



12º ENCONTRO NACIONAL

# CROMA- TOGRAFIA

6 > 8 dez'22

SCIENTIFIC AND SOCIAL PROGRAM

UNIVERSIDADE DE AVEIRO



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December 6<sup>th</sup>

**Rectorate Building  
(Building 25 - UA campus map)**

8h00	Registration Hall of the Rectorate Building	
	Auditério Renato Araújo	
9h00	Opening session	
9h15	PL1	
10h00	KN1	
	Auditério Renato Araújo	Sala do Senado
10h30	OC1	OC6
10h45	OC2	OC7
11h00 – 11h30: Coffee break & Poster session Hall of the Rectorate Building		
11h30	OC3	OC8
11h45	OC4	OC9
12h00	OC5	OC10
12h15	Sponsor 1	
12h45 – 14h15: Lunch break Hall of the Rectorate Building		
	Auditério Renato Araújo	
14h15	PL2	
15h00	KN2	
	Auditério Renato Araújo	Sala do Senado
15h30	OC11	OC14
15h45	OC12	OC15
16h00	OC13	OC16
16h15	Sponsor 2	Sponsor 3
16h45 – 17h15: Coffee break & Poster session Hall of the Rectorate Building		
17h15	Round table: Chromatography: do the current developments respond to future challenges?	
18h30	Welcome Reception: Port Wine and Ovos Moles de Aveiro degustation under a particular musical moment Hall of the Rectorate Building	

December 7<sup>th</sup>

**Department of Environment and Planning  
(Building 7 - UA campus map)**

8h00	Registration Entrance of the Department of Environment and Planning (Building 7 - UA campus map)	
	Auditério Carlos Borrego	
9h00	PL3	
9h45	KN3	
10h15	OC17	
10h30	OC18	
10h45	OC19	
11h00 – 11h45: Coffee break & Poster session Hall of the Rectorate Building		
11h45	OC20	
12h00	OC21	
12h30	Sponsor 4	
12h45 – 14h15: Lunch break Hall of the Rectorate Building		
	Auditério Carlos Borrego	
	<b>XIV WARPA</b> <i>Recent advances on sample preparation</i>	
14h15	Opening session and announcement of the award Janusz Pawliszyn medal	
14h30	KN4	
15h00	KN5	
15h30	KN6	
16h00 – 16h30: Coffee break & Poster session Hall of the Rectorate Building		
16h30	KN7	
17h00	KN8	
17h30	OC22	
17h45	OC23	
18h00	Closing session of XIV WARPA	
18h00	Meeting of the Chromatography Group members – SPQ Auditério Carlos Borrego	
		
20h30	Gala Dinner with a special entertainment moment Meliá Ria Hotel & Spa	

December 8<sup>th</sup>

**Rectorate Building  
(Building 25 - UA campus map)**

8h00	Registration Hall of the Rectorate Building	
	Auditério Renato Araújo	
9h00	PL4	
9h45	KN9	
	Auditério Renato Araújo	Sala de Atos
10h15	OC24	OC27
10h30	OC25	OC28
10h45	OC26	OC29
11h00 – 11h30: Coffee break & Poster session Hall of the Rectorate Building		
11h30	FC01	FC06
11h35	FC02	FC07
11h40	FC03	FC08
11h45	FC04	FC09
11h50	FC05	FC10
11h55	Discussion on Flash Communications	Discussion on Flash Communications
12h10	Sponsor 5	Sponsor 6
12h45 – 14h15: Lunch break Hall of the Rectorate Building		
	Auditério Renato Araújo	
14h15	PL5	
15h00	Sponsor 7	
	Auditério Renato Araújo	Sala de Atos
15h30	OC30	OC34
15h45	OC31	OC35
16h00	OC32	OC36
16h15	OC33	OC37
16h30	Closing session and announcement of the award communications and the next 13ENC	

## CONGRESS INFO

### Congress Office

December 6<sup>th</sup> and 8<sup>th</sup>: The Congress Office is located at the entrance of the Rectorate Building – building 25 at the UA campus map.

December 7<sup>th</sup>: The Congress Office is located at the entrance of the Department of Environment and Planning – building 7 at the UA campus map.

### Opening hours

December 6<sup>th</sup> and 7<sup>th</sup>: From 8h00 to 18h30

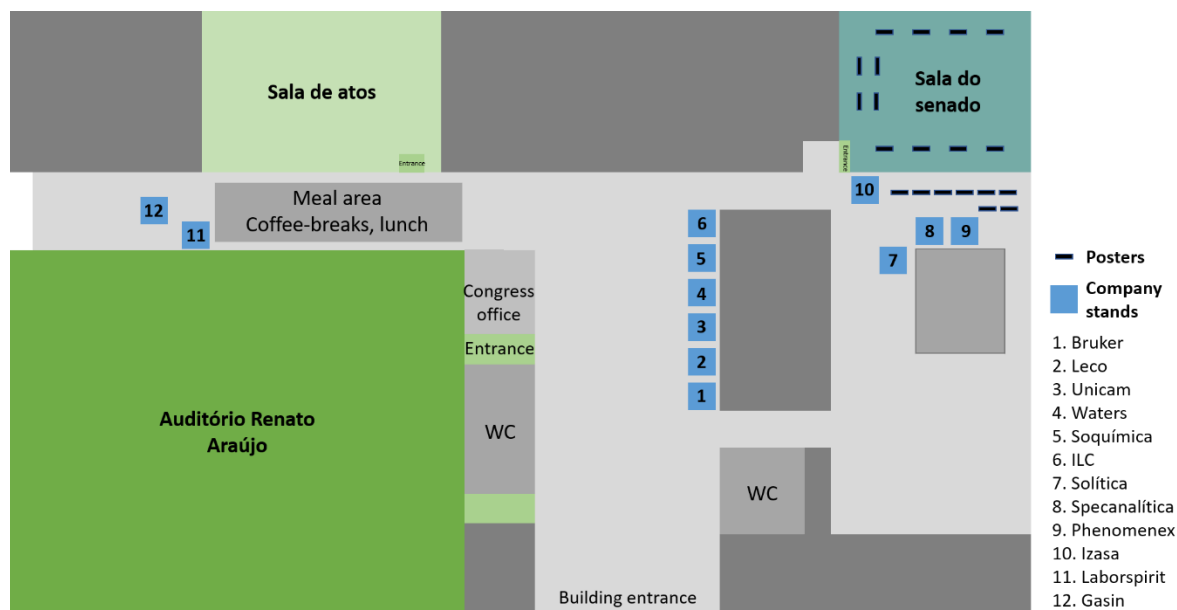
December 8<sup>th</sup>: From 8h00 to 16h30

## UA campus



**Main congress area**

December 6<sup>th</sup> to 8<sup>th</sup>: Location of the coffee-breaks, lunches, sponsors and posters exhibitions during all the three days of the conference.



