotechnology and Food S of Natural Resources and Life Sciences, Vienna, Au Hannover, Hannover, Germany, ⁵ Department of Ob
15:47	OR125	Benchmarking EAD spectra of lipids three samples <u>Marlene Puehringer</u> ^{1,2} , Leonida M. Lamp ³ , L ¹ Department of Analytical Chemistry, Faculty of Vienna, Vienna Doctoral School in Chemistry (D ³ Institute of Pharmaceutical Sciences, University University of Graz, Graz, Graz
15:54	OR126	Normal-phase HPLC as a superior alterr removal in mineral oil aromatic hydrocar Aleksandra Gorska ¹ , Grégory Bauwens ¹ , N ¹ Analytical Chemistry Laboratory, Gembloux Agr of Chemical, Pharmaceutical, and Agricultural Sc

	Exhibition Hall
16:00	COFFEE BREA
16:30	

Auditorium A, Level 1		
WE-10	OLIGOMER SEPARATIONS 2 Chairs of the session: Martin Gilar, Filip Cuy	
KN52	Analysis of Diastereomers of Oligonucle Kelly Zhang ¹ ¹ Genentech Inc., United States	
KN53	Rapid Oligonucleotide Analysis using Sa Jared Anderson ¹ 'lowa State University, Ames, United States	
OR79	sgRNA single nucleotide resolution by id Joshua Jones ¹ , Todd Maloney ¹ Eli Lilly And Co., Indianapolis, United States	
OR80	Why a complementary analytical toolbo determination <u>Tiny Deschrijver</u> ¹ , Laure-Elie Carloni ¹ , Kirster ¹ Johnson And Johnson, Turnhout, Belgium	
OR81	Validity of Reversed Phase Ion Pair Liques siRNA Oligonucleotides Lucy Durham ¹ , Joanna Hemming Taylor ¹ , I ¹ Early Chemical Development, Pharmaceutical	
	Auditoriu WE-10 KN52 KN53 OR79 OR80 OR80	

	Foyer, Le	evel 3
16:30 18:15	WE-11	INSTRUMENT HARDWARE & DETECT Chairs of the session: Michael Breadmore

phy – Native Mass Spectrometry of Intact Proteoforms

Alycosphingolipid Characterization in Human HRMS

chaccio¹, Linda Johnsen³, Cornelia Kasper³, Dominik

nemistry, University of Vienna, Waehringer Str. 38, 1090, Vienna, SChem), University of Vienna, Waehringer Str. 42, 1090, Vienna, Science, Institute of Cell and Tissue Culture Technologies, University ustria, ⁴Institute of Cell Biology and Biophysics, Leibniz University bstetrics and Gynaecology, Medical University of Graz, Graz, Austria

rough pattern matching of labeled and unlabeled yeast

Lisa Panzenboeck^{1,2}, Juergen Hartler^{3,4}, Evelyn Rampler¹ f Chemistry, University of Vienna, Vienna, Austria, ²University of DoSChem), Waehringer Str. 42, 1090 Vienna, Vienna, Austria, ty of Graz, Graz, Austria, ⁴Field of Excellence BioHealth –

native to epoxidation for biogenic interferences rbon analysis in food

Marco Beccaria², Prof. Giorgia Purcaro¹ ro-Bio Tech, University of Liège, Gembloux, Belgium, ²Department ciences (DOCPAS), University of Ferrara, Ferrara, Italy

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eotides: Strategies and Technologies

ample Preparation and HPLC

on-pairing reversed phase chromatography

ox is essential for correct siRNA duplex content

n Ryvers¹, Bart Noten¹, Lukas Strattman¹, Thomas De Vijlder¹

id Chromatography for Non-Denaturing Analysis of

Edward Ahearne¹, Faith Eldred-Butler¹, David Whittaker¹ Sciences, AstraZeneca, Macclesfield, United Kingdom

FION e, Kevin Schug

		James Grinias ¹ ¹ Rowan University, Glassboro, United States
16:55	55 OR82 Portable ion chromatograph for simultaneous in-field analysis of ammonium, nitrate an nitrite in agricultural samples and industrial wastewaters <u>Brett Paull</u> ¹ , Kurt Debruille ¹ , Yonglin Mai ¹ , Eoin Murray ² ¹ Australian Centre for Research on Separation Science (ACROSS), University Of Tasmania, Sandy Bay Australia, ² Research and Development, Aquamonitrix Ltd, Tullow, Ireland	
17:15	OR83	Exploiting the potential of X-Ray Fluorescence spectroscopy: a novel flow-through HPLC detector for universal elemental detection <u>Gaëlle Spileers</u> ¹ , Pieter Tack ² , Laszlo Vincze ³ , Frédéric Lynen ¹ ¹ Separation Science Group, Department of Organic and Macromolecular Chemistry, Ghent University, Gent, Belgium, ² Ghent University Centre for Tomography (UGCT), Department of Physics and Astronomy, Ghent University, Gent, Belgium, ³ X-ray Microspectroscopy and Imaging Group, Department of Chemistry, Ghent University, Gent, Belgium
		Csaba Horváth Nominee
17:35	OR84	Development of a Portable Capillary Electrophoresis System for On-Site Analytical Applications Giacomo Musile ¹ , Marc-Aurèle Boillat ¹ , Götz Schlotterbeck ² , Peter C. Hauser ¹ ¹ Department of Chemistry, University of Basel, Basel, Switzerland, ² Institute of Forensic Medicine, University of Basel, Basel, Switzerland
17:55 OR85 On-line Sample Introduction and Detection Methods for Small Footp M. Lee ¹ , <u>Greg Ward¹</u> , M. Morse ¹ , E. Gates ¹ , T. Truong ¹ ⁷ Axcend, Lehi, USA		On-line Sample Introduction and Detection Methods for Small Footprint Capillary LC M. Lee ¹ , <u>Greg Ward¹</u> , M. Morse ¹ , E. Gates ¹ , T. Truong ¹ ¹ Axcend, Lehi, USA
	The Viev	v, Level 4
16:30 18:15	WE-12	MODELLING & AI Chairs of the session: Attila Felinger, Bob Pirok
16:30	OR86	Gas Chromatography with a Twist Valentina Biagioni ¹ , Bram Huygens ² , Desmet Gert ² , <u>Stefano Cerbelli¹</u> 'Sapienza Univeristà Di Roma - Dipartimento di Ingegneria Chimica Materiali Ambiente, Roma, Italy, ² Vrije Universiteit Brussel - Dept. of Chemical Engineering, Brussel, Belgium
16:55	OR87	Numerical Investigation of Spiky Particles as a Novel Support Structure for UHPLC Sander Deridder ¹ , Yassine El Alali ¹ , Gert Desmet ¹ ¹ Vrije Universiteit Brussel, Brussels, Belgium
17:15	OR88	Modern chromatography for non-target screening and (statistical) data handling concepts <u>Thomas Letzel</u> ¹ , Stefan Bieber ¹ ¹ AFIN-TS, Augsburg, Germany
17:35	OR89	Data-Driven Insight: Deep Learning Revolutionizes Separation in Proteomics <u>Katerina Hruzova</u> ¹ , Alexander Kensert ^{2,3} , Robbin Bouwmeester ^{2,3} , Lennart Martens ^{2,3} , Jiri Urban ¹ ¹ Masaryk University, Brno, Czech Republic, ² VIB-UGent Center for Medical Biotechnology, VIB, Ghent, Belgium, ³ Department of Biomolecular Medicine, Ghent University, Ghent, Belgium

Data Science meets Chromatography: Predicting chiral separations in SFC using Machine

¹Early Chemical Development, Pharmaceutical Sciences, Biopharmaceuticals R&D, AstraZeneca, Gothenburg,

Sweden, ²Data Science & Modeling, Pharmaceutical Sciences, Biopharmaceuticals R&D, AstraZeneca,

Astrid Buica^{1,2}, Christoph Bauer², Kristina Öhlén¹, Hanna Leek¹

Analyzing Complex Samples with Compact Capillary LC

	Auditoriu	ım B, Level 1
17:15 18:15	FP-03	YOUNG SCIENTISTS FLASH PRESEN Chair of the session: Frederic Lynen
17:20	OR127	From discovery to quantitation: develop approach for liquid biopsy of Hepatocell Danila La Gioia ^{1,2} , Fabrizio Merciai ¹ , Eduard ¹ University of Salerno, Italy, Italy, ² PhD Program i Fisciano, (SA) Italy
17:27	OR128	Unveiling the Altered Protein Landscape Infected Dendritic Cells using Nanoflow Shubham Kaushik ¹ , Ritesh Khanna ^{1,3} , Hele Lieskovská ³ , Christof Regl ¹ , Nicole Meisne ¹ Department of Biosciences & Medical Biology, Austria, ² Ludwig Boltzmann Institute for Nanove Medical Biology, Faculty of Science, University of
17:34	OR129	Porous polyamide 3D-printed devices for Dagmara Kroll ¹ , Phaedra Verding ^{2,3} , Debby Eeckhaut ³ , Gino V. Baron ⁴ , Tomasz Bącze ¹ Department of Pharmaceutical Chemistry, Medic Chemistry, Applied Chemometrics and Molecular ³ Research group of Experimental Pharmacology Brussels, Belgium, ⁴ Department of Chemical Engli
17:41	OR130	Theoretical Prediction of the Optimal Su Structures <u>Ali Moussa¹</u> , Alessandra Adrover ² , Gert De ¹ Vrije Universiteit Brussel, Brussels, Belgium, ² Sa
17:48	OR131	Aureobasidium pullulans: A promising so space of polyol lipids by HPLC-HRMS <u>Philipp Otzen</u> ¹ , Vera Schwantes ¹ , Tiago Va ¹ Institute of Inorganic and Analytical Chemistry,
17:55	OR132	Selective Glycoform Separations of Inta Stationary Phases <u>Annika van der Zon</u> ^{1,2} , Loïs Hana ^{1,2} , Huda H ¹ University of Amsterdam, Amsterdam, Netherlands
18:02	OR133	Downscaling HPLC-MS(/MS): paving the Fiammetta Di Marco ¹ , Rupert Mayer ² , Hara ¹ Department of Analytical Chemistry, Faculty of Cl Molecular Biotechnology (IMBA), Austrian Academ ³ Research Institute of Molecular Pathology (IMP), of Molecular Plant Biology (GMI), Austrian Academ
18:09	OR134	Online LCxSFC : how to make a success Margaux Sanchez ^{1,2} , Julien Crepier ² , Karin ¹ Université Claude Bernard Lyon 1, ISA UMR 522 Centre de Recherches de Solaize TotalEnergie

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19:00 23:30	CONFERENCE DINNER

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Learning

17:55 OR90

16:30	TUTORIAL 4
17:15	Chair of the session: Frederic Lynen

Gothenburg, Sweden

Csaba Horváth Nominee

16:30 KN54

TATIONS

oment and optimization of a fast targeted HILIC-HRMS **lular** Carcinoma

do Sommella¹, Pietro Campiglia¹ in Drug Discovery and Development, University of Salerno,

e in Extracellular Vesicles Released from TBEV--UHPLC Coupled to Mass Spectrometry

ena Langhansová³, Zuzana Beránková³, Jaroslava er-Kober^{1,2}, Christian Huber^{1,2}

University of Salzburg, Hellbrunnerstrasse 34, 5020, Salzburg, esicular Precision Medicine, Salzburg, Austria, ³Department of of South Bohemia, České Budějovice, Czech Republic

or the extraction of hydrophilic compounds

y Mangelings², Yvan Vander Heyden², Ann Van ek¹, Mariusz Belka¹

cal University of Gdańsk, Gdańsk, Poland, ²Department of Analytical r Modelling (FABI), Vrije Universiteit Brussel, Brussels, Belgium, (EFAR), Center for Neurosciences (C4N), Vrije Universiteit Brussel, ineering, Vrije Universiteit Brussel, Brussels, Belgium

upport Shape for 3D Ordered Liquid Chromatography

esmet¹ apienza Università di Roma, Rome, Italy

ource of biosurfactants – Deciphering the chemical

anacker¹, Heiko Hayen¹ University Münster, Münster, Germany

act Monoclonal Antibodies by Acrylamide Monolithic

lusein^{1,2}, Andrea Gargano^{1,2} ands, ²Centre of Analytical Sciences Amsterdam, Amsterdam,

ne way for single-cell lipidomics analysis

ald Schoeny¹, Karl Mechtler^{2,3,4}, Gunda Koellensperger¹ hemistry, University of Vienna, Vienna, Austria, ²Institute of emy of Sciences, Vienna BioCenter (VBC), Vienna, Austria, Vienna BioCenter (VBC), Vienna, Austria, ⁴Gregor Mendel Institute my of Sciences, Vienna BioCenter (VBC), Vienna, Austria

sful coupling?

ne Faure¹ 80, CNRS, Villeurbanne, France, ²TotalEnergies OneTech, s, Solaize, France

Thursday, June 19, 2025

	Auditoriu	Auditorium A, Level 1			
08:30 10:15	TH-01	SEPARATION MODES 2 Chairs of the session: Govert Somsen, Tohru Ikegami			
08:30	KN55	A study of the potential of peraqueous liquid chromatography (PALC) as a green chemistry analytical approach David McCalley ¹ , James Heaton ² , Stephan Buckenmaier ³ ¹ University of the West of England, Bristol, Bristol, United Kingdom, ² GSK, Stevenage, United Kingdom, ³ Agilent Technologies, Waldbronn, Germany			
08:55	OR91	Getting the best out of CE and CE-MS using polyelectrolyte multilayer capillary coatings Laura Dhellemmes ¹ , Laurent Leclercq ¹ , Alisa Höchsmann ² , Christian Neusüß ² , Michel Martin ³ , <u>Herve Cottet</u> ¹ 'IBMM, University of Montpellier, Montpellier, France, ² Faculty of Chemistry, Aalen University, Aalen, Germany, ³ PMMH, CNRS, ESPCI Paris-PSL, Sorbonne Université, Université de Paris, Paris, France			
09:15	OR92	Field-Flow Fractionation of Polymersomes: Cracking the Conformation Code <u>Susanne Boye</u> ¹ , Silvia Moreno ^{1,2} , Dietmar Appelhans ¹ , Lars Nilsson ³ , Albena Lederer ^{1,4} ¹ Leibniz Institute For Polymer Research Dresden, Dresden, Germany, ² University of Alcalá, Madrid, Spain, ³ Lund University, Lund, Sweden, ⁴ Stellenbosch University, Stellenbosch, South Africa			
09:35	OR93	Streamlining Biosimilar Development: Rapid and Robust Charge-Variant and Glycoform Assessment by Microfluidic CE-MS <u>Ruben Cageling</u> ^{1,2,3} , Sara Carillo ⁴ , Anja Boumeester ² , Karin Lubbers-Geuijen ² , Jonathan Bones ^{4,5} , Kevin Jooß ^{1,3} , Govert Somsen ^{1,3} 'Division of BioAnalytical Chemistry, Department of Chemistry and Pharmaceutical Sciences, Vrije Universiteit Amsterdam, Amsterdam, The Netherlands, ² Protein Purification & Characterization, Polpharma Biologics Utrecht, Utrecht, The Netherlands, ³ Centre for Analytical Sciences Amsterdam (CASA), Amsterdam, The Netherlands, ⁴ National Institute for Bioprocessing Research and Training (NIBRT), Dublin, Ireland, ⁵ School of Chemical and Bioprocess Engineering, University College Dublin, Dublin, Ireland			
09:55	OR94	Development of a comprehensive two-dimensional liquid chromatography combining top- down and bottom-up protocols <u>Jiri Urban</u> ¹ , Anna Kosmakova ¹ , Aryna Paulenka ¹ ¹ Masaryk University. Brno. Czech Republic			

Fover,	Level	3

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08:30 10:15	TH-02	GC Chairs of the session: Luigi Mondello, Frederic Lynen	
08:30	KN56	GC and GC×GC in 2025 Jef Focant ¹ ¹ University Of Liège, Liège, Belgium	
08:55	KN57	GC-BASED HYPHENATED TECHNIQUES IN FOOD ANALYSIS <u>Giorgia Purcaro</u> ¹ ¹ University Of Liège, Gembloux Agro-Bio Tech, Gembloux, Belgium	
09:15	OR95	GC-HRMS and GC×GC-HRMS, versatile tools for characterization of complex matrices and quantification of targeted compounds Pascal Cardinael ¹ , Saida Belarbi ¹ , Amel Meziani ¹ , Victoria Bohm ¹ , Marie Vaccaro ¹ , Valerie Peulon- Agasse ¹ ¹ University of Rouen Normandy, Laboratoire SMS-UR3233, FR3038, Place Emile Blondel, F-76000, Rouen, France, Mont-Saint-Aignan, France	
09:35	OR96	Untargeted flavor profiling of beer, our national product, with high analytical performance and a green touch? <u>Tatiana Cucu</u> ¹ , Pat Sandra ¹ ¹ BIC-group, Kortrijk, Belgium	

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	The View	, Level 4
08:30 10:15	TH-03	EUCHEM SAMPLE PREPARATION Chairs of the session: Elia Psillakis, Marcela
08:30	KN58	Electromembrane extraction prior to liquesting Pedersen-Bjergaard ² ¹ University of Oslo, Oslo, Norway, ² University of Oslo
08:55	KN59	Automated analyses of volumetrically constrained analyses of volumetrically constrained analysis of volumetrical by constrained and the second
09:15	OR98	Deep Eutectic Solvents and Chromatog Lorena Vidal ^{1,2} , Iván Rubio ^{1,2} , Cristina Zapa ¹ Departamento de Química Analítica, Nutrición Universidad de Alicante, 03080, Alicante, Spain Dr. Balmis, Instituto de Investigación Sanitaria y
09:35	OR99	Smart samplers: A 'spot-on' approach to biological samples <u>Trine G Halvorsen</u> ¹ , Léon Reubsaet ¹ ¹ University of Oslo, Oslo, Norway
09:55	OR100	Volumetric absorptive microsampling m preclinical drug research Petra Štěrbová-Kovaříková ¹ , Adam Reguli Petra Kollárová-Brázdová ² , Martin Štěrba ¹ Faculty of Pharmacy in Hradec Králové, Charles Medicine in Hradec Králové, Charles University, University of Oslo, Oslo, Norway, ⁴ Department of of Copenhagen, Copenhagen, Denmark

	Auditorium B, Level I	
08:30 09:15		TUTORIAL 5 Chair of the session: Ken Broeckhoven
08:30	TUT-05	No molecule is above the law (no matter Peter Schoenmakers ¹ ¹ University Of Amsterdam, Amsterdam, Nether

	Auditoriu	m B, Level 1
09:15 10:15	FP-04	YOUNG SCIENTISTS FLASH PRESENT Chair of the session: Ken Broeckhoven
09:20	OR135	Artificial Neural Networks-Driven Elucid Chromatography-Mass Spectrometry Katerina Plachka ¹ , Veronika Pilarova ¹ , Tata Novakova ¹ ¹ Charles University, Faculty of Pharmacy, Hrade SMODD Team, CNRS, Toulouse III Paul Sabatie
09:27	OR136	Combination of HPLC and SLIM: An extr Cedric Thom ¹ , Sven W. Meckelmann ¹ , Oliv ¹ University Of Duisburg-Essen - Applied Analyti

la Segundo

juid chromatography

Copenhagen, Copenhagen, Denmark

ollected dried blood spot samples

sala¹, Manuel Miro² Academy of Sciences, Brno, Czech Republic, ²FI-TRACE Group, earic Islands, Palma de Mallorca, Spain

raphy: A Good Combination?

ater¹, Miguel Ángel Aguirre¹, Antonio Canals¹ y Bromatología e Instituto Universitario de Materiales, in, ²Laboratorio de Investigación, Hospital General Universitario y Biomédica de Alicante (ISABIAL), 03080, Alicante, Spain

o simplify LC-MS analysis of proteins from dried

neets microextraction for the first time to advance

i¹, Hana Bavlovič Piskáčková¹, Olga Lenčová-Popelová², ², Stig Pedersen-Bjergaard^{3,4}

es University, Hradec Králové, Czech Republic, ²Faculty of

, Hradec Králové, Czech Republic, ³Department of Pharmacy, of Pharmacy, Faculty of Health and Medical Sciences, University

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dation of Ionization Processes In Supercritical Fluid

ana Gazarkova¹, Jean-Christophe Garrigues², Lucie

ec Kralove, Czech Republic, ²SOFTMAT (IMRCP) Laboratory, er University, Toulouse, France

remely powerful analysis platform ver J. Schmitz¹ tical Chemistry, Essen, Germany

09:34	OR137	In silico simulations to investigate the enantiorecognition mechanism in liquid chromatography: a case study with a dipeptide and four zwitterionic Cinchona alkaloid-based chiral stationary phases Ina Varfaj ¹ , Magdalena Labikova ² , Elisa Bianconi ¹ , Antonio Macchiarulo ¹ , Michal Kohout ² , Leonid Asnin ³ , Roccaldo Sardella ¹ , Andrea Carotti ¹ ¹ University Of Perugia, Perugia, Italy, ² University of Chemistry and Technology, Prague, Czech Republic, ³ Perm National Research Polytechnic University, Perm, Russia
09:41	OR138	Quantification of affinity constants between pentamidine and pentamidine-like compounds with RNA probes representative of myotonic dystrophy type 1 by Affinity Capillary Electrophoresis <u>Mathieu Leveque</u> ¹ , Mathilde Wells ¹ , Stéphanie Hambye ¹ , Victor Lefebvre ¹ , Delphine Beukens ¹ , Bertrand Blankert ¹ ¹ University Of Mons, Mons, Belgium
09:48	OR139	Microsampling vs. Chemical Biopsy: A Comparative Study on Tissue Metabolome Extraction <u>Helena Kim</u> ¹² , Joanna Bogusiewicz ⁴ , Harald Schoeny ¹ , Fiametta di Marco ¹ , Natalia Treder ⁵ , Barbara Bojko ⁴ , Janusz Pawliszyn ⁵ , Gunda Koellensperger ¹³ ¹ Department of Analytical Chemistry, Faculty of Chemistry, University of Vienna, Waehringer Str. 38, 1090, Vienna, Austria, ² University of Vienna, Vienna Doctoral School in Chemistry (DoSChem), Waehringer Str. 42, 1090, Vienna, Austria, ³ Vienna Metabolomics Center (VIME), University of Vienna, Althanstr. 14, 1090, Vienna, Austria, ⁴ Department of Pharmacodynamics and Molecular Pharmacology, Faculty of Pharmacy, Collegium Medicum in Bydgoszcz, Nicolaus Copernicus University in Torun, Dr. A. Jurasza 2, Bydgoszcz 85-089, Poland, ⁵ Department of Chemistry, University of Waterloo, 200 University Avenue West, Waterloo, ON, Canada N2L 3G1
09:55	OR140	Asymmetric Flow Field Flow Fractionation (AF4) and Consequent Pyrolysis Gas Chromatography/Mass Spectrometry (Py-GC/MS): A Powerful Off-line Analytical Workflow to Characterize Nanoplastics Xiaoyu Zhang, Geraldine Dumont, Kristof Tirez, Adrian Covaci, Stefan Voorspoels, Milica Velimirovic 'VITO, Mol, Belgium, ² University of Antwerp, Antwerp, Belgium
10:02	OR141	Advanced separation and spectral techniques for identification of microbiomes and bacteria metabolites Dominika Błońska ^{1,2} , Michał Szumski ² , Bogusław Buszewski ³ ¹ Department of Environmental Chemistry and Bioanalytics, Faculty of Chemistry, Nicolaus Copernicus University, Toruń, Poland, ² Centre for Modern Interdisciplinary Technologies, Nicolaus Copernicus University, Poland, ³ Prof. Jan Czochralski Kuyavian-Pomeranian Research & Development Centre, Poland
10:09	OR142	Method development for targeted screening of chlorinated fatty acids (CFA) in refined vegetable oils <u>Tomáš Kouřimský</u> ¹ , Jakub Tomáško ¹ , Beverly Hradecká ¹ , Vojtěch Hrbek ¹ , Jan Kyselka ² , Jana Pulkrabová ¹ , Jana Hajšlová ¹ ¹ Department of Food Analysis and Nutrition, University of Chemistry and Technology Prague, Prague, Czech Republic, ² Department of Dairy, Fat and Cosmetics, University of Chemistry and Technology Prague, Prague, Czech Republic
	Exhibitio	n Hall
10:15 10:45	COFFEE	BREAK
	Auditoriu	m A, Level 1

	Auditorium A, Level 1	
10:45 12:30	TH-04	SUSTAINABILITY Chairs of the session: Emanuela Gionfriddo, Jared Anderson
10:45	KN60	Green and Sustainable Analytical Chemistry: Myths, Truths and Opportunities <u>Elia Psillakis</u> ¹ ¹ Technical University of Crete, Chania-Crete, Greece
		Jubilee Medal

11:10	OR101	Sustainability considerations in the dev chromatographic methods Paul Ferguson ¹ ¹ AstraZeneca, Macclesfield, United Kingdom
11:30	OR102	Towards greener liquid chromatograph <u>Xavier Subirats</u> ¹ , Laura Portell ¹ , Martí Rose ¹ University of Barcelona, Barcelona, Spain
11:50	OR103	Dimethyl carbonate as an green extract phase liquid chromatography for caffeir Oktawia Kalisz ¹ , Martina Catani ² , Szymon ¹ Department of Environmental Chemistry and E University, 7 Gagarin St., 87-100 Toruń, Poland, Sciences, University of Ferrara, via L. Borsari 40
12:10	OR104	Evaluation of Greener Solvents for HPL <u>Frank Michel</u> ¹ , Benjamin Peters ² , Gisela Ju ¹ Sigma-Aldrich Chemie GmbH, part of Merck, T

	Foyer, Le	evel 3
10:45 12:30	TH-05	FOOD Chairs of the session: Giorgia Purcaro, Mar
10:45	KN61	Multidimensional liquid chromatography Paola Dugo ¹ , Katia Arena ¹ , Roberto Lagana 'University of Messina, Messina, Italy
11:10	KN62	Comprehensive 2D LC-MS to study phene André de Villiers ¹ , Eugene Nell ¹ , Jochen Ve 'Stellenbosch University, Stellenbosch, South A
11:30	KN62'	Advances in the monitoring of natural to chromatographic and electrophoretic te Ana M. García-Campaña ¹ , Rocio Carmona Rozas, Maria del Mar Aparicio-Muriana, M Mesa, Francisco J. Lara, Laura Gámiz-Gra ¹ University of Granada, Granada, Spain, ² Univer Granada, Spain, ⁴ University of Granada, Granada ⁶ University of Antwerp, Antwerp, Belgium, ⁷ Univ Granada, Spain, ⁹ University of Granada, Granada
11:50	OR106	Novel Stationary Phase for Comprehens <u>Jean-Pierre Chervet</u> ¹ , Christopher Paul ² , C ¹ Antec Scientific, Alphen a/d Rijn, Netherlands, A
12:10	OR107	Geographical Characterization and Auth Metabolomic Fingerprinting and Polyph Oscar Núñez ^{14,5} , Danica Mostoles ¹ , Bener Sanna ³ , Javier Saurina ¹⁴ , Sònia Sentellas ¹⁴ ¹ Department of Chemical Engineering and Anal ² Department of Agricultural, Food and Environm Italy, ³ Department of Chemical, Physical, Mather Italy, ⁴ Research Institute in Food Nutrition and F Gramenet, Barcelona, Spain, ⁵ Serra Húnter Prog

	The View, Level 4		
10:45 12:30	TH-06	RETENTION MODELLING Chairs of the session: Dwight Stoll, Soraya	
10:45	KN63	Global retention models: An alternative a <u>María Celia Garcia-Alvarez-Coque</u> ¹ , Pau P ¹ University of Valencia, Burjassot (Valencia), Spa	

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Bioanalytics, Faculty of Chemistry, Nicolaus Copernicus ²Department of Chemical, Pharmaceutical and Agricultural 6, Ferrara 44121, Italy

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ung², Anita Pieper², Peter Knoell² Taufkirchen, Germany, ²Merck KGaA, Darmstadt, Germany

riusz Belka

y strategies for the analysis of natural products nà Vinci¹, Francesco Cacciola¹, Luigi Mondello¹

enolic evolution in single vineyard wines estner²

Africa, ²DLR Rheinpfalz, Neustadt, Germany

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rsity of Granada, Granada, Spain, ³University of Granada, da, Spain, ⁵Queen's University Belfast, Belfast, United Kingdom, versity of Granada, Granada, Spain, ⁸University of Granada, da, Spain, ¹⁰University of Granada, Granada, Spain

sive Separation of Carbohydrates

Christian Marvelous¹, Hendrik-Jan Brouwer¹ ²Consultant, 32572 Monterey Ct., Union City, United States

hentication of Honey by LC-ESI(-)-HRMS (Q-Orbitrap) nenolic Profiling

detta Fanesi², Paolo Lucci², Andrea Mara³, Gavino

lytical Chemistry, Universitat de Barcelona, Barcelona, Spain, mental Sciences, Università Politecnica delle Marche, Ancona, ematical, and Natural Sciences, University of Sassari, Sassari, Food Safety, Universitat de Barcelona, Santa Coloma de ogram, Generalitat de Catalunya, Barcelona, Spain

Chapel

approach to handling complex samples in HPLC Peiro-Vila¹, José Ramón Torres-Lapasió¹ Pain

	11:10	KN64	Multilevel/hierarchical modeling of chromatographic retention <u>Pawel Wiczling</u> ¹ ¹ Department of Biopharmaceutics and Pharmacodynamics, Medical University of Gdańsk, Gen. J. Hallera 107, 80-416 Gdańsk, Poland, Gdansk, Poland
	11:30	OR108	Mobile-Phase Contributions to Analyte Retention and Selectivity in Reversed-Phase Liquid Chromatography Alexandra Höltzel ¹ , Andreas Steinhoff ¹ , <u>Ulrich Tallarek¹</u> ¹ Philipps-University of Marburg, Marburg, Germany
	11:50	OR109	Characterization of HPLC columns. Comparison between the Snyder's Hydrophobic Subtraction and the Abraham's Solvation Parameter Models <u>Marti Roses</u> ¹ , Xavier Subirats ¹ ¹ University of Barcelona, Barcelona, Spain
-	12:10	OR110	Comparative HPLC Separation of Oxysterols Using Analytical Design Space Modeling: Insights from Three Stationary Phases (ES-CN, C18, F5) Andrea Castellaneta ¹ , Ilario Losito ¹² , Tommaso Cataldi ¹² , Imre Molnár ³ , Hans-Jürgen Rieger ³ ¹ Department of Chemistry, University of Bari «Aldo Moro», Bari, Italy, ² SMART interdepartmental Center, University of Bari «Aldo Moro», Bari, Italy, ³ Molnár-Institute for Applied Chromatography, Berlin, Germany

