

**XVIII REUNIÓN CIENTÍFICA  
DE LA SOCIEDAD ESPAÑOLA DE CROMATOGRFÍA  
Y TÉCNICAS AFINES · SECyTA 2018**

*XVIII SCIENTIFIC MEETING*

*OF THE SPANISH SOCIETY OF CHROMATOGRAPHY  
AND RELATED TECHNIQUES · SECyTA 2018*

# SECyTA 2018



## Granada

[www.secyta2018.es](http://www.secyta2018.es)

**2 - 4 Octubre de 2018**

*October 2 - 4, 2018*

**Palacio de Congresos de Granada / Granada Conference Center**

**Organizador**  
*Organizer*

**Colaboradores**  
*Collaborators*



Dpto. de Química Analítica  
Prof. Fermín Capitán García



**SECyTA**

SOCIEDAD ESPAÑOLA DE  
CROMATOGRFÍA  
Y TÉCNICAS AFINES



**UNIVERSIDAD  
DE GRANADA**

**SEEM**



## Contents

<b>PROGRAM AT A GLANCE</b>	2
Bienvenida / Welcome	4
Committees	6
Previous meetings	7
<b>INVITED SPEAKERS</b>	8
<b>SCIENTIFIC AND SOCIAL PROGRAM</b>	9
<b>Tuesday, October 2<sup>nd</sup></b>	9
<b>Wednesday, October 3<sup>rd</sup></b>	13
<b>Thursday, October 4<sup>th</sup></b>	17
<b>POSTER SESSIONS</b>	18
<b>Tuesday, October 2<sup>nd</sup></b>	
Session 1: Clinical and pharmaceutical analysis	18
Environmental analysis	20
Session 2: Sample preparation	23
Fundamentals and Chemometrics	25
Industrial processes	25
<b>Wednesday, October 3<sup>rd</sup></b>	
Session 3: New developments in instrumentation	26
Omics techniques	26
Other applications	28
Session 4: Food analysis	29
<b>FULL PAPER PUBLICATION</b>	33
<b>GENERAL INFORMATION</b>	34

## PROGRAM AT A GLANCE

<b>TUESDAY, OCTOBER 2nd</b>		<b>WEDNESDAY, OCTOBER 3rd</b>		<b>THURSDAY, OCTOBER 4th</b>				
8:00 h	Registration							
8:45 h	Opening ceremony							
9:00 h	Plenary lecture 1 PL1-Robert Kennedy	Plenary lecture 3 PL3-Oliver J. Schmitz						
9:45 h	Oral session 1 (Clinical Analysis & Other applications)	Oral session 4 (New developments in instrumentation)	Poster session 3 (New developments in instrumentation & Omics techniques & Other applications)	Oral session 6 (Sample preparation & Chemometrics)	Plenary lecture 5 (SECyTA & GRASEQA) PL5-Soledad Muniategui Lorenzo			
10:05 h						O1	O10	O17
10:25 h						O2	O11	O18
10:45 h	Coffee break & exhibition	Coffee break & exhibition			Coffee break & exhibition			
11:45 h	Plenary lecture 2 PL2-Lourdes Ramos Rivero	Plenary lecture 4 PL4-Serge Rudaz			Oral session 7 (Food analysis & Chemometrics)			
12:25 h	Oral session 2 (Environmental analysis)	Oral session 5 (Omics techniques & Clinical analysis)	Young scientist sessions 3 (Omics techniques)	Oral session 6 (PL6-Antonio Segura Carretero)	Closing plenary lecture 6			
12:45 h						O4	Y9	O19
13:05 h						O5	Y10	O20
13:05 h	O6	Y11	Y11	O21				
13:25 h	Young scientists session 1 (Clinical analysis & Other applications)	Young scientist sessions 3 (Omics techniques)	Young scientist sessions 3 (Omics techniques)	Closing ceremony & Awards	Closing ceremony & Awards			
13:35 h						Y1	Y9	
13:45 h						Y2	Y10	
					Farewell cocktail			

13:55 h	Lunch		Lunch
15:00 h	Poster session 2 (Sample preparation & Fundamentals & Chemometrics & Industrial processes) & Exhibition	14:40 h-15:25 h Coffee seminar (LECO)	Poster session 4 (Food analysis) & Exhibition
			14:40 h-15:25 h Coffee seminar (Agilent)
16:00 h	Poster Flash session 1 P1	Poster Flash session 1 P1	Poster Flash session 2 P7
16:05 h	P2	P2	P8
16:10 h	P3	P3	P9
16:15 h	P4	P4	P10
16:20 h	P5	P5	P11
16:25 h	P6	P6	P12
16:30 h	Coffee break & Exhibition	Coffee break & Exhibition	Coffee break & Exhibition
			Young scientists session 4 (Omics Techniques & Food analysis)
17:00 h	Oral session 3 (Other applications) O7	Oral session 3 (Other applications) O7	17:00 h Y12
17:20 h	O8	O8	17:10 h Y13
17:40 h	O9	O9	17:20 h Y14
			17:30 h Y15
			17:40 h Y16
18:00 h	Young scientists session 2 (Environmental analysis & Sample preparation) Y4	Young scientists session 2 (Environmental analysis & Sample preparation) Y4	Tribute to Prof. Dr. Guillermo Ramis O16
18:10 h	Y5	Y5	
18:20 h	Y6	Y6	
18:30 h	Y7	Y7	
18:40 h	Y8	Y8	
19:00 h	Guided visit to the "Albayzin" and Cocktail in "Carmen de la Victoria"	Guided visit to the "Albayzin" and Cocktail in "Carmen de la Victoria"	SECyTA General Assembly Cocktail and Conference Dinner at "Carmen de los Chapiteles"
			18:45 h
			21:00 h

## BIENVENIDA

En nombre del Comité Organizador de la XVIII Reunión de la Sociedad Española de Cromatografía y Técnicas Afines (SECyTA 2018) queremos daros las gracias por vuestra participación y la bienvenida a la ciudad de Granada y a este foro científico que en esta ocasión tiene lugar en el Palacio de Congresos, en pleno centro de nuestra ciudad.

En esta edición, como en reuniones anteriores, se nos brinda la oportunidad de intercambiar conocimientos científicos y tecnológicos en el ámbito de las técnicas analíticas separativas, contemplando los principales avances en la disciplina, nuevas tendencias instrumentales y multitud de aplicaciones en diversos campos. Además, en colaboración con la Sociedad Española de Espectrometría de Masas (SEEM), como actividad previa a la reunión se ha organizado un curso sobre esta técnica, teniendo como sede la Facultad de Ciencias de la Universidad de Granada, colaboradora de la organización de SECyTA 2018.

El programa científico que desarrollaremos en estos días es denso y muy atractivo e incluirá 6 conferencias plenarios impartidas por científicos de prestigio internacional y 180 comunicaciones, estructuradas en 21 comunicaciones orales, 143 pósteres de los cuales se han seleccionado 12 para su presentación como “pósteres flash”. Estos trabajos se agrupan en sesiones temáticas dedicadas a análisis clínico y farmacéutico, medioambiental, alimentario, avances en preparación de muestra, fundamentos y quimiometría, nuevos desarrollos en instrumentación y técnicas ómicas, entre otras. Es uno de los mayores intereses de SECyTA promover la participación de los jóvenes investigadores en sus reuniones científicas, fomentando su espíritu crítico y animando a sentirse miembros activos de esta comunidad. Por ello el programa contempla dos sesiones en las que los jóvenes impartirán 16 comunicaciones orales y se han concedido becas de inscripción y ayudas de viaje para facilitar su asistencia. En esta ocasión la XVI Reunión del Grupo Andaluz de la Sociedad Española de Química Analítica (GRASEQA 2018), presidida por el Prof. Luis Fermín Capitán, se celebra coordinadamente con nuestro evento, incorporando una sesión común que permitirá el contacto entre los asistentes de ambas reuniones. Igualmente hemos preparado un programa social con el que disfrutaremos juntos de la ciudad, la tradición y la gastronomía de Granada, metrópolis vibrante, multicultural y por excelencia universitaria, destino acogedor con la Alhambra que domina desde su emplazamiento privilegiado.

Queremos desde aquí expresar nuestro agradecimiento a las empresas que han apoyado activamente la reunión de Granada, presentando sus avances en la exposición comercial, aportando sus productos, presentando comunicaciones y en los encuentros con los participantes, manteniendo un compromiso muy importante con nuestra sociedad.

En nombre del Comité Organizador quiero daros una calurosa bienvenida a Granada, agradeciendo sinceramente vuestra participación y deseando que estos días sean muy provechosos y agradables, personal y profesionalmente.

**Ana M. García-Campaña**  
**Presidenta del Comité Organizador**

## WELCOME

On behalf of the organizing Committee of the XVIII meeting of the Spanish Society of Chromatography and Related Techniques (SECyTA 2018), we want to thank you for your participation and welcome you to the city of Granada and to this scientific forum that this time takes place at the Conference Center, in the heart of our city.

This conference provides an interactive forum to share scientific and technological knowledge in the field of analytical separation techniques. Fundamental aspects and state of the art of chromatography, capillary electrophoresis and related techniques will be discussed. The scientific program includes 6 plenary lectures given by internationally renowned scientists and 180 communications, structured in 21 oral communications, 143 posters of which 12 have been selected for presentation as "flash posters". These works are grouped in thematic sessions devoted to clinical and pharmaceutical analysis, environmental, food, advances in sample preparation, fundamentals and chemometrics, new developments in instrumentation and omics techniques, among others. It is one of SECyTA's greatest interests to promote the participation of young researchers in their scientific meetings, fostering their scientific spirit and encouraging them to feel active members of this community. For this reason, the program includes two sessions in which young researchers will present 16 oral communications. Also, registration and travel grants have been offered to them.

On this occasion the XVI meeting of the Andalusian group of the Spanish Society of Analytical Chemistry (GRASEQA 2018), chaired by Prof. Luis Fermín Capitan, is held in coordination with our event, incorporating a common session, allowing the contact among the attendees of both meetings. We have also prepared a social program that will allow us to enjoy together the city, the tradition and the gastronomy. We hope that the participants enjoy Granada, a vibrant, multicultural metropolis with an intense university atmosphere. Besides, the visitor can find one of the most visited monuments of Spain, the Alhambra, a 14th century Muslim palace and an absolute must-see attraction.

We want from here to express our gratitude to the companies that have actively supported this meeting, presenting their advances in the commercial exhibition, offering their products, presenting communications and discussing with the participants, maintaining a very important commitment to our society.

On behalf of the organizing committee I want to give you a warm welcome to Granada, sincerely thanking you for your participation and wishing that these days are very profitable, from both sides personal and professionally.

**Ana M. García-Campaña**  
**Chair of the Organizing Committee**

## COMMITTEES INVOLVED IN THE ORGANIZATION OF SECyTA 2018

*Conference Chair:* Ana M. García Campaña

*Secretary:* Laura Gámiz Gracia, Francisco J. Lara Vargas, Monsalud del Olmo Iruela

### ORGANIZING COMMITTEE

Francisco J. Santos Vicente  
President of SECyTA  
Juan Vicente Sancho Llopis  
Secretary of SECyTA  
Jordi Díaz Ferrero  
Treasurer of SECyTA  
Encarnación Moyano Morcillo  
President of SEEM  
Luis Fermín Capitán Vallvey  
Conference chair of GRASEQA 2018  
David Arráez Román  
Universidad de Granada  
Alberto Zafra Gómez  
Universidad de Granada  
Natalia Arroyo Manzanares  
Universidad de Murcia  
Maykel Hernández Mesa  
LABERCA-ONIRIS, Nantes, Francia  
David Moreno González  
Charles University, Hradec Králové, R.Checa  
Carmen Tejada Casado  
Universidad de Granada  
Laura Carbonell Rozas  
Universidad de Granada

### Conference Technical Secretariat



Fernando Tapia  
ftapia@viajesgenil.es

Av. de la Constitución, 19. 18014 • Granada

### SCIENTIFIC COMMITTEE

Esteban Abad Holgado  
IDAEA-CSIC  
Alegría Carrasco Pancorbo  
Universidad de Granada  
Jordi Díaz Ferrero  
IQS-Universidad Ramón LLull  
Núria Fontanals Torroja  
Universidad Rovira i Virgili  
M<sup>a</sup> Teresa Galceran Huguet  
Universidad de Barcelona  
Laura Gámiz Gracia  
Universidad de Granada  
Ana M. García Campaña  
Universidad de Granada  
Belén Gómara Moreno  
IQOG-CSIC  
Joan Grimalt Obrador  
IDAEA-CSIC  
M<sup>a</sup> José González Carlos  
IQOG-CSIC  
José A. González Pérez  
IRNAS-CSIC  
Elena Ibáñez Ezequiel  
CIAL-CSIC  
Begoña Jiménez Luque  
IQOG-CSIC  
Francisco J. Lara Vargas  
Universidad de Granada  
Marta Lores Aguiñ  
Universidad de Santiago de Compostela  
Francisco Javier Moreno Andújar  
CIAL-CSIC  
Encarnación Moyano Morcillo  
Universidad de Barcelona  
Monsalud del Olmo Iruela  
Universidad de Granada  
Francisco Javier Santos Vicente  
Universidad de Barcelona  
Juan Vicente Sancho Llopis  
Universidad Jaume I, Castellón