## SCIENTIFIC AND SOCIAL PROGRAM

December 6<sup>th</sup>

Auditório Renato Araújo (25 Rectorate Building)

8h00	<b>Registration</b>
9h00	<p><b>Opening session</b>            Artur M. S. Silva  <i>President of the Chemical Portuguese Society</i>  <i>Vice-rector for Research, Innovation and Training of the 3rd Cycle, University of Aveiro</i>  <i>Coordinator of the LAQV/REQUIMTE (University of Aveiro)</i>            Armando J. D. Silvestre  <i>Head of the Chemistry Department, University of Aveiro</i>            Sílvia M. Rocha  <i>Chair of the 12<sup>o</sup> ENC, LAQV/REQUIMTE &amp; Department of Chemistry, University of Aveiro</i></p>
<b>Session 1: Chairs Sílvia M. Rocha &amp; Maria do Rosário Bronze</b>	
9h15	<p><b>PL1 - Are the “applications of the future” the key to unlocking the deserved success of GC×GC?</b>            Chiara Cordero  <i>Dipartimento di Scienza e Tecnologia del Farmaco, Università degli Studi di Torino, Italy</i></p>
10h00	<p><b>KN1 - Bioactive compounds from natural resources: from bioprospection to innovative processes and applications</b>            Sónia Santos  <i>CICECO-Aveiro Institute of Materials, University of Aveiro, Portugal</i></p>
10h30	<p><b>OC1 - How hops or blended hops are related to beer terpenic volatile composition?</b>            Cátia Martins  <i>Department of Chemistry &amp; LAQV/REQUIMTE, University of Aveiro, Portugal</i></p>
10h45	<p><b>OC2 - The potential of comprehensive two-dimensional gas chromatography in the disclosure of broas volatile composition</b>            Andreia Leonor Vieira Bento da Silva  <i>Faculdade de Farmácia, Universidade de Lisboa, Portugal</i></p>
<b>11h00 – 11h30: Coffee break &amp; Poster session</b>	
<b>Session 2: Chair Manuel António Coimbra</b>	
11h30	<p><b>OC3 - Assessment of the volatile profile of Alentejo varietal wines by HS-GC/ToFMS with multivariate chemometric analysis</b>            Catarina Correia da Cruz Pereira Mendes  <i>MED - Mediterranean Institute for Agriculture, Environment and Development &amp; Institute for Advanced Studies and Research, Universidade de Évora, Portugal</i></p>
11h45	<p><b>OC4 - <i>Thymbra capitata</i> L. essential oil and hydrodistillation residual water: Phytochemical characterization by GC-MS and HPLC-PDA-ESI-MSn and evaluation of the antioxidant, anti-inflammatory and wound healing properties</b>            Sónia Raquel Jorge Pedreiro  <i>Faculty of Pharmacy, University of Coimbra, Portugal</i></p>
12h00	<p><b>OC5 - Anti-glycative effect of phenolic compounds from <i>Sambucus nigra</i> L. by trapping methylglyoxal</b>            Sandrine dos Santos Ferreira  <i>Chemistry Research Centre-Vila Real (CQ-VR), University of Trás-os-Montes and Alto Douro, Portugal</i></p>

12h15	<p><b>Sponsor 1 - Bruker timsTOF: New 4D-applications by Trapped Ion Mobility High Resolution MS</b></p> <p>Rui Rocha <i>Bruker Portugal</i></p>
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### Sala do Senado (25 Rectorate Building)

Session 3: Chair Maria João Cabrita	
10h30	<p><b>OC6 - Analysis of volatile compounds of sparkling wines: the effect of using free and immobilized yeasts combined with traditional and Charmat methodologies</b></p> <p>Davide Miguel da Silva Correia Mendes <i>Departamento de Química &amp; LAQV-REQUIMTE, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, Portugal</i></p>
10h45	<p><b>OC7 - Determination of selected carbonyl compounds in Port wines by reductive amination of aldehyde 2,4-dinitrophenylhydrazones using cyanoborohydride</b></p> <p>Juliana Milheiro Ferreira <i>CQ-VR - Chemistry Research Centre - Vila Real, Portugal</i></p>
11h00 – 11h30: Coffee break & Poster session	
Session 4: Chair Maria João Cabrita	
11h30	<p><b>OC8 - Gas chromatography and chemical sensors as reliable tools for the assessment of adulterations in coffee</b></p> <p>Maria Carolina Pinho Loura <i>Department of Chemistry &amp; LAQV/REQUIMTE &amp; CESAM, University of Aveiro, Portugal</i></p>
11h45	<p><b>OC9 - Liquid and gas chromatography as a tool for the characterization of <i>Fucus vesiculosus</i>-rich extracts as potential food ingredients</b></p> <p>Ana Rita Sousa Circunção <i>Department of Chemistry &amp; LAQV/REQUIMTE, University of Aveiro, Portugal</i></p>
12h00	<p><b>OC10 - Development of statin-like and ergosterol enriched extracts from mushroom bio residues</b></p> <p>Jonata M. Ueda <i>CIMO &amp; SusTEC, Instituto Politécnico de Bragança, Portugal</i></p>

### 12h45 – 14h15: Lunch break

### Auditório Renato Araújo (25 Rectorate Building)

Session 5: Chair José S. Câmara & Ana Maria Loureiro da Seca	
14h15	<p><b>PL 2 - Quo Vadis Indoor Air Quality?</b></p> <p>Agapios Agapiou <i>Department of Chemistry, University of Cyprus, Nicosia, Cyprus</i></p>
15h00	<p><b>KN2 - "Catch me if you can!!" – Illicit substances detection for forensic purposes</b></p> <p>André Lobo Castro <i>Forensic Chemistry and Toxicology Service, National Institute of Legal Medicine and Forensic Sciences - North Delegation, Porto, Portugal</i></p>
15h30	<p><b>OC11 - Headspace-solid phase microextraction coupled with gas-chromatography as a useful tool to detect volatile compounds in a pulmonary arterial hypertension pre-clinical model</b></p> <p>Jorge Miguel Alves-Silva <i>Faculty of Pharmacy, University of Coimbra, Portugal</i></p>



15h45	<b>OC12 - Chromatographic-mass spectrometry methods for risk evaluation of anthropogenic and natural contaminants in raw milk</b> Marta Sofia Carvalho Ferreira Malheiro Leite <i>Faculty of Pharmacy, University of Coimbra &amp; INIAV &amp; REQUIMTE/LAQV, Porto, Portugal</i>
16h00	<b>OC13 - Treatment of wastewater effluents using nanofiltration and low pressure UV treatment to produce high quality water that can be reused for irrigation for food production</b> Vanessa Jorge Pereira <i>iBET, Instituto de Biologia Experimental e Tecnológica, Portugal</i>
16h15	<b>Sponsor 2 - Low Adsorption UPLC Systems and Columns to solve challenges in HPLC separations of metal-sensitive analytes</b> Sandra Cachopo <i>Waters Technologies LCMS Portugal</i>