	Auditorium B, Level 1		
10:45 11:30		TUTORIAL 6 Chair of the session: Sebastiaan Eeltink	
10:45	TUT-06	Molecular simulations, molecular measurements, how they work and what we can learn for chromatography <u>Mark Schure</u> ¹ 'Affiliation	

Auditorium B, Level 1

11:30 12:30	FP-05	YOUNG SCIENTISTS FLASH PRESENTATIONS Chair of the session: Sebastiaan Eeltink
11:35	OR143	Membrane Surface Coatings Influence the Elution Behavior of Differently Charged Liposomes in Asymmetric Flow Field-Flow Fractionation Johann Savinsky ¹ , Lukas Hirschwald ¹ , Merten Sommer ¹ , Sebastian Rauer ¹ , John Linkhorst ² , Matthias Wessling ¹ ¹ RWTH Aachen University - Chair Of Chemical Engineering, Aachen, Germany, ² Technical University of Darmstadt, Process Engineering of Electrochemical Systems, Darmstadt, Germany
11:42	OR144	Optimizing Low-Field NMR as an Online Detector for HPLC Johanna Tratz ¹ , Marianne Gaborieau ¹ , Markus Matz ¹ , Michael Pollard ¹ , Manfred Wilhelm ¹ ¹ Karlsruhe Institute of Technology, Karlsruhe, Germany
11:49	OR145	Comparative Analysis of Maleimide and NHS-Ester JQ1-Trastuzumab Conjugates Using Orthogonal Analytics Sophie Jolliffe ¹ , Georgina Armstrong ¹ , Andrea Taladriz Sender ² , Glenn Burley ² , Craig Jamieson ² , Zahra Rattray ¹ ¹ Strathclyde Institute of Pharmacy and Biomedical Sciences (SIPBS), University of Strathclyde, Glasgow, United Kingdom, ² Department of Pure and Applied Chemistry, University of Strathclyde, Glasgow, UK, Glasgow, United Kingdom
11:56	OR146	Accurate Quantitation of Single Cell Drug Uptake by a Novel Suction-to-Clog Sampling Method and Dual-Stacking Capillary Electrophoresis-Mass Spectrometry Daiki Sakai ¹ , Taichi Fujimura ¹ , Miyuki Ito ¹ , Chenchen Liu ¹ , Kohei Torikai ¹ , Nobuaki Matsumori ¹ , Takayuki Kawai ¹ ¹ Kyushu University, Fukuoka, Japan
12:03	OR147	One- and two-dimensional liquid chromatography for the analysis of mRNA drug substances <u>Niklas Carstensen¹</u> , Michael Lämmerhofer ¹ ¹ University Of Tuebingen, Tuebingen, Germany

12:10	OR148	Affinity capillary electrophoresis in near- spectrometry for ligand-protein interacti <u>Clara Davoine</u> ¹ , Marianne Fillet ¹ ¹ Laboratory for the Analysis of Medicines (LAM)
12:17	OR149	Ion-mobility derived CCS-m/z trendlines contaminants of emerging concern and the Lidia Belova ¹ , Maosen Zhao ¹ , Mikel Musata Paulien Cleys ¹ , Fatima den Ouden ¹ , Maitan ¹ Toxicological Centre, University of Antwerp, Will of the Basque Country, Leioa, Spain
12:24	OR150	Online SEC-UV-RP-MS method for multi- Megane Aebischer ¹² , Serge Rudaz ¹² , Davy 'School of Pharmaceutical Sciences, University of Sciences of Western Switzerland, University of C

Exhibition Hall

AWARD CEREMONIES 13:00 Csaba Horvath Young Scientist, Best Poster Award, Best Poster Pitch Award, 13:30 Best Topical Poster Awards and Exhibition MVP prize

	The View	<i>ı</i> , Level 4
13:30 15:15	CLOSIN	G CEREMONY
13:30 14:00	PL03	Multi-dimensional and enantioselective and dipeptides –method development a And invitation to HPLC 2027 Fukuoka Kenji Hamase ¹ ¹ Graduate School of Pharmaceutical Sciences,
14:00 14:30	PL04	Hybrid HPLC-MS techniques employed lessons learned from the analysis of sim And invitation to HPLC 2027 Innsbruck Katharina Böttinger ¹ , Christof Regl ¹ , Fiam <u>Christian Huber¹</u> ¹ Department of Biosciences and Medical Biolog
14:30 15:00	PL05	Novel Characterization Strategies for Th And invitation to HPLC 2026 Indianapoli Todd Maloney ¹ , Matthew Sorensen ¹ , Josh ¹ Eli Lilly and Company, Indianapolis, United State
15:00 15:15	Closing r	remarks

	Terrace, Level 4
15:15 5:45	FAREWELL DRINK

-physiological conditions coupled to mass ion's assessment in the context of drug discovery

, CIRM, University of Liege, Liège, Belgium

for improved annotation confidence of their biotransformation products

adi², Maarten Roggeman¹, Giulia Poma¹, Celine Gys¹, e Olivares², Alexander L. N. van Nuijs¹, Adrian Covaci¹ Irijk, Belgium, ²Department of Analytical Chemistry, University

-attribute characterization of gene therapy products / Guillarme^{1,2}

of Geneva, Geneva, Switzerland, ²Institute of Pharmaceutical Geneva, Geneva, Switzerland

LC analysis of chiral amino acids and biological applications

Kyushu University, Japan

to the characterization protein structure: ple and highly complex glycoproteins

metta Di Marco¹, Maximilian Lebede¹, Gabriele Blümel¹,

gy, University of Salzburg, Salzburg, Austria

erapeutic Oligonucleotides

nua Jones¹, Daniel Meston², Dwight Stoll² es, ²Gustavus Adolphus College, Saint Peter, United States

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Poster sessions are taking place on Monday June 15 and Thursday June 16, 2025, between 13:15 and 15:5
Odd numbers are presented on Monday, even numbers are presented on Tuesday.
Posters will stay available for the participants in the exhibition hall during the whole conference.

2DLC

2DLC-01	Optimizing Active Modulation in Recycling Liquid Chromatography After Light Induced Degradation Using the Perpendicular Illumination Light Cell Merel Konings ¹² , Pascal Camoiras Gonzalez ¹² , Bob W.J Pirok ¹² , Maarten R. van Bommel ^{12,3} ¹ University of Amsterdam, van't Hoff Institute for Molecular Sciences, Analytical Chemistry Group, Amsterdam, Netherlands, ² Centre for Analytical Sciences Amsterdam (CASA), Amsterdam, Netherlands, ³ University of Amsterdam School for Heritage, Memory and Material Culture, Conservation and Restoration of Cultural Heritage, Amsterdam, Netherlands
2DLC-02	Quantitative assessment of 2D-LC analysis of polyolefins for multiway applications; Calibration of the Log M axis Paul DesLauriers ¹ , Jan-Hendrik Arndt ² , Guru Geertz ² , Robert Brüll ² , <u>Subrajeet Deshmukh</u> ² ¹ The Paulymer Group, Owasso, United States, ² Fraunhofer Institute for Structural Durability and System Reliability (LBF), Darmstadt, Germany
2DLC-03	Multidimensional LC Isolation and Purification of Exosomes from Diverse Media <u>R. Kenneth Marcus</u> ¹ , Chris Topper ¹ , Aastha Pandey ¹ ¹ Clemson University, Clemson, United States
2DLC-04	Development of a comprehensive HILIC x IP-RPLC method to address solvent strength mismatch for oligonucleotides analysis <u>Megane Aebischer^{1,2}</u> , Davy Guillarme ^{1,2} ¹ School of Pharmaceutical Sciences, University of Geneva, CMU-Rue Michel Servet 1, 1211 Geneva, Switzerland, Geneva, Switzerland, ² Institute of Pharmaceutical Sciences of Western Switzerland, University of Geneva, CMU-Ru Michel Servet 1, 1211 Geneva, Switzerland, Geneva, Switzerland
2DLC-05	Multi- ² D LC × LC and more for a comprehensive analysis of European medicinal plants <u>Katharina Wetzel</u> ¹ ¹ University of Duisburg-essen, Essen, Germany
2DLC-06	Online SEC-UV-RP-MS method for multi-attribute characterization of gene therapy products <u>Megane Aebischer^{1,2}</u> , Davy Guillarme ^{1,2} , Serge Rudaz ^{1,2} ¹ School of Pharmaceutical Sciences, University of Geneva, Geneva, Switzerland, ² Institute of Pharmaceutical Sciences of Western Switzerland, University of Geneva, Geneva, Switzerland Adeno-associated virus (AAV) vectors have become one of the preferred choices for gene therapies, with several FDA-approved products and numerous clinical trials underway. This preference is attributed to AAV's broad tissue tropism, non-pathogenic nature, favorable safety profile, and ability to sustain long-term transgene expression.
2DLC-07	The First Cut is the Deepest: In-Depth Glycosphingolipid Characterization in Human Mesenchymal Stem Cells Using 2D-LC-HRMS <u>Amirreza Dowlati Beirami^{1,2}</u> ¹ Department of Analytical Chemistry, Faculty of Chemistry, University of Vienna, Waehringer Str. 38, 1090, Vienna, Austria, ² Vienna Doctoral School in Chemistry (DoSChem), University of Vienna, Waehringer Str. 42, 1090, Vienna, Austria
2DLC-08	One- and two-dimensional liquid chromatographyfor the analysis of mRNA drug substances <u>Niklas Carstensen</u> ¹ , Michael Laemmerhofer ¹ ¹ University Of Tuebingen, Tuebingen, Germany
2DLC-09	Two-dimensional liquid chromatography in combination with mass spectrometry to unravel the polyphenol profile of tamarind juice <u>Toon Verdonck¹</u> , Deirdre Cabooter ¹ , Patrick Augustijns ¹ , Christophe Matthys ² ¹ Department of Pharmacy and Pharmacological Sciences, KU Leuven, Leuven, Belgium, ² Clinical and Experimental Endocrinology, Department of Chronic Diseases and Metabolism, KU Leuven, Leuven, Belgium
2DLC-10	Two-Dimensional Chromatography-Tandem Mass Spectrometry Method for Monitoring Diflubenzuron in Brazilian Fish Pond Water Sylvio Viamonte ¹ , Anna Paula Rocha de Queiroga ¹ , Susanne Rath ¹

2DLC-II	Online LCxSFC: how to make a successful of Margaux Sanchez ^{1,2} ¹ Université Claude Bernard Lyon 1, ISA UMR 5280, 0 Recherches de Solaize TotalEnergies, Solaize, France
2DLC-12	Data-independent profiling of phenolic con dimensional liquid chromatography (RPLC time-of-flight mass spectrometry <u>Nikoline Juul Nielsen</u> ¹ , Oskar M. Kronik ¹ , Romi de Villiers ³ ¹ University Of Copenhagen, Frederiksberg C, Denne Stellenbosch, South Africa
2DLC-13	Comprehensive two-dimensional liquid chr Anna Kosmakova ¹ , Aryna Paulenka ¹ , Jiri Urbar 'Department of Chemistry, Faculty of Science, Masa
2DLC-14	Study of the transfer conditions for an onlin Laurine Réset ¹ , <u>Clement De Saint Jores</u> ¹ , Caro ¹ Université d'Orléans, CNRS, ICOA, UMR 7311, Orléa
2DLC-15	Chiral Identification and Separation of Prote Dimensional Liquid Chromatography (2D-Li José Meneses ¹ , Frédéric Lynen ¹ ¹ Ghent University, Ghent, Belgium
2DLC-16	Leveraging Mechanistic and Machine Learn Chromatography (2D-LC) Method Develope Jane Kawakami ¹ , Rob North, Tony Yan, Doug I ¹ Pfizer, Groton, United States
2DLC-17	High-sensitive multi-attribute analysis of AL heart-cutting 2D-LC-HRAM mass spectrom <u>Xuepu Li¹</u> , Xiaoxi Zhang ¹ , Maria Gruebner ² , Fra ¹ Thermo Fisher Scientific, Shanghai, China, ² Thermo Scientific, Lexington, USA
2DLC-18	Investigation of polyphenols in wine grape p chromatography (LC×LC) <u>Taher Sahlabji</u> ¹ , Yassine Oulad El Majdoub ² , F Schmitz ² ¹ King Khalid University, Abha, Saudi Arabia, ² Applied Universitatsstr. 5, 45141 Essen, Germany
2DLC-19	Enantioselective determination of cysteine LC-MS/MS system combined with reductiv Chiharu Ishii ¹ , Rie Sueyoshi ¹ , Masashi Mita ² , Yu Hamase ¹ ¹ Graduate School of Pharmaceutical Sciences, Kyus of Medical Sciences, Kyushu University, Japan
2DLC-21	Exploring Allium cepa PDO Leaf Extracts cl RP-LC-HRMS platform Giovanna Aquino ¹ , Eduardo Maria Sommella ¹ , Pietro Campiglia ¹ , Giacomo Pepe ¹ , Manuela G ¹ University Of Salerno, Italy, ² University of Basilicata

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ina A. F. Neran¹, Jan H. Christensen¹, Tore K. Ravn², André

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Iorian Stappert², Lidia Montero², Marvin Häßler², Oliver J.

d Analytical Chemistry, University of Duisburg-Essen,

residues in peptides/proteins using a two-dimensional re carboxymethylation and ²HCl/²H₂O hydrolysis usuke Murakami³, Takeyuki Akita¹, Tadashi Ueda¹, Kenji

shu University, Japan, ²KAGAMI, Inc.,é Japan, ³Graduate School

hemical and antioxidant profile through online RP-LC ×

, Emanuela Salviati¹, Michele Manfra², Giulia Auriemma¹, Giovanna Basilicata³ n, Italy, ³University of Campania "Luigi Vanvitelli", Italy

Biopharma		
BIO-01	Automated, Quantitative Capillary Western Blots to Analyze Host Cell Proteins in COVID-19 Vaccine Produced in Vero Cell Line Richard R. Rustandi ¹ , Paul F. Gillespie ¹ , Emily Groegler ¹ , Nicholas Cunningham ¹ , Alyssa Q. Stiving ¹ , Jessica Raffaele ¹ , Natalia Marusa ¹ , Christopher M. Tubbs ¹ , John W. Loughney ¹ , Michael A. Winters ¹ ¹ Analytical Research & Development, Merck Sharpe & Dohme (MSD), Rahway, United States	
BIO-02	Polysorbates: How to manage Degradation by Quantifying and Profiling the complex excipient? <u>Matjaz Kracun</u> ¹ ¹ Novartis, Menges, Slovenia	
BIO-03	Lipid content and purity in LNPs with HPLC-ELSD and HPLC-MS Mareike Prüfer ¹ , Giorgia Greco ¹ , <u>Juliane Kramer¹</u> ¹ KNAUER Wissenschaftliche Geräte Gmbh, Berlin, Germany	
BIO-04	Enhancing mRNA-Lipid Nanoparticle Encapsulation Efficiency Determination with the Agilent 1290 Infinity II Bio LC System Aveline Neo ¹ , Yulan Bian ¹ , <u>Sonja Schneider¹</u> , Suresh Babu C.V. ¹ , Zhi Ting Teo ¹ , Li Zhang ² , Yi Yan Yang ² ¹ Agilent Technologies, Inc, Singapore, ² Bioprocessing Technology Institute, Agency for Science, Technology and Research (A*STAR), Republic of Singapore, Singapore	
BIO-05	Selective Glycoform Separations of Intact Monoclonal Antibodies by Acrylamide Monolithic Stationary Phases Annika van der Zon ^{1,2} ¹ University of Amsterdam, Amsterdam, Netherlands, ² Centre of Analytical Sciences Amsterdam, Amsterdam, Netherlands	
BIO-06	Optimization of the Chromatographic Resolution of Individual DAR Species in Native RPLC-HRMS for Rapid Characterization of Antibody Drug Conjugates <u>A. Carl Sanchez</u> ¹ , Miklos Czaun ¹ , Juan M. Perfetti ¹ , James Song ¹ , ChengKang Mai ¹ , Cuong Hoang ¹ , Ismail Rustamov ¹ ¹ Phenomenex, Inc., Torrance, United States	
BIO-07	Analytical characterization of solid oral protein therapeutics <u>Lulu Dai</u> ¹ ¹ Genentech, South San Francisco, United States	
BIO-08	Anion exchange chromatography to determine mRNA encapsulation in lipid nanoparticles Jonathan Maurer ¹ , Sofiane Mahjoubi ¹ , <u>Athanasios Tsalmpouris</u> ¹ , Camille Malburet ² , Chamsan Daher Assan ² , Marc François-Heude ² , Davy Guillarme ¹ ¹ Institute of Pharmaceutical Sciences of Western Switzerland, University Of Geneva, Geneva, Switzerland, ² Sanofi, mRNA Center of Excellence, Marcy l'Etoile, France	
BIO-09	UHPLC-MS/MS determination of therapeutic monoclonal antibodies <u>Veronika Pilarova</u> ¹ , Katerina Plachka ¹ , Irena Murinova ^{2,3} , Juraj Lenco ¹ , Lucie Novakova ¹ ¹ Department of Analytical Chemistry, Faculty of Pharmacy in Hradec Králové, Charles University, Hradec Kralove, Czech Republic, ² Department of Social and Clinical Pharmacy, Faculty of Pharmacy, Charles University, Hradec Kralove, Czech Republic, ³ Department of Clinical Pharmacy, Military Faculty Hospital Prague, Prague, Czech Republic	
BIO-10	Comparative Analysis of Maleimide and NHS-Ester JQ1-Trastuzumab Conjugates Using Orthogonal Analytics Sophie Jolliffe ¹ ¹ Strathclyde Institute of Pharmacy and Biomedical Sciences (SIPBS), University of Strathclyde, Glasgow, United Kingdom	
BIO-11	Advanced Size Exclusion Chromatography with Online LS/DLS Detection for the Analysis of Critical Quality Attributes of Lipid Nanoparticles Sonja Dr. Schneider ¹ , Johanna Simon ² , Jenny Hong Hoang ² ¹ Agilent Technologies, Waldbronn, Germany, ² Merck Life Science KGaA, Darmstadt, Germany	
BIO-12	Comparability of carrrier ampholytes in icIEF: Differences and potential adjustments Nelly Luong ¹ , Hermann Wätzig ¹	

BIO-13	Direct comparison of single peak and gradie surfactants in biopharmaceuticals Georg Schuster ¹ , Maksymilian M. Zegota ¹ , Julia Andrea Hawe ¹ ¹ Coriolis Pharma Research, Martinsried, Germany, ² D Lawrence, USA
BIO-14	Quality Attributes of Therapeutic Proteins De Bioprocessing: Why Are Both Critical? <u>Thomas Berger</u> ¹ , Veronika Schäpertöns ¹ , Laris Hofreither ³ , Laura Liesinger ³ , Ruth Birner-Grue Huber ¹ ¹ Department of Biosciences and Medical Biology, Par of Biotechnology, BOKU University Vienna, Vienna, A Wien, Vienna, Austria
BIO-15	Single Step Method for Multi-Attribute Analy purification Meena Narsimhan ¹ , Mary Bower ¹ , Miriam Walk ¹ Novilytic, West Lafayette, United States
BIO-16	High throughput multidimensional liquid chro and characterization of polysorbates and po Maksymilian M. Zegota ¹ , <u>Georg Schuster</u> ¹ , Mau ¹ Coriolis Pharma Research, Martinsried, Germany, ² T
BIO-17	Development of Two Affinity Columns Immo FcRn for Detailed Antibody Drug Characteriz Tatsuya Yumoto ¹ , Ryoko Otake ¹ , Linko Hirono ¹ , ¹ Tosoh Corporation, Ayase, Japan
BIO-18	Evaluating long-term stability of a monoclon Assessment Program modelling and high res Kevin Roeleveld ¹ , Geert Van Raemdonck ¹ ¹ AnaBioTec, Evergem, Belgium
BIO-19	Slalom Chromatography Coupled to Multian Large Nucleic Acids <u>Mateusz Imiolek</u> ¹ , Kennedy Sawyer ² , Jamuna V Wyndham ² , Matthew Lauber ² ¹ Waters Corporation, Geneva, Switzerland, ² Waters C
BIO-20	Quantifying impurities in cationic lipids raw n CAD-MS Sissi White ¹ , Mark Netsch ¹ , Min Du ¹ , <u>Sylvia Gros</u> ¹ Thermo Fisher Scientific, Lexington, United States, ²
BIO-21	Improved LC Separations of Nucleic Acids U Barry Boyes ¹ , Peter Pellegrinelli ¹ , Timothy Lang Destefano ¹ ¹ Advanced Materials Technology, Wilmington, United
BIO-22	Development of separative methods for harr using an Analytical Quality by Design approa <u>Virginia Ghizzani</u> ^{1,2} , Alessandro Ascione ² , Sere Caterina Temporini ¹ , Sandra Furlanetto ³ , Gabri ¹ University Of Pavia, Pavia, Italy, ² National Centre for a Superiore di Sanità, Rome, Italy, ³ University of Florence
BIO-23	Antibody-drug conjugates: a strategy of puri Margherita Marino ¹ ¹ Interdepartmental Research Unit of Peptide & Protei and NeuroFarba, University of Florence, 50019-Sest

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Department of Pharmaceutical Chemistry, University of Kansas,

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ker¹, <u>Jessica Westland</u>¹, Eric Bowen¹

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, <u>Yosuke Terao</u>1

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Vaishnav², Szabolcs Fekete¹, Fabrice Gritti², Kevin

Corporation, Milford, United States

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Thermo Fisher Scientific, Germering, Germany

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fication and characterization

in Chemistry & Biology, Departments of Chemistry "Ugo Schiff" to F.no, Italy, Sesto Fiorentino (FI), Italy

BIO-24	Quantification of affinity constants between pentamidine and pentamidine-like compounds with RNA probes representative of myotonic dystrophy type 1 by Affinity Capillary Electrophoresis <u>Mathieu Leveque</u> ¹ ¹ University Of Mons, Mons, Belgium
BIO-25	Injection of Large Volumes of Eluotropic Sample Diluents in Reversed Phase Chromatography Daniel Foshag ¹ , Hannes Graf ¹ , Matthias Pursch ² , Jan-Andre Boeth ³ , Ulrich Tallarek ³ , Tom van de Goor ^{1,3} ¹ Agilent Technologies, Waldbronn, Germany, ² Dow, Core R&D Analytical Science, Wiesbaden, Germany, ³ Department of Chemistry, Philipps-Universität Marburg, Marburg, Germany
BIO-26	Characterization of polysorbate 80 in (bio)pharmaceuticals using HPLC-CAD <u>Sylvia Grosse</u> ¹ , Katherine Lovejoy ¹ , Susanne Fabel ¹ , Frank Steiner ¹ 'Thermo Fisher Scientific, Germering, Germany
BIO-27	Determination of Fatty Acids Composition in Polysorbates 80 and 20 Pharmaceutical Raw Materials by HPLC with Mass Detection Margaret Maziarz ¹ , Paul Rainville ¹ ¹ Waters Corporation, Milford, United States
BIO-28	Method development for analysis of antibody-drug-conjugates by ion exchange chromatography <u>Daniel Esser</u> ¹ , Chiaki Matsumura ² , Ken Tsutsui ² ¹ YMC Europe GmbH, Dinslaken, Germany, ² YMC Co., Ltd., Kyoto, Japan
BIO-29	Advances in hydrophobic interaction chromatography stationary phases: new applications in biomolecule analysis from proteins to nucleic acids <u>Andrea Krumm</u> ¹ ¹ Tosoh Bioscience Gmbh, Griesheim, Germany
BIO-30	Affinity capillary electrophoresis in near-physiological conditions coupled to mass spectrometry for ligand-protein interaction's assessment in the context of drug discovery <u>Clara Davoine</u> ¹ ¹ Laboratory for the Analysis of Medicines (LAM), CIRM, University of Liege, Liège, Belgium
BIO-31	Characterization of Polysorbate Degradation Mode in Biopharmaceuticals Denis Klemm ¹ ¹ F.Hoffmann-La Roche, Basel, Switzerland
BIO-32	Analytical Characterization of DMG-PEG 2000: Foundations for a monograph in the Ph. Eur. Benedikt Sperber ¹ ¹ University of Wuerzburg, Germany
BIO-33	Development of HILIC-HRMS analysis for the characterization of microRNA methylation <u>Khaoula Adouairi</u> ¹ , Carole Farre ¹ , Carole Chaix ¹ , Karine Faure ¹ ¹ Université Claude Bernard Lyon 1, ISA UMR 5280, CNRS, Villeurbanne, France
BIO-34	Salt Enhances the Suitability of Ion-Pair Reversed-Phase Liquid Chromatography for the Non- Denaturing Analysis of siRNA Christian Manz ¹ , Martin Enmark ³ , Illaria Furlan ² , Porya Habibollahi ² , Torgny Fornstedt ³ , Jörgen Samuelsson ³ , Eivor Örnskov ² , Manasses Jora ¹ ¹ Medicinal Chemistry, Research and Early Development, Respiratory and Immunology, BioPharmaceuticals R&D, AstraZeneca, Mölndal, Sweden, ² Advanced Drug Delivery, Pharmaceutical Sciences, BioPharmaceuticals R&D, AstraZeneca, Mölndal, Sweden, ³ Department of Engineering and Chemical Sciences, Karlstad University, Karlstad, Sweden
BIO-35	Strategies for the Stereointegrity Control of Synthetic and Therapeutic Peptides <u>Ryan Karongo</u> ¹ ¹ Bayer AG, Berlin, Germany
BIO-36	Development of a Downstream Processing Platform for Adeno-associated virus (AAV) including reliable Empty/Full ratio determination by SEC-MALS <u>Rico Schmidt¹</u> , Jule Nickel ¹ ¹ IDT Biologika, Dessau-Roßlau, Germany
BIO-37	Characterization of adeno-associated virus capsid proteins using denaturing size-exclusion chromatography coupled with mass spectrometry <u>Tim Tiambeng</u> ¹ , Yuetian Yan, Shailin Patel, Victoria Cotham, Shunhai Wang, Ning Li ¹ Regeneron Pharmaceuticals, Tarrytown, United States

Column	Technology
COL-01	New Monodisperse fully porous particles (MF Mark Woodruff ¹ , Ken Butchart ¹ ¹ Fortis Technologies, Neston, United Kingdom
COL-03	A Novel Carbon HPLC Column for Polar Analy Egidijus Machtejevas ¹ , William Maule ² , Clinton C ¹ Merck Life Science KGaA, Darmstadt, Germany, ² Millip
COL-04	Innovations in Particle Technology for Ultra Hi Bioprocessing Beatrice Muriithi ¹ , Yeliz Sarisozen ¹ , Martin Gilar ¹ , Stephen Shiner ¹ ¹ Waters Corporation, MILFORD, United States
COL-05	New 3D Monolithic Architecture for Enhanced Pavel Karásek ¹ , Josef Planeta ¹ , Michal Roth ¹ , Pav ¹ Institute of Analytical Chemistry of the CAS, Brno, Cze
COL-06	Governing selectivity in HILIC column technol Alla Chernobrovkina ¹ ¹ Lomonosov Moscow State University, Moscow, Russia
COL-07	High Quality Reproducibility in SPP HPLC Pro- Stephanie Schuster ¹ , Harry Ritchie ¹ , Stephanie R ¹ Advanced Materials Technology, Inc., Wilmington, De
COL-08	Development and Evaluation of a Non-Porous Analysis by High-Performance Affinity Chrom Devansh Shah ¹ , John Hanrahan, Eric Moore ¹ ¹ University College Cork, Cork, Ireland, ² Glantreo Limit
COL-09	Modification of Conventional HPLC for Capilla Effective Approach to Enhanced Efficiency, Se <u>Ahmad Aqel</u> ¹ , Ayman Ghfar ¹ , Zeid ALOthman ¹ ¹ King Saud University, Riyadh, Saudi Arabia
COL-10	Exploring Acoustic Streaming for Particle For Jakub Novotny ¹ , Anna Tycova ¹ Institute of Analytical Chemistry of the Czech Academ
COL-11	Customized 3D-printed device integrated in a agents in urine Sara R. Fernandes ¹² , Diana R. Cunha ² , Luisa Bar ¹ ESS, Polytechnic of Porto, Porto, Portugal, ² LAQV, REU University of Porto, Portugal, ³ FI-TRACE group, Dep. C Mallorca, Spain
COL-12	Porous polyamide 3D-printed devices for the a Dagmara Kroll ¹ ¹ Department of Pharmaceutical Chemistry, Medical Un
COL-13	Development of ordered particle monolayer a <u>Mitch De Waard</u> ^{1,2} , Ignaas Jimidar ^{1,2} , Han Garder ¹ Vrije Universiteit Brussel, Brussel, Belgium, ² University
COL-14	An automated platform for the monitoring and reactors Sanjay Lama ¹ ¹ Institute of Analytical Chemistry, Leipzig University, Leipzig
COL-15	Towards open tubular columns with hypercros Jan Valasek ¹ , Matej Lohnicky ¹ , Radovan Metelka ¹ Department of Chemistry, Faculty of Science, Masary Chemistry, Faculty of Chemical Technology, University

IFPP) for HPLC analysis

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Corman², Benjamin Peters¹, Michael Ye², Petra Lewits¹ illiporesigma, Bellefonte, USA

High Performance Affinity Columns for Application in

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us Protein-A Silica Column for Monoclonal Antibody matography

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llary Chromatography: A Practical, Green, and Cost-Sensitivity, and Sustainability

ocusing in Round-Cross-Section Capillaries

my of Sciences, Brno, Czech Republic

a flow platform for the determination of anticoagulant

arreiros^{1,2}, Manuel Miró³, Marcela A. Segundo² EQUIMTE, Dep. Chemical Sciences, Faculty of Pharmacy, Chemistry, University of the Balearic Islands, Palma de

e extraction of hydrophilic compounds

University of Gdańsk, Gdańsk, Poland

arrays on silicon-glass microfluidic chips eniers², Gert Desmet¹ ity of Twente, Enschede, Netherlands

nd screening of microfluidic immobilized enzyme

Leipzig, Germany

osslinked layer

ka², Jiri Urban¹ ryk University, Brno, Czech Republic, ²Department of Analytical ity of Pardubice, Pardubice, Czech Republic