## PREVIOUS MEETINGS

President/s	Location	Year
Jordi Mañes	Valencia	2001
Manuel V. Dabrio	Barcelona*	2002
Amadeo R. Fernández-Alba	Aguadulce (Almería)	2003
Coral Barbas	Boadilla del Monte (Madrid)	2004
Juan Cacho	Barcelona*	2005
Ana Gago	Vigo (Pontevedra)	2006
Ana M. García Campaña	Granada	2007
Joan O. Grimalt	Barcelona*	2008
Carmen Dorronsoro	San Sebastián	2009
Yolanda Picó	Valencia	2010
Elena Domínguez	Barcelona*	2011
Rosa María Marcé	Tarragona	2012
Miguel Ángel Rodríguez y Alejandro Cifuentes	Puerto de la Cruz (Santa Cruz de Tenerife)	2013
Maria José González	Barcelona*	2014
Juan V. Sancho y Joaquín Beltran	Castellón de la Plana	2015
José A. González Pérez	Sevilla	2016
Francisco Javier Santos Vicente	Barcelona*	2017

\*Held within the corresponding “Instrumental Analysis Conferences (IAIs)”

## INVITED SPEAKERS



**Prof. Dr. Robert Kennedy**

University of Michigan (USA)

<http://kennedygroup.lsa.umich.edu>

**“Pushing the limits of separations: high speed and high pressure”**



**Prof. Dr. Soledad Muniategui Lorenzo**

Universidad de A Coruña (UDC) – Instituto Universitario de Medio Ambiente (Spain)

<http://investigacion.udc.es/es/Research/Details/G000343>

**“Current Trends in Sample Treatment for Environmental Analysis”**



**Prof. Dr. Lourdes Ramos**

Instituto de Química Orgánica General – CSIC (Spain)

<http://www.iqog.csic.es/personal-www/lourdesramos>

**“Comprehensive two-dimensional gas chromatography-mass spectrometry of complex mixtures: non-orientated studies”**



**Prof. Dr. Serge Rudaz**

School of pharmaceutical sciences University of Geneva (Switzerland)

<https://epgl.unige.ch/labs/fanal/analyses-biomedicales>

**New insights into separation techniques for endogenous metabolomic profiling**



**Prof. Dr. Oliver J. Schmitz**

University of Duisburg-Essen (Germany)

<https://www.uni-due.de/aac>

**“Thousands of separated signals in a four-dimensional separation approach: How can we manage the data?”**



**Prof. Dr. Antonio Segura Carretero**

Universidad de Granada (Spain)

<http://www.ugr.es/~agr274/>

**“Advanced analytical strategies in the field of bioactive ingredients”**

## SCIENTIFIC AND SOCIAL PROGRAM

### TUESDAY, OCTOBER 2nd

8:00 h Registration

8:45 h Opening Ceremony

#### Opening Plenary Lecture

Session Chairs: Ana M. García Campaña, University of Granada  
Francisco Javier Santos Vicente, University of Barcelona

9:00 h **PL-1** "Pushing the limits of separations: high speed and high pressure"

Robert Kennedy

*Dept. Chemistry, University of Michigan, Ann Arbor, MI, USA*

#### Oral Session 1 (Clinical and pharmaceutical analysis & Other applications)

Session Chairs: Ana M. García Campaña, University of Granada  
Francisco Javier Santos Vicente, University of Barcelona

9:45 h **O1** "Potential of ion mobility-mass spectrometry for both targeted and untargeted characterisation of phase II steroid metabolites in urine"

M. Hernández-Mesa, F. Monteau, B. Le Bizec, G. Dervilly-Pinel

*Laboratoire d'Etude des Résidus et Contaminants dans les Aliments (LABERCA), Oniris, INRA, Nantes, France*

10:05 h **O2** "LC-MS/MS quantitation of steroid sulfate metabolites to evaluate its potential as markers of testosterone administration"

A. Esquivel<sup>(1,2)</sup>, É. Alechaga<sup>(1)</sup>, N. Monfort<sup>(1)</sup>, R. Ventura<sup>(1,2)</sup>

*<sup>(1)</sup>Catalonian Antidoping Laboratory, Fundació IMIM, Barcelona, Spain; <sup>(2)</sup>Dept. Experimental and Health Sciences, University Pompeu Fabra, Barcelona, Spain*

10:25 h **O3** "Challenges of miniaturizing triple-quadrupole mass spectrometers while maintaining high performance"

P. Jeanville, S. Tichy, L. Pollum, H. Wang, P. Batoon, J. Bertch, K. Newton

*Agilent Technologies, Santa Clara, CA, USA*

10:45 h **Coffee break & exhibition**

**Poster Session 1 (Clinical and pharmaceutical analysis & Environmental analysis)**

#### Plenary Lecture

Session Chairs: Esteban Abad Holgado, IDAEA-CSIC, Barcelona  
M<sup>º</sup> José González Carlos, IQOG-CSIC, Madrid

11:45 h **PL-2** "Analysis of complex mixtures by comprehensive two-dimensional gas chromatography-mass spectrometry: non-orientated studies"

Lourdes Ramos Rivero

*Dept. Instrumental Analysis and Environmental Chemistry, IQOG-CISC, Madrid, Spain*

#### Oral Session 2 (Environmental analysis)

Session Chairs: Esteban Abad Holgado, IDAEA-CSIC, Barcelona  
M<sup>º</sup> José González Carlos, IQOG-CSIC, Madrid

12:25 h **O4** "Target and suspect analytical strategies for the evaluation of contaminants of emerging concern in agricultural soils and crops irrigated with reclaimed wastewater: two years monitoring"

A. Agüera<sup>(1)</sup>, A.B. Martínez-Piernas<sup>(1)</sup>, P. Plaza-Bolaños<sup>(1)</sup>, P. Fernández-Ibáñez<sup>(2)</sup>

*<sup>(1)</sup>CIESOL, Joint Centre University of Almeria-CIEMAT, Almeria, Spain; <sup>(2)</sup> University of Ulster, Newtownabbey, Northern Ireland, United Kingdom*

12:45 h **O5** "Simultaneous analysis of glyphosate and its derivative, (aminomethyl)phosphonic acid, in human urine by GC-MS-MS at low ppb levels"

E. Junqué, P. Fernández, J.O. Grimalt

*Institute of Environmental Assessment and Water Research (IDAEA-CSIC), Barcelona, Spain*

**13:05 h O6** “Strategies for target and suspect screening of pharmaceuticals in wastewater effluents using SWATH approach with x500R QTOF”

N. Montemurro<sup>(1)</sup>, D. Barcelo<sup>(1,2)</sup>, S. Perez<sup>(1)</sup>

<sup>(1)</sup>Dept. of Environmental Chemistry, Institute for Environmental Assessment and Water Research (IDAEA-CSIC), Barcelona, Spain; <sup>(2)</sup>Catalan Institute for Water Research (ICRA), Parc Científic i Tecnològic, University of Girona, Girona, Spain

### Young Scientists Session 1 (Clinical and pharmaceutical analysis & Other applications)

Session Chairs: Jordi Díaz Ferrero, IQS–University Ramon LLull, Barcelona

Núria Fontanals Torroja, University Rovira i Virgili, Tarragona

**13:25 h Y1** “Rapid identification of synthetic cathinones in seized products taking profit of the full capabilities of triple quadrupole analyser”

D. Fabregat-Safont, J. Vicente Sancho, F. Hernández, M. Ibáñez

Research Institute for Pesticides and Water, University Jaume I, Castellón, Spain

**13:35 h Y2** “New analytical proposal to monitor volatile organic metabolites as biomarkers of bacterial spoilage in cosmetics”

M. Celeiro<sup>(1)</sup>, E. Varela<sup>(2)</sup>, M. Penedo<sup>(2)</sup>, R. Rodríguez<sup>(2)</sup>, M. Lores<sup>(1)</sup>

<sup>(1)</sup> Dept. Analytical Chemistry, Nutrition and Food Science, Universidade de Santiago de Compostela, Santiago de Compostela, Spain; <sup>(2)</sup> BIOMIG, Hospital Polusa, Lugo, Spain

**13:45 h Y3** “Combined use of  $\gamma$ -cyclodextrin and chiral ionic liquids for the enantiomeric separation of homocysteine by capillary electrophoresis”

M. Greño<sup>(1)</sup>, M.L. Marina<sup>(1,2)</sup>, M. Castro-Puyana<sup>(1,2)</sup>

<sup>(1)</sup> Dept. Analytical Chemistry, Physical Chemistry and Chemical Engineering, University of Alcalá, Alcalá de Henares, Madrid, Spain; <sup>(2)</sup> Institute of Chemical Research “Andrés M. del Río”, University of Alcalá, Alcalá de Henares, Madrid, Spain

**13:55 h Lunch**

**14:40 h- 15:25 h**

**15:00 h Poster Session 2 (Sample preparation & Fundamentals and Chemometrics & Industrial processes)**

**Coffee seminar (LECO)**

“Benefits of GCxGC-TOMS in Food Safety”

### Poster Flash Session 1

Session Chairs: Belén Gómara Moreno, IQOG–CSIC, Madrid

Alberto Zafra Gómez, University of Granada

**16:00 h P-CPA-01** “Creation of a database of human and veterinary drugs containing their collision cross section as novel characterization parameter”

C. Tejada-Casado<sup>(1)</sup>, M. Hernández-Mesa<sup>(2)</sup>, F. Monteau<sup>(2)</sup>, F.J. Lara<sup>(1)</sup>, M. del Olmo-Iruela<sup>(1)</sup>, A.M. García-Campaña<sup>(1)</sup>, B. Le Bizec<sup>(2)</sup>, G. Dervilly-Pinel<sup>(2)</sup>

<sup>(1)</sup>Dept. Analytical Chemistry, University of Granada, Granada, Spain; <sup>(2)</sup>LABERCA, Oniris, INRA, Nantes, France

**16:05 h P-CPA-10** “Bioaccumulation of polycyclic aromatic hydrocarbons in humans. Differentiation between organs using multivariate discriminant analysis”

M. Pastor-Belda<sup>(1)</sup>, P. Viñas<sup>(1)</sup>, N. Campillo<sup>(1)</sup>, N. Arroyo<sup>(1)</sup>, M.D. Pérez-Cárceles<sup>(2)</sup>, C. Torres Sánchez<sup>(2)</sup>, M. Hernández-Córdoba<sup>(1)</sup>

<sup>(1)</sup>Dept. Analytical Chemistry, University of Murcia, Murcia, Spain, <sup>(2)</sup>Dept. Legal and Forensic Medicine, Biomedical Research Institute (IMIB-Arrixaca), University of Murcia, Murcia, Spain

**16:10 h P-CPA-17** “Determination of synthetic cathinones in urine by solid-phase extraction followed by liquid chromatography-high resolution mass spectrometry”

S. Pascual, N. Fontanals, F. Borrull, C. Aguilar, M. Calull

Dept. Analytical Chemistry and Organic Chemistry, University Rovira i Virgili, Tarragona, Spain

- 16:15 h P-CPA-18** *“Bioassay-guided isolation of anti-obesity polyphenols from Lippia citriodora”*  
M.L. Cádiz Gurrea<sup>(1,2)</sup>, M. Olivares-Vicente<sup>(3)</sup>, M. Herranz-López<sup>(3)</sup>, D. Arráez-Román<sup>(1,2)</sup>, V. Micol<sup>(3,4)</sup>, A. Segura-Carretero<sup>(1,2)</sup>  
<sup>(1)</sup>Dept. Analytical Chemistry, University of Granada, Granada, Spain; <sup>(2)</sup>Research and Development of Functional Food Centre (CIDAF), Granada, Spain; <sup>(3)</sup>Institute of Molecular and Cellular Biology (IBMC), University Miguel Hernández, Elche, Alicante, Spain; <sup>(4)</sup>Institute of Health Carlos III (ISCIII), Palma de Mallorca, Spain
- 16:20 h P-CPA-19** *“Analytical challenges associated to the control of fashion cosmetics safety”*  
L. Rubio, E. Guerra, C. García-Jares, M. Lores  
 Dept. Analytical Chemistry, Nutrition and Food Science, University Santiago de Compostela, Santiago de Compostela, Spain
- 16:25 h P-EA-08** *“IDA and SWATH as non-target acquisition techniques to identify pharmaceuticals in complex environmental matrices”*  
R. Alvarez-Ruiz, Y. Picó  
 Food and Environmental Safety Research Group (SAMA-UV), University of Valencia, Valencia, Spain

**16:30 h Coffee break & exhibition**

**Oral Session 3 (Other applications)**

Session Chairs: Jordi Díaz Ferrero, IQS–University Ramó n Lull, Barcelona  
 Laura Gámiz Gracia, University of Granada

- 17:00 h O7** *“Enantioselective determination of cathinones in urine by high pressure in-line SPE-CE”*  
A. Pérez, F. Borrull, M. Calull, C. Aguilar  
 Dept. Analytical and Organic Chemistry, University Rovira i Virgili, Tarragona, Spain
- 17:20 h O8** *“Identification and quantification of volatile NIAS (non intentionally added substances) coming from a starch-base biopolymer intended for food contact by APGC-MS/Q-TOF and GC-MS”*  
J. Osorio, A. López, M. Aznar, C. Nerín  
 Dept. Analytical Chemistry, EINA, University of Zaragoza, Zaragoza, Spain
- 17:40 h O9** *“Analysis of allergens in fragrance materials using comprehensive gas chromatography in combination with high resolution time-of-flight mass spectrometry”*  
J. Lluch  
 LECO Sep Science Sales Engineer, Madrid