### Sala do Senado (25 Rectorate Building)

Session 6: Chair Ofélia Anjos	
15h30	<b>OC14 - Development of a solid phase extraction methodology for pharmaceuticals quantification by HPLC using waste-based sorbents</b> Alexandr Stratulat <i>Department of Chemistry, University of Aveiro, Portugal</i>
15h45	<b>OC15 - Removal of estrogens from water using activated carbon from olive stone</b> Eduardo Candido Milani <i>Centro de Investigação de Montanha (CIMO), Instituto Politécnico de Bragança, Portugal</i>
16h00	<b>OC16 - Bioaccessibility determination of omega-3 and conjugated linolenic acid using an in vitro standardized digestion model (INFOGEST) by GC-FID</b> Ana Sofia Salsinha <i>Universidade Católica Portuguesa, CBQF - Centro de Biotecnologia e Química Fina – Laboratório Associado, Escola Superior de Biotecnologia, Portugal</i>
16h15	<b>Sponsor 3 - Analysis of flavour compounds in milk flavourings by SPME-GC-MS</b> João Maria Lopes da Cunha Cappelle Teixeira <i>Specanalítica</i>

**16h30 – 17h00: Coffee break & Poster session**

### Auditório Renato Araújo (25 Rectorate Building)

17h15	<b>Roundtable: Chromatography: do the current developments respond to future challenges?</b> <b>André Lobo Castro</b> , Forensic Chemistry and Toxicology Service, National Institute of Legal Medicine and Forensic Sciences - North Delegation <b>Cristina Fernandes</b> , Sogrape Vinhos, S.A. <b>Hugo Rocha</b> , Newborn Screening, Metabolism and Genetics Unit Human Genetics Department, National Institute of Health Doutor Ricardo Jorge <b>Regina Duarte</b> , CESAM & Department of Chemistry, University of Aveiro <b>Vítor Vale Cardoso</b> , Organic Chemistry Area of the EPAL Water Analysis Laboratory <b>Moderator:</b> Journalist Elsa Silva Santos, University of Aveiro
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**18h30** - Welcome Reception: Port Wine and Ovos Moles de Aveiro degustation under a particular musical moment

December 7<sup>th</sup>

**Auditório Carlos Borrego (7 Department of Environment and Planning)**

8h00	<b>Registration</b>
<b>Session 7: Chairs Marco Gomes da Silva &amp; Renato Zanella</b>	
9h00	<b>PL3 - From LC to LC×LC in environmental analysis: A timeline overview to identify bottlenecks and trends</b> Armando da Costa Duarte <i>Department of Chemistry &amp; CESAM, University of Aveiro, Portugal</i>
9h45	<b>KN3 - Organic compounds in primitive extraterrestrial bodies – challenges in sampling and analysis</b> Zita Martins <i>Instituto Superior Técnico, IST, Lisbon, Portugal</i>
10h15	<b>OC17 - Chromatography for the analysis and purification of phenolic compounds</b> Joana Oliveira <i>LAQV-REQUIMTE, Faculdade de Ciências, Universidade do Porto, Portugal</i>
10h30	<b>OC18 - Modified capillary column for comprehensive two-dimensional liquid chromatographic separation of complex environmental matrices</b> Pedro Francisco da Silva Brandão <i>Department of Chemistry &amp; CESAM, University of Aveiro, Aveiro, Portugal</i>
10h45	<b>OC19 - Unraveling the metabolites of N-ethylpentylone in mice serum and urine</b> Andreia Leonor Vieira Bento da Silva <i>Faculdade de Farmácia, Universidade de Lisboa, Portugal</i>
<b>11h00 – 11h45: Coffee break &amp; Poster session</b>	
<b>Session 8: Chair Cristina Barrocas Dias</b>	
11h45	<b>OC20 - Development of a GDME-HPLC-DAD-MS/MS methodology for the extraction and identification of volatile carbonyl compounds in wood-based panels</b> Rui Miguel Castro Ramos <i>Departamento de Química e Bioquímica &amp; LAQV-REQUIMTE, Faculdade de Ciências, Universidade do Porto, Portugal</i>
12h00	<b>OC21 - A fast analytical approach based on <math>\mu</math>SPEed/UHPLC-PDA for the simultaneous determination of pesticides in wastewaters</b> Jorge Augusto Machado Pereira <i>CQM-UMa, Centro de Química da Madeira, Portugal</i>
12h15	<b>Sponsor 4 - Two-dimensional gas chromatography for food analysis. The ultimate challenge: MOSH&amp;MOAH determination</b> Julio Lluch <i>LECO Instrumentos</i>
<b>12h45 – 14h15: Lunch break</b>	

**Auditório Carlos Borrego (7 Department of Environment and Planning)**

<b>XIV WARPA</b>	
<b>Session 9</b>	
14h15	<p><b>Opening session and announcement of the award <i>Janusz Pawliszyn medal</i></b>                      Maria Eugénia C. Queiroz &amp; José Manuel Nogueira  <i>WARPA Scientific Committee</i>                      Artur M. S. Silva  <i>President of the Chemical Portuguese Society</i>                      Vice-rector for Research, Innovation and Training of the 3rd Cycle, University of Aveiro                      Coordinator of the LAQV/REQUIMTE (University of Aveiro)                      Armando J. D. Silvestre                      Head of the Chemistry Department, University of Aveiro</p>
Chair Marco Gomes da Silva	
14h30	<p><b>KN4 - Bioanalysis of biomarkers for neurodegenerative diseases by In-tube SPME-LC-MS/MS</b>                      Maria Eugénia C. Queiroz  <i>Department of Chemistry, Faculty of Philosophy Sciences and Letters, University of São Paulo, Ribeirão Preto, SP, Brazil</i></p>
15h00	<p><b>KN5 - Complete automation for complex online sample preparation approaches using robotic and non-robotic systems</b>                      Fernando Mauro Lanças  <i>Institute of Chemistry of the University of São Paulo in São Carlos, Brazil</i></p>
15h30	<p><b>KN6 - Future challenges for passive microextraction techniques</b>                      José Manuel Nogueira  <i>Department of Chemistry and Biochemistry, Faculty of Science, University of Lisbon, Portugal</i></p>
<b>16h00 – 16h30: Coffee break &amp; Poster session</b>	
<b>Session 10: Chair Regina Duarte</b>	
16h30	<p><b>KN7 - Sample treatment and bead injection: <i>Quo vadis?</i></b>                      Marcela Segundo  <i>Faculty of Pharmacy &amp; LAQV/REQUIMTE, University of Porto, Portugal</i></p>
17h00	<p><b>KN8 - Analytical challenges for the determination of pesticide residues in complex matrices</b>                      Renato Zanella  <i>Department of Chemistry, Federal University of Santa Maria, Santa Maria – RS, Brazil</i></p>
17h30	<p><b>OC22 - Monitoring of Bladder Cancer Patients Through the Urinary Proteome</b>                      Hugo M. Santos  <i>BIOSCOPE Research Group, LAQV-REQUIMTE, Chemistry Department, FCT-NOVA, Lisbon, Portugal</i></p>
17h45	<p><b>OC23 - Bioanalytical method using DLLME and LC-MS/MS to determine doxycycline residues in fish</b>                      Marina Alves Damaceno  <i>Department of biomolecular Sciences, School of Pharmaceutical Sciences of Ribeirao Preto, University of Sao Paulo, Brazil</i></p>
18h00	<p><b>Closing session of XIV WARPA</b></p>
<b>18h15</b>	Meeting of the Cromatography Group members – SPQ (Auditório Carlos Borrego)
<b>20h30</b>	Gala dinner: Meliá Ria Hotel & Spa