COL-16	Particle separation by hydrodynamic chromatography in micropillar array columns and 3D-printed columns <u>Alessandra Adrover</u> ¹ , Claudia Venditti ¹ , Ali Moussa ² , Gert Desmet ¹ ¹ Sapienza Università Di Roma, Rome, Italy, ² Vrije Universiteit Brussel, Brussel, Belgium
COL-17	Theoretical Prediction of the Optimal Support Shape for 3D Ordered Liquid Chromatography Structures <u>Ali Moussa</u> ¹ ¹ Vrije Universiteit Brussel, Brussel, Belgium
COL-18	Enhancing Analytical Sensitivity: New Complementary HPLC Phases for Versatile Separations in Capillary LC Petra Lewits ¹ , Anita Piper ¹ , Gabriel Odugbesi ² , Clinton Corman ² , Patrik Appelblad ³ ¹ Merck KGaA, Darmstadt, Germany, ² MilliporeSigma, Bellefonte, USA, ³ Merck KGaA, Oslo, Norway
COL-19	Achieving Consistent SEC Performance Through the Use of 3 µm, 550 Å Monodisperse Media in Novel Bioinert Column Hardware Audrius Žvirblis ¹ , Mauro De Pra ² , Ke Ma ³ , Elina Pasečnaja ¹ , Matas Damonskis ¹ ¹ Thermo Fisher Scientific, Vilnius, Lithuania, ² Thermo Fisher Scientific, Segrate, Italy, ³ Thermo Fisher Scientific, Sunnyvale, USA
COL-20	Evaluation of Durability of Hybrid Silica with Ethylene Chains <u>Norikazu Nagae</u> ¹ , omoyasu Tsukamoto ¹ , Ryuji Koyama ¹ , Etsuko Shearer ² ¹ ChromaNik Technologies Inc., Osaka, Japan, ² BioNik Inc., Fuji, Japan
COL-21	Evaluation of Bidentate End-capping Silylation Reagents for HPLC Norikazu Nagae ¹ , Tomoyasu Tsukamoto ¹ , Ryuji Koyama ¹ , <u>Etsuko Shearer²</u> ¹ ChromaNik Technologies Inc., Osaka, Japan, ² BioNik Inc., Fuji, Japan
COL-22	Evaluation of Hybrid Silica C18 End-capped with Bidentate Silylating Reagent for HPLC Norikazu Nagae ¹ , Tomoyasu Tsukamoto ¹ , Ryuji Koyama ¹ , <u>Etsuko Shearer</u> ² ¹ ChromaNik Technologies Inc., Osaka, Japan, ² BioNik Inc., Fuji, Japan
COL-23	Quantitative analysis of biological compounds using a pillar array column Dr. Makoto Tsunoda ¹ ¹ University of Tokyo, Japan
COL-24	Monolithic capillary columns for RP and HILIC chromatography prepared from polyhedral oligomeric silsesquioxane <u>Josef Planeta</u> ¹ , Dana Moravcová ¹ , Pavel Karásek ¹ , Michal Roth ¹ ¹ Institute Of Analytical Chemistry of the CAS, Brno, Czech Republic
COL-25	New Approaches in (HP)TLC: The Role of Sustainable Solvents and New Miniaturized Devices in Traditional and High-Performance Thin-Layer Chromatography <u>Michaela Oberle¹</u> , Markus Burholt ¹ ¹ Merck Life Science KGaA, Darmstadt, Germany
COL-26	Development of new Capillary HPLC Columns with Porous Graphitic Carbon <u>Frank Michel</u> ¹ , Michael Ye ² , Hugh Cramer ² , Gabriel Odugbesi ² ¹ Sigma-Aldrich Chemie GmbH, part of Merck, Taufkirchen, Germany, ² MilliporeSigma, Bellefonte, USA
COL-27	Multiscale simulation of liquid chromatography: Effective diffusion in macro-mesoporous beds and the B-term of the plate height equation <u>Ulrich Tallarek</u> ¹ , Dzmitry Hlushkou ¹ , Alexandra Höltzel ¹ ¹ Department of Chemistry, Philipps-University of Marburg, Marburg, Germany
COL-28	Machine learning approaches for real-time chromatographic data analysis in the field <u>Ali Salehi-Reyhani</u> ¹ ¹ Dept. Surgery & Cancer, Faculty of Medicine, Imperial College London, London, United Kingdom, ² Institute for Molecular Science and Engineering, Imperial College London, London, United Kingdom
COL-29	At the intersection between chromatographic performance, ESI efficiency and instrument productivity: nano to capillary flow LC/MS on long µPAC columns Jeff Op De Beeck ¹ , Riccardo Stucci ² , Dominic Hoch ² , Natalie Van Landuyt ¹ , Paul Jacobs ¹ ¹ Thermo Fisher Scientific, Ghent, Belgium, ² Thermo Fisher Scientific, Rheinach, Switzerland
COL-30	Generating Spatiotemporal Temperature Gradients in Chromatography Adam Hakansson ¹ , Sarah O'Bryan ¹ , Laurent Lessard ¹ , Timothy Lannin ¹ ¹ Northeastern University, Boston, United States

COL-31	Separation characterization of a new zwitteri <u>Tomoaki Shimpo</u> ¹² , Takashi Hara ² , Tohru Ikegar ¹ Kyoto Institute of Technology, Kyoto, Japan, ² Shimada
COL-32	Colloid Convection-assembled NanoLC Colu fast Proteomics under Extreme Pressure Hanrong Wen ¹ , Bo Zhang ² , Ken Broeckhoven ¹ , ³ ¹ Vrije Universiteit Brussel, Brussels, Belgium, ² Xiamen
COL-33	Sharpen Your Peaks: Novel Column Hardward Chromatography Olivier Chevallier ¹ , Cate Simmermaker ¹ , Sierra E ¹ Agilent Technologies Inc., Santa Clara, United States
COL-34	Development of LC-MS-Compatible Column Reduced Curtain Plate Contamination <u>Hiromi Miyagawa¹</u> , Koji Suzuki ² , Hiroshi Oikawa Mengmin Terashima ³ , Shota Miyazaki ¹ 'GL Sciences Inc., Iruma, Japan, ² GL Sciences Inc., Ja
COL-35	Development of a Novel Mixed-Mode C18 Co Compounds Hiroshi Oikawa ¹ , Yukinori Konno ¹ , Junichi Hashi Miyazaki ² ¹ GL Sciences Inc., Japan, ² GL Sciences Inc., Iruma, Ja
COL-36	Improved Pillar Array Design Using Bayesian Marwan Elkhettabi ¹ , Ali Moussa ¹ , Sander Derido ¹ Department of Chemical Engineering, Brussels, Belgum, ⁴ ³ Artificial Intelligence Laboratory, Brussels, Belgium, ⁴ Netherlands
COL-37	Revisiting previous concepts of chiral station strategies Magdaléna Labíková ¹ , Wolfgang Lindner ¹ , <u>Mich</u> ¹ University of Chemistry and Technology Prague, Prag
Doping,	Drugs & Diagnosis
DDD-01	Utilising the Chromatographic Toolbox to Eva Derivatives and Related Compounds: The De Fluid Chromatography, High pH Reversed Ph

Chromatography Methodologies

Kingdom, ⁴Penn State University, United States

¹Fortis Technologies, Neston, United Kingdom

Campbell⁴, Erika Sitch⁴

doping control purposes

aspects

DDD-02

DDD-03

DDD-04

Column Fechnology **ion-bonded HILIC column** mi¹ dzu coporation, Kyoto, Japan

umns: A Next Generation Column Technique for Ultra-

, Sebastiaan Eeltink¹ In University, Xiamen, China

re for Improved HILIC Polar Metabolite

Durham¹, Karen Yannell¹, Jordy Hsiao¹

ns with High Positional Isomer Resolution and

a², Yuko Yui¹, Kensuke Okusa¹, Yuka Hiramatsu¹,

apan, ³GL Sciences Inc., Shinjuku-ku, Japan

olumn with Enhanced Retention of Highly Polar Acidic

nimoto¹, <u>Hiromi Miyagawa</u>², Mengmin Terashima³, Shota

apan, ³GL Sciences Inc., Shinjuku-ku, Japan

Optimization

dder¹, Pieter Libin^{2,3}, Han Gardeniers⁴, Gert Desmet¹ gium, ²Department of Computer Science, Brussels, Belgium, ⁴Department of Mesoscale Chemical Systems, Eschede, The

nary phases using contemporary organic chemistry

hal Kohout¹ ague, Czech Republic

valuate Novel Regioisomeric Fluorofentanyl evelopment and Comparison of Supercritical hase-UHPLC and Hydrophilic Interaction Liquid

Jennifer Field¹, Melvin Euerby^{1,2}, Oliver Sutcliffe³, Benjamin Barrett¹, Richard Hodgson¹, William

¹Shimadzu Uk, Milton Keynes, United Kingdom, ²The Open University, Milton Keynes, United Kingdom, ³MANchester Drug Analysis & Knowledge Exchange (MANDRAKE), Manchester Metropolitan University, Manchester, United

Urinary steroid purification prior to isotope ratio mass spectrometry in anti-doping Tobias Langer¹, Alessandro Musenga¹, Aline Bayerle², Jens Trafkowski², Tiia Kuuranne¹, Raul Nicoli¹

Supercritical fluid chromatography and endogenous steroids - super possibilities and critical

<u>Tobias Langer</u>¹, Raul Nicoli¹, Davy Guillarme², Tiia Kuuranne¹, Alessandro Musenga¹ ¹Swiss Laboratory for Doping Analyses, Epalinges, Switzerland, ²School of Pharmaceutical Sciences, Institute of Pharmaceutical Sciences of Western Switzerland (ISPSO), University of Geneva, Geneva, Switzerland

Exploring transdermal SARMs exposure: Analysis of the elimination profiles and metabolism for

Linus Korsmeier¹, Sophia Krombholz¹, Hana Alhalabi¹, Andreas Thomas¹, Mario Thevis^{1,2} ¹Center for Preventive Doping Research/Institute of Biochemistry, German Sport University, Cologne, Germany, ²European Monitoring Center for Emerging Doping Agents (EuMoCEDA), Cologne/ Bonn, Germany



DDD-05	Evaluation of Rycal Compounds in Anti-Doping Research: Synthesis, Metabolism, and Characterization <u>Tristan Möller1, Mario Thevis</u> ^{1,2} 'German Sport University Cologne, Cologne, Germany, ² European Monitoring Center for Emerging Doping Agents, Cologne/Bonn, Germany
DDD-06	Investigations into the Metabolism of JTV-519 and S-107, two Substances Prohibited in Sport, Using a Human Liver Microphysiological System Insa Peters ¹ , Judith Harth ^{1,2} , Nana Naumann ¹ , Mario Thevis ^{1,3} ¹ Center for Preventive Doping Research - Institute of Biochemistry, German Sport University Cologne, Cologne, Germany, ² University of Cologne, Cologne, Germany, ³ European Monitoring Center for Emerging Doping Agents (EuMoCEDA), Cologne/ Bonn, Germany
DDD-07	In vitro metabolism of doping agents (stanozolol, LGD-4033, anastrozole, GW1516, trimetazidine) by seminal vesicle and pooled human liver fractions Johanna Sternberg ¹ , Insa Peters ¹ , Nana Naumann ¹ , Andreas Thomas ¹ , Mario Thevis ^{1,2} ¹ Institute Of Biochemistry, German Sport University, Cologne, Germany, Cologne, Germany, ² European Monitoring Center for Emerging Doping Agents (EuMoCEDA), Cologne/Bonn, Germany
DDD-08	Development of an environmentally friendly method for detection of tryptophan metabolism in the gut microbiome <u>Rene Braakman</u> ¹ , Kas Blomberg ¹ , Frank Schuren ¹ , Rob Vreeken ¹ ¹ TNO, Leiden, Netherlands
DDD-09	Development of a dilute-and-shoot LC-MS/MS method for urinary steroidome investigation in adrenal tumor characterization Laura Leoni ¹ , Mirko Parasiliti-Caprino ² , Giulia Montesano ¹ , Martina Bollati ² , Fabio Settanni ³ , Ezio Ghigo ² , Giulio Mengozzi ¹ , Federico Ponzetto ² ¹ Clinical Biochemistry Laboratory, Department of Medical Sciences, University of Turin, Turin, Italy, ² Division of Endocrinology, Diabetology and Metabolism, Department of Medical Sciences, University of Turin, Turin, Italy, ³ Clinical Biochemistry Laboratory, City of Health and Science University Hospital, Turin, Italy
DDD-10	Investigation of Tryptophan Metabolites as Biomarkers for Acute Kidney Injury (AKI) in COVID-19 Patients ´ Plasma Samples Using HPLC-MS/MS Targeted Metabolomics <u>Pamela Padovani</u> ¹ , Carla Bottoli ¹ , Lúcia Andrade ² ¹ UNICAMP - Universidade Estadual de Campinas, Campinas, Brazil, ² USP - Universidade de São Paulo, São Paulo, Brazil
DDD-11	Unravelling Women's Fertility: Enhancing the Performance of UHPLC-HESI-MS/MS for Profiling Endocannabinoids in Follicular Fluid Esther González-Infante ^{1,2} , Maddi Salvoch ^{1,2} , Igarki Grande ¹ , Ane Moriña ¹ , Lide Totorikaguena ³ , Estibaliz Olabarrieta ^{3,4} , Naiara Agirregoitia ³ , Juan F. Ayala-Cabrera ^{1,2} , Olatz Zuloaga ^{1,2} ¹ Department of Analytical Chemistry, University of the Basque Country (UPV/EHU), Leioa, Spain, ² Research Centre for Experimental Marine Biology and Biotechnology, University of the Basque Country (PiE-UPV/EHU), Plentzia, Spain, ³ Department of Physiology. Faculty of Medicine and Nursery, University of the Basque Country, Leioa, Spain, ⁴ Department of Pharmacology, University of the Basque Country (UPV/EHU), Leioa, Spain
DDD-12	Optimization of a Sample Preparation Method for O-Glycan Profiling in Tear Fluid and Tears Absorbed on Schirmer Strips Hana Kočová Vlčková ¹ , Hana Chmelařová ¹ , Kateřina Plachká ¹ , Taťána Gazárková ¹ , Simona Motešická ² , Jan Novák ² , Lucie Nováková ¹ 'Department of Analytical Chemistry, Faculty of Pharmacy in Hradec Králové, Charles University, Hradec Králové, Czech Republic, ² Ophthalmic Department of Pardubice Hospital, Pardubice Region Hospital, a.s., Pardubice, Czech Republic
DDD-13	Utilization of preparative IEF and MALDI-TOF MS in the microbial identification <u>Jiri Salplachta</u> ¹ , Anna Kubesova ¹ , Filip Ruzicka ² , Karel Slais ¹ ¹ Institute Of Analytical Chemistry Of The Cas, Brno, Czech Republic, ² Department of Microbiology, Faculty of Medicine, Masaryk University, Brno, Czech Republic
DDD-14	Development of HILIC-UHPLC-HRMS method for N-glycan profiling in tear fluid as a potential diagnostic tool for ocular rosacea <u>Hana Chmelařová</u> ¹ , Hana Kočová Vlčková ¹ , Kateřina Plachká ¹ , Taťána Gazárková ¹ , Simona Motešická ² , Jan Novák ² , Lucie Nováková ¹ ¹ Department of Analytical Chemistry, Faculty of Pharmacy in Hradec Králové, Charles University, Hradec Králové, Czech Republic, ² Ophthalmic Department of Pardubice hospital, Pardubice Region Hospital, a.s., Pardubice, Czech Republic

DDD-15	Method development and validation for the or plasma by LC-HRMS/MS in sports drug testi Lisa Borschel ¹ , Andreas Thomas ¹ , Mario Thevis ¹ Center for Preventive Doping Research – Institute of ² European Monitoring Center for Emerging Doping A
DDD-16	Investigations into the urinary metabolite elir modulator S-23 in studies mimicking contan Purposes Hana Alhalabi ¹ , Andreas Thomas ¹ , Mario Thevia ¹ Sporthochschule Köln, Cologne, Germany, ² Europea Germany
DDD-17	Research on rapid screening method for 39 a MS with SWATH Zhenhua Qian ¹ , Yu Huang ¹ , Yu Du ¹ , Zhendong H ¹ Drug Intelligence and Forensic Center, Ministry of Pu
DDD-18	Identification of a new psychoactive substant fluoro-a-pyrrolidinovalerophenone (MVPVP) Lauriane Drouin ¹ , Peter Van Swinderen ¹ , Theo ¹ Netherlands Forensic Institute, Department of Toxico
DDD-19	Development of an LC-MS/MS Method for the in Whole Blood Cyrille Lamboley ² , Haley Berkland ¹ ¹ Restek Corporation, Bellefonte, United States of Am
DDD-20	A cutting-edge RP-LC-DAD assay for small-n Denise Biagini ¹ , Silvia Ghimenti ¹ , Alessio Lenzi ² Federico Maria Vivaldi ¹ , Lorenzo Sembranti ¹ , Fa ¹ Dept. of Chemistry and Industrial Chemistry, Univers University of Pisa, Pisa, Italy
DDD-21	Simplified analysis of steroid esters in dried and the Andreas Thomas ¹ , Jasmin Thelen ¹ , Panagiotis ¹ Institute of Biochemistry/Center for Preventive Dopin Germany
DDD-22	Quantitative analysis of D/L-serine and D/L-p resolution labeling reagent D-FDLDA Daniel Keck ¹ , Yasunari Yamada ¹ , Tsunehisa Hira Kawase ³ , Ai Tsuji ⁴ , Shozo Tomonaga ⁵ , Takefum 'Nacalai Tesque, Inc., Japan, ² TAIYO NIPPON SANSC of Nutrition and Pathology, Inc., Japan, ⁴ Health Science University of Hiroshima, Japan, ⁵ Division of Applied B Japan, ⁶ Department of System Chemotherapy and M Graduate School of Pharmaceutical Sciences, Kyoto

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DET-01	The Global Network of Optical Magnetomet Jose zaragoza-calderon ¹ ¹ California State University, East Bay, Hayward, United
DET-02	Optimizing Low-Field NMR as an Online Det Johanna Tratz ¹ ¹ Karlsruhe Institute of Technology, Karlsruhe, Germa
DET-03	The Hyphenation of HPLC with X-Ray Fluore Organobromines Gaëlle Spileers ¹ , Pieter Tack ² , Laszlo Vincze ³ , I 'Separation Science Group, Department of Organic Belgium, ² Ghent University Centre for Tomography (University, Ghent, Belgium, ³ X-ray Microspectroscop University, Ghent, Belgium

Doping, Drugs & Diagnosis

letection of GLP-1 receptor agonists in serum and **ng** S^{1,2}

f Biochemistry, German Sport University, Cologne, Germany, gents, Cologne, Germany

mination profile of the selective androgen receptor ninated product ingestion for Doping Control

an Monitoring Center for Emerging Doping Agents, Cologne,

anabolic androgenic steroids based on UPLC-Q-TOF-

lua¹ ublic Security of China, Beijing, China

ce in human matrices: structural isomers of methyl-

Klein¹, Bas Van de Velde¹, Dick-Paul Kloos¹ ology, The Hague, Netherlands

ne Analysis of $\Delta 8$ -THC, $\Delta 9$ -THC, and Their Metabolites

erica, ²Restek France, Lisses, France

niddle molecular mass uremic toxins analysis Mariano De Cristofaro¹, Tommaso Lomonaco¹, abio Di Francesco¹

ity of Pisa, Pisa, Italy, ²Department of Veterinary Sciences,

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Sakellariou¹, Mario Thevis¹ ng Research, German Sport University Cologne, Cologne,

proline in serum using a highly sensitive chiral

ose¹, Motoshi Shimotsuma¹, Akari Ikeda², Takahiro ni Kuranaga⁶, Hideaki Kakeya⁶, Makoto Ozaki¹ Corporation, SI Innovation Center, Japan, ³Kyoto Institute ces Studies, Faculty of Regional Development, Prefectural iosciences, Graduate School of Agriculture, Kyoto University, lolecular Sciences, Division of Medicinal Frontier Sciences, University, Japan

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Frédéric Lynen¹

and Macromolecular Chemistry, Ghent University, Ghent, UGCT), Department of Physics and Astronomy, Ghent by and Imaging Group, Department of Chemistry, Ghent

DET-05 HPLC-ICP-MS technique for the speciation of polysulfides in battery electrolytes Atleksel SadyAoy ^{CP} , Martin Winter ¹⁴ , Simon Wiemer-Meyer, Sascha Nowak ¹ Minster, Germany, 'Interniotic University of Minster, Minster, Germany, 'Interniotical Graduate School for Battery Chemistry, Characterization, Analysis, Recycling and Application (BACCARA), University of Minster, Minster, Germany, 'Heinhold Kinsthuk Minster, Minster, Germany, 'Interniotical Graduate School for Battery Chemistry, Characterization, Analysis, Recycling and Application (BACCARA), University of Minster, Minster, Germany, 'Heinhold Kinsthuk Minster, MD-4, Forschungszentrum Julich GmbH, Minster, Germany Ditt, of Branschweig, Braunschweig, Germany DET-06 Peak Integration of Electropherograms – progress based on consolidated data sets Timothy Blanc!, Lu Hukin', Cari Sangeri, 'Hermann Weatzig' 'Univ characterization' 'VUV Analytics, Cedar Park, United States DET-07 Advancements Towards a Universal, Sensitive, and Selective Detection Technology for Liquid Chromatography Dale Harrison' 'VUV Analytics, Cedar Park, United States DET-08 Wide-Ranging Polynucleotide Separation Capabilities using Reversed Phase Particles with Variable Pore Geometry Shane Bachler!, Simonas Dapkus', Simonas Balcitinas', Binalkumari Mistry', James Peterman', Brandon Robson', Mauro De Pra ³ , Christof Mitterer' 'Thermo Fisher Scientific, Linuxus, Lithuania.'Thermo Fisher Scientific, Vinius, Lithuania.'Thermo Fisher Scientific, Segreta Italy.'Thermor Fisher Scientific, Winus, Lithuania.'Thermor Fisher Scientific, Winus, Lithuania.'Thermor Fisher Scientific, Vinius, Lithuania.' DET-09 DET-09 Screening and qualitative and quantitative analysis of 17 indole synthetic cannabinoids based on surface-anhanced Raman spectroscopy co	DET-04	Combining HPLC with a 3D-printed solid-phase extraction syringe filter for the detection and enrichment of triclosan and 2,4-dichlorophenol Shivangi Singh ¹ , You-Rong Wu ¹ , <u>Yeou-lih Huang</u> ¹ ¹ Kaohsiung Medical University, Kaohsiung, Taiwan
DET-06 Peak Integration of Electropherograms – progress based on consolidated data sets Timothy Blanci, Lu Hukini, Cari Sangeri, Hermann Waetzigi 'Univ. of Braunschweig, Braunschweig, Germany DET-07 Advancements Towards a Universal, Sensitive, and Selective Detection Technology for Liquid Chromatography Dale Harrison' 'UUV Analytics, Cedar Park, United States DET-08 Wide-Ranging Polynucleotide Separation Capabilities using Reversed Phase Particles with Variable Pore Geometry Shane Bechler', Simonas Dapkus', Simonas Balciünas ⁶ , Binalkumari Mistry', James Peterman', Brandon Robson', Mauro De Pra', Christof Mitterer' 'Thermo Fisher Scientific, University, Vinius, Lithuania, "Thermo Fisher Scientific, Segrate, Italy. "Thermo Fisher Scientific, Langerwehe, Germany, "Dept of Analytical and Environmental Chemistry, Vinius, University, Vinius, Lithuania DET-09 DET-09 Screening and qualitative and quantitative analysis of 17 indole synthetic cannabinoids based on surface-enhanced Raman spectroscopy coupled with liquid chromatography-tandem mass spectrometry Zhiku Tang', Honghua Huang', Lidong Che ¹ 'Technology Center Of Qingdao Customs, Qingdao, China DET-10 Characterization of four saturated fatty acids using gradient HPLC-CAD highlighting optimized evaporation temperature control features Dennis Koehler', Ian Acworth', Katherine Lovejoy', Benjamin Eggart', Florian Broghammer', Frank Steiner' 'Thermo Fisher Scientific, Germering, Germany: 'Thermo Fisher Scientific, Germering, Germany: DET-12 DET-11 Method Transfer and Optimization of Deoxycholic Acid Analysis Using HPLC-CAD Sylvia Grosse', Kelechi Amatobi', Katherine Lovejoy', Susanne Fabel', Frank Steiner' 'Thermo Fisher Scientific, Germering, Germany: DET-12 <	DET-05	HPLC-ICP-MS technique for the speciation of polysulfides in battery electrolytes <u>Aleksei Sadykov</u> ¹² , Martin Winter ^{1,3} , Simon Wiemers-Meyer ¹ , Sascha Nowak ¹ ¹ MEET Battery Research Center, University of Münster, Münster, Germany, ² International Graduate School for Battery Chemistry, Characterization, Analysis, Recycling and Application (BACCARA), University of Münster, Münster, Germany, ³ Helmholtz Institute Münster, IMD-4, Forschungszentrum Jülich GmbH, Münster, Germany
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DET-08 Wide-Ranging Polynucleotide Separation Capabilities using Reversed Phase Particles with Variable Pore Geometry Shane Bechler!, Simonas Dapkus?, Simonas Balčiūnas°, Binalkumari Mistry!, James Peterman!, Brandon Robson!, Mauro De Pra°, Christof Mitterer' "Thermo Fisher Scientific, Sunnyvale, United States, "Thermo Fisher Scientific, Vinius, Lithuania, "Thermo Fisher Scientific, Segrate, Itay, "Thermor Fisher Scientific, Langerwehe, Germany," Dept. of Analytical and Environmental Chemistry, Vilnius University, Vilnius, Lithuania DET-09 Screening and qualitative and quantitative analysis of 17 indole synthetic cannabinoids based on surface-enhanced Raman spectroscopy coupled with liquid chromatography-tandem mass spectrometry Zhixu Tang!, Honghua Huang!, Lidong Chel "Technolegy Center Of Oingdao Customs, Qingdao, China DET-10 Characterization of four saturated fatty acids using gradient HPLC-CAD highlighting optimized evaporation temperature control features Dennis Koehler!, Ian Acworth ² , Katherine Lovejoy ¹ , Benjamin Eggart ¹ , Florian Broghammer ¹ , Frank Steiner ¹ Thermo Fisher Scientific, Germering, Germany. "Thermo Fisher Scientific, Cambridge, United States DET-11 Method Transfer and Optimization of Deoxycholic Acid Analysis Using HPLC-CAD Sylvia Grosse ¹ , Kelechi Amatobi ¹ , Katherine Lovejoy ¹ , Susanne Fabel ¹ , Frank Steiner ¹ Thermo Fisher Scientific, Germering, Germany DET-12 Enhancing CAD Quantitation Through the Use of In Silico Values Brian Edwards ¹ Neurocrine Biosciences, San Diego, United States DET-13	DET-07	Advancements Towards a Universal, Sensitive, and Selective Detection Technology for Liquid Chromatography Dale Harrison ¹ ¹ VUV Analytics, Cedar Park, United States
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	DET-15	Ultra-low dispersion microfluidic cell design for UHPLC with online radio-activity detection

Environmental		
ENV-01	Chemical characterisation of sewage sludge supercritical fluid chromatography-mass spe Josephine Lübeck ¹ , Magnus Stummann ² , Karin Christensen ¹ ¹ University Of Copenhagen, Frederiksberg, Denmark	
ENV-02	Bioremediation of PFAS by Pseudomonas sp <u>Felina Hildebrand</u> ¹ , Ha Anh Thai ¹ , Teresa Steini Stephan Hann ¹ ¹ Department of Natural Sciences and Sustainable Re Department of Biotechnology and Food Science, BC	
ENV-03	Impregnated Chromatographic Columns for Solid-Liquid Interface: Extraction and Separ Angelina Noclain ¹ , Yohann Le Guennec ² , Laure ¹ Laboratoire GeoRessources, Université De Lorraine Génie des Procédés, Université De Lorraine, Nancy,	
ENV-04	Direct and Efficient Analysis of Short Chain I Aerosol Detector Liyan Jiang ¹ , Shiyao Song ¹ , Xiaoyu Wang ¹ , Xiny ¹ Sinopec, Shanghai, China	
ENV-05	Suspect and untargeted characterization of Marghera, an industrial site in the Northeast Roberta Zangrando ¹ , Elisa Scalabrin ¹ , Warren I Andrea Gambaro ² ¹ Institute of Polar Sciences, National Research Coun Ca' Foscari University of Venice, Venice, Italy	
ENV-06	Non-targeted Analysis of Agrochemical Con <u>Audrey Dewar</u> ¹ ¹ Université De Sherbrooke, Sherbrooke, Canada	
ENV-07	Combining asymmetric flow field-flow fraction spectrometry for analysis of nanoplastics <u>Maria Hayder</u> ¹ , Cloé Veclin ¹ , Aleksandra Chojna van Wezel ¹ , Alina Astefanei ¹ ¹ University of Amsterdam, Amsterdam, Netherlands, ³ Avantium BV, Amsterdam, Netherlands	
ENV-08	Specific Separation of TR Active Compound Halogen Bonding Ryo Yamaguchi ¹ , Takuya Kubo ^{1,2} ¹ Kyoto University, Katsura Nishikyo-ku, Japan, ² Kyoto	
ENV-09	Qualitative Analysis of Plastic Additives and Basin of the Venice Lagoon <u>Greta Palombella</u> ¹ , Elisa Scalabrin ^{1,2} , Roberta Z Andrea Gambaro ^{1,2} ¹ Ca' Foscari University, Venezia, Italy, 2National Rese	
ENV-10	Toxicological Profiling of Stone Wool Binder Using Machine Learning Approach Daniil Salionov ^{1,2} , Miroslav Nikolic ¹ , Denis V. Okl ¹ ROCKWOOL A/S, Hedehusene, Denmark, 2Aarhus	
ENV-11	Pesticide analysis of honey bees (Apis mellif Stéphanie Beaumont ¹ , Marie-Lou Morin ² , Pierr ¹ Université De Sherbrooke, Sherbrooke, Canada, 2U	

e biocrude under varying processing conditions by ectrometry

na Sjøholm², Jens Hansen², Asger Hansen¹, Jan

k, ²Topsoe A/S, Kgs. Lyngby, Denmark

pp.: Insights from Non-targeted LC-HRMS Analysis inger-Mairinger¹, Stefan Heinl², Reingard Grabherr²,

esources, BOKU University, Vienna, Austria, ²Department of DKU University, Vienna, Austria