**Young Scientists Session 2 (Environmental analysis & Sample preparation)**

Session Chairs: Begoña Jiménez Luque, IQOG–CSIC, Madrid  
 Monsalud del Olmo Iruela, University of Granada

- 18:00 h Y4** *“Flow approaches: automation of sampling and sample preparation as a front end to HPLC”*  
D.J. Cocovi-Solberg, M. Miró  
 Dept. Chemistry, University of the Balearic Islands, Palma de Mallorca, Spain
- 18:10 h Y5** *“Bioaccumulation of perfluoroalkyl compounds in marine echinoderms: results of laboratory-scale experiments with Holothuria tubulosa”*  
 J. Martín<sup>(1)</sup>, M.T. García Corcoles<sup>(2)</sup>, F. Hidalgo<sup>(3)</sup>, E. Alonso<sup>(1)</sup>, J.L. Vilchez<sup>(2)</sup>, A. Zafra-Gómez<sup>(2)</sup>  
<sup>(1)</sup>Dept. Analytical Chemistry, University of Seville, Seville, Spain; <sup>(2)</sup> Dept. Analytical Chemistry, University of Granada, Granada, Spain; <sup>(3)</sup>Dept. Zoology, University of Granada, Granada, Spain
- 18:20 h Y6** *“Analytical method development for the determination of hydrophilic marine biotoxins in seawater”*  
C. Bosch-Orea<sup>(1)</sup>, J. Sanchís<sup>(1)</sup>, D. Barceló<sup>(1,2)</sup>, M. Farré<sup>(1)</sup>  
<sup>(1)</sup> Dept. Environmental Chemistry, Institute of Environmental Assessment and Water Research (IDAEA-CSIC), Barcelona, Spain; <sup>(2)</sup>Catalan Institute for Water Research (ICRA), Girona, Spain

**18:30 h** **Y7** "A fully automated approach for the analysis of 37 psychoactive substances in wastewater based on on-line SPE-LC-MS/MS"

E. López-García<sup>(1)</sup>, N. Mastroianni<sup>(1)</sup>, C. Postigo<sup>(1)</sup>, D. Barceló<sup>(1,2)</sup>, M. López de Alda<sup>(1)</sup>

<sup>(1)</sup> Dept. Environmental Chemistry, Institute of Environmental Assessment and Water Research (IDAEA-CSIC), Barcelona, Spain; <sup>(2)</sup> Catalan Institute for Water Research (ICRA), Girona, Spain

**18:40 h** **Y8** "Layer-by-layer deposition versus electrodeposition to prepare silver-based coatings onto braid solid-phase microextraction fibers for the determination of polycyclic aromatic hydrocarbons in waters"

A. Gutiérrez-Serpa, D. Schorn-García, V. Pino, F. Jiménez-Moreno, A.I. Jiménez-Abizanda

Dept. Chemistry, University of La Laguna, La Laguna, Spain

**19:00 h** Buses from the Congress Center for the Guided visit to the "Albayzin" neighbourhood and Cocktail in "Carmen de la Victoria"

## WEDNESDAY, OCTOBER 3rd

### Plenary Lecture

Session Chairs: Joan O. Grimalt Obrador, IDAEA-CSIC, Barcelona  
Encarnación Moyano Morcillo, University of Barcelona

**9:00 h** **PL-3** *"Thousands of separated signals in a four-dimensional separation approach: How can we manage the data?"*  
Oliver J. Schmitz  
Dept. Applied Analytical Chemistry, Faculty of Chemistry, University of Duisburg-Essen, Germany

### Oral Session 4 (New developments in instrumentation)

Session Chairs: Joan O. Grimalt Obrador, IDAEA-CSIC, Barcelona  
Encarnación Moyano Morcillo, University of Barcelona

**9:45 h** **O10** *"Identification and quantification of PCDD/Fs, PCBs and PBDEs in environmental samples using gas chromatography coupled to Orbitrap mass spectrometry"*  
J. Parera<sup>(1)</sup>, M.G. Martrat<sup>(1)</sup>, M.A. Adrados<sup>(1)</sup>, J. Sauló<sup>(1)</sup>, M. Ábalos<sup>(1)</sup>, C.I. Cojocariu<sup>(2)</sup>, J. Cooper<sup>(2)</sup>, R. Law<sup>(2)</sup>, E. Abad<sup>(1)</sup>  
<sup>(1)</sup>Laboratory of Dioxins, Environmental Chemistry Department, IDAEA-CSIC, Barcelona, Spain; <sup>(2)</sup>Thermo Fisher Scientific, Runcorn, Cheshire, United Kingdom

**10:05 h** **O11** *"Potential of lab-in-syringe technique for automated sample pretreatment coupled online to GC-FID"*  
B. Horstkotte, P. Solich  
Dept. Analytical Chemistry, Charles University, Hradec Králové, Czech Republic

**10:25 h** **O12** *"Gas chromatography-anion attachment atmospheric pressure photoionization-high resolution mass spectrometry for the determination of short-chain chlorinated paraffins"*  
J.F. Ayala-Cabrera, M.T. Galceran, F.J. Santos, E. Moyano  
Dept. Chemical Engineering and Analytical Chemistry, University of Barcelona, Barcelona, Spain

**10:45** **Coffee break & exhibition**

**Poster session 3 (New developments in instrumentation & Omics techniques & Other applications)**

### Plenary Lecture

Session Chairs: Ana M. García Campaña, University of Granada  
Juan Vicente Sancho Llopis, University Jaume I, Castellón

**11:45 h** **PL-4** *"New insights into separation techniques for endogenous metabolomic profiling"*  
Serge Rudaz  
School of Pharmaceutical Sciences, University of Geneva, Switzerland

### Oral Session 5 (Omics techniques & Clinical and Pharmaceutical analysis)

Session Chairs: Ana M. García Campaña, University of Granada  
Juan Vicente Sancho Llopis, University Jaume I, Castellón

**12:25 h** **O13** *"A faster way to electrophoretic mobility: how to enhance the robustness of your CE-MS data with romance"*  
V. González-Ruiz<sup>(1,2)</sup>, S. Codesido<sup>(1)</sup>, N. Drouin<sup>(1)</sup>, Y. Gagnebin<sup>(1)</sup>, J. Schappler<sup>(1)</sup>, S. Rudaz<sup>(1,2)</sup>  
<sup>(1)</sup>School of Pharmaceutical Sciences, Universities of Geneva and Lausanne, Switzerland; <sup>(2)</sup>Swiss Centre for Applied Human Toxicology, Switzerland

**12:45 h** **O14** *"On-line solid-phase extraction capillary electrophoresis-mass spectrometry for the analysis of circulating microRNAs and their post-transcriptional modifications in cancer serum"*  
F. Benavente<sup>(1)</sup>, R. Pero-Gascon<sup>(1)</sup>, M.V. Berezovski<sup>(2)</sup>, J. Barbosa<sup>(1)</sup>, V. Sanz-Nebot<sup>(1)</sup>  
<sup>(1)</sup>Dept. Chemical Engineering and Analytical Chemistry, Institute for Research on Nutrition and Food Safety (INSA-UB), University of Barcelona, Barcelona, Spain; <sup>(2)</sup>Dept. Chemistry and Biomolecular Sciences, University of Ottawa, Ottawa, Canada

**13:05 h O15** "A UNIFI-ed solution for high-resolution drug screening"

P. de la Iglesia

*Waters Cromatografía, S.A. Cerdanyola del Vallès, Barcelona, Spain*

### Young Scientist Sessions 3 (Omics techniques)

Session Chairs: Juan Vicente Sancho Llopis, University Jaume I, Castellón

Francisco Javier Moreno Andújar, CIAL-CSIC, Madrid

**13:25 h Y9** "CE-MS for metabolome fingerprinting of *Leishmania amazonensis* infected murine macrophages: deciphering L-arginine metabolism"

M.C. Mamani Huanca<sup>(1)</sup>, S. Marcia Muxel<sup>(1,2)</sup>, J. Ide Aoki<sup>(2)</sup>, R. Andrade Zampieri<sup>(2)</sup>, L.M. Floeter-Winter<sup>(2)</sup>, C. Barbas<sup>(1)</sup>, A. López-Gonzalvez<sup>(1)</sup>

<sup>(1)</sup> Centre of Metabolomics and Bioanalysis (CEMBIO), University San Pablo-CEU; <sup>(2)</sup> Dept. Fisiology, University of São Paulo, São Paulo, SP, Brazil

**13:35 h Y10** "Study of diabetic nephropathy in HK-2 cells using a metabolomic platform based on liquid chromatography-mass spectrometry"

S. Bernardo-Bermejo<sup>(1)</sup>, E. Sánchez-López<sup>(1)</sup>, M. Castro-Puyana<sup>(1,2)</sup>, S. Benito<sup>(3)</sup>, F.J. Lucio-Cazaña<sup>(3)</sup>, M.L. Marina<sup>(1,2)</sup>

<sup>(1)</sup> Dept. Analytical Chemistry, Physical Chemistry and Chemical Engineering, University of Alcalá, Alcalá de Henares (Madrid), Spain; <sup>(2)</sup> Institute of Chemical Research "Andrés M. del Río" (IQAR), University of Alcalá, Alcalá de Henares, Madrid, Spain; <sup>(3)</sup> Dept. Systems Biology, University of Alcalá, Alcalá de Henares, Madrid, Spain

**13:45 h Y11** "Improving transferrin purification for the detection of aberrant glycosylation in inflammatory diseases"

M. Mancera-Arteu<sup>(1)</sup>, E. Giménez<sup>(1)</sup>, J. Sancho<sup>(2)</sup>, J. Barbosa<sup>(1)</sup>, V. Sanz-Nebot<sup>(1)</sup>

<sup>(1)</sup> Dept. Chemical Engineering and Analytical Chemistry, University of Barcelona, Barcelona, Spain; <sup>(2)</sup> Institute of Parasitology and Biomedicine "López-Neyra" (IPBLN), CSIC, Armilla, Granada, Spain

**13:55 h Lunch**

**14:40 h-15:25 h**

**15:00 h Poster Session 4 (Food analysis) & Exhibition**

**Coffee seminar (AGILENT)**

"Estrategias innovadoras para la mejora de su análisis por MS"

### Poster Flash Session 2

Session Chairs: David Arráez Román, University of Granada

José A. González Pérez, IRNAS-CSIC, Sevilla

**16:00 h P-FA-13** "Use of combined analytical techniques to prevent labelling fraud of Iberian ham"

A. Martín-Gómez<sup>(1)</sup>, N. Arroyo-Manzanares<sup>(2)</sup>, A.I. López-Lorente<sup>(1)</sup>, V. Rodríguez-Estévez<sup>(3)</sup>, L. Arce<sup>(1)</sup>

<sup>(1)</sup> Dept. Analytical Chemistry, Institute of Fine Chemistry and Nanochemistry, Córdoba, Spain;

<sup>(2)</sup> Dept. Analytical Chemistry, University of Murcia, Murcia, Spain; <sup>(3)</sup> Dept. Animal Production, University of Córdoba, Córdoba, Spain

**16:05 h P-FA-26** "Headspace solid-phase microextraction gas chromatography-mass spectrometry for the determination of semi-volatile fluorinated compounds in microwave popcorn bags"

A. Contreras-Llin, J.F. Ayala-Cabrera, E. Moyano, F.J. Santos

Dept. Chemical Engineering and Analytical Chemistry, University of Barcelona, Barcelona, Spain

**16:10 h P-FA-28** "Combined (d)SPE-QuEChERS extraction of mycotoxins in unifeed and analysis by HPLC-HRMS"

R. Facorro<sup>(1,2)</sup>, M. Llompart<sup>(2)</sup>, T. Dagnac<sup>(1)</sup>

<sup>(1)</sup> Galician Agency for Food Quality - Agronomic Research Center (AGACAL-CIAM), A Coruña, Spain; <sup>(2)</sup> Laboratory of Research and Development of Analytical Solutions (LIDSA), University of Santiago de Compostela, Santiago de Compostela, Spain



- 16:15 h P-FA-37** “A combined LC-UV-MS and GC-MS approach for authentication of artichoke (*Cynara scolymus*) supplements for overweight control”  
A. Mena, S. Rodríguez, A.I. Ruiz-Matute, A.C. Soria, M.L. Sanz  
*Institute of General Organic Chemistry (IQOG-CSIC), Madrid, Spain*
- 16:20 h P-OA-01** “Production and comprehensive characterization by LC×LC-PDA-MS of aqueous phases from pyrolysis of different biomasses”  
E. Lazzari<sup>(1)</sup>, E. Bastos Caramão<sup>(1,2)</sup>, M. Herrero<sup>(3)</sup>  
<sup>(1)</sup>UFRGS, Institute of Chemistry, Porto Alegre, RS, Brazil; <sup>(2)</sup>UNIT, Programa de Pós-Graduação em Biotecnologia Industrial (PBI), Aracaju, SE, Brazil; <sup>(3)</sup>UNIT, Programa de Pós-Graduação em Biotecnologia Industrial (PBI), Aracaju, SE, Brazil; <sup>(3)</sup>Dept. Bioactivity and Food Analysis, Institute of Food Science Research (CIAL,CSIC-UAM), Madrid, Spain
- 16:25 h P-SP-09** “Comparative study of three extraction protocols for *Viscum album L. proteins*”  
M. Vergara-Barberán<sup>(1)</sup>, M.J. Lerma-García<sup>(1)</sup>, M. Nicoletti<sup>(2)</sup>, E.F. Simó-Alfonso<sup>(1)</sup>, J.M. Herrero-Martínez<sup>(1)</sup>, E. Fasoli<sup>(2)</sup>, P. Giorgio Righetti<sup>(2)</sup>  
<sup>(1)</sup>Dept. Analytical Chemistry, University of Valencia, Burjassot, Valencia, Spain; <sup>(2)</sup>Dept. Chemistry, Materials and Chemical Engineering “Giulio Natta”, Politecnico di Milano, Milan, Italy