December 8<sup>th</sup>

**Auditório Renato Araújo (25 Rectorate Building)**

8h00	<b>Registration</b>
<b>Session 11: Chairs José Manuel Nogueira &amp; Regina Duarte</b>	
9h00	<b>PL4 - Prescriptomics: where do we stand now?</b> José Luis Capelo Martínez <i>BIOSCOPE Research Group, LAQV-REQUIMTE, Chemistry Department, FCT-NOVA, Portugal</i>
9h45	<b>KN9 - Development and optimization of a targeted GC-MS metabolomics-based approach to study dendritic cells deficient of the subunit A of Succinate Dehydrogenase</b> Annalaura Mastrangelo <i>Spanish National Center for Cardiovascular research, Spain</i>
10h15	<b>OC24 - Encapsulation efficiency measurements on polymeric and lipid drug-delivery nanocarriers: are we there yet?</b> Sara Cristina da Silva Marques <i>LAQV/REQUIMTE &amp; Chemical Sciences Department, Faculty of Pharmacy, University of Porto, Portugal</i>
10h30	<b>OC25 - Semi-preparative enantioseparation of cathinone derivatives on amylose-derived LC columns and binding studies to human serum albumin by HPLC</b> Carla Sofia Garcia Fernandes <i>CIIMAR &amp; Departamento de Ciências Químicas, Faculdade de Farmácia, Universidade do Porto, Portugal</i>
10h45	<b>OC26 - Anticancer drugs in the aquatic environment: where should we act and is membrane filtration a solution to this problem?</b> Maria do Rosário Bronze <i>iBET &amp; Faculdade de Farmácia, Universidade de Lisboa, Portugal</i>
<b>11h00 – 11h30: Coffee break &amp; Poster session</b>	
<b>Session 12: Maria Eugênia Queiroz</b>	
11h30	<b>FC01 - Multi-detection and quantification of pharmaceuticals residues in seafood by a liquid- chromatography tandem mass spectrometry method</b> Sara Cunha <i>LAQV/REQUIMTE, Faculty of Pharmacy, University of Porto, Portugal</i>
11h35	<b>FC02 - Multi-detection of pharmaceuticals in environment matrices by UHPLC-ToF-MS</b> Andreia Alexandra Ribeiro Freitas <i>INIAV &amp; LAQV/REQUIMTE, Porto, Portugal</i>
11h40	<b>FC03 - Advances in the extraction of antibiotics from hen eggs</b> Érica Cortez de Lima <i>INIAV &amp; Faculty of Pharmacy, University of Porto, Portugal</i>
11h45	<b>FC04 - Development and validation of a method for sugar analysis by HPLC-ELSD</b> Pedro Filipe Rodrigues Lopes <i>Super Bock Group &amp; LAQV/REQUIMTE, Departamento de Química e Bioquímica, Universidade do Porto, Portugal</i>
11h50	<b>FC05 - Comparison of microwave assisted and conventional solid-liquid techniques for the chlorogenic acids extraction from silverskin: an analysis by HPLC-DAD</b> Marlene Conceição Pereira Machado <i>REQUIMTE/LAQV, Faculty of Pharmacy, University of Porto, Portugal</i>

11h55	<b>Discussion on Flash Communications</b>
12h10	<b>Sponsor 5 - Polar Pesticides Anions in water and food using a UHPLC or Ion Chromatography Hypehenated with Orbitrap HRMSMS or Multiplexing HR-SIM</b> Daniel Ettlin <i>Unicam Sistemas Analíticos</i>

**Sala de Atos (25 Rectorate Building)**

<b>Session 13: Chair José Maria Oliveira</b>	
10h15	<b>OC27 - Profiling the phlorotannin composition from <i>Laminaria digitata</i> before and after gastrointestinal digestion</b> Marcelo Dias Catarino <i>Department of Chemistry &amp; LAQV/REQUIMTE, University of Aveiro, Portugal</i>
10h30	<b>OC28 - Regimes de fertilização por medida como estratégias para o incremento da composição fenólica: estudo de caso em <i>Cichorium spinosum</i> L.</b> Maria Inês Moreira Figueiredo Dias <i>Centro de Investigação de Montanha (CIMO), Instituto Politécnico de Bragança, Portugal</i>
10h45	<b>OC29 - HPAEC-PAD as a tool towards the characterization and design of novel carbohydrate-based sweeteners</b> Pedro António Rodrigues Fernandes <i>Department of Chemistry &amp; LAQV/REQUIMTE, University of Aveiro, Portugal</i>
<b>11h00 – 11h30: Coffee break &amp; Poster session</b>	
<b>Session 14: Chair José Maria Oliveira</b>	
11h30	<b>FC06 - Comprehensive two-dimensional gas chromatography as a tool to unveil the volatile profile of grape spirits used in Port wine fortification</b> Sónia Ribeiro <i>Department of Chemistry &amp; LAQV/REQUIMTE, University of Aveiro, Portugal</i>
11h35	<b>FC07 - Phenolic profile and bioactive potential of cardoon (<i>Cynara cardunculus</i> L.) inflorescences: selection of the best genotype for food application</b> Ana Filipa Mandim Pires <i>Centro de Investigação de Montanha (CIMO), Instituto Politécnico de Bragança, Portugal</i>
11h40	<b>FC08 - Salt pan brine water glycans: complementary characterization by GC-FID and HPAEC-PAD</b> Sónia dos Santos Ferreira <i>Department of Chemistry &amp; CICECO, University of Aveiro, Portugal</i>
11h45	<b>FC09 - Perfil lipídico de óleos de subprodutos de peixe obtidos por extração assistida por micro-ondas e Soxhlet</b> José Virgílio Santulhão Pinela <i>Centro de Investigação de Montanha (CIMO), Instituto Politécnico de Bragança, Portugal</i>
11h50	<b>FC10 - GC×GC-ToFMS analysis of passion fruit volatile profile: a step to unveiling consumers aroma perception</b> Alexandre Miguel Alves Fonseca <i>Department of Chemistry &amp; LAQV/REQUIMTE, University of Aveiro, Portugal</i>
11h55	<b>Discussion on Flash Communications</b>
12h10	<b>Sponsor 6 - A importância dos gases BIP na cromatografia</b> Fernando Lourenço <i>Gasin, Gases Industriais</i>