Studying Rare Earth Elements Ion Exchange at the ration in Acidic Solutions for Recycling Applications ence Muhr², Alexandre Chagnes¹ e, Vandoeuvre-Lès-Nancy, France, ²Laboratoire Réactions et France

Dicarboxylic Acids by UHPLC Coupled with Charged

u Wang¹, Jiwen Li¹

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Raymond Lee Cairns¹, Elena Gregoris¹, Marco Roman²,

cil of Italy, Venice, Italy, ²Department of Environmental Sciences,

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²Postnova Analytics GmbH, Landsberg am Lech, Germany,

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Prefectural University, Shimogamo Hangi-cho Sakyo-ku, Japan

Emerging Pollutants in the Waters of the Drainage

Zangrando^{1,2}, Fabiana Corami^{1,2}, Beatrice Rosso^{1,2},

earch Council, Institute of Polar Sciences, Venezia, Italia

r Degradation Products in Simulated Lung Fluids

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ENV-12	Fast and Sensitive HPAEC-PAD Analysis of Neutral Sugars and Uronic Acids in Biomass Hydrolyzates Christian Marvelous ¹ , Jade van Schaik ¹ , Younes Tazini ¹ , Hendrik-Jan Brouwer ¹ , Jean-Pierre Chervet ¹ , M. Eysbeg ¹ 'Antec Scientific, Alphen A/d Rijn, Netherlands
ENV-13	Determination of 19 pharmaceutical pollutants in synthetic urine using RPLC/HILIC-ESI-QqQ-MS/ MS: Method development and environmental applications Zhongda Liu ¹ , Toon Verdonck ¹ , Raf Dweil ^{1,2} , Deirdre Cabooter ¹ ¹ Ku Leuven, Leuven, Belgium, ² University of Oxford, Oxford, United Kingdom
ENV-14	Asymmetric Flow Field Flow Fractionation (AF4) and Consequent Pyrolysis Gas Chromatography/Mass Spectrometry (Py-GC/MS): A Powerful Off-line Analytical Workflow to Characterize Nanoplastics Xiaoyu Zhang ¹ ¹ VITO, Mol, Belgium
ENV-15	Strategies for dealing with matrix effect in non-target screening of urban runoff samples using LC-ESI-MS <u>Thomas Karlsson</u> ¹ , Jan H. Christensen ¹ ¹ University of Copenhagen, Copenhagen, Denmark
ENV-16	Assessing Uncertainties in HPLC Phytoplankton Pigment Analysis: Insights from 14 Years of Interlaboratory Comparisons Elisabetta Canuti ¹ ⁷ European Commission, Joint Research Cantre (JRC), Ispra, Italy
ENV-17	Direct injection non-suppressed ion chromatography-mass spectrometry (IC-MS) method to monitor trifluoroacetic acid (TFA) levels in Antarctic ice cores Brett Paull ¹ , <u>Strella Sanz Rodriguez¹</u> , Harrison Stevens ¹ , Mingxia Lai ¹ , Andrew Bowie ² , Mark Curran ³ ¹ Australian Centre for Research on Separation Science (ACROSS), University Of Tasmania, Sandy Bay, Hobart, Australia, ² Institute for Marine and Antarctic Studies (IMAS), University of Tasmania, Hobart, Australia, ³ Australian Antarctic Division, Kingston, Australia
ENV-18	Spectral Analysis of Broad-Spectrum Sunscreens Using HPLC and a Photo Diode Array Detector <u>Catharine Layton</u> ¹ , Paul Rainville, Amy Woodsmall ¹ Waters Corporation, Milford, United States
ENV-19	Laboratory considerations and solutions for the analysis of PFAS by LC-MS/MS <u>Matt James</u> ¹ , Arianne Soliven ¹ , Gemma Lo ¹ , Tony Edge ² ¹ Avantor, Reading, United Kingdom, ² University of Liverpool, Liverpool, United Kingdom
ENV-20	Study of Thermal Decomposition Reactions in Lithium-ion Batteries by Integrating TGA and TOF- MS System Byung Gwun Jin ¹ , Jooyeon Oh ¹ , Hyun Sik Kim ¹ , Kun Cho ² , Young-Kwan Kim ³ , <u>Young Hwan Kim^{2,4}</u> 'ASTA corporation, Suweon, South Korea, ² Korea Basic Science Institute, Daejeon, South Korea, ³ Dongguk University, Seoul, South Korea, ⁴ Chungnam National University, Daejeon, South Korea
ENV-21	Development and validation of an analytical method to quantify TFA in water by liquid chromatography coupled to tandem mass spectrometry <u>Caroline Dufour</u> ¹ , Marie Faure ¹ , Karim Kedim ¹ , Clara Leroux ² , Mickaël Nicolas ¹ , Philippe Favre ¹ ⁷ Carso Lsehl, venissieux, France, ² WATERS Corporation, Guyancourt, France
ENV-22	Extraction of bisphenol analogues from water samples using hydrophobic eutectic solvents monitored by HPLC-MS/MS Zuzana Bosakova ¹ , Michal Adamek ¹ , Lucia Molnarova ¹ ¹ Charles University, Faculty of Science, Prague 2, Czech Republic
ENV-23	Determination of medium to very low polarity pollutants in whole water samples using direct aqueous injection LC–ESI-MS/MS analysis <u>Alena Bednarikova¹</u> , Peter Tölgyessy ¹ ¹ Water Research Institute, Slovak National Water Reference Laboratory, Bratislava, Slovakia
ENV-24	Retention behavior of Per- and Polyfluoroalkyl Substances (PFAS) in Anion Exchange Chromatography Jumana Khoury1, Andreas Seubert ¹ ¹ Philipps-Universität Marburg, Marburg, Germany

ENV-25	High performance liquid chromatography and samples of environmental interest <u>Elizabete Lima</u> ¹ , Viviane Bianchi ¹ ¹ Universidade Federal Do ABC, Santo Andre, Brazil
ENV-26	Investigation of Solvents & Additives Regardin Analytes Following EPA Method 1633A Lara Rosenberger ¹ , Yannick Hövelmann ¹ , Patrik ¹ Merck KGaA, 64293 Darmstadt, Germany, ² Merck Life Science GesmbH, 1120 Wien, Austria
ENV-27	Trends in airborne pesticides: A retrospective Mediterranean Region <u>Antonio López</u> ¹ , Esther Fuentes-Ferragud ^{1,2} , Am Coscollà ¹ ¹ FISABIO, Valencia, Spain, ² Environmental and Public H and Water, University Jaume I, Castelló de la Plana, Spa
ENV-28	Oxidative degradation of finasteride from wat products <u>Tereza Marikova</u> ¹ , Adam Loos ² , Petra Cihlarova ¹ , ¹ Forensic Laboratory of Biologically Active Substances Czech Republic, ² Department of Environmental Chem Czech Republic
ENV-29	Analysis of Ionic Compounds in Recycled Lith Vadim Kraft ¹ , Waldemar Weber ¹ , Gesa Schad ¹ ¹ Shimadzu Europa GmbH, Germany
ENV-30	Field-deployable compact LC-MS for determine (PFAS) Hans Jurgen Wirth ¹ , Shing Chung Lam ¹ , Boyjie F Hans Jurgen Wirth ^{1,3} ¹ Trajan Scientific And Medical, Ringwood, Australia, ² A School of Natural Sciences, University of Tasmania, Ho
ENV-31	Methodologies for Ultrashort-Chain and Com <u>Tina Brandscher</u> ¹ , Shun-Hsin Liang ² , Justin Stei ¹ Restek GmbH, Bad Homburg v.d.H., Germany, ² Restel
ENV-32	Do You Know the Environmental Impact of You Energy consumption of four InfinityLab LC syst Lena Höninger ¹ , Florian Rieck ¹ ¹ Agilent Technologies, Waldbronn, Germany
ENV-33	Analysis of PFAS in Tap Water Using a Pentafl Norikazu Nagae ¹ , Tadashi Kitta ² , Hirotake Takah ¹ ChromaNik Technologies Inc., Osaka, Japan, ² Japan F
ENV-34	Exposure of Slovak adults to DINCH plasticize metabolites determined by online SPE-HPLC <u>Renáta Górová</u> ¹ , Helena Jurdáková ¹ , Ľubica Mur ¹ Comenius University in Bratislava, Faculty of Natural S Slovakia, ² Slovak Medical University, Faculty of Public I Slovakia
ENV-35	Characterization of humic acids isolated from isotachophoresis and size-exclusion chromat Róbert Góra ¹ , Róbert Bodor ¹ , Marian Masár ¹ ¹ Department Of Analytical Chemistry, Faculty Of Natur Slovakia

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ik Appelblad², Romana Rigger³ .ife Science AS, 0277 Oslo, Norway, ³Merck Chemicals and Life

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malia Muñoz³, Esther Borràs³, Teresa Vera³, Clara

c Health Analytical Chemistry, Research Institute for Pesticides Spain, ³CEAM Foundation, Paterna, Spain

ater – analysis and identification of transformation

a¹, Lenka McGachy², Martin Kuchar¹ res, University of Chemistry and Technology, Prague, Prague, mistry, University of Chemistry and Technology, Prague, Prague,

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Firme¹, Matthew Askeland², Brett Paull³, Ibraam Mikhail³,

²ADE Consulting Group, Port Melbourne, Australia, ³HyTECH, Hobart, Australia

mprehensive PFAS Analysis in Water Samples eimling²

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ahashi², Ryuji Koyama¹, Tomoyasu Tsukamoto¹ n Food Inspection Corporation, Tokyo, Japan

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Food	
FOO-01	Nutritionally safer and in-situ green degradation of selected pesticides in the honey of various agro-climatic regions <u>Muhammad Zubair</u> ¹ , Sana Anwar ¹ , Sajjad Hussain Sumrra ¹ , Adnan Ayub ² ¹ Department of Chemistry, University of Gujrat, 50700 Pakistan, Gujrat, Pakistan, ² Department of Chemistry, University of Sahiwal, Pakistan, Sahiwal, Pakistan
FOO-02	Simultaneous determination of multiple nitrated polycyclic aromatic hydrocarbons (nitro-PAHs) and PAH 4 in chicken drumsticks using QuEChERS process and HPLC-fluorescence detection <u>Tuzz-Ying Song</u> ¹ , Chao-Chun Liao ² , Deng-Jye Yang ² 'Da-Yeh University, Changhua/Dacun, Taiwan, ² National Yang Ming Chiao Tung University, Taipei City, Taiwan
FOO-03	Are Your Herbal Teas Safe? Tropane Alkaloid Analysis Using SPE Combined With LC-MS/MS James Edwards ¹ ¹ Porvair Sciences, Wrexham, United Kingdom
F00-04	Characterization of antifungal surfactants synthesized by the antarctic Bacillus subtilis WA 51 strain <u>Magdalena Biesaga</u> ¹ , Renata Godlewska ¹ , Inga Suchodolska ¹ , Sc. Dorota Korsak ¹ ¹ University of Warsaw, Warsaw, Poland
FOO-05	Migration of (non-) intentionally added substances from food contact materials and their migration into food simulants. Semi-quantitative approach using LC-QTOF-MS for targeted/non- targeted compounds <u>Agata Kot-Wasik¹</u> , Eng Grzegorz Jasik ² , Eng Ewa Łopuchin ² , Andrzej Wasik ¹ ¹ Gdańsk University Of Technology, Faculty Of Chemistry, Department of Analytical Chemistry, Narutowicza 11/12, Gdańsk, Poland, ² J.S. Hamilton Poland, Chwaszczyńska 180, 81-571 Gdynia, Poland
FOO-06	Advanced separation and spectral techniques for identification of microbiomes and bacterial metabolites Dominika Błońska ^{1,2} ¹ Department of Environmental Chemistry and Bioanalytics, Faculty of Chemistry, Nicolaus Copernicus University, Toruń, Poland, ² Centre for Modern Interdisciplinary Technologies, Nicolaus Copernicus University, Poland
FOO-07	Development of an Innovative HILIC-MS/MS Method for Accurate Sugar Analysis in Agri-Food Extracts Alex Hidalgo ¹ , Mercè Granados ^{1,2} , Javier Saurina ^{1,2} , Sònia Sentellas ^{1,2,3} , <u>Oscar Núñez^{1,2,3}</u> ¹ Department of Chemical Engineering and Analytical Chemistry, University of Barcelona, Barcelona, Spain, ² Research Institute in Food Nutrition and Food Safety, University of Barcelona, Santa Coloma de Gramenet, Barcelona, Spain, ³ Serra Húnter Program, Generalitat de Catalunya, Barcelona, Spain
FOO-08	Comparison of modern analytical platforms for residue control of growth promoters in biological samples <u>Sebastian Löbbecke</u> ¹ , Florian Stappert ¹ , Florian Uteschil ¹ , Marco H. Blokland ² , Ane Arrizabalaga- Larrañaga ² , Juan F. Ayala-Cabrera ³ , Oliver J. Schmitz ¹ ¹ Universität Duisburg-Essen, Essen, Germany, ² Wageningen University & Research, Wageningen, The Netherlands, ³ University of the Basque Country, Leioa, Spain
FOO-09	Development of Multi-Residue Analytial Method for 10 Veterinary drugs in bee products using LC- MS/MS Sora Park ¹ , Hyesu Lee ¹ , Jin Ha Sim ¹ , So-Yeon Noh ¹ , Gui-Hyun Jang ¹ ¹ Pesticide and Veterinary Drug Residues Division, National Institue of Food and Drug Safety Evaluation, Ministry of Food and Drug Safety, Cheongju-si, South Korea
FOO-10	Automatic optimization of gradient profile using AI algorithms on functional food analysis with HPLC Yoshiyuki Watabe ¹ , Tetsuya Tanigawa ¹ , Shinichi Fujisaki ² , HIdetoshi Terada ² 'Kyoto University, Kyoto, Japan, ² Shimadzu Corporation, Kyoto, Japan
FOO-11	LC-MS Analysis of Food Additives and Contaminants in Processed Foods Jelle Verdonck ¹ , Katrien Poels ¹ , Lode Godderis ¹ ¹ Ku Leuven, Leuven, Belgium

F00-12	The Sweet and Bitter Truth of Honey: Detect <u>Christian Marvelous</u> ¹ , Thijs Mulder ¹ , Younes Taz M. Eysbeg ¹ ¹ Antec Scientific, Alphen a/d Rijn, Netherlands
FOO-13	Rapid Detection of Aspergillus spp. and Quar G1 and G2) in Kenyan Hybrid Maize Cultivars Techniques Grace Gachara ^{1,2} , Rashid Suleiman ² , Beatrice H ¹ Sokoine University Of Agriculture, Dar es Salaam, Ta University, Ben Guérir, Morocco
FOO-14	Analysis of tocopherol profiles by cyclic ion r Dominik Halman ¹ , Alena Šubová ² , Karel Lemr ³ ¹ Department of Analytical Chemistry, Faculty of Scier Czech Republic, ² Department of Analytical Chemistry cz, Olomouc, Czech Republic, ³ Department of Analytical Iemr@upol.cz, Olomouc, Czech Republic
F00-15	Validation of high-performance liquid chroms spectrometry for analysis of acrylamide <u>Abdalla Elbashir</u> ¹ ¹ Applied Analytical Chemistry, Faculty of Chemistry, U
FOO-16	Method development for targeted screening oils <u>Tomáš Kouřimský</u> ¹ ¹ Department of Food Analysis and Nutrition, Universit Republic
F00-17	Comparison of organic compounds in natura <u>Carsten Losch</u> ¹ , Julia Wesolowski ¹ , Juliane Kra ¹ Knauer Wissensschaftliche Geräte GmbH, Berlin, Ge
FOO-18	New methodological approaches to improve chromatographic determination of bispheno <u>Paweł Świt</u> ¹ , Joanna Orzeł ¹ , Sławomir Maślanka ¹ University of Silesia in Katowice, Faculty of Science a
F00-19	Development of a new calibration method for example of determining ascorbic acid in juice <u>Paweł Świt</u> ¹ , Sławomir Maślanka ¹ ¹ University of Silesia in Katowice, Faculty of Science a
FOO-20	HPLC-HRMS Characterization and Function lateriflora L. Extracts <u>Hammad Ullah</u> ¹ , Maria Vittoria Morone ² , Lorenz Alessandro Di Minno ^{1,3} , Anna De Filippis ² , Mass ¹ Department of Pharmacy, University of Napoli Feder ² Department of Experimental Medicine, University of NA, Italy, Naples, Italy, ³ CEINGE-BiotecnologieAvanz ⁴ International Research Center for Food Nutrition and
F00-21	Normal-phase HPLC as a superior alternative mineral oil aromatic hydrocarbon analysis in <u>Aleksandra Gorska</u> ¹ ¹ Analytical Chemistry Laboratory, Gembloux Agro-Bi
F00-22	Determination of multiple mycotoxins in rice UHPLC-MS/MS analysis Deng-Jye Yang ¹ , Yu Wu ² , Yi-Hsieng Samuel Wu ¹ National Yang Ming Chiao Tung University, Taipei, Tai ³ National Taiwan Ocean University, Kee-lung, Taiwan
FOO-23	Chromatographic Separation and Photodiod Foods, OTC Drugs, and Cosmetics Catharine Layton ¹ , Paul D. Rainville, Amy Wood ¹ Waters Corporation, Milford, United States

Food

ing Adulteration Using HPAEC-PAD zini¹, Hendrik-Jan Brouwer¹, Jean-Pierre Chervet¹,

ntitative Simultaneous Analysis of Aflatoxins (B1, B2, Using FT-IR and LC-ESI-MS/MS Spectro-analysis

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mobility – mass spectrometry

nce, Palacký University, dominik.halman01@upol.cz, Olomouc, ry, Faculty of Science, Palacký University, alena.subova01@upol. tical Chemistry, Faculty of Science, Palacký University, karel.

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University of Duisburg-Essen, Essen, Germany, Essen, Germany

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and Technology, Institute of Chemistry, Katowice, Poland

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and Technology, Institute of Chemistry, Katowice, Poland

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za Francesca De Lellis¹, Daniele Giuseppe Buccato¹, similiano Galdiero², Maria Daglia^{1,4}

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samples by QuEChERS-based extraction and

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FOO-24	Separation challenges for hydrophilic aquatic biotoxins <u>Andrew Turner</u> ¹ ¹ Cefas, Weymouth, United Kingdom
FOO-25	Determination of Chloropropanols in oil-based supplements <u>Thamer Alghamdi</u> ¹ , Arwa Alhafi ² , Mohamed Habila ² , Ahmed Aqel ² 'Saudi Food and Drug Authority, RIYADH, Saudi Arabia, ² King Saud University, RIYADH, Saudi Arabia
FOO-26	LC-MS/MS-Based QuEChERS Method for Simultaneous analysis of 11 OPFRs in Grains Jumi Lee ¹ , Xin Song ¹ , Hyung Min Kim ¹ ¹ Chungnam National University, Daejeon, South Korea
F00-27	Simultaneous Analysis of UV Stabilizers in Pork by using QuEChERS and LC-MS/MS <u>Hye Jeong Jeong</u> ¹ , Xin Song ¹ , Hyung Min Kim ¹ ¹ Chungnam National University, Daejeon, South Korea
FOO-28	Isolation of phenolic compounds from olive pomace by means of preparative HPLC <u>Carmelo Coppolino</u> ¹ , Francesco Cacciola ¹ , Marina Russo ¹ , Paola Dugo ^{1,2} , Luigi Mondello ^{1,2} ¹ Messina Institute of Technology, c/o Department of Chemical, Biological, Pharmaceutical and Environmental Sciences, Former Veterinary School, University of Messina, Messina, Italy, ² Chromaleont s.r.l., c/o Department of Chemical, Biological, Pharmaceutical and Environmental Sciences, University of Messina, Messina, Italy
FOO-29	Gluten Intolerance Triggered by Fructans: A Sensitive Method for the Analysis of Fructans Using HPAEC-PAD Jean-Pierre Chervet ¹ , Chrsitian Marvelous ¹ , Younes Tazini ¹ , Thijs Mulder ¹ , Hendrik-Jan Brouwer ¹ ¹ Antec Scientific, Alphen a/d Rijn, Netherlands
FOO-30	Analysis of amino acids in plant-based proteins and pet foods – Modification of AOAC 2018.06 to fit for novel foods and ingredients <u>Jinchuan Yang</u> ¹ , Paul Rainville ¹ , Stephanie Harden ¹ ¹ Waters Corporation, Hopkinton, United States
FOO-31	Proteolytic digestion of gliadins and glutenins by using tripsin and chymotripsin <u>Katarzyna Zamłyńska</u> ^{1,2} , Agata Sumara ¹ , Anna Kozub ¹ , Emilia Fornal ¹ , Agnieszka Nawrocka ³ ¹ Medical University of Lublin, Department of Bioanalitics, Jaczewskiego 8b, 20-090 Lublin, Poland, ² Maria Curie- Sklodowska University, Institute of Biological Science, Department of Genetics and Microbiology, Akademicka 19, 20-033 Lublin, Poland, ³ Polish Academy of Sciences, Institute of Agrophysics, Doświadczalna 4, 20-290 Lublin, Poland
FOO-32	Sustainable approaches to olive oil quality testing: using HPLC and TLC for comprehensive analysis <u>Markus Burholt¹</u> , Michaela Oberle ¹ ¹ Merck Lifescience KGaA, Darmstadt, Germany
FOO-33	Green NADES-SLE approach for detecting Non-Phthalate Plasticizers in radish (Raphanus sativus) via UHPLC-Q-Orbitrap Raquel Capilla Flores ¹ , Laura Carbonell Rozas ¹ , Rosalía López Ruíz ¹ , Roberto Romero González ¹ , Antonia Garrido Frenich ¹ 'Research Group "Analytical Chemistry of Contaminants", Department of Chemistry and Physics, Research Centre for Mediterranean Intensive Agrosystems and Agri-Food Biotechnology (CIAIMBITAL), University of Almeria, Agrifood Campus of International Excellence, ceiA3, E-04120 Almeria, Almería, Spain
FOO-34	Sugars Short-Term Stability Study on a Candidate Reference Material of Bee Honey Iman Charaf Aldin ¹ , Khalid F. Fawy ¹ , Khalid Ali Khan ^{2,3} , Hamed A. Ghramh ^{2,4} , Abubakr M. Idris ^{1,5} ¹ Department of Chemistry, College of Science, King Khalid UniversityKing Khalid Uinversity, Abha 62529, Saudi Arabia, ² Center of Bee Research and Its Products, King Khalid University, Abha 62529, Saudi Arabia, ³ Applied College, King Khalid University, Abha 62529, Saudi Arabia, ⁴ Department of Biology, Faculty of Science, King Khalid University, Abha 62529, Saudi Arabia, ⁵ Research Center for Advanced Materials Science (RCAMS), King Khalid University, Abha 62529, Saudi Arabia
FOO-35	Benefits of MaxPeak High Performance Surfaces in the Analysis of Bovine Lactoferrin in Infant Formula and Pediatric/Adult Nutritional Formula Jinchuan Yang ¹ , Paul Rainville ¹ , Stephanie Harden ¹ ¹ Waters Corporation, Milford, United States

FOO-36	Separation and purification of fat content of or aromatic hydrocarbons by microwave-assisted Pablo Dualde ¹ , Pablo Miralles ¹ , Antonio Lopez ¹ , O Igualada ² , <u>Clara Coscolla¹</u> ¹ Fisabio, Spain, ² Public Health Laboratory of Valencia,
FOO-37	Features and benefits of using a slotted band <u>Stephen Ayrton</u> ¹ , David Gordon ¹ ¹ Waters Corporation, Wilmslow, United Kingdom
FOO-38	Adaptive Responses of Garlic to Climate Stree Organosulfur Compound Biosynthesis via LC <u>Tvrtko Karlo Kovačević</u> ¹ , Smiljana Goreta Ban ¹ , I ¹ Department of Chemistry, University of Gujrat, 50700 University of Sahiwal, Pakistan, Sahiwal, Pakistan
FOO-39	Evaluation of the phytochemical profile and p Canary Islands Ruth Rodríguez Ramos ¹ , Carla Calzadilla García V. Herrera Herrera ^{1,2} , Miguel Ángel Rodríguez D ¹ Departamento de Química, Unidad Departamental de Laguna (ULL). Avda. Astrofísico Fco. Sánchez s/n, 382 Laguna, Spain, ² Instituto Universitario de Bio-Orgánic Astrofísico Fco. Sánchez, 38206 San Cristóbal de La
FOO-40	Non-targeted analysis for emerging pesticide Hong-Jhang Chen ¹ ¹ National Taiwan University, TAIPEI, Taiwan
FOO-41	Assessment of bioactive compounds in bana Canary Islands Ruth Rodríguez Ramos ¹ , Gerad de Jesús Moral Mayor ¹ , Antonio V. Herrera Herrera ^{1,2} , Bárbara S ¹ Departamento de Química, Unidad Departamental de Laguna (ULL). Avda. Astrofísico Fco. Sánchez s/n, 382 de Bio-Orgánica Antonio González. Universidad de La Cristóbal de La Laguna, Spain
F00-42	HPLC Profiling of Barley-Derived Melanin: Me <u>Veronika Batková</u> ¹ , Štefan Šatka ¹ , Lenka Jourov Zavřelová ² , Eva Anzenbacherová ¹ ¹ Department of Medical Chemistry and Biochemistry, ² Agricultural Research Institute Kromeriz, Ltd., Kromě
lon Mob	ility
IM-01	Fast, low-noise, high-gain current amplifier for mobility spectrometry via the electrospray cu <u>Tim Ostermeier</u> ¹ , Alexander Nitschke ¹ , Christian Belder ² , Stefan Zimmermann ¹ ¹ Leibniz University Hannover, Hannover, Germany, ² Le
IM-02	Ultra-high Throughput Electrospray Droplet M Spectrometry Christian Thoben ¹ , Alexander Nitschke ¹ , Klaus M Zimmermann ¹ ¹ Leibniz University Hannover, Institute of Electrical Eng ² Leipzig University, Institute of Analytical Chemistry, La
IM-03	Ion-mobility derived CCS-m/z trendlines for in emerging concern and their biotransformation Lidia Belova ¹ ¹ Toxicological Centre, University of Antwerp, Wilrijk, Bu

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chocolate products for the analysis of polycyclic ted extraction and selective solid-phase extraction , Cristina Aleixandre², Miguel Angel Cortes², Carmen

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essors: Linking Primary Energy Metabolism and CMS-Based Metabolite Profiling

, Marina Krpan², Dean Ban¹, Anja Batel¹, Nikola Major¹ 20 Pakistan, Gujrat, Pakistan, ²Department of Chemistry,

pesticide contamination in aloe vera produced in the

iía¹, Adrián Conde Díaz¹, Álvaro Santana Mayor¹, Antonio Delgado¹

de Química Analítica, Facultad de Ciencias, Universidad de La 3206 San Cristóbal de La Laguna, Spain, San Cristóbal de La ica Antonio González. Universidad de La Laguna (ULL). Avda. a Laguna, Spain, San Cristóbal de La Laguna, España

les in plant-based food using LC-HRMS

ana peels as by-products of the banana industry in the

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de Química Analítica, Facultad de Ciencias, Universidad de La 8206, San Cristóbal de La Laguna, Spain, ²Instituto Universitario La Laguna (ULL). Avda. Astrofísico Fco. Sánchez, 38206, San

lethod Development Using a HILIC Column wá¹, Veronika Frýbortová¹, Petr Martinek², Marta

r, Palacky University Olomouc, Olomouc, Czech Republic, ěříž, Czech republic

or synchronizing droplet microfluidics and ion current

an Thoben¹, Moritz Hitzemann¹, Klaus Welters², Detlef

eipzig University, Leipzig, Germany

Microfluidics Enabled by Ultra-fast Ion Mobility

Welters², Julius Schwieger², Detlev Belder², Stefan

ngineering and Measurement Technology, Hannover, Germany, Leipzig, Germany

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	<u>Fabrizio Merciai</u> ¹ , Eduardo Maria Sommella ¹ , Pietro Campiglia ² ¹ University Of Salerno, Fisciano, Italy
IM-05	Combination of HPLC and SLIM: An extremely powerful analysis platform <u>Cedric Thom</u> ¹ ¹ University Of Duisburg-Essen - Applied Analytical Chemistry, Essen, Germany
IM-06	Ultra-High Throughput Qualitative and Quantitative Analysis of Cannabinoids Using Differential Mobility Spectrometry of Radical Cations and Acoustic Ejection Mass Spectrometry Juliette Bottagisi ¹ , Patrick Mueller ¹ , Chang Liu ² , Tom Covey ² , Yves Le Blanc ² , Gérard Hopfgartner ¹ ¹ University of Geneva, Geneva, Switzerland, ² SCIEX, Concord, Canada
IM-07	Bridging the Gap in Ion Mobility: Constructing an In-House LC-MS Library for Metabolites Daniel Marques de Sa e Silva ^{1,2} , Marlene Thaitumu ^{3,2} , Klidel Relin ⁴ , Theano Rizou ⁵ , Aiko Barsch ⁶ , Michael Witting ⁷ , Georgios Theodoridis ^{1,2} , Prof. Helen Gika ^{3,2} , <u>Christina Virgiliou^{2,5}</u> ¹ Department of Chemistry, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece, ² BiOMIC_AUTh, Center for Interdisciplinary Research and Innovation (CIRI-AUTH), Balkan Center, B1.4, 57001 Thessaloniki, Greece, ³ Department of Medicine, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece, ⁴ Metabolomics and Proteomics Core, Helmholtz Zentrum München, Neuherberg, Germany, ⁶ Chemical Engineering Department, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece, ⁶ Bruker Daltonics GmbH & Co. KG, Fahrenheitstraße 4, 28359, Bremen, Germany, ⁷ Chair of Analytical Food Chemistry, TUM School of Life Sciences, Technical University of Munich, Freising-Weihenstephan, Germany
IM-08	Dual Polarity Ion Mobility Spectrometer with High Repition Rate for Coupling with Hyper-Fast Gas Chromatography <u>Alexander Nitschke</u> ¹ , Moritz Hitzemann ¹ , Jonas Winkelholz ¹ , Ansgar T. Kirk ¹ , Christoph Schaefer ¹ , Tim Kobelt ¹ , Christian Thoben ¹ , Martin Lippmann ¹ , Jan A. Wittwer ¹ , Stefan Zimmermann ¹ ¹ Leibniz University Hannover, Institute of Electrical Engineering and Measurement Technology, Hannover, Germany
IM-09	Fragmentation in cyclic traveling wave ion mobility cell <u>Karel Lemr</u> ^{1,4} , Štěpán Dostál ² , František Tureček ³ ¹ Joint Laboratory of Optics of Palacký University and Institute of Physics AS CR, Faculty of Science, Palacký University, k.lemr@upol.cz, Olomouc, Czech Republic, ² Department of Analytical Chemistry, Faculty of Science, Palacký University, stepan.dostal@upol.cz, Olomouc, Czech Republic, ³ Department of Chemistry, University of Washington, turecek@uw.edu, Seattle, United States, ⁴ Department of Analytical Chemistry, Faculty of Science, Palacký University, karel.lemr@upol.cz, Olomouc, Czech Republic
Large	Molecules
LAR-01	Characterization of human papillomavirus virus-like particles using SEC and AF4 coupled with MALS Aurore Boclinville ¹ , Nicolas Thelen ² , Marc Thiry ² , Nathalie Jaccobs ³ , Marianne Fillet ¹ , Anne-Catherine Servais ¹ ¹ Laboratory for the Analysis of Medicines (LAM), Center for Interdisciplinary Research on Medicines (CIRM), University of Liège, Liège, Belgium, ² Cellular and Tissular Biology, GIGA-Neurosciences, University of Liège, Liège, Belgium, ³ Cellular and Molecular Immunology, GIGA-Research, University of Liège, Liège, Belgium
LAR-02	Potential of CZE for analysing of nucleic acid-based molecules <u>Elisa Renard</u> ¹ , Clara Davoine ¹ , Marianne Fillet ¹ ¹ University Of Liège - Department of pharmacy - Laboratory for the Analysis of Medicines - Center for Interdisciplinary Research on Medicines, Liège, Belgium
LAR-03	Studying structure/function relation of therapeutic antibodies using affinity chromatography and affinity-resolved size exclusion chromatography Liesa Verscheure ^{1,2} , Isabel Vandenheede ¹ , Eline De Rore ¹ , Mabelle Meersseman ¹ , Valerie Hanssens ³ , Kris Meerschaert ³ , Hilde Stals ³ , Frederic Lynen ² , Pat Sandra ¹² , Filip Borgions ³ , Koen Sandra ^{1,2} ¹ RIC Group, Kortrijk, Belgium, ² Ghent University, Ghent, Belgium, ³ argenx, Ghent, Belgium
LAR-04	Critical Figures of Merit for the Isolation of Exosomes from Urine, Bovine Milk, and Cell Culture on Capillary-Channeled Polymer Fiber Phases: Dynamic Binding Capacities, Throughput, Purity, and