**16:30 h Coffee break & exhibition**

**Young Scientists Session 4 (Omics techniques & Food analysis)**

Session Chairs: Alegría Carrasco Pancorbo, University of Granada

Francisco Javier Moreno Andújar, CIAL–CSIC, Madrid

- 17:00 h Y12** “UHPLC-IMS-QTOF MS metabolomics for biomarker discovery of orange dietary intake”  
L. Lacalle<sup>(1)</sup>, T. Portolés<sup>(1)</sup>, J.V. Sancho<sup>(1)</sup>, F.J. López<sup>(1)</sup>, C. Ortega<sup>(2,3)</sup>, E.M. Assensio<sup>(2,3)</sup>, O. Coltell<sup>(3,4)</sup>, D. Corella<sup>(2,3)</sup>  
<sup>(1)</sup>Research Institute for Pesticides and Water (IUPA), University Jaume I, Castellón, Spain; <sup>(2)</sup>Dept. Preventive Medicine, University of Valencia, Valencia, Spain; <sup>(3)</sup> CIBER OBN, Institute of Health Carlos III (ISCIII), Madrid, Spain; <sup>(4)</sup> Dept. Computer Languages and Systems, University Jaume I, Castellón, Spain
- 17:10 h Y13** “Development of a new methodology for the analysis of bioactive oligosaccharides by comprehensive two-dimensional hydrophilic interaction×reversed phase liquid chromatography”  
A. Martín<sup>(1)</sup>, A.I. Ruiz-Matute<sup>(1)</sup>, M.L. Sanz<sup>(1)</sup>, F.J. Moreno<sup>(2)</sup>, M. Herrero<sup>(2)</sup>  
<sup>(1)</sup>Institute of General Organic Chemistry (IQOG-CSIC), Madrid, Spain; <sup>(2)</sup> Institute of Food Science Research (CIAL), CSIC-UAM, Madrid, Spain
- 17:20 h Y14** “Isolation and characterization of A- and B- type of cocoa proanthocyanidins by HPLC-QTOF-MS/MS”  
S. Toro-Uribe<sup>(1)</sup>, G. Álvarez-Rivera<sup>(2)</sup>, J.A. Perea Villami<sup>(3)</sup>, L. López-Giraldo<sup>(1)</sup>, E. Ibáñez<sup>(2)</sup>, M. Herrero<sup>(2)</sup>  
<sup>(1)</sup>School of Chemical Engineering, Food Science & Technology Research Center (CICTA), Universidad Industrial de Santander, Bucaramanga, Colombia; <sup>(2)</sup> Foodomics Laboratory, Institute of Food Science Research (CIAL, CSIC), Madrid, Spain; <sup>(3)</sup> School of Chemistry, Food Science & Technology Research Center (CICTA), Universidad Industrial de Santander, Bucaramanga, Colombia
- 17:30 h Y15** “Determination of pigments in edible oils by LC-MS: characterization and fraud detection”  
A. Arrizabalaga-Larrañaga<sup>(1)</sup>, P. Rodríguez<sup>(2)</sup>, M. Medina<sup>(2)</sup>, F.J. Santos<sup>(1)</sup>, E. Moyano<sup>(1)</sup>  
<sup>(1)</sup>Dept. Chemical Engineering and Analytical Chemistry, University of Barcelona, Barcelona, Spain; <sup>(2)</sup>Agri-Food Laboratory, Government of Catalonia, Cabrils, Spain

- 17:40 h** **Y16** *“Analysis of 52 pesticides in fresh fish muscle by dispersive solid phase extraction with QuEChERS followed by UPLC-MS/MS analysis”*  
M. Vittoria Barbieri<sup>(1)</sup>, C. Postigo<sup>(1)</sup>, N. Guillem-Argiles<sup>(1)</sup>, L. Simon Monllor-Alcaraz<sup>(1)</sup>, J. Isabelle Simionato<sup>(2)</sup>, E. Stella<sup>(3)</sup>, D. Barceló<sup>(1,4)</sup>, M. López de Alda<sup>(1)</sup>  
<sup>(1)</sup>Dept. Environmental Chemistry, IDAEA-CSIC, Barcelona, Spain; <sup>(2)</sup> Federal University of Technology, Paraná, Brazil; <sup>(3)</sup> Dept. Civil, Environmental and Mechanical Engineering, University of Trento, Trento, Italy; <sup>(4)</sup>Catalan Institute for Water Research (ICRA), Science and Technology Park, University of Girona, Girona, Spain

**Tribute to Prof. Dr. Guillermo Ramis Ramos**

Session Chairs: Juan Vicente Sancho Llopis, University Jaume I, Castellón  
Francisco Javier Santos Vicente – University of Barcelona

- 17:50 h** **Presentation of the session.** Francisco Javier Santos, President of SECyTA  
**In memory of Dr. Guillermo Ramis.** Maria Celia García Álvarez-Coque  
**O16** *“Single-pump heart-cutting two-dimensional liquid chromatography applied to the determination of fatty alcohol ethoxylates”*  
E.F. Simó-Alfonso, A. Escrig-Domenech, G. Ramis-Ramos  
Dept. of Analytical Chemistry, University of Valencia, Valencia, Spain

**18:45 h** **SECyTA General Assembly**

**21:00 h** **Cocktail and Conference Dinner at “Carmen de los Chapiteles”**

## THURSDAY, OCTOBER 4th

### Plenary Lecture (SECyTA & GRASEQA)

Session Chairs: Luis Fermín Capitán Vallvey, University of Granada  
Ana M. García Campaña, University of Granada

- 9:45 h** **PL-5** *"Current trends in sample treatment for environmental analysis"*  
Soledad Muniategui Lorenzo  
*University Institute in Environment, University of A Coruña, A Coruña, Spain*

### Oral Session 6 (Sample preparation & Fundamentals and Chemometrics)

Session Chairs: Belén Gómara Moreno, IQOG-CSIC, Madrid  
Núria Fontanals Torroja, University Rovira i Virgili, Tarragona

- 10:30 h** **O17** *"Carbosilane dendrimers and dendrons in protein sample preparation"*  
M.C. García<sup>(1)</sup>, R. Vásquez-Villanueva<sup>(1)</sup>, E. González-García<sup>(1)</sup>, E. Hernández-Coroto<sup>(1)</sup>, F.J. de la Mata<sup>(2)</sup>, M.L. Marina<sup>(1)</sup>  
<sup>(1)</sup> Dept. Analytical Chemistry, Physical Chemistry and Chemical Engineering, University of Alcalá, Alcalá de Henares, Madrid, Spain; <sup>(2)</sup> Dept. Organic Chemistry and Inorganic Chemistry, University of Alcalá, Alcalá de Henares, Madrid, Spain

- 10:50 h** **O18** *"UHPLC-ESI-MS/MS and UHPLC-ESI-HRMS in the classification and authentication of Spanish paprika with protected designation of origin by chemometrics"*  
S. Barbosa<sup>(1)</sup>, G. Campmajó<sup>(1)</sup>, O. Núñez<sup>(1,2,3)</sup>, J. Saurina<sup>(1,2)</sup>, L. Puignou<sup>(1,2)</sup>  
<sup>(1)</sup>Dept. Chemical Engineering and Analytical Chemistry, University of Barcelona, Barcelona, Spain; <sup>(2)</sup> Research Institute in Food Nutrition and Food Safety, University of Barcelona, Santa Coloma de Gramanet, Barcelona, Spain; <sup>(3)</sup> Serra Hunter Fellow, Generalitat de Catalunya, Barcelona, Spain

### 11:10 h Coffee break & exhibition

### Oral Session 7 (Food analysis & Fundamentals and Chemometrics)

Session Chairs: M<sup>a</sup> Teresa Galceran Huguet, University of Barcelona  
Marta Lores, University of Santiago de Compostela

- 11:40 h** **O19** *"Determination of the content of calystegines in tomato-based products applying LC-HRMS"*  
A. Romera-Torres, R. Romero-González, F.J. Arrebola Liébanas, J.L. Martínez Vidal, A. Garrido Frenich  
*Dept. Chemistry and Physics, Analytical Chemistry Area, University of Almería, Almería, Spain*
- 12:00 h** **O20** *"Differentiation of olive oils from the same botanical variety (Arbequina) according to their geographic origin using chromatographic techniques and chemometric tools"*  
D.N. Vera<sup>(1)</sup>, L. Ruisánchez<sup>(1)</sup>, M.P. Callao<sup>(1)</sup>, A.M. Jiménez-Carvelo<sup>(2)</sup>, L. Cuadros-Rodríguez<sup>(2)</sup>  
<sup>(1)</sup> Dept. Analytical and Organic Chemistry, Rovira i Virgili University, Tarragona, Spain; <sup>(2)</sup> Dept. Analytical Chemistry, University of Granada, Granada, Spain
- 12:20 h** **O21** *"Detection and quantification of casein and ovalbumin in Chilean wines with UHPLC/ESI-QQQ-MS/MS and UHPLC-ESI/QTOF-MS/MS"*  
J. Pavón<sup>(1)</sup>, G. Alvarez<sup>(2)</sup>, M. Herrero<sup>(2)</sup>, A. Cifuentes<sup>(2)</sup>, K. Henriquez<sup>(1,3)</sup>, M. Aranda<sup>(1,3)</sup>  
<sup>(1)</sup> Dept. Food Science and Technology, University of Concepcion, Concepcion, Chile; <sup>(2)</sup> Institute of Food Science Research (CIAL-CSIC), Madrid, Spain; <sup>(3)</sup> Center for Biotechnology, University of Concepcion, Concepcion, Chile

### Closing Plenary Lecture

Session Chairs: M<sup>a</sup> Teresa Galceran Huguet, University of Barcelona  
Marta Lores Aguín, University of Santiago de Compostela

- 12:40 h** **PL-6** *"Advanced analytical strategies in the field of bioactive ingredients"*  
Antonio Segura Carretero  
*Dept. Analytical Chemistry, University of Granada, Granada, Spain*

### 13:20 h Closing Ceremony & Awards

### 13:45 h Farewell Cocktail

## POSTER SESSIONS

### TUESDAY OCTOBER 2nd

#### Poster Session 1:

#### Clinical and pharmaceutical analysis (CPA) & Environmental analysis (EA)

##### *Clinical and pharmaceutical analysis (CPA)*

- P-CPA-01** CREATION OF A DATABASE OF HUMAN AND VETERINARY DRUGS CONTAINING THEIR COLLISION CROSS SECTION AS NOVEL CHARACTERIZATION PARAMETER  
C. Tejada-Casado, M. Hernández-Mesa, F. Monteau, F.J. Lara, M. del Olmo-Iruela, A.M. García-Campaña, B. Le Bizec, G. Dervilly-Pinel
- P-CPA-02** DETECTION OF INTRAMUSCULAR ADMINISTRATION OF TESTOSTERONE IN CAUCASIAN AND ASIAN POPULATION USING STEROID SULFATE METABOLITES  
A. Esquivel, É. Alechaga, N. Monfort, R. Ventura
- P-CPA-03** METABOLITE ELUCIDATION OF TWO SYNTHETIC CANNABINOIDS AFTER POOLED HUMAN HEPATOCYTES INCUBATION  
D. Fabregat-Safont, M. Mardal, J.V. Sancho, P.W. Dalsgaard, F. Hernández, K. Linnet, M. Ibáñez
- P-CPA-04** DEVELOPMENT, VALIDATION AND APPLICATION OF A GC-MS METHOD FOR THE SIMULTANEOUS DETECTION AND QUANTIFICATION OF NEUTRAL LIPID SPECIES IN TRYPANOSOMA CRUZI EPIMASTIGOTE  
M. Santivañez-Veliz, B. Arce, E. Moreno-Viguri, S. Pérez-Silanes, J. Varela, H. Cerecetto, M. González, E. Lizárraga
- P-CPA-05** COMPARISON OF ISOTOPE PATTERN DECONVOLUTION AND CALIBRATION CURVE QUANTIFICATION METHODS FOR THE DETERMINATION OF ESTRONE AND 17 $\beta$ -ESTRADIOL IN HUMAN SERUM  
J. Pitarch-Motellón, N. Fabregat-Cabello, C. Le Goff, A.F. Roig-Navarro, J.V. Sancho Llopis, E. Cavalier
- P-CPA-06** DETERMINATION OF SELECTED METABOLITES OF ENDOGENOUS ANDROGENIC ANABOLIC STEROIDS IN URINE BY LC-MS AND ISOTOPE PATTERN DECONVOLUTION  
S.E. Bedeleán, J. Pitarch-Motellón, J.V. Sancho, M. Ibáñez, A.F. Roig-Navarro
- P-CPA-07** APPLICABILITY OF AMBIENT IONIZATION TECHNIQUES FOR THE ANALYSIS OF DRUGS IN URINE  
C. Bressan, R. Seró, E. Alechaga, N. Monfort, E. Moyano, R. Ventura
- P-CPA-08** FEASIBILITY OF GC-APPI-HRMS TO DETECT PHENYLALKYLAMINE STIMULANTS IN SPORTS DRUG TESTING  
C. Bressan, J.F. Ayala-Cabrera, F.J. Santos, S. Cuadras, L. Garrostas, N. Monfort, E. Alechaga, E. Moyano, R. Ventura