**12h40 – 14h15: Lunch break**

### Auditório Renato Araújo (25 Rectorate Building)

<b>Session 15: Chairs Armando Silvestre &amp; Marcela Segundo</b>	
14h15	<b>PL 5 - Down to Earth</b> Geraint Morgan <i>Department of Physical Sciences, The Open University, UK</i>
15h00	<b>Sponsor 7 - Analytical tools to discover more in complex samples – from high-capacity sorptive extraction to GC×GC</b> Carlos Gil Zapico <i>Schauenburg Analytics</i>
15h30	<b>OC30 - Digestion of a phenolic-rich extract from extra virgin olive oil using a dynamic <i>in vitro</i> gastrointestinal model: exploring the metabolomic profile</b> Elsa Velez Mecha <i>ITQB &amp; iBET, Instituto de Biologia Experimental e Tecnológica, Portugal</i>
15h45	<b>OC31 - Brewer's spent yeast gluco-oligosaccharide profiling by High-Performance Anion-Exchange Chromatography with Pulsed Amperometric Detection (HPAEC-PAD)</b> Elisabete Verde Martins Coelho <i>Department of Chemistry &amp; LAQV/REQUIMTE, University of Aveiro</i>
16h00	<b>OC32 - Use of shotgun proteomics for the assessment of the chemical composition of biscuits melanoidins</b> João Rafael Rodrigues Siopa <i>Chemistry Research Centre-Vila Real (CQ-VR), University of Trás-os-Montes and Alto Douro, Portugal</i>
16h15	<b>OC33 - Chromatographic approaches to study pine nut skin: exploitation of its composition and bioactivities</b> Ana Soraia Pires Silva <i>Department of Chemistry &amp; LAQV/REQUIMTE, University of Aveiro, Portugal</i>
16h30	<b>Closing session and announcement of the award communications and the next 13ENC</b>

### Sala de Atos (25 Rectorate Building)

<b>Session 16: Chair Sónia Santos</b>	
15h30	<b>OC34 - Fig (<i>Ficus carica</i> L.) bioresidues: A chromatographic study of five varieties for its valorization</b> Carlos Seiti Shiraishi <i>Centro de Investigação de Montanha (CIMO), Instituto Politécnico de Bragança, Portugal</i>
15h45	<b>OC35 - Impact of growth medium salinity on galactoxylan exopolysaccharides of <i>Porphyridium purpureum</i></b> Andreia Filipa Sousa Ferreira <i>Department of Chemistry &amp; LAQV/REQUIMTE, University of Aveiro</i>
16h00	<b>OC36 - How do extraction methodologies influence the biological properties of pomegranate leaves?</b> Sandra Andreia Gonçalves Marcelino <i>Centro de Investigação de Montanha (CIMO), Instituto Politécnico de Bragança, Portugal</i>
16h15	<b>OC37 - Establishment of the volatile fingerprint of the PDO pear "Pera Rocha do Oeste" by HS-SPME/GC×GC-ToFMS</b> Ana Maria Simões da Costa <i>Department of Chemistry &amp; LAQV/REQUIMTE, University of Aveiro, Portugal</i>



## LIST OF THE PLENARYS

Number	Title and authors
PL1	<b>Are the “applications of the future” the key to unlocking the deserved success of GC×GC?</b> Chiara Cordero
PL2	<b>Quo Vadis Indoor Air Quality?</b> Agapios Agapiou
PL3	<b>From LC to LC×LC in environmental analysis: A timeline overview to identify bottlenecks and trends</b> Armando da Costa Duarte
PL4	<b>Prescriptomics: where do we stand now?</b> José Luis Capelo Martínez
PL5	<b>Down to Earth</b> Geraint Morgan



## LIST OF THE KEYNOTES

Number	Title and authors
KN1	<b>Bioactive compounds from natural resources: from bioprospection to innovative processes and applications</b> Sónia Santos
KN2	<b>"Catch me if you can!!" – Illicit substances detection for forensic purposes</b> André Lobo Castro
KN3	<b>Organic compounds in primitive extraterrestrial bodies – challenges in sampling and analysis</b> Zita Martins
KN4	<b>Bioanalysis of biomarkers for neurodegenerative diseases by In-tube SPME-LC-MS/MS</b> Maria Eugénia C. Queiroz
KN5	<b>Complete automation for complex online sample preparation approaches using robotic and non-robotic systems</b> Fernando Mauro Lanças
KN6	<b>Future challenges for passive microextraction techniques</b> José Manuel Nogueira
KN7	<b>Sample treatment and bead injection: <i>Quo vadis?</i></b> Marcela Segundo
KN8	<b>Analytical challenges for the determination of pesticide residues in complex matrices</b> Renato Zanella
KN9	<b>Development and optimization of a targeted GC-MS metabolomics-based approach to study dendritic cells deficient of the subunit A of Succinate Dehydrogenase</b> Annalaura Mastrangelo





## LIST OF THE SPONSORS LECTURES

Number	Title and authors
S1	<b>Bruker timsTOF: New 4D-applications by Trapped Ion Mobility High Resolution MS</b> Rui Rocha (Bruker, Portugal)
S2	<b>Low Adsorption UPLC Systems and Columns to solve challenges in HPLC separations of metal-sensitive analytes</b> Sandra Cachopo (Waters Technologies LCMS Portugal)
S3	<b>Analysis of flavour compounds in milk flavourings by SPME-GC-MS</b> João Maria Lopes da Cunha Cappelle Teixeira (Specanalítica)
S4	<b>Two-dimensional gas chromatography for food analysis. The ultimate challenge: MOSH&amp;MOAH determination</b> Julio Lluch (LECO Instrumentos)
S5	<b>Polar Pesticides Anions in water and food using a UHPLC or Ion Chromatography Hypehenated with Orbitrap HRMSMS or Multiplexing HR-SIM</b> Daniel Ettlin (Unicam Sistemas Analíticos)
S6	<b>A importância dos gases BIP na cromatografia</b> Fernando Lourenço (Gasin, Gases Industriais)
S7	<b>Analytical tools to discover more in complex samples – from high-capacity sorptive extraction to GCxGC</b> Carlos Gil Zapico (Schauenburg Analytics)