Microbore-UHPLC 4D-Trapped Ion Mobility for sensitive and robust low-input Untargeted

LAR-05	Insights into the chemical composition districted high sector of the sec
LAR-06	Novel Strategy for Characterisation of Extra Chromatography and Lipidomic Profiling by Michal Mlynarczyk ¹ , Raphael Ewonde-Ewond Matinha-Cardoso ^{4,5,7} , Paula Tamagnini ^{6,7} , Paula Sebastiaan Eeltnik ⁹ , Weronika Hewelt-Belka ¹ ¹ Department of Analytical Chemistry, Faculty of Chen ² Department of Chemistry, Clemson University, Clem Immunology, Intercollegiate Faculty of Biotechnolog Gdansk, Poland, ⁴ MCbiology Doctoral Program, ICB University of Porto, Porto, Portugal, ⁶ /3S - Instituto de Porto, Portugal, ⁷ Department of Biology, Faculty of S Pharmaceutical Chemistry, Medical University of Gd and Separations Science, Vrije Universiteit Brussel, B
LAR-07	Characterization of the oligomerization state Océane Bauwens ¹ , Caroline Mathieu ² , Raphae ¹ Laboratory for the analysis of Medecines - Departm drug research institute - University Of Louvain, Wolu
LAR-08	Membrane Surface Coatings Influence the E Asymmetric Flow Field-Flow Fractionation Johann Savinsky ¹ ¹ RWTH Aachen University - Chair Of Chemical Engin
LAR-09	Evaluation of non-chlorinated Solvents for h <u>Subrajeet Deshmukh</u> ¹ , Jan-Hendrik Arndt ¹ , Tik Eric Schwerdtfeger ² ¹ Fraunhofer Institute for Structural Durability and Sys Technology Center, Chevron Phillips Chemical, Bart
LAR-10	Separation and Characterization of High Mo Fractionation Hyphenated with Multi-Angle Concentration Detection Roland Drexel ¹ 'Postnova Analytics, Landsberg Am Lech, Germany
LAR-11	Comprehensive Analysis of Adeno-Associat Anion Exchange and Size Exclusion Chroma Christof Mitterer ¹ , Ke Ma ² , Jessie Ashworth ³ , V Lin ¹ Thermo Fisher Scientific, Langerwehe, Germany, ² T Scientific, Alachua, USA
LAR-12	Energetic and kinetic criteria for the use of c biopolymers Johann Far ¹ ¹ University Of Liège, Mass Spectrometry Laboratory
LAR-13	Multiple characterization of protein-DNA dro Hailin Wang ¹ , Xingting Lin, Qiang Zhao, Guibin ¹ Research Center For Eco-environmental Sciences,
LAR-14	SFC meets SEC - 3 modes in one application <u>Mijo Stanic</u> ¹ , Adrian Schust ¹ ¹ Chromicent GmbH, Berlin, Germany

IM-04

Lipidomics

Large Molecules

ibution of linear low-density polyethylene by analytical

oor Macko¹, Masud Monwar², Jeff Fodor², Eric

stem Reliability, Darmstadt, Germany, ²Bartlesville Research & lesville, USA

cellular Vesicles Based on Hydrophobic Interaction LC-MS

e², Felicja Gajdowska³, Mikołaj Klimczuk³, Jorge o Oliveira^{5,7}, Mariusz Belka³, Danuta Gutowska-Owsiak³,

mistry, Gdansk University of Technology, Gdansk, Poland, nson, USA, ³Laboratory of Experimental and Translational ny of University of Gdansk and Medical University of Gdańsk, AAS – School of Medicine and Biomedical Sciences Abel Salazar, disciplinary Centre of Marine and Environmental Research, e Investigação e Inovação em Saúde, University of Porto, Sciences, University of Porto, Porto, Portugal, ⁸Department of lansk, Gdansk, Poland, ⁹Department of Chemical Engineering Brussel, Belgium

e of LDH-B by SEC-UV-MALS

el Frédérick², Marianne Fillet¹ nent of Pharmacy - University Of Liege, Liege, Belgium, ²Louvain we-Saint-Lambert, Belgium

Elution Behavior of Differently Charged Liposomes in

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high-temperature HPLC analysis of polyolefins bor Macko¹, Robert Bruell¹, Masud Monwar², Jeff Fodor²,

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lar Mass Polymers using Thermal Field-Flow Light Scattering, Intrinsic Viscosity Detection and

ted Virus Quality Using 3 µm Monodisperse Strong atography Columns

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(MSlab), Belgium

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Jiang Chinese Academy Of Sciences, China

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LC-MS

LC-MS

LCMS-01	The development of three novel mass spectrometric-based bioanalytical approaches evading the challenging interference from tryptophan to determine the psychoactive drug psilocin in plasma and brain tissues Amir Khajavinia ¹ , Jordan Reekie ¹ , Randy W. Purves ¹² , Robert B. Laprairie ¹³ , <u>Anas El-Aneed¹</u> ¹ College of Pharmacy and Nutrition, University Of Saskatchewan, Saskatoon, Canada, ² Canadian Food Inspection Agency, Saskatoon, Canada, ³ Department of Pharmacology, College of Medicine, Dalhousie University, Halifax, Canada
LCMS-02	A Novel Pinhole Emitter Chip for Micro SFC-MS with Integrated Dilution-Free Fluidic Back- Pressure Regulation Julius Schwieger ¹ , Chris Weise ¹ , Detlev Belder ¹ ¹ University Leipzig, Leipzig, Germany
LCMS-03	Complex formulating agents in plant protection products – A deep dive into ethoxylated and propoxylated alcohols Jonathan Falchetto-Bruckner ¹ , Christoph Czerwenka ¹ ¹ Austrian Agency For Health And Food Safety - Ages, Vienna, Austria
LCMS-04	Elucidation of Glycosylation Profiles in Anti-SARS-CoV-2 Human Monoclonal Antibodies by FcyRIIIa Affinity Chromatography coupled with native mass spectrometry Sunil Kumar ¹ , Barbara Oliviero ² , Stefania Mantovani ² , Gaia Donetti ³ , Mario Umberto Mondelli ² , Sara Tengattini ¹ , Gabriella Massolini ¹ , Marco Terreni ¹ , Caterina Temporini ¹ 'Department Of Drug Science, University Of Pavia, Pavia, Italy, ² Research Department, SC Molecular Medicine, Laboratory of Clinical Immunology, Fondazione IRCCS Policlinico San Matteo, Pavia, Italy, ³ Department of Internal Medicine and Therapeutics, University of Pavia, Pavia, Italy
LCMS-05	Nanoflow Size Exclusion Chromatography – Native Mass Spectrometry of Intact Proteoforms and Protein Complexes Ziran Zhai ¹ ¹ University of Amsterdam, Netherlands
LCMS-06	Aureobasidium pullulans: A promising source of biosurfactants – Deciphering the chemical space of polyol lipids by HPLC-HRMS Philipp Otzen ¹ 'Institute of Inorganic and Analytical Chemistry, University Münster, Münster, Germany
LCMS-07	Development and comprehensive evaluation of novel bioanalytical methods for therapy individualisation for combinations of CDK4/6 inhibitors and antihormonal drugs in breast cancer Lu Turković ¹ , Zvonimir Mlinarić ¹ , Tajana Silovski ^{2,3} , Biljana Nigović ¹ , Miranda Sertić ¹ ¹ University of Zagreb Faculty of Pharmacy and Biochemistry, Zagreb, Croatia, ² Department of Oncology, University Hospital Centre Zagreb, Zagreb, Croatia, ³ University of Zagreb School of Medicine, Zagreb, Croatia
LCMS-08	Magnetic particle-based immobilized enzyme reactors for bioanalysis Yachao Hao ¹ , Michael Laemmerhofer ¹ ¹ University of Tuebingen, Tuebingen, Germany
LCMS-09	Development of a LC-MS/MS analysis method to quantify bufalin and marinobufagenin in plasma <u>Laëtitia Ghiande</u> ^{1,4} , Mathilde Wells ¹ , Aline Genbauffe ² , Fabrice Journé ² , Victor Lefebvre ¹ , Delphine Beukens ¹ , Tania Karasiewicz ³ , Baptiste Leroy ³ , Ruddy Wattiez ³ , Bertrand Blankert ¹ ¹ Laboratory of Pharmaceutical Analysis - University of Mons, MONS, BELGIUM, ² Laboratory of Human Biology and Toxicology - University of Mons, MONS, BELGIUM, ³ Laboratory of Proteomics and Microbiology - University of Mons, MONS, BELGIUM, ⁴ Faculty of Pharmacy - University of Lille, LILLE, FRANCE
LCMS-10	A Multi-Faceted Approach to Understanding Complex Chromatography of Acylcarnitine Profiles: Triple-Quadrupole, Orbitrap, and Beyond Dahai Shao ¹ ¹ Department of Pathology and Laboratory Medicine, The Cleveland Clinic Foundation, Cleveland, United States, ² Cleveland Clinic Lerner College of Medicine of School of Medicine, Case Western Reserve University, Cleveland, United States
LCMS-11	Novel LC-MS techniques for the development of covalent kinase inhibitors Benedikt Masberg ¹ , Matthias Gehringer ^{2,3} , Michael Laemmerhofer ¹ ¹ Pharmaceutical Bioanalysis, University of Tuebingen, Tuebingen, Germany, ² Cluster of Excellence iFIT - Image- Guided & Functionally Instructed Tumor Therapies, Tuebingen, Germany, ³ Pharmaceutical/Medicinal Chemistry, University of Tuebingen, Tuebingen, Germany

LCMS-12	Liquid chromatography and SWATH mass s Philipp Seyfried ¹ , Cornelius Knappe ¹ , Michael ¹ University Of Tuebingen, Tübingen, Germany
LCMS-13	Targeted UHPLC-MS/MS analysis of steroid surrogate calibration for accurate quantifica Tamara Sabrina Janker ¹ , Min Su ¹ , Bernhard Dr Derntl ^{3,5} , Michael Lämmerhofer ¹ ¹ Institute of Pharmaceutical Sciences, Pharmaceutical ² Metabolomics Core Facility, EMBL, Heidelberg, Ge Tuebingen Center for Mental Health (TüCMH), Tueb Science for Life Laboratory, Uppsala University, Upp University of Tuebingen, Tuebingen, Germany
LCMS-14	Sex-specific Alterations in Serum IgG N-gly Sclerosis revealed by HILIC-QToF-MS Analy Dalma Dojcsák ¹ , Csaba Váradi ¹ ¹ University Of Miskolc, Miskolc, Hungary
LCMS-15	How electrospray tuning counteracts the m <u>Ivan Petrik</u> ¹ , Michal Kaleta ¹ , Jitka Siroka ¹ , Ondr ¹ Laboratory Of Growth Regulators, Palacky Univers Republic
LCMS-16	DirectInject-LCMS: Real-time Analysis by Lo <u>Yusuke Sato</u> ¹ , Yusuke Sato ¹ , Lars Yunker ¹ , Sha Watanabe ¹ ¹ Telescope Innovations Crop., Vancouver, Canada, ²
LCMS-17	Fast liquid and ionic chromatography coupl ice core investigation <u>Elena Barbaro</u> ^{1,2} , Azzurra Spagnesi ^{1,2,3} , Stefan Fabrizio De Blasi ^{1,2} , Andrea Spolaor ^{1,2} , Daniele ¹ Institute of Polar Sciences - CNR of Italy, Venice, Ita Statistics, Ca' Foscari University of Venice, Venice, Ita Academy of Sciences, Innsbruck, Austria
LCMS-18	Identification of Per- and Polyfluoroalkyl Su Chia-Yang Chen ^{1,2} , Yun-Chan Lin ¹ ¹ Institute of Food Safety and Health, College of Publ. ² Institute of Environmental and Occupational Health Taipei City, Taiwan
LCMS-19	Revealing Extensive Glycoform Diversity Of Separation Strategies Coupled To Mass Spe Sigourney Karijodikoro ¹ ¹ Leiden University Medical Center, Leiden, Netherlau
LCMS-20	Methodology for risk assessment of nitrosa antidiabetic formulations Ravisinh Solanki ¹ ¹ Gujarat Technological University, Ahmedabad, India
LCMS-21	Method development and validation of a sin human plasma Stephanie Keane ¹ , Geoff Wallace ¹ ¹ Resolian, Fordham, United Kingdom
LCMS-22	UHPLC-HRMS/MS characterization of Naboradiation treatment Nives Galić ¹ , Ivana Tartaro Bujak ² , David Klarić ¹ Faculty Of Science, University Of Zagreb, Zagreb, C Bošković Institute, Zagreb, Croatia

spectrometry of esterified full chain length oxylipins

ds and hormonal contraceptives in plasma using sation

rotleff², Zoé Bürger^{3,4}, Ann-Christin S. Kimmig³, Birgit

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CMS for Reaction Monitoring ad Grunert¹, Paloma Prieto¹, Tomohiro Shagawa², Kyoko

²Shimadzu Scientific Instruments, Inc., Columbia, USA

led with mass spectrometer: breaking new ground in

no Frassati², Matteo Feltracco², Jacopo Gabrieli^{1,2}, e Zannoni², Andrea Gambaro^{1,2}, Carlo Barbante^{1,2} aly, ²Department of Environmental Sciences, Informatics and Italy, ³Institute for Interdisciplinary Mountain Research, Austrian

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LCMS-23	UHPLC-HRMS method development and stability assessment of Cinnarizine:β-cyclodextrin binary systems under forced degradation conditions David Klarić ¹ , Mario Jug ² , Nives Galić ¹ ¹ Faculty Of Science, University Of Zagreb, Zagreb, Croatia, ² Faculty of Pharmacy and Biochemistry, University of Zagreb, Zagreb, Croatia
LCMS-24	Development of a simple multi-residue determination method of 80 veterinary drugs in Oplegnathus punctatus by liquid chromatography coupled to quadrupole Orbitrap mass spectrometry Zhixu Tang ¹ , Lidong Che ¹ , Shicheng Fang ² , Honghua Huang ¹ , Xin Gao ² ¹ Technology Center Of Qingdao Customs, Qingdao, China, ² Ocean University of China, Qingdao, China
LCMS-25	Determination of Aromatic Amino Acids and their sulfated-conjugated metabolites in urine by LC- OqQ-MS <u>Georgios Theodoridis</u> ¹ , Domniki Gallou ¹² , Jaime Morillas Armenta ³ , Alma Villaseñor ^{3,4} , Olga Begou ^{2,5} , Helen Gika ^{2,6} , Ana Gradillas Nicolás ³ , Coral Barbas ³ , Victor González Ruiz ¹ ¹ Aristotle University Thessaloniki, Thermi, Greece, ² Biomic AUTh, Center for Interdisciplinary Research and Innovation (CIRI-AUTH), Balkan Center B1.4, Thessaloniki, Greece, ³ Centro de Metabolómica y Bioanálisis (CEMBIO), Facultad de Farmacia, Universidad San Pablo-CEU, CEU Universities, Boadilla del Monte, Madrid, Spain, ⁴ Departamento de Ciencias Médicas Básicas, Instituto de Medicina Molecular Aplicada (IMMA) Nemesio Díez, Facultad de Medicina, Universidad San Pablo-CEU, CEU Universities, Boadilla del Monte, Madrid, Spain, ⁵ ThetaBiomarkers, Balkan Center, Thessaloniki, Greece, ⁶ Aristotle University of Thessaloniki, Department of Medicine, Thessaloniki, Greece
LCMS-26	Efficient Tandem Capillary Flow LC-MS with Short µPAC Columns and a Single Ionization Source <u>Natalie Van Landuyt</u> ¹ , Jeff Op de Beeck ¹ , Paul Jacobs ¹ ¹ Thermo Fisher Scientific, Zwijnaarde, Belgium
LCMS-27	Effect of impurities and matrix compounds of ADME samples in HPLC-MS analysis Ildikó Kálomista ¹ ¹ Gedeon Richter Plc., Hungary
LCMS-28	Polyphenols of sour cherry and change in their content due to lactic acid fermentation Kamila Borowiec ² , <u>Anna Stachniuk¹</u> , Elwira Komoń-Janczara ² ¹ Medical University of Lublin, Department of Bioanalytics, Jaczewskiego 8b St., 20-090 Lublin, Poland, ² University of Life Sciences in Lublin, Department of Biotechnology, Microbiology and Human Nutrition, Skromna 8 St., 20-704 Lublin, Poland
LCMS-29	Determination of indole-acetic acid in tomato plants treated with biopreparations containing Methylobacterium oryzae CBMB20 Katarzyna Zamłyńska ^{1,2} , Katarzyna Suśniak ^{2,3} , Adam Choma ² , Iwona Komaniecka ¹ ¹ Medical University of Lublin, Department of Bioanalitics, Jaczewskiego 8b, 20-090 Lublin, Poland, ² Maria Curie- Sklodowska University, Institute of Biological Science, Department of Genetics and Microbiology, Akademicka 19, 20-033 Lublin, Poland, ³ Medical University of Lublin, Department of Pharmaceutical Microbiology, Chodźki 1, 20- 093 Lublin, Poland
LCMS-30	Targeted and untargeted LC-(HR)MS strategies for the determination of cucurbitacins in food <u>Ilaria Di Marco Pisciottano</u> ¹ , Sylvia Kalli ¹ , Patrick Mulder ¹ , Elena de Vries ¹ , Timo Jellema ¹ , Josipa Grzetic Martens ¹ ¹ Wageningen Food Safety Research, Wageningen, The Netherlands
LCMS-31	Benchmarking EAD spectra of lipids through pattern matching of labeled and unlabeled yeast samples <u>Marlene Puehringer</u> ^{1,2} ¹ Department of Analytical Chemistry, Faculty of Chemistry, University of Vienna, Vienna, Austria, ² University of Vienna, Vienna Doctoral School in Chemistry (DoSChem), Waehringer Str. 42, 1090 Vienna, Vienna, Austria
LCMS-32	N-hydroxysuccinimidyl derivatization reagents, friends or foes? From synthesis to derivatization of amino compounds and their analysis using liquid chromatography-tandem mass spectrometry Nguyen Kim Ngan Bui ^{1,2} , Ernesto Zapata ¹ , Sigrid Selberg ¹ , Ivo Leito ¹ , Koit Herodes ¹ ¹ University of Tartu, Tartu, Estonia, ² RPTU Kaiserslautern - Landau, Kaiserslautern, Germany
LCMS-33	Quantitative Analysis of the Uptake of Antibiotics in Pathogenic Bacteria Giulia Wöhrmann ¹ ¹ Helmholtz Centre for Infection Research, Germany

LCMS-34	An LC-MS/MS method for simultaneous deter Development and Validation <u>Thomas Tarnowski</u> ¹ , Ann Qin ¹ , Aaron Ledvina ² , I ¹ Gilead Sciences, Inc., Foster City, USA, ² Labcorp Earl
LCMS-35	LC-MS/MS Profiling of Malaysian Cobra and I for Broad-spectrum Antivenom Design Preetha Rajendiran ¹ , Rakesh Naidu ¹ , Iekhsan Ot ¹ Monash University, Subang Jaya, Malaysia
LCMS-36	A Robust, Native Reverse Phase LC-MS for the Antibody Drug Conjugate Species Miklos Czaun ¹ , Carl Sanchez ¹ , James Song ¹ , Jes ChengKang Mai, Nazli Asgari ¹ , Zijie Wang ¹ ¹ Phenomenex, Torrance, United States
LCMS-37	HPLC-HRMS method for the determiantion of human serum Pablo Dualde ¹ , Pablo Miralles ¹ , Antonio López ¹ , a ¹ Foundation for the Promotion of Health and Biomedic Spain, ² General Directorate of Public Health -General
LCMS-38	Enhanced Robustness in LC-MS/MS Bioanal Quadrupole Mass Spectrometry Simon Keenan-Evans ¹ ¹ Waters, United Kingdom
LCMS-39	Evaluation of system robustness for a high per Quadrupole System Olivier Chevallier ¹ , Patrick Batoon ¹ , Xiaoli Dong ¹ , ¹ Agilent Technologies Inc., Santa Clara, United States
LCMS-40	Aromatic Complexity in Rosin Esters: Elucida Esters via uHPLC-HRMS and Computational Marco Albertini ¹ ¹ Domino Printing UK, Cambridge, United Kingdom
LCMS-41	GLP-1 Analogs: Accelerating Method Develop Duanduan Han ¹ , Samantha Ippoliti ¹ , Robert Bird ¹ Waters Corporation, Milford, United States
LCMS-42	Effect of flavonoids on amyloid beta by native Hanna Nikolaichuk ¹ , Professor Emilia Fornal ¹ ¹ Department of Bioanalytics, Faculty of Medical Scient
Method	Development
MD-01	AQbD driven HPLC method for Simultaneous Nitasha Chauhan ¹ , Shruti Chopra ¹ , Amit Bhatia ¹ ¹ Maharaja Ranjit Singh Punjab Technical University Ba
MD-02	Development of a method for parathyroid hor chromatography coupled with tandem mass Marine Piette ¹ , <u>Philippe Massonnet¹</u> , Elodie Griff Huyghebaert ¹ , Alix Mackowiak ¹ , Stephanie Peer ¹ CHU of Liège, Liège, Belgium
MD-03	Balancing objectives in automated liquid chro chromatographic response functions <u>Gerben B. van Henten</u> ^{1,2} , Tijmen S. Bos ^{1,2} , Bob W ¹ Analytical Chemistry Group, HIMS, University of Ams

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ermination of 15 bile acid concentrations in plasma:

David Humphries², Owen Walcott², Wildaliz Nieves¹ ly Development Laboratories, Inc., Madison, USA

Pit Viper Venoms Uncover Cross-reactive Antigens

thman¹, Syafiq Asnawi¹

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sse Hoang¹, Juan Perfetti¹, Ismail Rustamov¹,

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Juana María Vaquer², Julia Bellver², Clara Coscollà¹ cal Research of the Valencian Community (FISABIO), Valencia, litat Valenciana, Valencia, Spain

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ces, Medical University of Lublin, Lublin, Poland

Estimation of Caffeine and Misoprostol

athinda, Punjab,India, Bathinda, India

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spectrometry née¹, Justine Demeuse¹, Thomas Dubrowski¹, Loreen ters¹, Caroline Le Goff¹, Etienne Cavalier¹

omatography method development: a closer look at

V.J. Pirok^{1,2} terdam, Amsterdam, The Netherlands, 2Centre for Analytical Science Amsterdam (CASA), Amsterdam, The Netherlands

MD-04	High Dose, Weak Chromophore and ICH Q3a: An Avibactam Prodrug Case Study <u>Morgan Duffy</u> ¹ , Stephen Chesnut ¹ , John Salisbury ¹ , Sam Molesworth ¹ , Katie Launer-Felty ¹ , Holly Strohmeyer ¹ , Nicole Andersen ¹ , Victoria Bozhulich ¹ , Jane Kawakami ¹ ¹ Pfizer, Groton, United States
MD-05	Automated Method Development for High-Performance Liquid Chromatography for Integration into Self-Optimizing Flow Reactors <u>Vinaya Francis¹²</u> ¹ Nantes Université, CEISAM, CNRS UMR 6230, Nantes, Nantes, France, ² Department of Chemical Engineering, Indian Institute of Technology Madras, Chennai, India
MD-06	Mapping Key Elements in the Current ICH Q14 and USP <1210> and <1220> Guidances to Analytical Procedure Development Richard Verseput ¹ 'S-Matrix Corporation, United States
MD-07	Downscaling HPLC-MS(/MS): paving the way for single-cell lipidomics analysis Fiammetta Di Marco ¹ ¹ Department of Analytical Chemistry, Faculty of Chemistry, University of Vienna, Vienna, Austria
MD-08	Accurate Quantitation of Single Cell Drug Uptake by a Novel Suction-to-Clog Sampling Method and Dual-Stacking Capillary Electrophoresis-Mass Spectrometry <u>Daiki Sakai</u> ¹ ¹ Kyushu University, Fukuoka, Japan
MD-09	Using a OneFAST System as a µLC System for the Determination of Cr(VI) and Cr(III) Jelle Verdonck ¹ , Lode Godderis ¹ , Katrien Poels ¹ , Jeroen Vanoirbeek ¹ , Erik Smolders ¹ ¹ Ku Leuven, Leuven, Belgium
MD-10	One year after the adoption of ICH Q14 and Q2(R2): the quarrel between traditionalists and modernists? Jean-Marc Roussel ¹ ¹ Independent Consultant, Mâcon, France
MD-11	Isomer separation by reversed-phase liquid chromatography with conventional and green, binary and ternary mobile phases <u>Robin Simon Beers</u> ¹ , Alexandra Höltzel ¹ , Ulrich Tallarek ¹ ¹ Philipps-Universität Marburg, Marburg, Germany
MD-12	Simultaneous quantification of TCA cycle metabolites by capillary HPLC-MS/MS Sara Lomuscio ¹ , Yvonne Reinders ¹ , Andreas Hentschel ¹ , Albert Sickmann ¹ ¹ Leibniz-Institut für Analytische Wissenschaften – ISAS – e.V., Dortmund, Germany
MD-13	Investigation of the Binding Constant of the Membrane Protein CXCR2 and Its Ligand Mz438 Using Affinity Capillary Electrophoresis Jana Haegner ¹ , Max E. Huber ² , Taha El-Jourani ¹ , Matthias Schiedel ¹ , Hermann Wätzig ¹ ¹ Institute of Medicinal and Pharmaceutical Chemistry, Technische Universität Braunschweig, Braunschweig, Germany, ² Department of Chemistry and Pharmacy, Medicinal Chemistry, Friedrich-Alexander-University Erlangen- Nürnberg, Erlangen-Nürnberg, Germany
MD-14	Box–Behnken Design-Based RP-HPLC Optimization for Malondialdehyde Quantification in Plasma Zineb Chellouai ^{1,2} , Youcef Hadef ³ , Rachid Moussaoui ^{1,2} , Mourad Nachi ² ¹ Department of Pharmacy, Faculty of Medicine, University Oran 1 Ahmed Ben Bella, B.P 1510 El M'Naouer 31000, Algeria, ² Service de Biochimie, Établissement Hospitalier Universitaire (EHU Oran), 1er Novembre 1954, Algeria, ³ Department of Analytical Chemistry, Pharmacy Department, Faculty of Medicine, Badji Mokhtar University, Algeria
MD-15	Optimized Preanalytical Conditions and Derivatization Strategies for Malondialdehyde Quantification Using HPLC-FLD Zineb Chellouai ¹² , Youcef Hadef ³ , Rachid Moussaoui ¹² , Mourad Nachi ² ¹ Department of Pharmacy, Faculty of Medicine, University Oran 1 Ahmed Ben Bella, B.P 1510 El M'Naouer 31000, Algeria, ² Service de Biochimie, Établissement Hospitalier Universitaire (EHU Oran), 1er Novembre 1954, Algeria, ³ Department of Analytical Chemistry, Pharmacy Department, Faculty of Medicine, Badji Mokhtar University, Algeria
MD-16	Evaluation of Antioxidants in Metformin Hydrochloride Stability and Genotoxicity Mitigation: A Novel RP-HPLC and Comet Assay Approach Sangita Gadilohar ¹ , Dande Aishwarya ¹ , Ramalingam Peraman ¹ ¹ National Institute of Pharmaceutical Education and Research (NIPER) Haiipur, Haiipur, India