- P-CPA-09 TOWARDS AN ENHANCED CHEMICAL STABILITY AND BIOAVAILABILITY OF CAMPTOTHECIN THROUGH THE FORMATION OF CICLODEXTRIN INCLUSION COMPLEXES. A RP-HPLC-FL EVALUATION**  
M. A. Martín, A.I. Olives, K. Xiomara Orellana, P. Michalska, I. Buendia, R. León, J.C. Menéndez
- P-CPA-10 IONIC LIQUIDS AS MOBILE PHASE ADDITIVES FOR ENHANCING THE SEPARATION OF ANTICANCER DRUGS BY HPLC WITH FLUORIMETRIC DETECTION**  
M. A. Martín, F.M. Silva-Sofrás, A.I. Olives
- P-CPA-11 BIOACCUMULATION OF POLYCYCLIC AROMATIC HYDROCARBONS IN HUMANS. DIFFERENTIATION BETWEEN ORGANS USING MULTIVARIATE DISCRIMINANT ANALYSIS**  
M. Pastor-Belda, P. Viñas, N. Campillo, N. Arroyo, M.D. Pérez-Cárceles, C. Torres Sánchez, M. Hernández-Córdoba
- P-CPA-12 DETERMINATION OF NUCLEOTIDES IN SUPPLEMENT FEED USING ION-PAIR LIQUID CHROMATOGRAPHY WITH DUAL ELECTROSPRAY ATMOSPHERIC PRESSURE CHEMICAL IONIZATION TIME-OF-FLIGHT MASS SPECTROMETRY**  
 N. Campillo, A. Sáez, M. Pastor-Belda, P. Viñas, M. Hernández-Córdoba
- P-CPA-13 SEPARATION AND IDENTIFICATION BY (RP)UHPLC-UV-MS OF FOUR THERAPEUTICAL MONOCLONAL ANTIBODIES**  
R. Pérez-Robles, L. Cuadros-Rodríguez, A. Salmerón-García, N. Navas
- P-CPA-14 NATIVE MASS SPECTROMETRIC SIZE EXCLUSION LIQUID CHROMATOGRAPHIC ANALYSIS OF THE MONOCLONAL ANTIBODIES INFLIXIMAB AND BIOSIMILAR CT-P13: AGGREGATES AND INTACT ISOFORMS PROFILES**  
R. Pérez-Robles, L. Cuadros-Rodríguez, A. Salmerón-García, J. Cabeza, N. Navas
- P-CPA-15 IS STRONGER ALWAYS BETTER? EFFECT OF URINE FREEZING TEMPERATURE ON PROSTATE SPECIFIC ANTIGEN (PSA) ANALYSIS BY CAPILLARY ELECTROPHORESIS IN THE SEARCH OF PROSTATE CANCER MARKERS.**  
 D. Navarro-Calderón, A. Puerta, B. Limones, J.C. Díez-Masa, M. de Frutos
- P-CPA-16 CAPILLARY ELECTROPHORESIS IN COMBINATION WITH FIELD AMPLIFIED SAMPLE INJECTION FOR THE DETERMINATION OF TETRACYCLINES IN HUMAN URINE SAMPLES**  
D. Moreno-González, M. Krulišová, L. Gámiz-Gracia, A.M. García-Campaña
- P-CPA-17 DETERMINATION OF SYNTHETIC CATHINONES IN URINE BY SOLID-PHASE EXTRACTION FOLLOWED BY LIQUID CHROMATOGRAPHY-HIGH RESOLUTION MASS SPECTROMETRY**  
S. Pascual, N. Fontanals, F. Borrull, C. Aguilar, M. Calull
- P-CPA-18 BIOASSAY-GUIDED ISOLATION OF ANTI-OBESITY POLYPHENOLS FROM *LIPPIA CITRIODORA***  
M.L. Cádiz Gurrea, M. Olivares-Vicente, M. Herranz-López, D. Arráez-Román, V. Micol, A. Segura-Carretero
- P-CPA-19 ANALYTICAL CHALLENGES ASSOCIATED TO THE CONTROL OF FASHION COSMETICS SAFETY**  
L. Rubio, E. Guerra, C. Garcia-Jares, M. Lores

### *Environmental analysis (EA)*

- P-EA-01** VALIDATION STUDY OF AN ON-LINE ANALIZER FOR THE DETERMINATION OF TRIHALOMETHANES IN DISTRIBUTION DRINKING WATER ACCORDING TO ISO 17025  
G. Carrera, M. West, M.R. Boleda, L. Vázquez
- P-EA-02** DIRECT DETERMINATION OF ULTRATRACE TOTAL INORGANIC IODINE IN SEAWATER BY LIQUID CHROMATOGRAPHY-MASS SPECTROMETRY  
M. Hernáiz-Izquierdo, P. Galindo-Iranzo, M.P. García-Armada, A. Saiz-López, B. Gómara, R. Lebrón-Aguilar, J.E. Quintanilla-López
- P-EA-03** CHARACTERIZATION OF THE ORGANOHALOGENATED BURDEN IN INFERTILE MILVUS MIGRANS EGGS FROM A CONTAMINATED AREA IN MADRID (SPAIN)  
J. Berges-Castanera, J. Escobar-Arnanz, E. Eljarrat, G. Blanco, L. Ramos
- P-EA-04** MULTI-RESIDUE ANALYSIS OF 22 CONTAMINANTS OF EMERGING CONCERN IN RIVER WATER BY LARGE VOLUME DIRECT INJECTION-LIQUID CHROMATOGRAPHY TANDEM MASS SPECTROMETRY  
J. Borrull, A. Colom, J. Fabregas, E. Pocurull, F. Borrull
- P-EA-05** ACT MICROPLASTICS AS CONCENTRATORS OF ORGANIC POLLUTANTS SUSPENDED IN WATER? FOR EXAMPLE, PBDEs  
M. Singla, S. Borrós, F. Broto, J. Díaz
- P-EA-06** DIRECT DETERMINATION OF POLYCHLORINATED BIPHENYLS IN SOLID AND SEDIMENTS BY THERMAL DESORPTION-GAS CHROMATOGRAPHY-MASS SPECTROMETRY  
L. Corell, S. Armenta, M. de la Guardia, F.A. Esteve-Turrillas
- P-EA-07** BIOFERTILIZATION OF VINEYARDS: INFLUENCE OF VERMICOMPOST IN THE POLYPHENOLIC PROFILE OF GALICIAN WINES  
L. Rubio, J. Domínguez, J.P. Lamas, M. Celeiro, C. Garcia-Jares, M. Lores
- P-EA-08** IGA AND SWATH AS NON-TARGET ACQUISITION TECHNIQUES TO IDENTIFY PHARMACEUTICALS IN COMPLEX ENVIRONMENTAL MATRICES  
R. Álvarez-Ruiz, Y. Picó
- P-EA-09** ANALYSIS OF PESTICIDE RESIDUES IN HONEYBEES, POLLEN AND BEESWAX BY QUECHERS EXTRACTION AND LC-MS/MS DETERMINATION  
P. Calatayud-Vernich, F. Calatayud, E. Simó, Y. Picó
- P-EA-10** EFFECT OF CLIMATIC VARIABILITY IN THE SOIL ORGANIC MATTER COMPOSITION STUDIED BY ANALYTICAL PYROLYSIS  
M.A. Jiménez-González, J.M. de la Rosa, J.A. González-Pérez, A.M. Álvarez, P. Carral, G. Almendros
- P-EA-11** ANALYTICAL CHALLENGES OF ANALYSIS OF POLLUTANT INCLUDED IN “WATCH LISTS OF WATER FRAMEWORK DIRECTIVE” by LC-MS/MS and HRMS  
E.M. Herrera, C. Flores, A. Bartolomé, J. Caixach

- P-EA-12 DETERMINATION OF HIGH VOLUME PRODUCTION CHEMICALS IN OUTDOOR AIR PARTICULATE MATTER. ASSESSING THE HUMAN EXPOSURE**  
A. Maceira, I. Pecikoza, R.M. Marcé, F. Borrull
- P-EA-13 APPLYING LC-HR-MS SUSPECT SCREENING FOR THE DETECTION OF PHOTOTRANSFORMATION PRODUCTS OF PHARMACEUTICALS IN SURFACE WATERS**  
 S. Pérez, M. García-Vara, D. Barceló, N. Montemurro
- P-EA-14 CATIONIC AMINE-BRIDGED PERIODIC MESOPOROUS ORGANOSILICA MATERIALS FOR OFF-LINE SOLID-PHASE EXTRACTION OF PHENOXY ACID HERBICIDES FROM WATER SAMPLES PRIOR TO THEIR SIMULTANEOUS ENANTIOMERIC DETERMINATION BY CAPILLARY ELECTROPHORESIS**  
J. Valimaña-Traverso, S. Morante-Zarcelero, D. Pérez-Quintanilla, M.A. García, I. Sierra, M.L. Marina
- P-EA-15 SIMULTANEOUS ENANTIOMERIC DETERMINATION OF DRUGS IN WATER SAMPLES BY CAPILLARY ELECTROPHORESIS AFTER SOLID-PHASE EXTRACTION WITH PERIODIC MESOPOROUS ORGANOSILICA MATERIALS**  
J. Valimaña-Traverso, S. Morante-Zarcelero, D. Pérez-Quintanilla, M.A. García, I. Sierra, M.L. Marina
- P-EA-16 ASSESSMENT OF POPs IN MARINE MAMMALS FROM THE MEDITERRANEAN SEA**  
 J. Muñoz-Arnanz, A. Bartalini, F. Capanni, L. Marsili, C. Fossi, B. Jiménez
- P-EA-17 PRESENCE AND ELIMINATION OF CONTAMINANTS OF EMERGING CONCERN THROUGH A TREATMENT LINE FOR LANDFILL LEACHATE REMEDIATION**  
 A. Ruíz-Delgado, P. Plaza-Bolaños, S. Malato, I. Oller, A. Agüera
- P-EA-18 DIFFERENT TYPES OF SOLID PHASE EXTRACTION FOR ABOUT 30 ORGANIC COMPOUNDS, SUCCESSIVELY DETERMINED BY HPLC/MS-MS (QqQ)**  
 D. Sadutto, P. Calatayud-Vernich, Y. Picó
- P-EA-19 MONITORING OF CYANOTOXINS IN WATER BY ULTRA-HIGH PERFORMANCE LIQUID CHROMATOGRAPHY FOLLOWING SALTING-OUT ASSISTED LIQUID-LIQUID EXTRACTION**  
M. Hemmati, C. Tejada-Casado, M.C. Contreras-Morales, F.J. Lara, M. Rajabi, A.M. García-Campaña, M. del Olmo-Iruela
- P-EA-20 EMERGING POLLUTANTS IN SOIL AND PLANTS OF SAUDI ARABIA: CONSEQUENCES OF THE USE OF TREATED WASTE WATER FOR IRRIGATION**  
 R. Alvarez-Ruiz, Y. Picó, L. Wijaya, A.H. Alfarhan, M. Alyemeni, D. Barceló
- P-EA-21 COMBINED GC-MS AND CHEMOMETRIC APPROACH FOR THE COMPREHENSIVE ANALYSIS OF ORGANIC COMPOUND SOURCES IN RURAL AND URBAN ATMOSPHERES**  
 B.L. van Drooge, E. Marco, J.O. Grimalt
- P-EA-22 MICROPLASTIC POLLUTION IN THE ATLANTIC OCEAN: IDENTIFICATION OF POLYMER TYPES AND ADDITIVE CONTENT USING ANALYTICAL PYROLYSIS (PY-GC/MS)**  
 J.A. González-Pérez, L.M. San Emeterio, B. Abaroa Pérez, D. Vega Moreno
- P-EA-23 ANALYTICAL PYROLYSIS OF SOIL EASILY-EXTRACTABLE GLOMALIN (EEG) FRACTION**  
 E. Lozano, J. Mataix-Solera, V. Arcenegui, L.M. San Emeterio, J.A. González-Pérez