## LIST OF THE POSTERS

Number	Title and authors
P01	<b>Development and validation of an UHPLC-UV method for MDPV quantification to evaluate enantioselectivity on their absorption using the Caco-2 cell line</b> <u>Ana Sofia Almeida</u> , Bárbara Silva, Sara Cravo, Fernando Remião, Carla Fernandes
P02	<b>Nicotine-like insecticides a new environmental concern</b> <u>Pedro Antunes</u> , Ana Cláudia Gama, Margarida Pereira, Margarida Martins
P03	<b>Fatty acid profile of subcutaneous and visceral adipose tissue from north portuguese obese women</b> <u>Sara Sousa</u> , Diogo Pestana, Gil Faria, Conceição Calhau, Cristina Delerue-Matos, Valentina Fernandes Domingues
P04	<b>Polycyclic aromatic hydrocarbons analysis in human adipose tissue by HPLC – Analyte loss evaluation during extraction and sample preparation</b> <u>Sara Sousa</u> , Paula Paíga, Maria João Ramalhosa, Diogo Pestana, Gil Faria, Conceição Calhau, Cristina Delerue-Matos, Valentina Fernandes Domingues
P05	<b>Effect of mobile phase composition on the separation between phosphatidylethanol (PEth) and phospholipid background using LC-MS/MS</b> <u>Marisa Henriques Maria</u> , Benedicte Marie Jørgenrud, Thomas Berg
P06	<b>Development of acid-chars for microextraction of micropollutants in water</b> <u>J. Cerqueira</u> , A.S. Mestre, N.R. Neng
P07	<b>Application of a GC-MS metabolomics approach to reveal how sub-toxic concentrations of ciprofloxacin affect the brain</b> <u>Ana Margarida Araújo</u> , Sandra Marques, Helena Carmo, Paula Guedes de Pinho, Félix Carvalho, João Pedro Silva
P08	<b>Quantification of urinary monohydroxyl-polycyclic aromatic hydrocarbons in firefighters participating in a controlled urban fire event</b> <u>Joana Teixeira</u> , Gabriel Sousa, Simone Morais, Cristina Delerue-Matos, Alice Santos-Silva, Francisca Rodrigues, Marta Oliveira
P09	<b>Chromatographic measurement of aldehydes and ketones diffusivities in compressed liquid ethanol</b> <u>Bruno Zêzere</u> , Inês Portugal, José R.B. Gomes, Carlos M. Silva
P10	<b>Caracterização cromatográfica de compostos bioativos obtidos a partir de casca, sementes e fibras remanescentes do aproveitamento industrial da polpa de abóbora</b> <u>Maria Gabriela Leichtweis</u> , Adriana K. Molina, Carla Pereira, Maria Inês Dias, M. Beatriz P.P. Oliveira, Isabel C.F.R. Ferreira, Lillian Barros
P11	<b>Caracterização fenólica (HPLC-DAD-ESI/MS) e bioativa de extratos ricos em moléculas conservantes</b> <u>Maria Gabriela Leichtweis</u> , Adriana K. Molina, Carla Pereira, Tânia C.S.P. Pires, Maria Inês Dias, Khaldoun Bachari, Borhane E.C. Ziani, M. Beatriz P.P. Oliveira, Isabel C.F.R. Ferreira, Lillian Barros
P12	<b>Analysis of the insecticide emamectin in cork trees after treatment</b> <u>João Brinco</u> , André Jorge, Sara Nunes, Paula Guedes, Marco Gomes da Silva, Eduardo Mateus, Maria Rosa Paiva, Alexandra B. Ribeiro
P13	<b>Removal of naproxen from water using adsorbents obtained from low-cost materials</b> <u>Eduardo Candido Milani</u> , Vinicius A. Reis, Paulo Brito, Ana Queiroz, António E. Ribeiro

P14	<b>Firefighters' exposure to PM2.5 and PM1 bound polycyclic aromatic hydrocarbons during a prescribed fire</b> <u>Joana Teixeira</u> , Simone Morais, Cristina Delerue-Matos, Marta Oliveira
P15	<b>Determination of multi-class contaminants in seafood by gas-chromatography mass spectrometry</b> <u>Sara C. Cunha</u> , Mateus Petrarca, José O. Fernandes
P16	<b>New insides into the analysis of phthalates esters</b> <u>Flávia Freitas</u> , Maria João Cabrita, Marco Gomes da Silva
P17	<b>Gas chromatography coupled to mass spectrometry (GC-MS) as a tool for the analysis of secondary metabolites in shrimp (<i>Litopenaeus vannamei</i>)</b> <u>Ana C. S. Veríssimo</u> , Benjamin Costas, Rui Rocha, Raquel Marçal, Sofia Guilherme, Mário Pacheco, Artur M. S. Silva, Diana C. G. A. Pinto
P18	<b>Methodology development using Ultra High-Performance Liquid Chromatography with Tandem Mass Spectrometry and Solid Phase Extraction for the analysis of urinary phthalates metabolites</b> <u>Valentina F. Domingues</u> , Luísa Correia-Sá, Paula Paíga, Sofia Almeida Costa, Duarte Torres, Cristina Delerue-Matos
P19	<b>Evaluation of fatty acid profile from wild <i>Columba oenas</i></b> <u>Valentina F. Domingues</u> , Stephanie Morais, Maria da Luz Maia, Mónica Rosas, Mário Quaresma, Cristina Delerue-Matos
P20	<b>Determination of benzophenone-type UV filters in environmental waters by bar adsorptive microextraction</b> Matilde Passos, Catarina Almeida, Samir M. Ahmad, <u>Nuno R. Neng</u>
P21	<b>Study of the lipophilic profile of <i>Caulerpa prolifera</i></b> Gonçalo P. Rosa, Maria do Carmo Barreto, Diana C. G. A. Pinto, <u>Ana M. L. Seca</u>
P22	<b>Liquid chromatography strategies for one health assessment</b> Andreia Freitas, <u>Érica Lima</u> , Marta Leite, Sara Leston, Jorge Barbosa, Maria Beatriz Oliveira, Fernando Ramos
P23	<b>Encapsulation of anthraquinone dyes from <i>Rubia tinctorum</i> L. by freeze and spray-drying for application in the textile industry</b> <u>Carmo Serrano</u> , M. Conceição Oliveira, Margarida Sapata, Andreia Soares, Ana Dias
P24	<b>Análise de substâncias de abuso utilizando novas configurações "LC Tips" de microextração em fase sólida e cromatografia gasosa-espetrometria de massa: estudo de prova de conceito</b> Beatriz M. Rodrigues, Samir M. Ahmad, <u>Eduardo Mateus</u>
P25	<b>Amanitin determination in bile samples by UHPLC-MS/MS and UHPLC-ToF-MS</b> Marta Leite, <u>Andreia Freitas</u> , Jorge Barbosa, Fernando Ramos
P26	<b>Casting light on the chemical characterization of Acacia pods</b> <u>Soraia Inês Pedro</u> , Tiago Fernandes, Alexandra Antunes, Jorge Gominho, Eugenia Gallardo, Ofélia Anjos
P27	<b>Vitamin E profile determination by HPLC-DAD-FLD and fatty acid composition by GC-FID in coffee pulp</b> <u>Marlene Machado</u> , Diana Melo, M. Beatriz P. P. Oliveira, Helena Ferreira, Rita C. Alves
P28	<b>Study of the insulin release profile from locust bean gum microparticles</b> <u>Miguel F. Galrinho</u> , Manuel A. Coimbra, Cláudia P. Passos
P29	<b>Development and optimization of a new method to determine antidepressants in oral fluid by microextraction by packed sorbent and analysis by GC-MS/MS</b> <u>Sofia Soares</u> , Tiago Rosado, Mário Barroso, Eugenia Gallardo