MD-17	Optimising HPLC-DAD analysis of Orcein dye and extraction pretreatment protocols Jonas Veenhoven ¹ , Ina vanden Berghe ¹ ¹ Royal Institute for Cultural Heritage (KIK-IRPA), Brusse
MD-18	Injection of Large Volumes of Eluotropic Sam Daniel Foshag ¹ , Hannes Graf ¹ , Matthias Pursch ² ¹ Agilent Technologies, Waldbronn, Germany, ² Dow, Co ³ Department of Chemistry, Philipps-Universität Marbu
MD-19	Labile Mobile Phase - Ester Formation in Acid Konstantin Shoykhet ¹ , Stephan Buckenmaier ¹ , E ¹ Agilent Technologies, Waldbronn, Germany, 2Gustave
MD-20	DoE Based Development of an HPLC-UV Meth loaded Pharmacosome Formulation for H. pyl Sudheer Moorkoth ¹ , Shiran Shetty ² , Srinivas Mu ¹ Department of Pharmaceutical Quality Assurance, Ma Of Higher Education, Manipal, India, ² Department of G Manipal Academy of Higher Education, Manipal, India, Pharmaceutical Sciences, Manipal Academy of Higher
MD-21	Chromatographic Separation Prediction System Ratih Ratih ¹ ¹ University of Surabaya, Surabaya, Indonesia
MD-22	A High-Throughput Solution-Phase Assay for Organic Compounds Joseph Kaye ^{1,2} , Saif Haque ^{1,3} , Ali Salehi-Reyhani ¹ Dept. Chemistry, Imperial College London, London, Un London, London, United Kingdom, ³ Institute of Molecu London, United Kingdom
MD-23	A quantitative method for the analysis of PAH Luca Sorarù ¹ 'Ca' Foscari University, Venice, Italy
MD-24	Enhancing RPLC Method Development for Na using Generalised Models José-Ramón Torres-Lapasió ¹ , Pau Peiró-Vila ¹ , N ¹ University Of Valencia, Burjassot (valencia), Spain
MD-25	Feed injection in liquid chromatography: Redu purely organic diluents in reversed-phase liqu André Böth ¹ , Daniel Foshag ² , Ulrich Tallarek ¹ , Tou ¹ Philipps-Universität Marburg, Marburg, Germany, ² Agu Waldbronn, Germany
MD-26	Case study: Instrument and LC column migrat oligonucleotides Dennis Koehler ¹ , Talia Hill ² , Susanne Fabel ¹ , Mari ¹ Thermo Fisher Scientific, Germering, Germany, ² Therm
MD-27	Automated Feedback-Controlled HPLC Optin columns Maryna Maliarevska ¹ ¹ Technical University, Darmstadt, Muehltal, Germany
MD-28	Simplify and Streamline Method Transfer Anne Marie Smith ¹ , <u>Shahriar Jahanbakht</u> ² , Richa ¹ ACD/Labs, Toronto, Canada, ² ACD/Labs, Strasbourg Bracknell, United Kingdom
MD-29	LC-MS analysis of insulin, somatostatin 14, an <u>Helena Hrušková</u> ^{1,2} , Mads T.S. Gisle Johnsen ¹ , S ¹ Section of Chemical Life Science, Department of Che Hub, Faculty of Medicine, University of Oslo, Oslo, Nor

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, Jan-Andre Boeth³, Ulrich Tallarek³, Tom van de Goor^{1,3} ore R&D Analytical Science, Wiesbaden, Germany, urg, Marburg, Germany

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Benedikt Metzger¹, Dwight Stoll² us Adolphus College, Saint Peter, USA

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utalik³, Moumita Saha¹

anipal College of Pharmaceutical Sciences, Manipal Academy astroenterology and Hepatology, Kasturba Medical College, ³Department of Pharmaceutics, Manipal College of r Education, Manipal, India

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Screening Reactive Oxygen Species Generation in

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María-Celia García-Álvarez-Coque¹

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ard Visser³, Baljit Bains⁴ , France, ³ACD/Labs, Frankfurt, Germany, ⁴ACD/Labs,

d glucagon secreted by islet organoids Steven Ray Haakon Wilson^{1,2}, Hanne Røberg-Larsen^{1,2} mistry, University of Oslo, Oslo, Norway, ²Hybrid Technology way



MD-30	Determination of cladribine in sheep plasma and cerebrospinal fluids by a validated liquid chromatography-tandem mass spectrometry method <u>Tomasz Pawiński</u> ¹ , Dorota Marszałek ¹ , Tomasz Misztal ² , Maciej Sierakowski ³ , Paweł Grieb ⁴ , Dorota Gołąbek-Sulejczak ⁴ , Paulina Michalczuk ¹ , Magdalena Bodnar-Broniarczyk ¹ ¹ Department of Drug Chemistry, Pharmaceutical and Biomedical Analysis, Medical University of Warsaw, Warsaw, Poland, ² The Kielanowski Institute of Animal Physiology and Nutrition, Polish Academy of Science, Jabłonna near Warsaw, Poland, ³ Institute of Biological Sciences, Cardinal Stefan Wyszynski University, Warsaw, Poland, ⁴ Department of Experimental Pharmacology, Mossakowski Medical Research Institute, Polish Academy of Science, Warsaw, Poland
MD-31	Beyond Phthalates: The Analytical Struggle to Detect Emerging Plastic Additives in Soil and Water Raquel Capilla Flores ¹ , Rosalía López Ruíz ¹ , Roberto Romero González ¹ , Antonia Garrido Frenich ¹ Research Group "Analytical Chemistry of Contaminants", Department of Chemistry and Physics, Research Centre for Mediterranean Intensive Agrosystems and Agri-Food Biotechnology (CIAIMBITAL), University of Almeria, Agrifood Campus of International Excellence, ceiA3, E-04120 Almeria, Spain, Almeria, Spain
MD-32	Development of Sensitive and Simultaneous Determination Method for Thirty-Seven D/L-Amino Acids by Automatic Pre-column Derivatization with Chiral Thiol Using UHPLC Vadim Kraft ¹ , Natsuki Iwata ² 'Shimadzu Europa GmbH, Duisburg, Germany, ² Shimadzu Corporation, Kyoto, Japan
MD-33	Automated Peptide Mapping: A Feasibility Study Feasibility Showcase of an Automated Approach for the Method Development of a Peptide Mapping Method, Including Sample Preparation as well as LC Method Development Simon Zachhuber ¹ , Hans Yu ¹ , Carsten Buengener ¹ 'Analytical Development Europe, Baxalta Innovations GmbH, a Takeda company, Vienna, Austria
MD-34	Optimization of isolation, verifying the concentration and purification of the common freshwater cyanobacterial toxins ATX-a, CYN and MC-LR using standard techniques a quantitative analysis Saravana Selvaraj ¹ , Ariel Kamiński ² , Dariusz Dziga ³ ¹ Doctoral School of Exact and Natural Sciences, Faculty of Biochemistry, Biophysics and Biotechnology, Jagiellonian University, Krakow, Poland, ² Faculty of Biochemistry, Biophysics and Biotechnology, Jagiellonian University, Krakow, Poland, Krakow, Poland, ³ Faculty of Biochemistry, Biophysics and Biotechnology, Jagiellonian University, Krakow, Poland, Krakow, Poland
MD-35	Investigating the Feasibility of Theoretical Plate Height Modelling for Automated Peak Width Prediction in Liquid Chromatography <u>Rebecca Gibkes</u> ¹ , Tijmen Bos ^{1,2} , Dwight Stoll ² , Ken Broeckhoven ³ , Gert Desmet ³ , Bob Pirok ^{1,2} ¹ University of Amsterdam, Amsterdam, Netherlands, ² Gustavus Adolphus College, Saint Peter, USA, ³ Vrije Universiteit Brussel, Brussels, Belgium
MD-36	Al-Driven Optimization of HILIC Methods for Enhanced Nucleoside Separation Martin Meyer ¹ , Thomas Schüßeler ¹ 'Shimadzu Europa, Duisburg, Germany
MD-37	Bridging Quantification and Structural Resolution in Lipidomics: A Dual-Derivatisation Approach Based on GC-MS and LC-MS/MS <u>Yicen Yue</u> ^{1,2} , Lei Fu ¹ , Chris Goldring ² ¹ Xi'an Jiaotong-Liverpool University, Suzhou, China, ² University of Liverpool, Liverpool, United Kingdom
MD-38	Minimizing Background Contamination and Improving Separation of Short-Chain Compounds in PFAS Analysis KANA Tanaka ¹ , Yuko Yui ¹ , Reika Takahara ¹ , Mengmin Terashima ¹ 'GL Sciences Inc., 237-2, Sayamagahara, Iruma, Japan
MD-39	Performing automatic peak detection and integration using deep learning techniques Lonneke Van Dalen ^{1,2} , Tijmen Bos ^{1,2} , Bob Pirok ^{1,2} , Hans-Gerd Janssen ^{3,4} , Boudewijn Hollebrands ³ ¹ Analytical Chemistry Group, Van 't Hoff Institute for Molecular Sciences, The Netherlands, ² Centre for Analytical Sciences Amsterdam (CASA), The Netherlands, ³ Unilever's Food Innovation Centre (HIVE), The Netherlands, ⁴ Wageningen University and Research, The Netherlands
MD-40	Development and validation of surfactant-enhanced emulsification liquid-liquid microextraction followed by micellar electrokinetic chromatography-tandem mass spectrometry for determination of alpelisib and fulvestrant in human plasma Zvonimir Mlinarić ¹ , Lu Turković ¹ , Miranda Sertić ¹ ¹ University Of Zagreb Faculty Of Pharmacy And Biochemistry, Zagreb, Croatia

MD-41	Investigating Chemicals of Concern: A Study Christian Clappier ¹ ¹ BASF SE, Ludwigshafen am Rhein, Germany
MD-42	A Novel Strategy for Rapid Development of C <u>Risa Suzuki</u> ¹ , Yuichiro Fujita ² , Keita Nakane ³ , Ma Kyoko Watanabe ¹ , Seiya Kitamura ³ ¹ Shimadzu Europa, Duisburg, Germany
MD-43	Simultaneous determination of rifampicin an chromatographic methods Lukas Lochman ¹ , Tomas Smutny ² , Petr Pavek ² , ¹ Department of Pharmaceutical Chemistry and Pharm Charles University, Hradec Kralove, Czech Republic, Pharmacy in Hradec Kralove, Charles University, Hrade
MD-44	Utilizing Analytical Quality by Design Principl Analysis Pawel Bigos ¹ , Robert Birdsall ¹ , Karen Nyholm ¹ ¹ Waters Corporation, Milford, United States
MD-45	Development and validation of capillary elect inhibitor talazoparib in pharmaceutical dosag Kristian Morić-španić ¹ , Valentina Petrinac ¹ , Zvo Nigović ¹ , Miranda Sertić ¹ ¹ University of Zagreb, Faculty of Pharmacy and Bioch Croatia, ² University Hospital Centre Zagreb, Departm
MD-46	Optimization of SEC-MALS measurements for <u>Subin Damodaran</u> ¹ , Gesa J. Schad ² , Snežana E ¹ Tosoh Bioscience GmbH, Griesheim, Germany, ² Shir
MD-47	Optimization of a liquid chromatography tand enantioselective analysis of amino acids usin Cinzia Lella ¹ , Liam Nestor ¹ , Ulrich Hennecke ² , Y ¹ Vrije Universiteit Brussel, Research group Experimen Brussel, Belgium, ² Vrije Universiteit Brussel, Organic O Universiteit Brussel, Department of Analytical Chemis Brussel, Belgium
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OMI-01	Utilization of Monodisperse Fully Porous Par Spectrometry based Metabolomics for Dise Mark Woodruff ¹ , <u>Ken Butchart¹</u> , Geoff Faden ² , ¹ Fortis Technologies, Neston, United Kingdom, ² Mac
OMI-02	From discovery to quantitation: development approach for liquid biopsy of Hepatocellular Danila La Gioia ^{1,2} ¹ University of Salerno, Italy, Italy, ² PhD Program in Dru (SA) Italy
OMI-03	Untargeted and targeted MS-based analysis towards elucidating the association human in Luisa Barreiros ^{1,2} , Sara R. Fernandes ^{1,2} , Marcel ¹ ESS, Polytechnic of Porto, Porto, Portugal, ² LAQV, R Porto, Portugal
OMI-04	Porous carbon HPLC column for retention b Egidijus Machtejevas ¹ , Andras Komaromy ² , Me Ye ³ , Petra Lewits ¹ ¹ Merck Life Science KGaA, Darmstadt, Germany, ² Sc Australia, ³ Supelco Inc, an affiliate of Merck, Bellefon

y on Recycling and Bioactive Substances

Chiral Chromatographic Methods with UV Detection asato Kawakami², Keiko Matsumoto², Akira Noda²,

nd its metabolites in cell medium using

, Radim Kucera¹

maceutical Analysis, Faculty of Pharmacy in Hradec Kralove, ²Department of Pharmacology and Toxicology, Faculty of Idec Kralove, Czech Republic

les to Optimize a Platform HILIC Method for Man-5

trophoresis method for the determination of PARP ge form

onimir Mlinarić¹, Lu Turković¹, Tajana Silovski², Full Biljana

hemistry, Department of Pharmaceutical Analysis, Zagreb, ment of Oncology, Zagreb, Croatia

f**or Biomolecule Analysis** Dorđević¹, Andrea Krumm¹ *imadzu Europa GmbH, Duisburg, Germany*

dem mass spectrometry method for the ng a chiral derivatization reagent

Ivan Vander Heyden³, <u>Ann Van Eeckhaut¹</u> Intal Pharmacology (EFAR), Center for Neurosciences (C4N), Chemistry Research Group (ORGC), Brussel, Belgium, ³Vrije Istry, Applied Chemometrics and Molecular Modelling (FABI),

rticles for Chromatographic Improvement in Mass ease Detection Tim Garrett³

-Mod, Philadelphia, USA, ³University of Florida, Gainesville, USA

nt and optimization of a fast targeted HILIC-HRMS Carcinoma

Ig Discovery and Development, University of Salerno, Fisciano,

of biological matrices: challenges and strategies metabolome-health status

a A. Segundo² EQUIMTE, Faculty of Pharmacy, University of Porto (FFUP),

ehavior of mono- and disaccharides orten Thaysen-Andersen², Benjamin Peters¹, Michael

chool of Natural Science, Macquarie University, Sydney, te, United States

	OMI-05	Comparative performance of HILIC-HRMS and CE-HRMS approaches in metabolomics for identifying biomarkers of effect of PCBs and BPA exposure <u>Maykel Hernández-Mesa</u> ¹ , Luca Narduzzi ¹ , Alfonso Narváez ¹ , María del Mar Delgado-Povedano ² , Bruno Le Bizec ² , Ana M. García-Campaña ¹ , Gaud Dervilly ² ¹ Universidad de Granada, Granada, Spain, ² ONIRIS, INRAE, LABERCA, Nantes, France
	OMI-06	Proteomics of extracellular vesicle preparations highlights short-comings in purification methods Verena Braunschmid ¹ , Gabriele Blümel ¹ , Dr. Cristian-Tudor Matea ¹² , Patrick Zimmerebner ¹ , Patricia Hrasnova ^{1,2,3} , Andreas Marl ^{1,2} , Nicole Meisner-Kober ^{1,2} , Christian G. Huber ^{1,2} , Christof Regl ¹ 'Paris-lodron Universität Salzburg, Salzburg, Austria, ² Ludwig Boltzmann Institute for Nanovesicular Precision Medicine, Salzburg, Austria, ³ Paracelsus Medical University, Salzburg, Austria
	OMI-07	Unveiling the Altered Protein Landscape in Extracellular Vesicles Released from TBEV-Infected Dendritic Cells using Nanoflow-UHPLC Coupled to Mass Spectrometry Shubham Kaushik ¹ 'Department of Biosciences & Medical Biology, University of Salzburg, Hellbrunnerstrasse 34, 5020, Salzburg, Austria
	OMI-08	Integration of parallel chromatography and HRMS for comprehensive metabolic analysis Felina Hildebrand ^{2,3} , <u>Matteo Spedicato</u> ¹ , Harald Schoeny ² , Martina Catani ¹ , Alberto Cavazzini ¹ , Gunda Koellensperger ¹ ¹ University Of Ferrara, Ferrara, Italy, ² University of Vienna, Vienna, Austria, ³ Vienna Doctoral School in Chemistry (DoSChem), Vienna, Austria
	OMI-09	Why a retention time and m/z database make sense for metabolomics <u>Constantin P. Krempe</u> ¹² , Jonas Rösler ¹² , Sven W. Meckelmann ¹ , Alpaslan Tasdogan ² , Oliver J. Schmitz ¹ ¹ University of Duisburg-Essen - Applied Analytical Chemistry, Essen, Germany, ² University Hospital Essen - Department of Dermatology, Essen, Germany
-	OMI-10	Determination of antimicrobial peptides in natural and recombinant microbial producers using LC-MS/MS <u>Renée Isabel Ahr</u> ¹ , Lisa Prigolovkin ¹ , Christian Riedel ² , Wolfgang Wiechert ³ , Marco Oldiges ³ ¹ Forschungszentrum Jülich, Jülich, Germany, ² Universität Ulm, Ulm, Germany, ³ RWTH Aachen Universität, Aachen, Germany
	OMI-11	Increasing sensitivity and reducing carryover for IgG glycoform characterization with monolithic hydrophilic interaction liquid chromatography-mass spectrometry <u>Thomas Holmark</u> ^{1,2} , Annika A.M. van der Zon ^{1,2} , Andrea F.G. Gargano ^{1,2} ¹ University of Amsterdam, van 't Hoff Institute for Molecular Sciences (HIMS), Analytical-Chemistry Group, Amsterdam, The Netherlands, ² Centre for Analytical Sciences Amsterdam (CASA), The Netherlands
	OMI-12	Validation by UHPLC-MS/MS of 5 glioblastoma cell surface proteins to be targeted by nanobodies Anna Laurent ¹ , Adrien Allard ¹ , Virginie Neirinckx ² , Marianne Fillet ¹ ¹ Laboratory for the Analysis of Medicines (LAM), Department of Pharmacy, CIRM, University of Liege, Liège, Belgium, ² GIGA Neurosciences, Department of Biomedical and Preclinic Sciences, GIGA, University of Liege, Liège, Belgium
	OMI-13	Miniaturization Improves Reversed-Phase Chromatographic Analysis of HIV-Infected Cells: A Proof of Concept Lander Iterbeke ¹ , Frederic Lynen ¹ , Linos Vandekerckhove ² , Jeff Op De Beeck ³ ¹ Separation Science Group, Department of Organic and Macromolecular Chemistry, Ghent University, Gent, Belgium, ² Vakgroep Inwendige ziekten en Pediatrie (GE35), Ghent University, Ghent, België, ³ ThermoFisher, Ghent, België
	OMI-14	Ultra-Sensitive Neuro-Metabolomics of Cerebrospinal Fluid by Salt-Tolerant Dual-Stacking Capillary Electrophoresis-Mass Spectrometry <u>Haruka Kuwag</u> i ¹ , Naoko Sai ¹ , Chenchen Liu ¹ , Kohei Torikai ¹ , Nobuaki Matsumori ¹ , Takayuki Kawai ¹ ¹ Kyushu University, Fukuoka, Japan
	OMI-15	Addressing interfering peaks in biomarker analysis in tissue samples via benzoyl derivatization and LCMS/MS analysis Liesbeth Vereyken ¹ , Eline Rutten ¹ , Begona Barroso ¹ ¹ Johnson&Johnson, Beerse, Belgium

OMI-16	Analysis of the global histone modification lan column and timsTOF HT Bella Bruszel ² , Domenico Marano ² , Gaia Novari <u>Goran Mitulović</u> ¹ ¹ Bruker, Wien, Austria, ² Institute of Science and Technol
OMI-17	Application of LC/MS-based proteomics for the poultry liver and skeletal muscle tissues in proteomics for the Anna Stachniuk ¹ , Alicja Wielgosz ¹ , Natalia Kasak ¹ /Medical University of Lublin, Department of Bioanalythe University of Life Sciences, Institute of Meat Technology
OMI-18	Biostatistical insights into metabolic and end RP-LC/MS approach Eva Cífková ¹ , František Štaud ² , Miroslav Lísa ¹ ¹ Faculty of Science, University of Hradec Králové, Hrad Kralove, Charles University, Hradec Králové, Czech Re
OMI-19	Robust discovery proteomics using nanoliqui technology and high-resolution mass spectro Daniel Papp ¹ , Jeff Op de Beeck ² , Goran Mitulovi ¹ Vrije Universiteit Brussel, Brussels, Belgium, ² Thermo Austria
OMI-20	Lipidomic insights into ticks: composition and environmental factors <u>Hanna Nikolaichuk</u> ¹ , Joanna Kulisz ² , Anna Kozu Bartosik ² , Angélique Foucault-Simonin ³ , Sara M ¹ Department of Bioanalytics, Faculty of Medical Scien Lublin, Poland, ² Department of Biology and Parasitolo Lublin, Poland, ³ Anses, INRAE, Ecole Nationale Vétériu 94700 Maisons-Alfort, France
OMI-21	Evaluation of Micro-Pillar Array Columns (μPA Neurodegenerative Disease Research <u>Eline Rutten</u> ¹ , Farid Jahouh ¹ , Sam Wouters ¹ , Filip ¹ Johnson&johnson, Beerse, Belgium
Pharma	3
PHA-01	Detailed study into ASO impurity analysis, les compliant platform methods <u>Ken Cook</u> ¹ ¹ Thermo Fisher Scientifc, Hemel Hempstead, United K
PHA-02	Impurity separation of oligonucleotides by po polymeric columns <u>Hideki Motoda</u> ¹ , Mireille Schaeffer ² , Christophe Atsushi Ohnishi ¹

PHA-01	Detailed study into ASO impurity analysis, le compliant platform methods <u>Ken Cook</u> ¹ ¹ Thermo Fisher Scientifc, Hemel Hempstead, United
PHA-02	Impurity separation of oligonucleotides by p polymeric columns <u>Hideki Motoda</u> ¹ , Mireille Schaeffer ² , Christophe Atsushi Ohnishi ¹ ¹ Daicel Corporation, Japan, ² Chiral Technologies Eur
PHA-03	Sensitive and high-throughput analysis of nir formulations with hydrochlorothiazide Ravi Patel ¹ , Chhaganbhai Patel ¹ ¹ School of Pharmacy, Gujarat Technological Universit Shri Sarvajanik Pharmacy College, Mehsana, India
PHA-04	Oligonucleotide Mass Confirmation and Imp Yulan Bian ¹ , Aveline Neo ¹ , <u>Lee Bertram¹</u> 'Agilent Technologies Inc., Singapore
PHA-05	Optimized LC-MS Method for the Quantitative Plasma Hao Yang ¹ , <u>Ke Ma²</u> , Min Du ³ ¹ Thermo Fisher Scientific, San Jose, United States, ² Fisher Scientific, Lexington, United States

andscape in mouse tissue using nano C18-monolithic

rino², Armel Nicolas², Mario Mirabelli¹, Petra Martinović¹,

nology Austria, Klosterneuburg, Austria

the identification of peptide markers differentiating rocessed food products

ałka-Czarna², Magdalena Montowska², Emilia Fornal¹ /tics, Jaczewskiego 8b St., 20-090 Lublin, Poland, ²Poznań ogy, Wojska Polskiego 31 St., 60-624 Poznań, Poland

docannabinoid changes in biological studies using the

adec Králové, Czech Republic,²Faculty of Pharmacy in Hradec Republic

uid chromatography with pillar-array column rometry with data-independent acquisition vić³, Sebastiaan Eeltink¹

o Fisher Scientific, Gent, Belgium, ³Bruker Daltonics, Wien,

nd its association with pathogen prevalence and

ub-Pędrak¹, Zbigniew Zając², Aneta Woźniak², Katarzyna Moutailler³, Alejandro Cabezas-Cruz³, Emilia Fornal¹ nces, Medical University of Lublin, Jaczewskiego 8b, 20-090 logy, Medical University of Lublin, Radziwiłłowska 11, 20-080 rinaire d'Alfort, UMR BIPAR, Laboratoire de Santé Animale,

PAC) for Brain Tissue Proteomics in

ip Cuyckens¹, Begona Barroso¹

ssons learned, and myths dispelled while moving to

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e Kientzy², Kanji Nagai¹, Takafumi Onishi¹, Pilar Franco²,

rope, France

trosamine contaminants in sartans and their co-

ity, Gandhinagar, India, ²Department of Medicinal Chemistry,

ourities Identification by LC/MS Single Quad

ve Analysis of Semaglutide and Liraglutide in Human

Thermo Fisher Scientific, Sunnyvale, United States, ³Thermo

PHA-06	HILIC analysis of GLP-1 receptor agonists, related impurities and excipients using low-adsorption and corrosion-resistant LC hardware <u>Piotr Alvarez</u> ¹ , Sonja Schneider ² , Cindy Lecluyse ¹ , Ine Vandendriessche ¹ , Griet Debyser ¹ , Martin Vollmer ² , Pat Sandra ¹ , Udo Huber ² , Koen Sandra ¹ 'RIC Group, Kortrijk, Belgium, ² Agilent Technologies, Waldbronn, Germany
PHA-07	Metal complexation challenges in RLT analytical development Olivia Luige ¹ , Lorena Baietto ¹ , Elisabeth Vey ¹ ¹ Novartis Pharma AG, Basel, Switzerland
PHA-08	Green ion pair and HFIP free method for ASO RNA analysis with GLP compliant automated data handling Ken Cook ¹ , Alexander Schwahn ¹ , Marcus Hoffmann ¹ , Fiona Rupprechta ¹ ¹ Thermo Fisher Scientifc, Hemel Hempstead, United Kingdom
PHA-09	Predicting long-term stability of oligonucleotides by using Accelerated Stability Assessment Program modelling and High-Resolution Mass Spectrometry Kevin Roeleveld ¹ , Fatemeh Khosravi, Geert Van Raemdonck ¹ ¹ AnaBioTec, Evergem, Belgium
PHA-10	An automatic on-line method for screening PTP1B inhibitors by capillary electrophoresis Juan Gao ¹ , Erwin Adams ¹ , Zhengjin Jiang ² , Ann Van Schepdael ¹ 'Ku Leuven, Leuven, Belgium, ² Jinan University, Guangzhou, People's Republic of China
PHA-11	Size-exclusion chromatography-electrospray-ionization mass spectrometry and normal-phase liquid chromatography analysis to characterize molecular-weight, chemical-composition, functionality, and sequence distributions on polylactic co-glycolic acid co-polymers <u>Masashi Serizawa</u> ¹ , Andrea Gargano ¹ ¹ van 't Hoff Institute for Molecular Science (HIMS), Universiteit van Amsterdam, Science Park 904, 1098 XH Amsterdam, Netherlands
PHA-12	A deep delve into molecular diffusion coefficients of oligonucleotides using the Taylor-Aris method Judith Mollen ^{1,2} , Gert Desmet ² , Deirdre Cabooter ¹ ¹ KU Leuven, Pharmaceutical Analysis, Leuven, Belgium, ² VUB, Department of Chemical Engineering, Brussels, Belgium
PHA-13	Enhancing the Characterization and Optimization of Oligonucleotide Separations Using Chemometric Approaches Sanne Boot ¹² , Tijmen S. Bos ¹² , Saer Samanipour ^{12,3} , Bob W.J. Pirok ^{1,2} ¹ University Of Amsterdam, Amsterdam, The Netherlands, ² Center of Analytical Sciences Amsterdam, Amsterdam, The Netherlands, ³ Queensland Alliance for Environmental Health Sciences, Queensland, Australia
PHA-14	Development of a Green Stability-Indicating HPLC Method for Quantifying Nirmatrelvir in Self- Emulsifying Drug Delivery Systems: Optimization, Validation, and Permeability Enhancement <u>Ravi Patel</u> ¹ , Ritu Sharma ¹ , Dignesh Khunt ¹ ¹ School of Pharmacy, Gujarat Technological University, Gandhinagar, India
PHA-15	Development and Validation of a Stability-Indicating RP-HPLC Method for Remogliflozin Etabonate: Comprehensive Impurity Profiling and In-Silico Toxicity Assessment Neha Mochi ¹ , <u>Rajesh Patel</u> ¹ ¹ Gujarat Technological University School of Pharmacy, Gandhinagar, India
PHA-16	Compatibility Study of ritlecitinib with Chitosan, Hyaluronic Acid, and Xanthan Gum Using Isothermal Stress Testing and Analytical Techniques Jelena Kovačić ¹ , Daniela Amidžić Klarić ¹ , Nikša Turk ² , <u>Ana Mornar Turk¹</u> ¹ Faculty of Pharmacy and Biochemistry Zagreb, Zagreb, Croatia, ² Department of Gastroenterology, University Hospital Centre, Zagreb, Croatia
PHA-17	A dual approach of liquid chromatography (LC) methods coupled to mass spectrometry (MS) for qualitative polyphenol identification (QTOF) and targeted quantification (QQQ) <u>Neerodha Edirisinghe</u> ¹ , Dan Dias ¹ , Dodie Pouniotis ¹ , Matthew Flavel ¹ , Kosta Lim ¹ , Rosita Zakaria ¹ <i>RMIT University, Bundoora, Australia</i>