- P-EA-24 ANALYSIS OF POLYSTYRENE MICROPLASTICS BY LC-QEXACTIVE ORBITRAP IN COASTAL AREAS OF CATALONIA**  
G.F. Schirinzi, M. Llorca, D. Barceló, M. Farré
- P-EA-25 SUBCRITICAL WATER COMBINED WITH MEMBRANE ASSISTED EXTRACTION FOR ATMOSPHERIC PARTICLE-BOUND PAHs DETERMINATION**  
C. Ramos Contreras, E. Concha-Graña, P. López-Mahía, F. Molina-Pérez, S. Muniategui-Lorenzo
- P-EA-26 COMPARATIVE RESPONSE TO TAMIFLU® (OSELTAMIVIR PHOSPHATE) UNDER WATER-EXPOSURE IN MUSSELS AND CLAMS**  
S. Dallarés, N. Montemurro, S. Pérez, N. Rodríguez-Sanchez, M. Solé
- P-EA-27 MULTIRESIDUE ANALYSIS OF PERSONAL CARE PRODUCTS IN CONTINENTAL WATERS BY SOLID-PHASE MICROEXTRACTION-GAS CHROMATOGRAPHY TRIPLE QUADRUPOLE MASS SPECTROMETRY**  
C. Garcia-Jares, M. Vila, M. Celeiro, J.P. Lamas, V. Homem, N. Ratola, M. Llompart
- P-EA-28 DETERMINATION OF NEONICOTINOID INSECTICIDE RESIDUES IN WATER SAMPLES BY MICELLAR ELECTROKINETIC CAPILLARY CHROMATOGRAPHY**  
L. Carbonell-Rozas, J.E. Cejas-Aguilar, A.M. García-Campaña, F.J. Lara
- P-EA-29 STRUCTURE OF BIOCHARS PRODUCED FROM HYDROTHERMAL CARBONIZATION AND PYROLYSIS OF ORGANIC WASTE AND THEIR POTENTIAL USE AS N FERTILIZERS**  
J.M. De la Rosa, M. Paneque, M.A. Jiménez-González, N.T. Jiménez-Morillo, P. Campos, F. González-Vila, H. Knicker
- P-EA-30 ANALYSIS OF POLYSTYRENE BASED MICROPLASTICS IN ENVIRONMENTAL SAMPLES**  
Marinella Farré, Gabriella Schirinzi, Marta Llorca, Esteban Abad, Damià Barceló



## Poster Session 2:

### Sample preparation (SP) & Fundamentals and Chemometrics (FCH) & Industrial processes (IP)

#### Sample preparation (SP)

- P-SP-01** DETERMINATION OF PHENOLIC COMPOUNDS IN TEA BY USING CYCLODEXTRIN-METHACRYLATE HYBRID MONOLITHIC MATERIALS  
C. Belenguier-Sapiña, E. Pellicer-Castell, A. Mauri-Aucejo, P. Amorós, E.F. Simó-Alfonso, C. Vila
- P-SP-02** SYNTHESIS OF GROUND POLYMERIC SORBENTS WITH CYCLODEXTRIN NANOPARTICLES FOR ANALYTICAL APPLICATIONS  
A. Mauri-Aucejo, E. Pellicer-Castell, C. Belenguier-Sapiña, P. Amorós, E.F. Simó-Alfonso, C. Vila
- P-SP-03** AUTOMATED DETERMINATION OF INSECTICIDE METABOLITES IN URINE SAMPLES BY TURBOFLOW-LIQUID CHROMATOGRAPHY COUPLED TO ORBITRAP MASS SPECTROMETRY  
M. López García, A. Romera-Torres, R. Romero González, A. Garrido Frenich
- P-SP-04** EXTRACTION AND DETERMINATION OF AFLATOXINS IN FOOD SAMPLES BY USING A NOVEL MESOPOROUS SILICA-BASED SORBENT  
E. Pellicer-Castell, C. Belenguier-Sapiña, N. Puertes-Espadas, A. Mauri-Aucejo, P. Amorós
- P-SP-05** MOLECULARLY-IMPRINTED POLYMER-STIR CAKE SORPTIVE EXTRACTION OF ECGONINE METHYL ESTER FROM WATER AND BIOLOGICAL SAMPLES FOR THE EVALUATION OF COCAINE ABUSE  
R. Arraez, A. Sorribes-Soriano, J.M. Herrero-Martínez, S. Armenta, F.A. Esteve-Turrillas
- P-SP-06** ION MOBILITY SPECTROMETRY DETERMINATION OF DICHLOROPANE IN ORAL FLUID BY MICROEXTRACTION BY PACKED SORBENT  
A. Monedero, F.A. Esteve-Turrillas, S. Armenta
- P-SP-07** MOLECULARLY-IMPRINTED PIPETTE-TIP EXTRACTION OF AMPHETAMINE-TYPE SUBSTANCES FROM ORAL FLUIDS  
A. Valencia, A. Sorribes-Soriano, J.M. Herrero-Martínez, S. Armenta, F.A. Esteve-Turrillas
- P-SP-08** EVALUATION OF GREEN ASPECTS OF ANALYTICAL TECHNOLOGY BASED ON DEEP EUTECTIC SOLVENTS FOR EXTRACTION OF BIOACTIVE COMPOUNDS FROM OLIVE LEAF  
M. Elena Alañón, A.M. Gómez-Caravaca, D. Arráez-Román, A. Segura-Carretero
- P-SP-09** COMPARATIVE STUDY OF THREE EXTRACTION PROTOCOLS FOR *VISCIUM ALBUM L.* PROTEINS  
M. Vergara-Barberán, M.J. Lerma-García, M. Nicoletti, E.F. Simó-Alfonso, J.M. Herrero-Martínez, E. Fasoli, P.G. Righetti
- P-SP-10** MOLECULARLY IMPRINTED MACROPOROUS MONOLITHIC MATERIALS FOR SELECTIVE RECOGNITION OF HUMAN SERUM ALBUMIN  
M. Vergara-Barberán, I.M. Fombella-Gracia, E.F. Simó-Alfonso, J.M. Herrero-Martínez

- P-SP-11**     **APTAMER-MODIFIED MONOLITHIC CAPILLARY COLUMNS FOR HIGHLY SELECTIVE RECOGNITION OF ALLERGENIC PROTEINS**  
M. Vergara-Barberán, E.F. Simó-Alfonso, J.M. Herrero-Martínez
- P-SP-12**     **IMPROVING FRACTIONATION OF HUMAN MILK PROTEINS THROUGH CALCIUM PHOSPHATE CO-PRECIPIATION AND THEIR RAPID ANALYSIS BY CAPILLARY ELECTROPHORESIS**  
I. Ten-Doménech, E.F. Simó-Alfonso, J.M. Herrero-Martínez
- P-SP-13**     **POLY(ETHYLENE GLYCOL) DIACRYLATE-BASED GROUND MONOLITHIC SORBENT FOR DETERMINATION OF SULFONAMIDES IN DIFFERENT MATRICES**  
M. Vergara-Barberán, A. Moga, H. Martínez-Pérez-Cejuela, J.M. Herrero-Martínez, E.F. Simó-Alfonso
- P-SP-14**     **DEVELOPMENT OF MINIATURIZED SYSTEMS BASED ON POLYMERIC SORBENTS MODIFIED WITH GOLD NANOPARTICLES FOR AMINOTHIOLS ANALYSIS IN BIOLOGICAL SAMPLES**  
O. Mompó-Roselló, J. Rojo-Fernández, J.M. Herrero-Martínez, E. Simó-Alfonso
- P-SP-15**     **A MODIFIED QUECHERS METHOD FOR THE DETERMINATION OF TETRACYCLINES IN FISH MUSCLE BY UHPLC-MS/MS**  
D. Moreno-González, A. Grande-Martínez, F.J. Arrebola-Liébanas, A. Garrido-Frenich, A.M. García-Campaña
- P-SP-16**     **OPTIMIZATION OF THE EXTRACTIONS BY SUPERCRITICAL FLUIDS AND PRESSURIZED LIQUID EXTRACTION FROM DATE FRUIT**  
S. Jazi, J.A. Mendiola, A. Cherif, W. Mnif, E. Ibañez
- P-SP-17**     **CLOUD POINT EXTRACTION FOR DETERMINATION OF VITAMIN D AND THEIR METABOLITES IN HUMAN URINE USING LIQUID CHROMATOGRAPHY WITH TANDEM MASS SPECTROMETRY**  
M. Pastor-Belda, S. Requena, N. Campillo, P. Viñas, N. Arroyo, M. Hernández-Córdoba
- P-SP-18**     **SUPERCRITICAL FLUID EXTRACTION AND CHEMICAL CHARACTERIZATION OF TERPENES OBTAINED FROM OLIVE LEAVES**  
Z. Suárez Montenegro, G. Álvarez-Rivera, J.A. Mendiola, A. Cifuentes, E. Ibáñez
- P-SP-19**     **EVALUATION OF NEW PROTEOLYTIC ENZYMES TO PRODUCE HYPOCHOLESTEROLEMIC PEPTIDES FROM OLIVE SEED PROTEINS**  
I.M. Prados-Nieto, E. Domínguez-Vega, M.L. Marina, M. Wuhrer, M.C. García
- P-SP-20**     **AUTOMATION OF SINGLE-DROP EXTRACTION APPROACHES BASED ON THE LAB-IN-SYRINGE TECHNIQUE**  
J.H. Šrámková, B. Horstkotte, H. Sklenářová, P. Solich
- P-SP-21**     **MINIATURIZED DISPERSIVE SOLID-PHASE EXTRACTION USING A NOVEL METAL-ORGANIC FRAMEWORK CIM-81 AS SORBENT FOR THE EXTRACTION OF PERSONAL CARE PRODUCTS IN ENVIRONMENTAL WATERS**  
P. González-Hernández, A.B. Lago, J.H. Ayala, J. Pasán, C. Ruíz-Pérez, V. Pino, A.M. Afonso

- P-SP-22 NOVEL METAL ORGANIC FRAMEWORK-BASED SOLID-PHASE MICROEXTRACTION FIBERS: IMPORTANCE OF SUPPORT TREATMENT**  
P. Rocío-Bautista, J.H. Ayala, A.M. Afonso, J. Pasán, C. Ruiz-Pérez, V. Pino, R. Ameloot
- P-SP-23 MINIATURIZED DISPERSIVE SOLID-PHASE EXTRACTION VERSUS MINIATURIZED STATIC SOLID-PHASE EXTRACTION USING AS SORBENT CORE-SHELL MICROPARTICLES OF THE METAL ORGANIC FRAMEWORK CIM-80 (CIM-80@SiO<sub>2</sub>) FOR THE EXTRACTION OF POLYCYCLIC AROMATIC HYDROCARBONS FROM WATERS**  
A. Gutiérrez-Serpa, V. Pino, J. Pasán, F. Jiménez-Moreno, A.I. Jiménez-Abizanda, C. Ruiz-Pérez
- P-SP-24 UNSUPERVISED IN-VITRO MONITORING OF THE LEACHING KINETICS OF EMERGING CONTAMINANTS FROM MICROPLASTICS IN THE MARINE ENVIRONMENT BY ON-LINE COUPLING OF MINI-COLUMN EXTRACTION TO HPLC**  
K. Fikarova, D.J. Cocovi-Solberg, M. Rosende, B. Horstkotte, H. Sklenářova, M. Miró
- P-SP-25 EVALUATION OF IN-HOUSE SYNTHESIZED POLYMERIC SORBENT WITH ZWITTERIONIC CHARACTER FOR THE SIMULTANEOUS SOLID-PHASE EXTRACTION OF ACID, BASIC AND AMPHOTERIC ANALYTES**  
J.C. Nadal, F. Borrull, P.A.G. Cormack, R.M. Marcé, N. Fontanals

### *Fundamentals and Chemometrics (FCH)*

- P-FCH-01 DEVELOPMENT OF A RETENTION TIME INDEX FOR LIQUID CHROMATOGRAPHY COUPLED TO MASS SPECTROMETRY IN BOTH POSITIVE AND NEGATIVE IONIZATION MODES**  
A. Celma, L. Bijlsma, F.J. López, J.V. Sancho
- P-FCH-02 ADVANTAGES OF PARAFAC DECOMPOSITION IN THE UNEQUIVOCAL IDENTIFICATION AND QUANTIFICATION OF PLASTICIZERS AND BENZOPHENONE MIGRATED FROM FOOD CONTACT MATERIALS BY GC/MS**  
L. Rubio, L. Valverde-Som, L.A. Sarabia, M.C. Ortiz
- P-FCH-03 PULSES OF ORGANIC SOLVENT AND THEIR CONSEQUENCES TO ENHANCE ISOCRATIC AND GRADIENT PREDICTIONS**  
J.R. Torres-Lapasíó, A. Gisbert-Alonso, J.A. Navarro-Huerta, M.C. García-Álvarez-Coque

### *Industrial processes (IP)*

- P-IP-01 CHROMATOGRAPHIC FINGERPRINT OF WOOD PROCESSING INDUSTRY BY-PRODUCTS: EUCALYPTUS, OAK AND CHESTNUT SCREW WATERS**  
M. Celeiro, J.P. Lamas, R. Arcas, C. García-Jares, M. Lores
- P-IP-02 SEARCHING BIOACTIVE COMPOUNDS IN WOOD INDUSTRY BY-PRODUCTS: WOODEN CHIPS FROM PINE, WALNUT AND CHERRY**  
M. Lores, J.P. Lamas, M. Celeiro, R. Arcas, C. García-Jares