P30	<b>Determination of essential oils compounds responsible for anti-cellulite actions by GC-MS: pre and post encapsulation in <math>\beta</math>-cyclodextrin nanoparticles</b> Tiago Rosado, Amélia Santos, Lúcia Silva, Jesus Rodilla, <u>Sofia Soares</u> , Delfina Menezes, Fausta Parracho, Ana Gomes, Nuno Belino, Eugenia Gallardo
P31	<b>Quantification of amino acids from algae by HPLC</b> <u>Elisa Costa</u> , Fernanda Cosme, Fernando Nunes
P32	<b>Separation of betulinic and oleanolic acids by analytical and preparative liquid chromatography: experiments and modeling</b> Ivo S. Azenha, <u>José P.S. Aniceto</u> , Diogo P. Ribeiro, Adélio Mendes, Carlos M. Silva
P33	<b>Mapping the diversity of mono- and multi-varietal commercial Portuguese virgin olive oil in the phenolic composition</b> Dourado M, <u>Mecha E</u> , Silva S, Serra A.T., Bronze M.R.
P34	<b>Bioactive sterols from the macroalga <i>Codium tomentosum</i>: Sustainable extraction with eutectic solvents</b> <u>Judite Resende</u> , Filipe H. B. Sosa, João A. P. Coutinho, João Rocha, Armando J.D. Silvestre, Sónia A. O. Santos
P35	<b>Occurrence of plastic-related chemicals in soil samples from the Natural Park of Montesinho</b> Ariane Pereira, <u>Diana Rede</u> , Cristina Delerue-Matos, Virgínia Cruz Fernandes
P36	<b>UHPLC-DAD-MSn analysis of phenolic compounds bioavailability throughout in vitro simulated gastrointestinal digestion</b> <u>Adriana. C. S. Pais</u> , Ezequiel R. Coscueta, Maria Manuela Pintado, Armando J. D. Silvestre, Sónia A. O. Santos
P37	<b>Determinação de potenciais biomarcadores de infertilidade feminina: estudo piloto</b> Ana Teresa Brinca, <u>Ofélia Anjos</u> , Maria Manuel Casteleiro Alves, Ângela Sousa, António Hélio Oliani, Luiza Breitenfeld, Luís A. Passarinha, Ana Cristina Ramalinho, Eugenia Gallardo
P38	<b>Application of bar adsorptive microextraction (BA<math>\mu</math>E) to monitor trace levels of estrogens in environmental and forensic context</b> <u>M. F. Mendes</u> , N. R. Neng, J. M. F. Nogueira
P39	<b>Volatile profile of 15 monovarietal white wines produced from grapes cultivated in a hot and dry region of Portugal</b> Rita Roque, Ilda Caldeira, <u>Ofélia Anjos</u> , Sílvia Lourenço, João Amaral, Miguel Damásio, Ricardo Egípto, José Silvestre
P40	<b>Chromatographic profile of free sugars in fruits from five different varieties of <i>Ficus carica</i> L.</b> <u>Carlos S. H. Shiraishi</u> , Yosra Zbiss, Custódio Lobo Roriz, Marcio Caroch, Vasco da Cunha Mendes, Rui M. V. Abreu, Miguel A. Prieto, Sandrina Heleno, Lillian Barros
P41	<b>The use of HPAEC-PAD to evaluate alginate oligosaccharides to be used as clean label alternative in meat products</b> <u>Bernardo A. C. Ferreira</u> , Andreia S. Ferreira, Sónia S. Ferreira, Cláudia P. Passos, Elisabete Coelho, Cláudia Nunes, Manuel A. Coimbra
P42	<b>Mycotoxins as agricultural &amp; livestock biosecurity threats: Chromatographic assessment tools for maize</b> <u>Marta Leite</u> , Andreia Freitas, Jorge Barbosa, Fernando Ramos
P43	<b>Is spelt wheat a superior source of fructans than common wheat? A multivarietal survey by high-performance anion-exchange chromatography</b> Miguel Ribeiro, Daniela Ferreira, <u>João Siopa</u> , Marta Rodriguez-Quijano, Fernando M. Nunes
P44	<b>Determinação de canabinóides em amostras de urina por microextração em seringa empacotada e cromatografia gasosa-espetrometria de massa</b>



	Luana Rosendo, Tiago Rosado, Patrik Oliveira, Ana Simão, <u>Carlos A. L. Antunes</u> , Ofélia Anjos, Cláudia Margalho, Suzel Costa, Luís Passarinha, Mário Barroso, Eugenia Gallardo
P45	<b>Otimização de uma metodologia por microextração em seringa empacotada e cromatografia gasosa-espetrometria de massa em tandem para a identificação de arilciclohexaminas em amostras de cabelo</b> Patrik Oliveira, Ana Simão, Luana Rosendo, <u>Soraia Pedro</u> , Tiago Rosado, Maristela Andraus, Mário Barroso, Eugenia Gallardo
P46	<b>Preliminary chromatographic data of extracts and fractions of Panamanian geisha coffee</b> <u>Kilmara M. Abrego G.</u> , Estela Guerrero, Aracelly Vega, Abdy Morales, Hugo Alexis Sánchez-Martínez, Juan Antonio Morán-Pinzón, José Luis López-Pérez, Esther Del Olmo
P47	<b>Molecular, morphological and chemical diversity of two new species of Antarctic Diatoms, <i>Craspedostauros ineffabilis</i> sp. nov. and <i>Craspedostauros zucchellii</i> sp. nov.</b> Riccardo Trentin, Emanuela Moschin, André Duarte Lopes, Stefano Schiaparelli, <u>Luísa Custódio</u> , Isabella Moro
P48	<b>Optimal separation of polar anionic pesticides from fruits and vegetables with unique HPLC column selectivity</b> <u>Luigi Margarucci</u> , Aidan Harrison, Jorg Baute, Richard Jack, Ramkumar Dhandapani, Sean Orlowicz, Samuele Scurati
P49	<b>Contents of pottery vessels from the megalithic tomb of Zambujeiro, Portugal</b> Ana Fundurulic, Ana Manhita, Sérgio Martins, Leonor Rocha, Dora Teixeira, Alessandra Celant, Donatella Magri, <u>Cristina Barrocas Dias</u>
P50	<b>Influence of the maturation stages on the chemical composition and biological activity of cardoon seeds</b> <u>Filipa Mandim</u> , Spyridon A. Petropoulos, José Pinela, Maria Inês Dias, Marina Kostic, Marina Sokovic, Celestino Santos-Buelga, Isabel C.F.R. Ferreira, Lillian Barros
P51	<b>Evaluation of biogenic volatile organic compounds emitted from Mediterranean shrubs</b> <u>J. Cerqueira</u> , O.C. Gonçalves, N.R. Neng, J.M.F. Nogueira
P52	<b>Genetic information influence on phenolic composition and bioactivities of <i>Ceratonia siliqua</i> L. seeds</b> <u>Sandra Marcelino</u> , Filipa Mandim, Taofiq Oludemi, Maria Inês Dias, Paulo Barracosa, Miguel A. Prieto, Jesús Simal Gándara, Lillian Barros
P53	<b>Valorização dos efeitos antioxidantes e toxicidade “in vitro” dos extratos de <i>Bauhinia thonningii</i></b> Abdy J Morales, Nsevol Samba, Juan Morán Pinzón, Aldahir Mero Rios, Hugo Alexis Sánchez, Matilde L Matias, Lúcia A Silva, Cesar Raposo, <u>Jesus M Rodilla</u> , Estela Guerrero de León
P54	<b>Identification of microplastics in water and food using pyrolysis GC with high resolution Orbitrap mass spectrometry</b> <u>Daniel Ettlin</u> , Dominic Roberts
P55	<b>Assessment of the phenolic profile and antioxidant properties of strawberry fruit (<i>Fragaria x ananassa</i> Duch') bio-residues</b> <u>Maria Inês Dias</u> , Carla Pereira, Leonardo C. Gomes, Isabel C. F. R. Ferreira, Lillian Barros
P56	<b>Impact of chromatographic-based platforms in the progress of society, science, and technology</b> <u>José S. Câmara</u> , Cátia Martins, Jorge A.M. Pereira, Rosa Perestrelo, Sílvia M. Rocha
P57	<b>The significance of chromatography on disease diagnostics. The case study of prostate cancer</b> Guilia Riccio, Cristina Berenguer, Rosa Perestrelo, Jorge A. M. Pereira, Viviana Greco, <u>José S. Câmara</u>