 PHA-19 Strong solvent effects: addressing gaps to fa separations of siRNA therapeutics Gregory Jones', Yuan (David) Ren' 'Alnylam Pharmaceuticals, Cambridge, United States PHA-20 Reliable Analysis of Omeprazole and Its Rela Stationary Phase Petra Lewits', Anita Piper', Egidijus Machtejeve 'Merck KGaA, Darmstadt, Germany PHA-21 An LC-MS/MS method for an extended set o dimethylformamide in metformin drug subst Matt James', German Lo' 'Avantor, Reading, United Kingdom PHA-22 Analysis of short 2-6mer phosphorothioate or chromatography Zuzana Vosáhlová'², Sylwia Studzińska', Martii 'Department of Environmental Chemistry and Bioana Toruń, Poland, 'Department of Physical and Macromm Prague, Czech Republic, 'Waters Corporation, Milfor PHA-23 Identification of Dexamethason by TLC Markus Burholt', Michaela Oberle', Monika Băti 'Merck Lifescience KGaA, Darmstadt, Germany PHA-24 Adopting ICH 014 principles to establish an e analytes Jonas Neumann', Mijo Stanic', Alexander H. Sc 'Chromicent GmbH, Berlin, Germany PHA-25 Determination of ritlecitinib in plasma using f with quadrupole time of flight mass spectrom Sniježana Zubčić', Jelena Kovačić', Daniela Am 'HALMED - Agency for Medicinal Products and Medi Analytical Sciences, Faculty of Pharmacy and Bioche PHA-26 Impurities Investigation of ARV-825 Proteoly Fraction Collection Margaret Maziarz', Paul Rainville' 'Waters Corporation, Millord, United States PHA-28 Ensuring Sustainable BP and USP Complian Hydrocortisone and Miconazole Nitrate anal' Lg oPharmaceutical, 'ePrep Europe Ltd, Vaustralia, 'Perep Europe Ltd, Vaustralia PHA-29 Optimisation of HPLC separation for peptide purity analysis using optimal ion-pairing reage Daniel Esser', Misato Amiya', Reira Hirai', Yuki Naganuma', Genichiro Tsuji', Yosuke Demizu', 'Yuki Cuo, Kawasaki, Japan 	PHA-18	Isolation and idetification of hyperglycemic a leaf extract in rat hepatocytes using column of Szu-chuan Shen ¹ , Fan-Chi Cheng ¹ , Wen-Chang ¹ 'National Taiwan Normal University, Taipei, Taiwan
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 PHA-26 Impurities Investigation of ARV-825 Proteoly Fraction Collection Margaret Maziarz¹, Paul Rainville¹ ¹Waters Corporation, Milford, United States PHA-27 Cleanup of pharmaceutical drugs in biologic: Andrew Minett¹, Raquel Gonzalez de Vega², Ga ¹ePrep Pty Ltd, Oakleigh, Australia, ²Karl-Franzens Ur United Kingdom, ⁴University of Technology Sydney, S PHA-28 Ensuring Sustainable BP and USP Compliant Hydrocortisone and Miconazole Nitrate analy Justin Lacomel¹, Helen Evans-Lemmo¹, <u>Cassan</u> ¹Ego Pharmaceuticals, Australia, ²ePrep Europe Ltd, V Australia PHA-29 Optimisation of HPLC separation for peptide purity analysis using optimal ion-pairing reag Daniel Esser¹, Misato Amiya², Reira Hirai², Yuki Naganuma³, Genichiro Tsuji³, Yosuke Demizu³, ¹YMC Europe GmbH, Dinslaken, Germany, ²YMC Co., Kawasaki, Japan 	PHA-25	Determination of ritlecitinib in plasma using h with quadrupole time of flight mass spectron Snježana Zubčić ¹ , Jelena Kovačić ² , Daniela Am
 PHA-27 Cleanup of pharmaceutical drugs in biologic Andrew Minett¹, Raquel Gonzalez de Vega², Ca ¹ePrep Pty Ltd, Oakleigh, Australia, ²Karl-Franzens Ur United Kingdom, ⁴University of Technology Sydney, S PHA-28 Ensuring Sustainable BP and USP Compliant Hydrocortisone and Miconazole Nitrate analy Justin Lacomel¹, Helen Evans-Lemmo¹, Cassan ¹Ego Pharmaceuticals, Australia, ²ePrep Europe Ltd, V Australia PHA-29 Optimisation of HPLC separation for peptide purity analysis using optimal ion-pairing reag Daniel Esser¹, Misato Amiya², Reira Hirai², Yuki Naganuma³, Genichiro Tsuji³, Yosuke Demizu³, ¹YMC Europe GmbH, Dinslaken, Germany, ²YMC Co., Kawasaki, Japan 		Analytical Sciences, Faculty of Pharmacy and Bioche
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PHA-29 Optimisation of HPLC separation for peptide purity analysis using optimal ion-pairing reag <u>Daniel Esser</u> ¹ , Misato Amiya ² , Reira Hirai ² , Yuki Naganuma ³ , Genichiro Tsuji ³ , Yosuke Demizu ³ , ¹ YMC Europe GmbH, Dinslaken, Germany, ² YMC Co., Kawasaki, Japan	PHA-26 PHA-27	Analytical Sciences, Faculty of Pharmacy and Biocher Impurities Investigation of ARV-825 Proteoly Fraction Collection <u>Margaret Maziarz</u> ¹ , Paul Rainville ¹ ¹ Waters Corporation, Milford, United States Cleanup of pharmaceutical drugs in biologica Andrew Minett ¹ , Raquel Gonzalez de Vega ² , Ca ¹ ePrep Pty Ltd, Oakleigh, Australia, ² Karl-Franzens Ur United Kingdom, ⁴ University of Technology Sydney, S
	PHA-26 PHA-27 PHA-28	Analytical Sciences, Faculty of Pharmacy and Biocher Impurities Investigation of ARV-825 Proteoly Fraction Collection Margaret Maziarz ¹ , Paul Rainville ¹ ¹ Waters Corporation, Milford, United States Cleanup of pharmaceutical drugs in biologica Andrew Minett ¹ , Raquel Gonzalez de Vega ² , Ca ¹ ePrep Pty Ltd, Oakleigh, Australia, ² Karl-Franzens Ur United Kingdom, ⁴ University of Technology Sydney, S Ensuring Sustainable BP and USP Compliand Hydrocortisone and Miconazole Nitrate analy Justin Lacomel ¹ , Helen Evans-Lemmo ¹ , Cassar ¹ Ego Pharmaceuticals, Australia, ² ePrep Europe Ltd, W Australia

Pharma

ctive compounds from guava (Psidium guajava L.) chromatography, HPLC, and NMR analysis g Chang¹, Da-Wei Huang¹, James Swi-Bea Wu¹

cilitate scale up of liquid chromatography

ted Compounds using a High pH Stable SPP

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ligonucleotides in various modes of liquid

n Gilar³, Květa Kalíková² lytics, Faculty of Chemistry, Nicolaus Copernicus University, blecular Chemistry, Faculty of Science, Charles University, d, USA

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fficient LC method development strategy for basic

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high performance liquid chromatography coupled netry (HPLC-QTOF)

idžić Klarić², Siniša Tomić¹, Ana Mornar Turk² cinal Devices of Croatia, Zagreb, Croatia, ²Department of mistry, Zagreb, Croatia

sis Targeting Chimera (PROTAC) Compound through

al fluids by automated microSPE prior to LC/MS

ssandra Rusher³, Philip Doble⁴ iversitaet, Graz, Austria, ³ePrep Europe Ltd, Westcliff-on-Sea, ydney, Australia

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ndra Rusher², Andrew Minett³ Vestcliff-on-Sea, United Kingdom, ³ePrep Pty Ltd., Oakleigh,

-oligonucleotide conjugates: Enhancing sensitivity in ents

Higuchi², Naoko Hata², Saoko Nozawa², Miyako

Taeko Nakajima²

Ltd., Kyoto, Japan, ³National Institute of Health Sciences,

PHA-30	Purification and quality control of oligonucleotides Ulrike Krop ¹ , Yannick Krauke ¹ , Juliane Kramer ¹ ¹ KNAUER wissenschaftliche Geräte GmbH, Berlin, Germany
PHA-31	Development and validation of UPLC-MS/MS method for monitoring nintedanib in plasma of patients with progressive pulmonary fibrosis associated with rheumatoid arthritis <u>Tomasz Pawiński</u> ¹ , Anna Kiełczyńska ¹ , Edyta Gilant ² , Edyta Pesta ² , Daria Kuc ³ ¹ Department of Drug Chemistry, Pharmaceutical and Biomedical Analysis, Medical University of Warsaw, Warsaw, Poland, ² Pharmacokinetics Section, Łukasiewicz Research Network-Industrial Chemistry Institute, Warsaw, Poland, ³ Clinic of Early Arthritis, Institute of Geriatrics, Rheumatology and Rehabilitation, Warsaw, Poland
PHA-32	Overcoming Challenges Within The Pharmaceutical Industry in Going For Green Chromatographic Analysis Matthew Osborne ¹ ¹ AstraZeneca, Macclesfield, United Kingdom
PHA-33	Sustainable Advances in Therapeutic Peptide Purification: Dimethyl Carbonate as a Green Alternative to Acetonitrile in RP-LC Chiara De Luca ¹ ¹ Department of Chemical, Pharmaceutical and Agricultural Sciences, University Of Ferrara, Ferrara, Italy
PHA-34	Platform analytical procedure for the analysis of residual solvents in active pharmaceutical ingredients by HS-GC Dang Nhung ¹ , <u>Mikael Nilsson¹</u> , Anna Ander ¹ , Maria Bholin ¹ , Mikael Nilsson ¹ ¹ Cambrex, karlskoga, Sweden
PHA-35	Thin layer chromatography coupled to MALDI in source decay imaging (TLC/MALDI-MSI-ISD) for whole sequence coverage of oligonucleotides and impurities profiling Charles Delvaux, Gauthier Eppe, Johann Far, Edwin De Pauw ¹ ¹ University of Liege, Liege, Belgium
PHA-36	Evaluation of Batch-to-Batch Consistency of Reversed Phase HPLC Columns for Long-term Method Validation Sandra Kmieliauskaite ¹ ¹ Thermo Fisher Scientific, Vilnius, Lithuania
PHA-37	Method migration and troubleshooting for challenging UHPLC compendial methods on HPLC systems <u>Norris Wong¹</u> , Paula Hong ¹ ¹ Waters Corporation, Milford, United States
PHA-38	Liquid chromatography-tandem mass spectrometry analysis of flavonoids in Cucumis melo L. extract for hangover relief Eun Jung Son ¹ , Seung-Hyung Kim ² , Dong-Seon Kim ¹ ¹ Korea Institute Of Oriental Medicine, 1672 Yuseong-daero, Yuseong-gu, South Korea, ² Daejon University, 62 Daehak0ro, Dong-gu, South Korea
PHA-39	Bioanalytical LC-MS/MS Method for the Analysis of Clopidogrel and its Major and Active Metabolites in Human Plasma Yahya M. Alshehri ¹ , <u>Monerah Altamimy</u> ¹ , Othman Alahmed ² , Badr Alghamdi ² , Salam Massadeh ² 'Saudi Food And Drug Authority, Saudi Arabia, ² King Abdullah International Medical Research Center, Saudi Arabia
PHA-40	Investigations of Glycols Impurities in Sorbitol-Based Syrups Monerah Altamimy ¹ , Yahya M. Alshehry ¹ , Fahad S. Aldawsari ¹ ¹ Saudi Food And Drug Authority, Saudi Arabia
PHA-41	Continuous Reaction Co-Monitoring Utilizing Trajan's Prototype Miniature HPLC – A Comparison with Waters Patrol and Agilent Online HPLCs <u>Angel Diaz</u> ¹ , Samuel Britner ¹ , Frank Riley ¹ ¹ Pfizer Inc, Groton, United States
PHA-42	Assessing the purity of an Antisense Oligonucleotide by LC/MS using a novel high-sensitivity unit mass detector Lee Bertram ¹ 'Agilent Technologies, Inc, Santa Clara, United States

PHA-43	Impact of carbonated additives on impurity p Quang Dong Bui ¹ , Willy Verluyten ² , Bart Noten ² , ¹ Vrije Universiteit Brussel, Brussel, Belgium, ² Johnson
PHA-44	Industry Hot Topic: A Guidance on Analytical Pharmaceuticals via Risk Assessment and Co Partha Mukherjee ¹ 'Amicus Therapeutics, princeton, United States
PHA-45	A Compact, Versatile and Modular LC System Hans Jurgen Wirth ¹ , Shing Chung Lam ¹ , Priya Va ¹ Trajan Scientific And Medical, Ringwood, Australia, ² 1
PHA-46	Advanced Separation of Nitrosamine Drug Su LC/MS/MS Shinya Ogata ¹ , Tomoya Omura ¹ , Hirsohi Sakam ¹ CERI, Japan
PHA-47	Non-Specific Adsorption during HILIC Analys Liquid Chromatography System Tony Reinhold ¹ , <u>Jennifer Simeone¹</u> , Martin Gilar ¹ Waters Corporation, Milford, United States
PHA-48	Identification Testing of Herbal Medicinal Res Chromatography (HPTLC) Jaehee Hyun ¹ , Soyoung Shin ¹ , Youngmi Kim ¹ , W Hwang ¹ ¹ National Center for Medicinal Resources Manageme Food and Drug Safety Evaluation, seogwipo-si, South
PHA-49	Enhancing Drug Discovery efficiency: The rol in reducing the Design-Make-Test-Analyze (D purification (HTP) <u>Karolina Bartkowiak</u> ¹ , José Luís Dores-Sousa ¹ , ¹ Johnson & Johnson, Beerse, Belgium
PHA-50	(Semi)-automated LC-UV-MS platform appro oligonucleotides in early drug discovery Kathrin Stavenhagen ¹ , <u>Manasses Jora</u> ¹ , Carina Golghalyani ³ , Werngard Czechtizky ¹ , Tomas Le ¹ Medicinal Chemistry, Research and Early Development AstraZeneca, Mölndal, Sweden, ² Waters Corporation States of America
PHA-51	Elevating Oligonucleotide Analysis With Super Benjamin Peters ¹ , Egidijus Machtejevas ¹ ¹ Merck Life Science KGaA, Darmstadt, Germany
PHA-52	LC-MS/MS Profiling of Daunorubicin and Its I Impact of ATM Inhibitor AZD0156 Co-Administ Nela Váňová, Petra Štěrbová-Kovaříková ¹ , Olga ¹ Department of Pharmaceutical Chemistry and Pharm Charles University, Hradec Kralove, Czech Republic, ² Králové, Charles University, Hradec Kralove, Czech Republic, ²
PHA-53	Development of a Workflow for Purity Assess Using Genedata Expressionist Annika Langborg Weinmann ¹ , Kayla Borland ¹ , E Linda Thunberg ¹ ¹ Early Chemical Development, Pharmaceutical Sciences, BioF ³ Medicinal Chemistry, Research and Early Development AstraZeneca, Gothenburg, Sweden
PHA-54	Ultra-sensitive Analysis of Oligonucleotide De Spectrometry Manato Yamashita ¹ , Chenchen Liu ¹ , Nobuaki Ma ¹ Kyushu University, Fukuoka, Japan

Life Cycle Management of Nitrosamines in ontrol Strategy

asudevan¹, Yibo Guo², Hans Jurgen Wirth¹ Trajan Scientific And Medical, Torrance, USA

ubstance-Related Impurities Using Alkaline Eluent in

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sis of Oligonucleotides on an Ultra Performance

¹, Paula Hong¹

sources in Korea Using High-Performance Thin Layer

ookyu Lee¹, Jaeuk Seo¹, Changsoo Kim¹, Jinhee

nt, Herbal Medicine Research Division, National Institute of Korea

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Lars Van Eynde¹, Kristien Raeymaekers¹, David Corens¹

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Leandersson¹, Rebecca Rae¹, Julien Bourquin², Vahid eki

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Metabolite Daunorubicinol in Myocardial Tissue: stration in Rabbits

Lenčová-Popelová², Martin Štěrba² naceutical Analysis, Faculty of Pharmacy in Hradec Králové, Department of Pharmacology, Faculty of Medicine in Hradec epublic

sment of Oligonucleotides and Their Conjugates

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ces, BioPharmaceuticals R&D, AstraZeneca, Gothenburg, Pharmaceuticals R&D, AstraZeneca, Gothenburg, Sweden, ent, Respiratory and Immunology, BioPharmaceuticals R&D,

rugs by Capillary Electrophoresis-Mass

atsumori¹, <u>Takayuki Kawai</u>¹

	¹ Department of Drug Sciences, University of Pavia, Via Taramelli 12, Pavia, Italy, ² Department of Medical and Translational Biology, Umeå University, 90187 Umeå, Sweden, ³ Merck Life Science AS, Drammensveien 123, 277 Oslo, Norway, ⁴ Axcend, 3301 N.Thanksgiving Way, #175 Lehi, United States of America
PHA-56	An end-to-end technical approach to the Analytical Method Lifecycle <u>Clementine Castel</u> 1, Brooks Ligon ² , Máire Welham ¹ ¹ New Modalities & Parenteral Development, Pharmaceutical Technology and Development, Operations, Astrazeneca, Macclesfield, United Kingdom, ² Technological Operations, Science & Innovation, Pharmaceutical Technology and Development, Operations, Astrazeneca, Mt Vernon, United States
Prepar	
PRE-01	Enhancing Achiral Purification Workflows in Drug Discovery with Open-Access SFC-MS Purification Platform <u>Yusuke Masuda</u> ¹ , Ryo Kubota ¹ 'Shimadzu Corporation, Kyoto, Japan
PRE-02	Isolation of Melittin from Bee Venom by Means of Preparative Liquid Chromatography and use of Green Solvents Chiara Nosengo ¹ , Amin Tabesh ² , Simona Felletti ³ , Chiara De Luca ¹ , Alberto Cavazzini ¹⁴ , Hassan Rezadoost ² , Martina Catani ¹ 'Department of Chemical, Pharmaceutical and Agricultural Sciences, University of Ferrara, Ferrara, Italy, ² Department of Phytochemistry, Medicinal Plants and Drugs Research Institute, Shahid Beheshti University, G.C., Evin, Tehran, Iran, ³ Department of Environmental and Prevention Sciences, University of Ferrara, Ferrara, Italy, ⁴ Council for Agricultural Research and Economics (CREA), Roma, Italy
PRE-03	Isolation of Ovatoxin-a from Ostreopsis cf. ovata.From a LC-HRMS based procedure to a LC-UV based procedure <u>Valeria Tegola</u> ¹ , Chiara Melchiorre ¹ , Martina Carelli ¹ , Michela Varra ¹ , Carmela Dell'Aversano ¹ ¹ University of Naples Federico II, Napoli, Campania
PRE-04	Optimisation of the chromatographic purification of seaweed polysaccharides to enhance biological activity <u>Matthew Chadwick</u> ^{1,2} , Simone Dimartino ¹ , Richard Sloan ^{2,3} , Loïc Carvalho ⁴ , Carlos Vanegas ⁴ ¹ Institute of BioEngineering, The University Of Edinburgh, Edinburgh, United Kingdom, ² Institute of Regeneration and Repair, The University Of Edinburgh, Edinburgh, United Kingdom, ³ Zhejiang University-University of Edinburg Institute, Zheijang University, Haining, China, ⁴ BioMara Ltd, Edinburgh, United Kingdom
PRE-05	Bio-guided fractionation strategy by centrifugal partition chromatography to reveal the bioactive potential of toad venom extracts <u>Mathilde Wells</u> ¹ , Alexandre Hervé ² , Djabou Konare ² , Abdellah Tiflit ² , Delphine Beukens ¹ , Aline Genbauffe ¹ , Sandrine Zubrzycki ² , Laëtitia Fougère ² , Thomas Michel ³ , Bertrand Blankert ¹ , Emilie Destandau ² ¹ University Of Mons - Lab. of Pharmaceutical Analysis, Mons, Belgium, ² University of Orléans - Institute of Organic and Analytical Chemistry, Orléans, France, ³ Gilson Purification, Saint-Avé, France
PRE-06	Application of in – and offline tools for purification of natural compounds in simulated moving be (SMB) chromatography method development <u>Yannick Krauke</u> ¹ , Julia Wesolowski ¹ , Greta Compagnin ² , Simona Felleti ³ , Giorgia Greco ¹ ¹ Knauer Wissenschaftliche Geräte GmbH, Berlin, Germany, ² Dep. of Chemical, Pharmaceutical and Agricultural Sciences University of Ferrara, Ferrara, Italy, ³ Dep. of Environmental and Prevention Sciences University of Ferrar Ferrara, Italy
PRE-07	Inject, collect, repeat – Workflow for establishing a stacked injection method <u>Carsten Losch</u> ¹ , Johannes Menke ¹ , Yannick Krauke ¹

Micro-HPLC-UV Method for Assessing Ibuprofen Content in Pediatric Mini-Tablets and

Giorgio Marrubini¹, Luca Formichetti¹, Sofia Mattsson², Patrik Appelblad³, Cary Anne Simpson⁴, Enrica

Identification of a Process-Related Impurity

PRE-08	The strength of peak recycling in sustainable Juliane Kramer ¹ , Julia Wesolowski ¹ , Greta Com ¹ Knauer Wissenschaftliche Geräte GmbH, Berlin, Ger Pharmaceutical and Agricultural Sciences, Ferrara, Ital Prevention Sciences, Ferrara, Italy
PRE-09	High Recovery Purification of 8-Aminopyrene Electrophoresis Chenchen Liu ¹ , Takayuki Kawai ¹ ¹ Kyushu University, Fukuoka, Japan
PRE-10	Skip sample preparation in NMR analysis of H Johannes Menke ¹ , <u>Ulrike Krop¹</u> , Ruth Boetzel ² , I ¹ KNAUER wissenschaftliche Geräte GmbH, Berlin, Ge
PRE-11	Selective Fractionation Using Supermacropol Profiling Simonas Balčiūnas ^{1,2} , Matas Damonskis ² , Odet Naujalis ¹ , Dr. Lukas Taujenis ² ¹ Vilnius University, Vilnius, Lithuania, ² Thermo Fisher S
PRE-12	Streamlining Peptide Purification Workflows Yusuke Masuda ¹ , Shotaro Hirota ¹ , Tomoko Kuri ¹ Shimadzu Corporation, Kyoto, Japan
PRE-13	Isomer separation of Polyfluorinated Alkyl Se Annalena Werner ² ¹ Merck, Buchs, Switzerland
Retentio	on Modeling
RTM-01	Mobile-Phase Contributions to Analyte Reter Chromatography Andreas Steinhoff 1, Alexandra Höltzel 1, Ulrich ¹ Philipps-Universität Marburg, Marburg, Germany
RTM-02	Molecular dynamics simulation study of the

		Carboxylates in reversed-phase liquid chrom <u>Daniel Frerichs</u> ¹ , Andreas Steinhoff ¹ , Alexandra ¹ Philipps-Universität Marburg, Germany
	RTM-03	Extended multidimensional Design Space St Arnold Zoeldhegyi ^{1,2} , Krisztián Horváth ² , Imre M ¹ Molnár-Institute For Applied Chromatography, Berlin Pharmaceuticals Plc., Budapest, Hungary
	RTM-04	Molecular-level Insights into Hydrophilic Internet Retention via Molecular Simulations Hsiao-Feng Liu ¹² , J. Ilja Siepmann ¹² , Mark Schu ¹ Department of Chemical Engineering and Materials S ² Department of Chemistry and Chemical Theory Cen ³ Kroungold Analytical Inc, Blue Bell, United States, ⁴ A
	RTM-05	A Molecular Simulation Study of the Separation by Reversed-Phase Liquid Chromatography Hsiao-Feng Liu ¹² , J. Ilja Siepmann ¹² , Mark Schu ¹ Department of Chemical Engineering and Materials ² Department of Chemistry and Chemical Theory Cent ³ Kroungold Analytical Inc, Blue Bell, United States, ⁴ A
	RTM-06	Advanced modelling of retention time data: a <u>Kristof Vynckier</u> ¹ , Leon Niezen ¹ , Bram Huygens ¹ Vrije Universiteit Brussel, Brussels, Belgium, 2Katholi
	RTM-07	Open Source Chromatography Data Analysis Matthias Mailänder ¹ ¹ Lablicate GmbH, Hamburg, Germany

PHA-55

Calleri¹

Preparative

e and challenging purification of natural compounds npagnin², Simona Felletti³, Yannick Kraukey¹ rmany, ²University of Ferrara, Department of Chemical, taly, ³University of Ferrara, Department of of Environmental and

ne-1,3,6-trisulfonic Acid Labeled Glycans via Capillary

HPLC fractions

Federico Casanova², Jürgen Kolz² Germany, ²Magritek Limited, Aachen, Germany

orous Polymer Resin for Nucleic Acid Impurity

ta Dembovskytė², Vytautas Tamošiūnas², Evaldas

Scientific Baltics, UAB, Vilnius, Lithuania

s through Analytical to Preparative Scale-up Strategy iki¹, Hidetoshi Terada¹, Ryo Kubota¹

Substances (PFAS) by Preparative Chromatography

ention and Selectivity in Reversed-Phase Liquid

Tallarek¹

differential retention of carboxylic acids and their natography

a Höltzel¹, Ulrich Tallarek¹

tudies of Volatile and Non-volatile Buffer Systems Molnár¹, Róbert Kormány³ n, Germany, ²University of Pannonia, Veszprém, Hungary, ³Egis

eraction Liquid Chromatography and Mixed-Mode

ure³, Stephanie Schuster⁴, Peter Pellegrinelli⁴ Science, University of Minnesota, Minneapolis, United States, nter, University of Minnesota, Minneapolis, United States, Advanced Materials Technology, Wilmington, United States

tion of Molar Weight-Distributed Polyethylene Oxides

ure³, Stephanie Schuster⁴

Science, University of Minnesota, Minneapolis, United States, nter, University of Minnesota, Minneapolis, United States, Advanced Materials Technology, Wilmington, United States

addressing hybrid RPLC and HILIC behaviour s¹, Deirdre Cabooter², Gert Desmet¹ lieke Universiteit Leuven, Leuven, Belgium

s with OpenChrom



Retention Modeling

RTM-08	Adsorption Energy Distribution for Competitive Adsorption Systems Abdul Haseeb ¹ , Yosief Wondmagegne ¹ , Miguel X. Fernandes ¹ , Jörgen Samuelsson ¹ ¹ Karlstad University, Karlstad, Sweden
RTM-09	Speeding up liquid chromatography method development in early phases of pharmaceutical development by using strategies of hybrid retention modeling <u>Kai Chen</u> ¹ , Emery Bosten ² , Robbin Bouwmeester ³ , Alexander Kensert ³ , Thomas Neefs ¹ , Lennart Martens ³ , Deirdre Cabooter ² , Mario Hellings ¹ ¹ Johnson & Johnson Innovative Medicine, Beerse, Belgium, ² KU Leuven, Leuven, Belgium, ³ VIB / University of Ghent, Ghent, Belgium
RTM-10	In silico simulations to investigate the enantiorecognition mechanism in liquid chromatography:a case study with a dipeptide and four zwitterionic Cinchona alkaloid-based chiral stationary phases Ina Varfaj ¹ ¹ University Of Perugia, Perugia, Italy
RTM-11	Prediction of retention, separation and elution sequence of enantiomers on polysaccharide- based stationary phases using QSERR models <u>Pieter De Gauquier</u> ¹ , Jordy Peeters ¹ , Fardine Ameli ¹ , Kenno Vanommeslaeghe ¹ , Yvan Vander Heyden ¹ , Debby Mangelings ¹ 'Vrije Universiteit Brussel, Brussels, Belgium
RTM-12	Machine Learning-Assisted Retention Time Predictions on Polysaccharide-based Chiral Columns in Polar Organic Mode Attila Imre ^{1,2} , <u>Gergely Dombi</u> ^{2,3} , Máté Dobó ^{2,3} , Elek Ferencz ⁴ , Balázs Balogh ^{2,5} , Anna Vincze ^{2,3} , Zoltán- István Szabó ^{6,7} , György Tibor Balogh ^{2,3,8} , Anita Rácz ⁹ , Gergő Tóth ^{2,3} 'Semmelweis University Center for Health Technology Assessment, Budapest, Hungary, ² Semmelweis University Center for Pharmacology and Drug Research & Development, Budapest, Hungary, ³ Semmelweis University Department of Pharmaceutical Chemistry, Budapest, Hungary, ⁴ Emergency County Hospital Miercurea Ciuc, Service of Translational Medicine and Clinical Research, Miercurea Ciuc, Romania, ⁵ Semmelweis University Department of Organic Chemistry, Budapest, Hungary, ⁶ George Emil Palade University of Medicine, Pharmacy, Science and Technology of Targu Mures Department of Pharmaceutical Industry and Management, Targu Mures, Romania, ⁷ Sz-imfidum Ltd., Covasna, Romania, ⁸ Budapest University of Technology and Economics Department of Chemical and Environmental Process Engineering, Budapest, Hungary, ⁹ HUN-REN Research Centre for Natural Sciences Institute of Materials and Environmental Chemistry, Budapest, Hungary
RTM-13	Exploring pH-Dependent Retention Mechanisms in Mixed-Mode Liquid Chromatography: Theoretical and Modeling Insights Abdul Haseeb ¹ , Miguel Fernandes ¹ , Jörgen Samuelsson ¹ ¹ Karlstad University, Karlstad, Sweden
RTM-14	Optimization and validation of a cheaper, safer, and more sustainable methodology for aflatoxins determination in rich-lipidic matrices using deep eutectic solvent extraction and SPE-UHPLC-FLD analysis <u>Marco Beccaria</u> ¹ , Andrea Schincaglia ^{1,2} , Alberto Cavazzini ¹ , Giorgia Purcaro ² ¹ University of Ferrara, Ferrara, Italy, ² University of Liège, Liège, Belgium
RTM-15	Mechanistic Modeling of Indirect Detection in Ion-Pair Liquid Chromatography Jörgen Samuelsson ¹ , Marek Lesko ¹ , Torgny Fornstedt ¹ ¹ Karlstad University, Karlstad, Sweden
RTM-16	The Helfferich Paradox Revisited <u>Torgny Fornstedt</u> ¹ , Morgan Stefansson ² , Jörgen Samuelsson ¹ ¹ Karlstad University, Karlstad, Sweden, ² Aprilgatan 8B, Göteborg, Sweden
RTM-17	Application of a deep learning model to predict HPLC retention times of food peptides across chromatographic conditions Boudewijn Hollebrands ^{1,2} , Hageman ³ , Hans-Gerd Janssen ^{1,2} ¹ Laboratory of Organic Chemistry, Wageningen University, Wageningen, Netherlands, ² Unilever Foods Innovation Centre-Hive, Wageningen, Netherlands, ³ Biometris, Applied Statistics, Wageningen University & Research, Wageningen, Netherlands
RTM-18	The Solvation Shell of Small Solutes in Aqueous–Organic Solvent Mixtures and Its Implications for Reversed-Phase Liquid Chromatography Andreas Steinhoff ¹ , Alexandra Höltzel ¹ , Ulrich Tallarek ¹ ¹ Philipps-Universität Marburg, Marburg, Germany