## WEDNESDAY OCTOBER 3rd

### Poster Session 3:

#### New developments in instrumentation (NDI) & Omics techniques (OT) & Other applications (OA)

##### *New developments in instrumentation (NDI)*

- P-NDI-01** TARGETED AND UNTARGETED SCREENING OF PESTICIDES AND OTHER CONTAMINANTS IN FOOD MATRICES USING A NOVEL HIGH RESOLUTION GC/Q-TOF  
J. Riener, K. Chen, [J.J. Rivero](#)
- P-NDI-02** LAB-IN-SYRINGE: A YOUNG AND POWERFUL TECHNIQUE FOR AUTOMATION OF SAMPLE PRETREATMENT  
[B. Horstkotte](#), I.H. Šrámková, H. Sklenářová, P. Solich
- P-NDI-03** UNIQUE GC COLUMN SELECTIVITY FOR TIME AND COST-EFFICIENT SEPARATION OF COMPLEX CIS/ TRANS FATTY ACID METHYL ESTERS IN FOOD  
R. Dhandapani, M.J. Campos Molina
- P-NDI-04** STATIONARY PHASES FOR THE PROCESS SCALE PURIFICATION OF PEPTIDES AND INSULIN ANALOGS  
M. Trass, J. Preston, M. Jacob, G. Krautz, M. McGinley, D. Xing, G. Hodson, N. Filloy, V.R. Thangella

##### *Omics techniques (OT)*

- P-OT-01** OIL QUALITY ASAP: DETECTING DEFECTED AND ADULTERATED OILS BY DIRECT MS USING ATMOSPHERIC SOLIDS ANALYSIS PROBE  
C. Sales, [L. Lacalle](#), T. Portolés, J. Beltrán
- P-OT-02** UNTARGETED MULTI-PLATFORM METABOLOMICS APPROACH FOR THE STUDY OF CHILDHOOD CEREBELLAR ATAXIA  
[J. Sáiz](#), G. Nedic Erjavec, C. Barbas, P. Gutiérrez Ríos
- P-OT-03** EVALUATION OF MASS SPECTRAL FINGERPRINTS BY SPME FOLLOWED BY MS FOR CHARACTERIZATION OF HONEY BOTANICAL SOURCE  
J.E. Quintanilla-López, R. Lebrón-Aguilar, M.L. Sanz, [A.C. Soria](#)
- P-OT-04** A HUMAN DIETARY INTERVENTION STUDY OF A BIOACTIVE GARLIC SUPPLEMENT BY A FINGERPRINTING METABOLIC APPROACH  
A. Fernández-Ochoa, I. Borrás-Linares, R. Quirantés-Pine, S. Pimentel Moral, A. Baños, E. Guillamón, [A. Segura-Carretero](#)
- P-OT-05** A MULTI-PLATFORM METABOLOMIC APPROACH TO SEARCH CHEMICAL MARKERS RELATED TO THE COFFEE ROASTING PROCESS  
R. Pérez-Míguez, E. Sánchez-López, M. Plaza, M.L. Marina, [M. Castro-Puyana](#)

- P-OT-06**    **MULTI LC-MS METHOD APPROACH FOR THE VALIDATION OF POTENTIAL BIOMARKERS FOR THE EARLY DIAGNOSIS OF PARKINSON'S DISEASE**  
M. Konjevod, A. Bergareche, P. Amiano, F. Goñi, E. Ardanaz, J.M. Huerta, C. Barbas, J. Sáiz
- P-OT-07**    **ANALYSIS OF PROTEIN BIOMARKERS BY ON-LINE IMMUNOAFFINITY SOLID-PHASE EXTRACTION CAPILLARY ELECTROPHORESIS-MASS SPECTROMETRY USING Fab' ANTIBODY FRAGMENTS. TRANSTHYRETIN IN FAP-I**  
L. Pont, F. Benavente, J. Barbosa, V. Sanz-Nebot
- P-OT-08**    **METABOLOMICS FINGERPRINTING OF BILE SAMPLES IN A CHOLANGIOCARCINOMA STUDY**  
A. López-López, A. López-González, V. Alonso-Herranz, A. Paradela, F.J. Corrales, C. Barbas
- P-OT-09**    **UNVEILING THE CAPABILITIES OF CE-LIF FOR DETERMINATION OF KEY FREE D-AMINO ACIDS IN HUMAN URINE. APPLICATION TO THE STUDY OF THEIR RELATIONSHIP WITH FERMENTED DAIRY FOOD INTAKE**  
M.P. Lorenzo, L. Valiente, A. García
- P-OT-10**    **STUDY OF THE MINOR FRACTION OF VIRGIN OLIVE OIL BY A MULTI-CLASS GC-MS APPROACH: COMPREHENSIVE QUANTITATIVE CHARACTERIZATION AND VARIETAL DISCRIMINATION POTENTIAL**  
L. Olmo-García, J.J. Polari, X. Li, A. Bajoub, A. Fernández-Gutiérrez, S.C. Wang, A. Carrasco-Pancorbo
- P-OT-11**    **EXPLORING THE CAPABILITY OF LC-MS AND GC-MS MULTI-CLASS METHODS TO DISCRIMINATE OLIVE OILS FROM DIFFERENT GEOGRAPHICAL INDICATIONS AND TO IDENTIFY POTENTIAL ORIGIN MARKERS**  
L. Olmo-García, K. Wendt, N. Kessler, A. Bajoub, C.M. Sánchez-Arévalo, A. Fernández-Gutiérrez, C. Baessmann, A. Carrasco-Pancorbo
- P-OT-12**    **LIQUID CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY ANALYSIS OF EICOSANOIDS**  
C. Díaz-Navarro, P. Mena, A. Martín-Blázquez, O. Genilloud, F. Vicente, J. Pérez-del Palacio
- P-OT-13**    **NEW POTENTIAL BIOMARKERS OF METASTATIC COLORECTAL CANCER USING AN UNTARGETED LC-HRMS-BASED METABOLOMICS**  
A. Martín-Blázquez, C. Díaz-Navarro, C. Jiménez Luna, J.C. Prados, C. Melguizo, O. Genilloud, F. Vicente, O. Caba, J. Pérez-del Palacio
- P-OT-14**    **INFLIXIMAB AND CETUXIMAB -THERAPEUTIC MONOCLONAL ANTIBODIES- N-GLYCOSYLATION ANALYSIS BY UPLC-FLUORESCENCE-QTOF(MS)**  
Natalia Navas, Silvia Millán, Jonatah Bones

### *Other applications (OA)*

- P-OA-01** PRODUCTION AND COMPREHENSIVE CHARACTERIZATION BY LC×LC-PDA-MS OF AQUEOUS PHASES FROM PYROLYSIS OF DIFFERENT BIOMASSES  
E. Lazzari, E. Bastos Caramão, M. Herrero
- P-OA-02** CHALLENGES IN THE ANALYSIS OF SYNTHETIC DYES IN COSMETICS BY REVERSED PHASE LIQUID CHROMATOGRAPHY COUPLED TO TANDEM MASS SPECTROMETRY  
E. Guerra, J. Pablo Lamas, M. Celeiro, M. Llompart, C. Garcia-Jares
- P-OA-03** STUDY OF PHOTODEGRADATION OF PATENT BLUE V IN ORAL CARE PRODUCTS  
E. Guerra, M. Llompart, C. Garcia-Jares
- P-OA-04** EVALUATION OF THE EFFECT OF AIR-DRYING TEMPERATURE ON PHENOLIC COMPOUNDS OF AVOCADO BY-PRODUCTS BY HPLC-ESI-TOF-MS  
J.G. Figueroa, I. Borrás-Linares, J. Lozano-Sánchez, M.L. Cádiz-Gurrea, A. Segura-Carretero
- P-OA-05** PREPARATION OF A O-[2-(METHACRYLOYLOXY)-ETHYLCARBAMOYL]-10,11-DIHYDROQUINIDINE-SILICA HYBRID MONOLITH FOR THE ENANTIOSEPARATION OF AMINO ACIDS BY NANO-LC  
D. Xu, E. Sánchez-López, Q. Wang, Z. Jiang, M.L. Marina
- P-OA-06** BREATH ANALYSIS FOR THE BIOLOGICAL MONITORING OF CHRONIC EXPOSURE TO VOLATILE ORGANIC COMPOUNDS  
J.M. Sánchez, M. Castellanos
- P-OA-07** PHYTOCHEMICAL PROFILING OF HYDROALCOHOLIC EXTRACT FROM AERIAL PARTS AND ROOTS OF RUTA GRAVEOLENS FROM MORELOS (MEXICO)  
L. Reyes-Vaquero, G. Álvarez-Rivera, E. Ibáñez, P. Vanegas-Espinoza, N. Robledo-Quintos, A. Del Villar-Martínez
- P-OA-08** PYROLYSIS-COMPOUND-SPECIFIC ISOTOPE ANALYSIS (PY-CSIA  $\delta^{2H}$ ) OF EXTRA VIRGIN OLIVE OILS FROM THE MEDITERRANEAN BASIN  
N.T. Jiménez-Morillo, M.J. Cabrita, C.B. Dias, F.J. González-Viña, J.A. González-Pérez
- P-OA-09** DETERMINATION OF LIMONENE IN RECYCLED HDPE PELLETS  
José M<sup>a</sup> Sengenís, Ashleigh Mellor

## Poster Session 4:

### Food analysis (FA)

- P-FA-01 ANALYSIS OF PESTICIDES IN TEA LEAF AND HONEY USING THE NEW INTUVO PLATFORM COUPLED TO GC MS/MS**  
J. Riener, J. Westland, J.J. Rivero
- P-FA-02 ANALYSIS OF HALOANISLES AND TRIOCTENON IN WINE USING SPME COUPLED GAS CHROMATOGRAPHY AND TIME-OF-FLIGHT MASS SPECTROMETER**  
J. Lluch
- P-FA-03 CHARACTERIZATION AND CLASSIFICATION OF ARABICA AND ROBUSTA COFFEES BY LIQUID CHROMATOGRAPHY, MASS SPECTROMETRY AND CHEMOMETRIC METHODS**  
N. Núñez, X. Collado, O. Núñez, J. Saurina
- P-FA-04 DETERMINATION OF POLYPHENOLS IN PAPRIKA (*CAPSICUM ANNUUM L.*) BY UHPLC-ESI-MS/MS. PROTECTED DESIGNATION OF ORIGIN CLASSIFICATION BY PARTIAL LEAST SQUARES DISCRIMINANT ANALYSIS**  
G. Campmajo, S. Barbosa, O. Núñez, J. Saurina, L. Puignou
- P-FA-05 DETERMINATION OF ETHOXYQUIN AND ITS DIMER IN PEAR SKIN AND SALMON SAMPLES BY LIQUID CHROMATOGRAPHY WITH ELECTROCHEMICAL DETECTION**  
R. Rodríguez-Gómez, M. Vandeput, A. Zafra-Gómez, J.M. Kauffmann
- P-FA-06 DEVELOPMENT AND VALIDATION OF LC-MS/MS METHOD FOR THE CHARACTERIZATION OF REFERENCE MATERIALS FOR PESTICIDES RESIDUES ANALYSIS IN FRUITS: A METROLOGICAL APPROACH**  
M.A. Paredes Rozo, J. Arturo Guerrero, S. González-Mónico
- P-FA-07 PLASTICIZERS IN CAPSULES OF DIETARY SUPPLEMENTS FOR OVERWEIGHT CONTROL**  
M.A. Fernández, S. Garrido, E. Nogales, L. Ramos, B. Gómara
- P-FA-08 MONITORIZATION OF PHENOLIC COMPOSITION OF MANGO PEEL (*Mangifera indica*) by HPLC-DAD-q-TOF-MS DURING FIVE RIPENING STAGES**  
M.E. Alañón, A.M. Gómez-Caravaca, D. Arráez-Román, A. Segura-Carretero
- P-FA-09 EMULSION TECHNOLOGY FOR THE DEVELOPMENT OF FUNCTIONAL OILS**  
S. Pimentel-Moral, C. Rodríguez-Pérez, A. Fernández-Ochoa, D. Arráez-Román, A. Martínez-Férez, A. Segura-Carretero
- P-FA-10 QUALITATIVE AND QUANTITATIVE DIFFERENCES ON THE PHENOLIC PROFILE OF PLEAVES EXTRACTS OBTAINED FROM FOUR *MORUS ALBA* VARIETIES**  
F.J. Leyva-Jiménez, J. Lozano-Sanchez, I. Borrás-Linares, M.L. Cadiz-Gurrea, J. Gálvez-Peralta, D. Arraez-Román, A. Segura-Carretero
- P-FA-11 RECOVERING OF ANTI-INFLAMATORY AND ANTI-OBESOGENIC COMPOUND FROM *LIPPIA CITRIODORA* LEAVES BY SUB-CRITICAL FLUIDS EXTRACTION**  
F.J. Leyva-Jiménez, J. Lozano-Sanchez, I. Borrás-Linares, M.L. Cadiz-Gurrea, D. Arraez-Román, A. Segura-Carretero

- P-FA-12**     **DOWNSTREAM GREEN PROCESSES FOR RECOVERY OF BIOACTIVE COMPOUNDS FROM *Porphyridium cruentum*: TOWARDS A MICROALGAL BIOREFINERY**  
R. Gallego, M. Martínez, E. Ibáñez, [M. Herrero](#)
- P-FA-13**     **USE OF COMBINED ANALYTICAL TECHNIQUES TO PREVENT LABELLING FRAUD OF IBERIAN HAM**  
[A. Martín-Gómez](#), N. Arroyo-Manzanares, A.I. López-Lorente, V. Rodríguez-Estévez, L. Arce
- P-FA-14**     **HS-GC-IMS AS A POWERFUL ANALYTICAL TOOL TO CLASSIFY OLIVE OIL: EXPLORING DATA TREATMENT AND CHARACTERISTICS OF TWO DEVICES**  
N. Jurado-Campos, M.M. Contreras, N. Arroyo-Manzanares, [L. Arce](#)
- P-FA-15**     **IS GC-IMS A SUITABLE INSTRUMENT FOR ROUTINE ANALYSIS?**  
[A. Martín-Gómez](#), N. Jurado-Campos, M.C. Alcudia-León, N. Arroyo-Manzanares, L. Arce
- P-FA-16**     **TOWARD THE VALORIZATION OF CURUBA (*Passiflora mollissima* (Kunth) L. H. Bailey) SEEDS: SUSTAINABLE EXTRACTION AND CHEMICAL CHARACTERIZATION**  
D. Ballesteros-Vivas, G. Álvarez-Rivera, E. Ibáñez, F. Parada-Alfonso, A. Cifuentes
- P-FA-17**     **HPAEC-PAD ANALYSIS OF FERMENTATION SELECTIVITY OF NEWLY SYNTHESIZED OLIGOSACCHARIDES BY HUMAN-DERIVED BIFIDOBACTERIAL SPECIES**  
L. Ruiz-Aceituno, M. Esteban-Torres, V. Ambroggi, K. James, D. van Sinderen, [F.J. Moreno](#)
- P-FA-18**     **BEHAVIOR OF PECTIN DURING IN VITRO GASTROINTESTINAL DIGESTION AND EFFECT ON HUMAN COLONIC MICROBIOTA**  
A. Ferreira-Lazarte, I. Gil, C. Cueva, [F.J. Moreno](#), M. Villamiel
- P-FA-19**     **DETERMINATION OF SELECTED PHARMACEUTICALS IN LETTUCE CROPS BY HRMS X500R Q-TOF**  
[M. García-Vara](#), N. Montemurro, A. Juan, S. Pérez
- P-FA-20**     **STUDY OF PEPTIDE COMPOSITION IN COFFEE SILVERSKIN PROTEIN HYDROLYSATES SUBMITTED TO DIFFERENT ROASTING PROCESSES BY LC-ESI-QTO**  
R. Pérez-Míguez, M.L. Marina, [M. Castro-Puyana](#)
- P-FA-21**     **MALDI-TOF MS ANALYSIS OF PROCYANIDINS DERIVED FROM *VITIS VINIFERA* L. SEEDS DISAGGREGATED BY ULTRASOUND**  
A. Muñoz-Labrador, M. Prodanov, [F.J. Moreno](#), M. Villamiel
- P-FA-22**     **CHROMATOGRAPHIC CHARACTERIZATION OF PECTINS EXTRACTED FROM ARTICHOKE BY-PRODUCTS USING ULTRASOUNDS**  
C. Sabater, [N. Corzo](#), A. Olano, A. Montilla
- P-FA-23**     **IDENTIFICATION OF BIOACTIVE PEPTIDES AND POLYPHENOLS IN HIGHLY BIOACTIVE EXTRACTS OBTAINED FROM POMEGRANATE (*PUNICA GRANATUM* L.) PEEL BY RP-HPLC-ESI-Q-TOF**  
[E. Hernández-Corroto](#), M.L. Marina, M.C. García



- P-FA-24** ANTIOXIDANT PHENOLIC PROFILE CHARACTERIZATION OF PEEL FROM DIFFERENT PASSIFLORA SPECIES BY HPLC-DAD-QTOF/MS  
G. Domínguez-Rodríguez, M. Plaza, M.C. García, M.L. Marina
- P-FA-25** A CAPILLARY-LC-IT-MS/MS METHODOLOGY FOR THE QUANTITATION OF FOUR ACE-INHIBITORY PEPTIDES IN PRUNUS SEED HYDROLYSATES  
E. González-García, M.C. García, M.L. Marina
- P-FA-26** HEADSPACE SOLID-PHASE MICROEXTRACTION GAS CHROMATOGRAPHY-MASS SPECTROMETRY FOR THE DETERMINATION OF SEMI-VOLATILE FLUORINATED COMPOUNDS IN MICROWAVE POPCORN BAGS  
A. Contreras-Llin, J.F. Ayala-Cabrera, E. Moyano, F.J. Santos
- P-FA-27** DEVELOPMENT OF DISPERSIVE SOLID PHASE EXTRACTION METHOD FOR THE ANALYSIS OF PHOTOINITIATORS IN FATTY FOOD BY UHPLC-MS/MS  
N. Medina, R. Seró, E. Moyano
- P-FA-28** COMBINED (d)SPE-QUECHERS EXTRACTION OF MYCOTOXINS IN UNIFEED AND ANALYSIS BY HPLC-HRMS  
R. Facorro, M. Llopart, T. Dagnac
- P-FA-29** DETERMINATION OF *FUSARIUM* EMERGING MYCOTOXINS IN VEGETABLES MILKS BY UHPLC-MS/MS  
L. Gámiz-Gracia, N. Arroyo-Manzanares, A.M. Hamed, A.M. García-Campaña
- P-FA-30** DETERMINATION OF MULTI-MYCOTOXIN OCCURRENCE IN FOODSTUFF FROM ALGERIA BY ULTRA HIGH PERFORMANCE LIQUID CHROMATOGRAPHY COUPLED TO TRIPLE QUADRUPOLE MASS SPECTROMETRY (UHPLC-MS-MS)  
C. Khelifa Mahdjoubi, N. Arroyo-Manzanares, N. Hamini, A.M. García-Campaña, L. Gámiz-Gracia
- P-FA-31** A PROPOSAL FOR ON-LINE DERIVATIZATION OF AFLATOXINS IN UHPLC WITH FLUORESCENCE DETECTION FOR THEIR DETERMINATION IN RICE SAMPLES  
N. Arroyo-Manzanares, J.F. Huertas-Pérez, A.M. García-Campaña, L. Gámiz-Gracia
- P-FA-32** APPLICATION OF CAPILLARY LIQUID CHROMATOGRAPHY TO THE ANALYSIS OF 5-NITROMIDAZOLES IN AQUACULTURE PRODUCTS USING MOLECULARLY IMPRINTED SOLID PHASE EXTRACTION AS SAMPLE TREATMENT  
M. Hernández-Mesa, D. Moreno-González, C. Cruces-Blanco, A.M. García-Campaña
- P-FA-33** DIFFERENT CHEMOMETRICS APPROACHES FOR CLASSIFICATION OF VIRGIN OLIVE OILS USING GAS CHROMATOGRAPHY COUPLED TO MASS SPECTROMETRY  
M. García-Nicolás, N. Arroyo-Manzanares, L. Arce, M. Hernández-Córdoba, P. Viñas
- P-FA-34** ANALYTICAL PYROLYSIS OF FISH (*Oreochromis niloticus*) MUSCLE. EFFECT OF DIFFERENT COOKING METHODS  
J.A. González-Pérez, S. Perini Carvallo, R. Guzmán Guillén, A.I. Prieto, A. Jos, A.M. Camean
- P-FA-35** IS TENAX AN ADEQUATE SIMULANT FOR THE ANALYSIS OF THE MIGRATION FROM FOOD CONTACT MATERIALS?  
L. Valverde-Som, L. Rubio, L.A. Sarabia, M.C. Ortiz

- P-FA-36**     **STUDY OF THE MIGRATION OF MELAMINE AND FORMALDEHYDE FROM MATERIALS IN CONTACT WITH FOODSTUFFS WITH HPLC-DAD DATA**  
M.M. Arce, S. Sanllorente, L. Sarabia, M.C. Ortiz
- P-FA-37**     **A COMBINED LC-UV-MS AND GC-MS APPROACH FOR AUTHENTICATION OF ARTICHOKE (*Cynara scolymus*) SUPPLEMENTS FOR OVERWEIGHT CONTROL**  
A. Mena, S. Rodríguez, A.I. Ruiz-Matute, A.C. Soria, M.L. Sanz
- P-FA-38**     **VALORIZATION OF LEGUME BY-PRODUCTS BY EXTRACTING BIOACTIVE INOSITOLS USING A MICROWAVE ASSISTED EXTRACTION PROCEDURE**  
A.M. Zuluaga, A. Mena, D.M. Chito, M.P. Rada-Mendoza, A.I. Ruiz-Matute, M.L. Sanz
- P-FA-39**     **CHARACTERIZATION OF LOW MOLECULAR WEIGHT CARBOHYDRATES AND PHENYLALKANOID GLYCOSIDES OF *Rhodiola rosea* FOOD SUPPLEMENTS BY MULTIDIMENSIONAL GAS CHROMATOGRAPHIC TECHNIQUES**  
C. Carrero-Carralero, S. Rivas, S. Rodríguez-Sánchez, L. Ramos, A.C. Soria, M.L. Sanz
- P-FA-40**     **A COMPREHENSIVE CHARACTERIZATION OF RASPBERRY KETONE SUPPLEMENTS FOR OVERWEIGHT CONTROL**  
S. Rodríguez-Sánchez, A. Mena, M.L. Sanz, A.C. Soria
- P-FA-41**     **UNRAVELLING TROPANE ALKALOIDS DEGRADATION FROM BAKED BUCKWHEAT SAMPLES**  
Jesús Marín-Sáez, Roberto Romero-González, Antonia Garrido Frenich
- P-FA-42**     **DETERMINATION OF TRANS-ANETHOLE AND MYRISTICIN IN INFUSION PRODUCTS BY ULTRASOUND EXTRACTION AND GAS CHROMATOGRAPHY-MASS SPECTROMETRY**  
Araceli Rivera-Pérez, Rosalía López-Ruiz, Antonia Garrido Frenich

## FULL PAPER PUBLICATION

Participants are invited to submit manuscripts based on presentations at the SECyTA 2018 Meeting for possible publication in *Journal of Chromatography A*, with the intention of publishing in a Virtual Special Issue (VSI) that is dedicated to this meeting.

A Virtual Special Issue rules out possible delays in publication for contributors to the special issue and will make the conference special issue more complete and accessible than it has ever been. Please see below its advantageous characteristics:

- All submissions will go through normal peer review process per journal standard;
- Accepted articles will be published individually in regular journal volumes at **Science Direct** as soon as they are accepted;
- They will also be simultaneously added to the online Virtual Special Issue hosted at Science Direct, which is gradually built up as individual articles are published;
- Articles grouped together in a Virtual Special Issue will retain their original citation details.

Submission instructions:

- Submission links: **<http://ees.elsevier.com/chroma/>**
- Click on the “Submit Paper” option from the top menu;
- Enter your user name and password (first-time users will need to register);
- Please select article type name “**VSI: SECyTA 2018**” during submission process;
- Follow the remaining step-by-step instructions to submit your paper;
- Submission deadline: **31<sup>st</sup> Jan 2019**

When preparing your manuscript(s), please carefully follow the **Guide for Authors** of the journal. In the cover letter please mention that your manuscript is intended for the SECyTA 2018 Virtual Special Issue.

All manuscripts will be subjected to the regular selection process for the journal, including the strict peer review procedure; therefore acceptance for presentation at the meetings is not a guarantee for publication in the journal.

Thanks in advance for your contribution!

Elsevier Team

## GENERAL INFORMATION

### ***Conference language***

The official languages of the meeting are Spanish and English

### ***Book of Abstracts***

The book of abstract can be downloaded from [www.secyta2018.es](http://www.secyta2018.es)

### ***Oral presentations***

Time scheduled for the Plenary Lectures is 40 – 45 min.

Time scheduled for Oral Communications is 20 min (ideally distributed using 15 min for the presentation, plus 5 min for questions), except for the Young Scientists Sessions, which will be 10 min (ideally distributed using up to 7 min for the presentation plus 3 min for questions) and must be presented in English. Time scheduled for Poster flash presentations is 5 min.

Authors should provide to the organization a copy of the file of their presentations in PowerPoint format at least two hours before the session starts, although ideally should be provided the day before the presentation.

### ***Poster presentations***

Poster communication will be written in English.

Poster should have dimensions 120 cm high x 90 cm wide. Posters are displayed during the poster sessions of October 2- 3 and. They must be removed at the end of the last session, before October 4. Author(s) must be in attendance at their poster boards during their corresponding poster session, which will be indicated in the Final Scientific Program.

Time scheduled for oral presentations of the selected posters included in the Poster Flash Sessions is 5 min, highlighting the most relevant aspects of the research presented. Authors must provide well in advance to the organizers a copy of their presentation in PowerPoint format.

### ***Venue***

Palacio de Congresos de Granada  
Paseo del Violón, S/N – 18006 – GRANADA  
Planta -2, Salas Machuca-Albéniz



## Empresas colaboradoras

## Collaborating companies



## Empresas participantes

## Participating companies



## Otros patrocinadores

## Other sponsors



**PULEVA**



Contigo desde tu primer día



XVIII REUNIÓN CIENTÍFICA DE LA  
SOCIEDAD ESPAÑOLA DE CROMATOGRFÍA  
Y TÉCNICAS AFINES · SECyTA 2018

XVIII SCIENTIFIC MEETING OF THE  
SPANISH SOCIETY OF CHROMATOGRAPHY  
AND RELATED TECHNIQUES · SECyTA 2018