Sample	Preparation
SAP-01	Utilizing novel phenylpyridine tags for N-linke laser-induced fluorescence and/or mass spec Jana Lavicka ¹ , Denisa Smolkova ¹ , Michal Gregu Bobal ² 'Institute of Analytical Chemistry of the Czech Academ Masaryk University, Brno, Czech Republic, 3Faculty of Ljubljana, Slovenia
SAP-02	On-line sample preparation procedure for the exposed to mustard agents Lorenzo Avigo ^{1,3} , Audrey Combès ¹ , Charlotte De Anne Bossée ² , Pr. Valérie Pichon ^{1,3} ¹ Department of Analytical, Bioanalytical Sciences and Innovation (CBI), ESPCI Paris, PSL University, CNRS, 5 Rue Lavoisier, 91710 Vert-Le-Petit, France, ³ Sorbonn
SAP-03	Engineering Multi-Modal Magnetic Core-She and Remediation of PFCs: Quantification via U Uday Shashikumar ¹ , Jeganathan Chinnadurai ² , ¹ Department of Medicinal and Applied Chemistry, Kac Center for Precision Environmental Medicine, College Taiwan, ³ bPh.D program in Life Science, College of Life
SAP-04	Is Commercial Electromembrane Extraction I Whole Blood Microsamples? Adam Reguli ¹ , Samira Dowlatshah ² , Frederik Ar Bjergaard ^{2,3} ¹ Charles University, Faculty of Pharmacy in Hradec Kra Department of Pharmacy, Oslo, Norway, ³ University of Copenhagen, Denmark
SAP-05	Toward 4,000,000-fold Sensitivity Enhancen Cationic Fluorescent Dye and Novel Dual State Yuki Miike ¹ , Suen He ¹ , Chenchen Liu ¹ , Kohei Tori 'Kyushu University, Fukuoka, Japan
SAP-06	Accelerating Sample Preparation Development Learning and Supercritical Fluid Extraction Moritz Effner ^{1,2} , Alexander Schmidt ² , Mijo Stanio ¹ Universät Tübingen, Tübingen, Germany, ² Chromicen
SAP-07	Recent advances in sample preparation for the based panels <u>Rui Ramos</u> ¹ , Fátima Daniela Gonçalves ¹ , Luísa O ¹ LAQV-REQUIMTE, Departamento de Química e Biog Rua do Campo Alegre s/n, Porto, 4169-007, Portugal, Instituto Politécnico de Viseu, Campus Politécnico de de Engenharia, Universidade do Porto, Rua Dr. Robert Laboratory in Chemical Engineering, Faculdade de Er 4200-465, Portugal
SAP-08	Purification of 2-Aminobenzamide Labeled G Using Monolithic Solid-phase Extraction Cen Kana Tanaka ¹ , Yuko Yui ¹ , Mengmin Terashima ¹ , S ¹ GL Sciences Inc., Japan
SAP-09	Extracting amino acids from mice plasma with protein precipitation as sample pretreatment Phaedra Verding ¹² , Dagmara Kroll ³ , Mariusz Bel Eeckhaut ² , Debby Mangelings ¹ ¹ Vrije Universiteit Brussel (VUB), Faculty of Medicine a Chemometrics and Molecular Modelling (FABI), Laard Brussel (VUB), Faculty of Medicine and Pharmacy, Re for Neurosciences (C4N), Laarbeeklaan 103, 1090 Br Medical University of Gdarsk, 1 Hellera 107, 80, 416 G

ed glycan profiling by capillary electrophoresis with ectrometry detection

us², Richard Cmelik¹, Ross D. Jansen-van Vuuren³, Pavel

my of Sciences, Brno, Czech Republic, ²Faculty of Pharmacy, of Chemistry and Chemical Technology, University of Ljubljana,

e monitoring of albumin adduction on Cysteine 34

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ell Systems for Simultaneous Extraction, Detection UHPLC-MS/MS

², Vinoth Kumar Ponnusamy^{1,2,3}

ohsiung Medical University, Kaohsiung, Taiwan, ²Research ge of Medicine, Kaohsiung Medical University, Kaohsiung, ife Sciences, Kaohsiung Medical University, Kaohsiung, Taiwan

Device Capable of Extracting Pharmaceuticals from

ndré Hansen², Petra Štěrbová-Kovaříková¹, Pedersen-

írálové, Hradec Králové, Czech Republic, ²University of Oslo, of Copenhagen, Faculty of Health and Medical Sciences,

ment in CE-MS N-Glycan Analysis Using Multiacking Method

rikai¹, Nobuaki Matsumori¹, Takayuki Kawai¹

nent in Pharmaceutical Context Using Machine

nic², Michael Lämmerhofer¹ ent GmbH, Berlin, Germany

the sampling of volatile organic compounds in wood-

Carvalho^{2,3,4}, José António Rodrigues¹ oquímica, Faculdade de Ciências, Universidade do Porto, I, ²DEMad-Departamento de Engenharia de Madeiras, e Repeses, Viseu, 3504-510, Portugal, ³LEPABE-Faculdade erto Frias, Porto, 4200-465, Portugal, ⁴ALiCE – Associate Engenharia, Universidade do Porto, Rua Dr. Roberto Frias, Porto,

Glycans ntrifugal Columns Shigenori Ota¹

th a novel polyamide 3D-printed device compared to ts: design-of-experiments-based optimization elka³, Tomasz Bączek³, Yvan Vander Heyden¹, Ann Van

and Pharmacy, Department of Analytical Chemistry, Applied rbeeklaan 103, 1090 Brussels, Belgium, ²Vrije Universiteit esearch group of Experimental Pharmacology (EFAR), Center Brussels, Belgium, ³Department of Pharmaceutical Chemistry, Gdańsk, Poland

SAP-10	The first application of amino-acid based adsorbents for the dispersive solid phase extraction of antisense oligonucleotides <u>Karolina Ostrowska</u> ¹ , Zuzana Vosáhlová ¹ , Szymon Bocian ¹ , Sylwia Studzińska ¹ ¹ Nicolaus Copernicus University in Toruń, Toruń, Polska
SAP-11	Ionic liquid-functionalized silica-graphene oxide hybrid sorbent: development and application in microextraction packed sorbent for multiclass pesticide determination <u>Alessandra Timóteo Cardoso</u> ^{1,2} ¹ Universidade de São Paulo, São Carlos, Brazil, ² Instituto de Investigación en Ciencias de la Alimentación, Madrid, Spain
SAP-12	Microsampling vs. Chemical Biopsy: A Comparative Study on Tissue Metabolome Extraction <u>Helena Kim</u> ¹² ¹ Department of Analytical Chemistry, Faculty of Chemistry, University of Vienna, Waehringer Str. 38, 1090, Vienna, Austria, ² University of Vienna, Vienna Doctoral School in Chemistry (DoSChem), Waehringer Str. 42, 1090, Vienna, Australia
SAP-13	 Micro-Nanofabrication in Analytical Chemistry: Streamlining Sample Preparation for Organoid Drug Studies Frøydis Sved Skottvoll¹, Stian Kogler^{2,3}, Helena Hrušková^{2,3}, Anna Thu Hoai Nguyen⁴, Aleksandra Aizenshtadt³, Frederik André Hansen⁵, Stefan Krauss³, Michal Marek Mielnik¹, Jörg P. Kutter⁴, Hanne Røberg-Larsen^{2,3}, Steven Ray Wilson^{2,3} ¹Sintef Digital, Oslo, Norway, ²Department of Chemistry, University of Oslo, Oslo, Norway, ³Hybrid Technology Hub, University of Oslo, Oslo, Norway, ⁴Department of Pharmacy, University of Copenhagen, Copenhagen, Denmark, ⁵Department of Pharmacy, University of Oslo, Norway
SAP-14	New Compact Sampling and Sample Preparation Technologies for Portable Capillary Liquid Chromatography to Meet Today's Evolving Needs Matthew Morse ¹ , M Powell ¹ , M Lunsford ¹ , M Lee ¹ , J Grinias ² , S Foster ² , J Boughton ² , E Hanson ² , N Doupsas ³ , P Richardson ³ , <u>Cary Simpson¹</u> ¹ Axcend, Lehi, United States, ² Rowan University, Glassboro, United States, ³ Pfizer, United States
SAP-15	Evaluation of trap discs for root exudate eco-friendly sampling using rhizoboxes: Application to untargeted screening of organic compounds by gas chromatography hyphenated with high resolution mass spectrometry Victoria Bohm ¹ , <u>Pascal Cardinael¹</u> , Matthieu Chauvat ² , Estelle Forey ² , Valerie Agasse ¹ 'SMS UR3233, FR3038, Université de Rouen Normandy, Mont-Saint-Aignan, France, ² ECODIV URA/EA-1293, FR CNRS 3730 SCALE, Université de Rouen Normandie, Mont-Saint-Aignan, France
SAP-16	Green solvent-based microelution solid phase extraction for top-down CE-MS analysis of proteins <u>Katarína Maráková</u> ¹² , Martina Opetová ¹² , Radovan Tomašovský ¹² ¹ Comenius University Bratislava, Faculty of Pharmacy, Department of Pharmaceutical Analysis and Nuclear Pharmacy, Bratislava, Slovakia, ² Comenius University Bratislava, Faculty of Pharmacy, Toxicological and Antidoping Center, Bratislava, Slovakia
SAP-17	High levels of benzene in benzoyl peroxide – a sample preparation artefact? <u>Johan Mattsson</u> ¹ , Nhung Dang ¹ , Ricardo Neto ¹ , Adam Lanebjer ¹ , Mikael Nilsson ¹ ¹ Cambrex, Karlskoga, Sweden
SAP-18	Single Lipid Analysis by Hyphenation of the Micro-Extraction based on the Solid-Liquid Transition Phenomena and the Nanopore Single Molecular Detection/Machine Learning Yukihiro Okamoto ¹ , Sho Asano ¹ , Takahito Oshiro ¹ ¹ Division of Chemical Engineering, Graduated School of Engineering Science, Osaka University, Toyonaka/Osaka, Japan, ² SANKEN, Osaka University, Suita/Osaka, Japan
SAP-19	Sample preparation approaches followed by GC×GC-TOFMS analysis to facilitate the characterization of wastes from new energy materials Giulia Giacoppo ¹ , Charlotte Mase ² , Marco Piparo ² , Pierre Giusti ² , Caroline Mangote ² , Luisa Pasti ¹ , Alberto Cavazzini ¹ , Flavio Antonio Franchina ¹ , Giorgia Purcaro ³ , <u>Marco Beccaria¹</u> ¹ Institute

SAP-20	Sodium alginate/supra molecular solvent com fungicides followed by ultra-performance liqu Rawikan Kachangooon ¹ , Yanawath Santaladch ¹ Creative Chemistry and Innovation Research Unit, De University, Maha Sarakham 44150, Thailand, Kanthara Engineering, Rajamangala University of Technology Is Khon Kaen, Thailand, ³ Multidisciplinary Research Unit Chemistry and Center of Excellent for Innovation in Cr Sarakham 44150, Thailand, Maha Sarakham, Thailand
SAP-21	Magnetic sugarcane bagasse biosorbent as g by ultra-performance liquid chromatography Phatchara Rattanaphonsaen ¹ , Pirom Suwannas ¹ Mahasarakham University, Maha Sarakham, Thailand Thailand, ³ Aichi Institute of Technology, Toyota, Japan
SAP-22	Magnetic vinylene-based covalent organic fra for eight beta-agonists in meat samples by UH <u>Hui Ling Lee</u> , Chih-Ling Yeh, Yi-Hsuan Hsieh ¹ Fu Jen Catholic University, Department Of Chemistry,
SAP-23	Selective extraction and liquid chromatograp products <u>Katarína Hroboňová</u> ¹ , Oleg Turčan ¹ ¹ Slovak University of Technology in Bratislava, Faculty Chemistry, Bratislava, Slovakia
SAP-24	Selective extraction using a molecularly impride determination of organolepric compound β-d <u>Katarína Hroboňová</u> ¹ , Ján Hronček ¹ , Tomáš Spiš ¹ Slovak University of Technology in Bratisla, Faculty of Chemistry, Bratislava, Slovakia
SAP-25	Overcoming Nonspecific Binding in Liquid Ch Accuracy, and Reproducibility in Peptide/Pro Audrius Dorofejus ¹ , Elina Pasecnaja ¹ , habil. Fran ¹ Thermo Fisher Scientific, Vilnius, Lithuania, ² Thermo F
SAP-26	Heat-assisted solvent flotation for the enricht Mengyao Gao, Yuchi Zhang, <u>Yun Wei</u> ¹ ¹ Beijing University Of Chemical Technology, Beijing, Ch
SAP-27	One-Click reaction of a novel adsorbent phas <u>Carmela Maria Montone</u> ¹ , Chiara Cavaliere ¹ , And Laura Capriotti ¹ ¹ Sapienza, University of Roma, Piazzale Aldo Moro 5, In
SAP-28	Systematic approach to sample preparation of iron-sugar complex drug <u>Mario-Livio Jeličić</u> ¹ , Tamara Grgić ¹ , Iva Erak ¹ , Dur ¹ Pliva Hrvatska d.o.o., Zagreb, Croatia
SAP-29	Synthesis and Performance of Molecularly Im Metabolites Under In Situ Induced Anion Excel Antons Podjava ¹ , <u>Artūrs Šilaks</u> ¹ ¹ University of Latvia, Riga, Latvia
SAP-30	Online SBSE-SFE-SFC-MS to Analyze Migrat Biological Matrices Benjamin Caux ^{1,2} , Clément De Saint Jores ¹ , Ram Yamashita ⁴ , Takeshi Bamba ⁴ , Caroline West ¹ ¹ University of Orleans, CNRS, ICOA, UMR 7311; Pôle d 2, France, Orléans, France, ² Shimadzu France, Le Iuza Vallée, France., Noisiel, France, ³ Shimadzu Europa Gm Duisburg, Germany, ⁴ Division of Metabolomics, Medic Bioregulation, Kyushu University, 3-1-1 Maidashi, Higas

120

Sample Preparation

mposite beads for the extraction of triazole uid chromatography

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ry, New Taipei City, Taiwan

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nk Steiner², Dennis Koehler² Fisher Scientifics, Germering, Germany

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ndrea Cerrato¹, Aldo Laganà¹, Enrico Taglioni¹, Anna

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optimisation for determination of organic acids in

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mprinted Sorbents for Catecholamines and their change Solid-Phase Extraction Conditions

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SAP-31	SPME-LC-MS/MS method for monitoring the metabolites of kynurenine and serotonin pathways in real biological samples Julia Zadrożna ¹ , Julia Kasprowicz ¹ , Agnieszka Mosińska ¹ , Lena Jeżewska ¹ , Dominika Zapalska ¹ , Marcin Lipiński ² , Joanna Bogusiewicz ³ , Karol Jaroch ³ , Barbara Bojko ³ , Natalia Miękus ¹ , Kamila Langowska ⁴ , Tomasz Bączek ¹ , Anna Roszkowska ¹ ¹ Department of Pharmaceutical Chemistry, Medical University of Gdańsk, Poland, Gdańsk, Poland, ² Department of Pharmaceutical Biochemistry, Medical University of Gdańsk, Poland, Gdańsk, Poland, ³ Department of Pharmacodynamics and Molecular Pharmacology, Collegium Medicum, Nicolaus Copernicus University, Poland, Bydgoszcz, Poland, ⁴ Department of Cardiology of the St. Vincent a Paulo Hospital in Gdynia, Gdynia, Poland, Gdynia, Poland
SAP-32	Semi-automated SPE of PFAS from human serum <u>Christine Meinert</u> ¹ , Hans Rainer Wollseifen ¹ , Sarah Henze ¹ , Torsten Kretschmer ¹ , Rebecca Nuessgen ¹ ¹ MACHEREY-NAGEL GmbH & Co. KG, Dueren, Germany
SAP-33	Analysis of PFAS in aqueous samples by SPE and LC-MS/MS according to EPA Method 1633 <u>Christine Meinert</u> ¹ , H.R. Wollseifen ¹ , Rebecca Nüssgen ¹ ¹ MACHEREY-NAGEL GmbH & Co. KG, Dueren, Germany
SAP-34	Evaluation of the overall efficiency of breast milk pretreatment procedures for the determination of DINCH metabolites by HPLC-MS/MS <u>Helena Jurdáková</u> ¹ , Alžbeta Oravcová ¹ , Renáta Górová ¹ ¹ Comenius University in Bratislava, Faculty of Natural Sciences, Bratislava, Slovakia
SAP-35	Isolation and HPLC characterization of antifungal agents from Eryngium biebersteinianum using modern extraction techniques <u>Mereke Alimzhanova</u> ¹ , Nurkanat Meirbekov ¹ , Rebeca López-Serna ² 'Al-Farabi Kazakh National University, Almaty, Kazakhstan, ² University of Valladolid, Valladolid, Spain
SFC	
SFC-01	Separation of neutral and acidic natural cannabinoids using supercritical fluid chromatography (SFC) and liquid chromatography (LC) hyphenated to hybrid mass spectrometry (Q-TOF) <u>Radosław Porada</u> ¹ , Małgorzata Herman ¹ , Wojciech Piekoszewski ¹ ¹ Jagiellonian University, Kraków, Poland
SFC-02	Optimization of SFC-MS/MS working conditions for aflatoxin determination <u>Radosław Porada</u> ¹ , Wojciech Piekoszewski ¹ ¹ Jagiellonian University, Kraków, Poland
SFC-03	Super critical method transfer: Inter-manufacturer qualification and comparison of three SFC instruments <u>Mo Legelli</u> ^{1,2} , Michaela Wirtz ¹ , Stefan Lamotte ² ¹ University of Applied Sciences Bonn-Rhein-Sieg, Rheinbach, Germany, ² BASF SE, Ludwigshafen am Rhein, Germany
SFC-04	Generic method development for untargeted brain metabolomic profiling using supercritical fluid chromatography-mass spectrometry Sarah Bilal ¹ , Ann Van Eeckhaut ² , Yvan Vander Heyden ¹ , Debby Mangelings ¹ ¹ Vrije Universiteit Brussel (VUB), Faculty of Medicine and Pharmacy, Department of Analytical Chemistry, Applied Chemometrics and Molecular Modelling, Laarbeeklaan 103, 1090 Brussels, Belgium, Belgium, ² Vrije Universiteit Brussel (VUB), Faculty of Medicine and Pharmacy, Research group of Experimental Pharmacology (EFAR), Center for Neurosciences (C4N), Laarbeeklaan 103, 1090 Brussels, Belgium, Belgium

Artificial Neural Networks-Driven Elucidation of Ionization Processes In Supercritical Fluid

Fast, Efficient, and Green: Comparing UHPLC-UV and UHPSFC-UV for Advanced Ginsenoside

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Chromatography-Mass Spectrometry

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Analysis

SFC-07	Chiral SFC Separation of Indole-Containing T Do Hyun Ryu ¹ , Jin Won Lee, Hee Seo Jung, Seu 'Sungkyunkwan University, Suwon, South Korea
SFC-08	Chiral/achiral separation of synthetic cannab <u>Květa Kaliková</u> ¹ , Matúš Kapusta ¹ , Eva-Maria Hul ¹ Charles University, Faculty Of Science, Prague 2, Cze Department of Pharmaceutical Chemistry, Graz, Aust
SFC-09	One for All: A SFC-MS/MS Platform Method f the Guidelines of Good Manufacturing Practi Andreas Zappe ¹ , Mijo Stanic ¹ , Alexander Schmi ¹ Chromicent Gmbh, Berlin, Germany
SFC-10	Supercritical fluid chromatography for analyst Petra Vaňkátová ¹ , Martin Cigl ¹ , Květa Kalíková ² ¹ Institute of Physics, Czech Academy of Sciences, Pra Macromolecular Chemistry, Faculty of Science, Charl
SFC-11	Navigating Complexities in Achiral PROTAC S <u>Astrid Buica</u> ^{1,2} , Alva Musleh ¹ , Carolina Sanchez ¹ , ¹ Early Chemical Development, Pharmaceutical Science Mölndal, Sweden, Gothenburg, Sweden, ² Data Science R&D, AstraZeneca, SE-431 83 Mölndal, Sweden, Goth
SFC-12	Method Development of a Single SFC-SEC M <u>Mijo Stanic</u> ¹ , Alexander H. Schmidt ¹ ¹ Chromicent GmbH, Berlin, Germany
SFC-13	Chiral SFC-MS enantioselective profiling of n complex biological samples <u>Oleksandr Kozlov</u> ¹ , Miroslav Lísa ¹ , Nela Štěrbov ¹ Department of Chemistry, Faculty of Science, Univers Králové, Czech Republic, ² Institute of Physiology of the Czech Republic
SFC-15	Efficient SFC Method Optimization for benzo Annika Malz ¹ , Brigitte Bollig, Vadim Kraft, Philipp 'Shimadzu Europe Gmbh, Duisburg, Germany
SFC-16	Exploring Novel Separation Mechanisms for Preliminary Results Damien Pierret ¹ , Quentin Gros ² , Clément De Sa 'Gembloux Agro-Bio Tech, Uliege, Gembloux, Belgium Orléans, CNRS, ICOA, UMR7311, Orléans, France
SFC-17	Analysis of Alkaloids and Triglycerides in Lota Yiting Zhou ¹ , Eric Lesellier ² , Caroline West ² ¹ Shimadzu Corporation, Kyoto, Japan, ² University of C

Stati	ionar	y Ph	ases	

STP-01	Anion exchange properties of HILIC and mix Anna Khrisanfova ¹ , Maria Smagina ¹ , <u>Alla Cherr</u> ¹ Lomonosov Moscow State University, Moscow, Rus
STP-02	New porous monodisperse particles for incr Mark Woodruff ¹ , Ken Butchart ¹ ¹ Fortis Technologies, Neston, United Kingdom
STP-03	Superficially porous particles with grafted z Benjamin Peters ¹ , Clinton Corman ² , Patrik App ¹ Merck Life Science KGaA, Darmstadt, Germany, 2N

SFC-05

SFC-06

Triarylmethanes unghun Kim¹

binoids in sub/supercritical fluid chromatography ubner², Martin Schmid² zech Republic, ²Institute of Pharmaceutical Sciences, stria

for Multiple Nitrosamine Analysis in Accordance with tice

sis of materials of technological interest

ague, Czech Republic, ²Department of Physical and rles University, Prague, Czech Republic

Separation Using Supercritical Fluid Chromatography r¹, Christoph Bauer², Kristina Öhlén¹, Hanna Leek¹ nces, Biopharmaceuticals R&D, AstraZeneca, SE-43183 nce & Modeling, Pharmaceutical Sciences, Biopharmaceuticals thenburg, Sweden

Method for Analysis of Plastic Additives

monoacylglycerols, diacylglycerols, and FAHFAs in

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oic acid derivates using Shimadzu LabSolutions MD op Jochems, Gesa J. Schad

MOHs Using Supercritical Fluid Chromatography:

aint Jores³, Caroline West³, Giorgia Purcaro¹ m, ²Shimadzu Europa Gmbh, Duisburg, Germany, ³University of

tus Seeds Using Supercritical Fluid Chromatography

Orleans, ICOA, CNRS UMR 7311, Orleans, France

ked-mode stationary phases nobrovkina¹ ssian Federation

reasing resolution in Liquid Chromatography

witterionic functional groups: Recent developments belblad¹, Petra Lewits¹ *illiporeSigma, Bellefonte, USA*



STP-04	Laboratory-designed mixed-mode resins for HPLC and simple assessment of their hydrophilicity and shielding degree <u>Anastasiia Gorbovskaia</u> ¹ , Anna Uzhel ¹ , Ilsina Talipova ¹ , Arsenii Timichev ¹ , Oleg Shpigun ¹ ¹ Lomonosov Moscow State University, Moscow, Russian Federation
STP-05	Improving robustness and applicability of TRLC Adriaan Ampe ¹ ¹ Ghent University, Ghent, Belgium
STP-06	Novel High pH Stable SPP Columns for Enhanced LC and LC-MS Separations of Basic Compounds Stephanie Schuster ¹ , Conner McHale ¹ , Peter Pellegrinelli ¹ , Joshua McBee ¹ , Mark Haynes1, William Miles ¹ ¹ Advanced Materials Technology, Inc., Wilmington, United States
STP-07	Preparation and post-modification of cyclic anhydride-methacrylate copolymers as reactive and functionalizable stationary phases for chromatographic applications <u>Ayman Ahmed</u> ¹ ¹ king saud university, Riyadh, Saudi Arabia
STP-08	Development and Characterization of HILIC Columns with Polyamine Derivatives Saki Kimoto ¹ ¹ Kyoto Institute of Technology, Kyoto city sakyo-ku simogamohigashimorigamae-chyo, Japan
STP-09	Designing Mass Transfer-Enhanced Chromatographic Microspheres Hanchen Cao ¹ , Bo Zhang ¹ ¹ Xiamen University, Xiamen, China
STP-10	Immobilized recombinant FcyIIIA receptor and FcyIIIA receptor as a useful tool for characterization of human IgG antibodies Djuro Josic ¹ ¹ Faculty Of Medicine, Juraj Dobrila University, Pula, Croatia, Pula, Croatia
STP-11	Liquid Chromatographic Separation of H/D Isotopologues Enabled by Aromatic π Interactions Xiaoting Li ¹ , Takuya Kubo ¹ ¹ Kyoto Prefectural University, Kyoto, Japan
STP-12	Development of Novel Solid-Phase Organic Reaction Field for The Compounds with Catechol Structure Using a Triptycene-Based Polymer Packed Column <u>Mai Sasaki</u> ¹ , Takuya Kubo ^{1,2} ¹ Kyoto University, Kyoto, Nisikyo-ku, Katsura, Japan, ² Kyoto Prefectural University, Kyoto, Sakyo-ku, Shimogamo Hangi-cho, Japan
STP-13	Development of Innovative Chiral Stationary Phases for Improved HPLC Enantioseparations <u>Magdaléna Labíková</u> ¹ , Jiří Svoboda ¹ , Ivana Jevtic ² , Jiří Tůma ¹ , Wolfgang Lindner ³ , Michal Kohout ¹ ¹ Department of Organic Chemistry, University of Chemistry and Technology Prague, Prague, Czech Republic, ² Department of Chemistry, University of Belgrade, Belgrade, Serbia, ³ Department of Analytical Chemistry, University of Vienna, Vienna, Austria
STP-14	Toward Ideal Sphere Packing: Solvent-Free Single-Layer Assembly for Chromatography Ignaas Jimidar ^{1,2} , Bo Zhang ⁴ , Gertrud E. Morlock ³ , Gert Desmet ¹ ¹ Vrije Universiteit Brussel, Brussels, Belgium, ² University of Twente, Enschede, Netherlands, ³ Justus Liebig University Giessen, Giessen, Germany, ⁴ Xiamen University, China
STP-15	Integrated (Bio)-Analytical Assessments of BADGE Derivatives: A Multimodal Investigation into Toxicokinetics and Human Exposure Lucia Grumetto ¹ , Ilaria Neri, Giacomo Russo ¹ Department of Pharmacy, School of Medicine and Surgery, University of Naples Federico II, Napoli, Italy
STP-16	Chiral chromatography on polysaccharide-based chiral selectors: exploration of their conformational diversity and chiral recognition mechanisms using computational methods Fardine Ameli ¹ ¹ Vrije Universiteit Brussel (VUB), Faculty of Medicine and Pharmacy, Department of Analytical Chemistry, Applied Chemometrics and Molecular Modelling, Laarbeeklaan 103, 1090 Brussels, Belgium., Brussels, Belgium

STP-17	Alkyne-azide click chemistry-based immobil selector on silica gel for HPLC utilization Anna Malyshenko ¹ , David Schachamayr ¹ , Anna Michal Kohout ⁴ , Thomas Rosenau ^{2,5} , Laura Cip ¹ Institute of Applied Chemistry, Department Science Austria, ² Institute of Chemistry of Renewable Resour and Life Sciences, Vienna (BOKU), Austria, ³ Departm Bicocca, Milano, Italy, ⁴ Department of Organic Chem Czech Republic, ⁵ Laboratory of Natural Materials Teo University, Finland, ⁶ Christian Doppler Laboratory for and Life Sciences, Vienna (BOKU), Austria
STP-18	HILIC and novel hydrophilic stationary phase determining enzymatic activity Natalia Chikurova ^{1,2} , Leonid Shaposhnikov, Ana Chernobrovkina ¹ 'Lomonosov Moscow State University, Moscow, Rus Research Centre "Fundamentals of Biotechnology" of Federation
STP-19	Aqueous liquid chromatography with anionic liquid associated to chloride <u>María Celia Garcia-Alvarez-Coque</u> ¹ , Carlos Jos José Ruiz-Ángel ¹ ¹ University of Valencia, Burjassot (Valencia), Spain
STP-20	Novel stationary phases and solvents for bio Szymon Bocian ¹ , Sylwia Studzińska ¹ , Oktawia ¹ Nicolaus Copernicus University in Toruń, Toruń, Pola
STP-21	Synthesis of mixed acid stationary phases we radical polymerization for the application in or Luca Schipplick ¹ , Jürgen Decani ¹ , Andreas Seu ¹ Philipps University Marburg, Marburg, Germany
STP-22	The CHROMATOGRAPHY COMPASS ver. 2. Mizuki Aoi ¹ ¹ Development div., Japan
STP-23	Investigating Column Efficiency for Oligonuc Judith Mollen ^{1,2} , Gert Desmet ² , Deirdre Caboot ¹ KU Leuven, Pharmaceutical Analysis, Leuven, Belgiu Belgium
STP-24	Comparing C18-Type Stationary Phases to B Tool John Gallant ¹ , Melinda Ulrich ² 'Restek Corporation, United States of America

lization of cellulose per(phenyl carbamate) chiral

a F. Lehrhofer², Simona Petroni^{2,3}, Markus Bacher², polla³, Hubert Hettegger^{2,6}

and Technology, IMC University of Applied Sciences, Krems, rces, Department of Chemistry, University of Natural Resources nent of Biotechnology and Biosciences, University of Milanonistry, University of Chemistry and Technology Prague, Prague, chnology, Faculty of Science and Engineering, Åbo Akademi or Cellulose High-Tech Materials, University of Natural Resources

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Biphenyl Using an LC Virtual Method Development