P58	<b>Evaluation of different sample preparation procedures on extraction efficiency of five opium alkaloids from poppy seed tea</b> Gema Casado-Hidalgo, <u>R Perestelo</u> , S Morante-Zarcelero, I Sierra, JS Câmara
P59	<b>The Madeira wine aroma - from glass to consumer. A chromatographic-based approach</b> Teresa Abreu, <u>Rosa Perestrelo</u> , JS Câmara
P60	<b>Análise cromatográfica da composição química de conservas à base de trigo</b> Cláudia Novais, <u>Carla Pereira</u> , Leticia Álvarez Rodríguez, Margarita Barrero Antón, Lillian Barros
P61	<b>Chemical profile and proximate composition of 'Fragaria x ananassa Duch' fruit bioresidues</b> Leonardo Corrêa Gomes, <u>Carla Pereira</u> , Maria Inês Dias, Isabel C.F.R. Ferreira, Lillian Barros
P62	<b>From cork stoppers to sparkling wine – The impact of different cork stoppers in the aroma profile</b> <u>Sara Sofia Pinheiro</u> , Flávia Freitas, Francisco Campos, Paulo Lopes, Miguel Cabral, Marco Gomes da Silva
P63	<b>Analytical quality by design approach for selecting the optimal RP-HPLC conditions for the determination of clobetasol in cream formulation</b> <u>Lucas Chiarentin</u> , Catarina Cardoso, Carla Vitorino
P64	<b>Analytical method for determination of levamisole in fish feed by LC-MS/MS</b> Lucas Victor Pereira de Freitas, Ana Luísa Bigliassi Alponi, <u>Marina Alves Damaceno</u> , Sarah Chagas Campanharo, Agnaldo Fernando Baldo da Silva, Susanne Rath, Jonas Augusto Rizzato Paschoal
P65	<b>The chromatographic analysis techniques and fatty acids to unlock secrets of meagre migrations</b> <u>André Jorge</u> , João Pedro Marques, Ana Gomes-Bispo, Narcisa M. Bandarra, Bernardo Quintella, Marco D. R. Gomes da Silva, M. João Lança
P66	<b>Optimization of a GDME-HPLC-DAD methodology for the extraction of volatile organic compounds from wood-based panels</b> <u>Fátima Daniela Gonçalves</u> , José António Rodrigues, Rui Miguel Ramos
P67	<b>Pesticide multiresidue determination in tomato using dilution of QuEChERS raw extracts and UHPLC-MS/MS</b> Fabiane M. Stringhini, Cleusa F. Zanchin, Luana Floriano, Pimperelli J. dos Santos, Martha B. Adaime, <u>Renato Zanella</u>
P68	<b>Optimization of a semi-preparative liquid chromatography method to produce analytical standards of dicaffeoylquinic acid isomers from yerba mate</b> <u>Tayse Ferreira F. da Silveira</u> , Adriana D. Meinhart, Helena T. Godoy
P69	<b>HPLC-DAD-(ESI)-MS/MS analysis as the first step to metabolic fingerprinting of medicinal herbs: the case of underexploited Euphorbia species</b> <u>Tayse F. Ferreira da Silveira</u> , Daniele B. Rodrigues, Ana Perez Vazquez, Paula Barciela Alvarez, Maria Carpena, Jesus Simal-Gandara, Miguel A. Prieto, Lillian Barros
P70	<b>Análise cromatográfica de metabolitos secundários em frutos de castanheiro da Índia</b> <u>José Pinela</u> , Carly Albiston, Mikel Añibarro-Ortega, Alexis Pereira, Maria Inês Dias, Lillian Barros
P71	<b>Comprehensive HPLC-DAD-(ESI)-MS/MS characterization and comparison of bioactive molecules from different parts of Ganoderma lucidum sporocarps</b> <u>Daniele Bobrowski Rodrigues</u> , Taofiq Oludemi, Peter Petros, Lillian Barros
P72	<b>Profiling the volatile exometabolome of Pedobacter lusitanus NL19</b> <u>Silvia M. Rocha</u> , Gonçalo Figueiredo, Carina Costa, Sónia Mendo
P73	<b>SE-HPLC and RP-HPLC as powerful tools for analyzing the gastrointestinal delivery of collagen hydrolysates obtained from codfish skins using chitosan-TPP hydrogels</b> <u>Isa Silva</u> , Manuela Pintado, Sónia Ventura, Ezequiel Coscueta

P74	<b>Method validation for the analysis of pesticides in water samples using solid phase extraction and gas chromatography coupled to mass spectrometry (SPE-GC-MS) - Matrix effect assessing in water sources</b> Ana Isabel Penetra, <u>Vitor Vale Cardoso</u> , Rui Neves Carneiro
P75	<b>Optimization of fabric phase sorvent extraction and UHPLC conditions for quantification food bioactives</b> Patrícia A. Nóbrega, Mariana B. Martins, Emmanuel Nunes, José S. Câmara, <u>Jorge A. M. Pereira</u>
P76	<b>Liquid chromatography approaches for phosphopeptide enrichment</b> <u>Gonçalo Martins</u> , Jose Luis Capelo, Carlos Lodeiro, Hugo Santos
P77	<b>Determination of MOSH and MOAH by GC×GC-TOFMS</b> <u>Julio Lluch</u>
P78	<b>Can musts sulphitation be as a preservation strategy to keep the 'Vinho Verde' musts character?</b> <u>Cátia Martins</u> , Natacha Fontes, Sara Cunha Silva, António Graça, Sílvia M. Rocha
P79	<b>Universal sample handling for liquid biopsies</b> <u>Luis Botelho de Carvalho</u> , Jose Luis Capelo, Carlos Lodeiro, Hugo Santos
P80	<b>Development of chromatographic tools to identify and characterized anthocyanin-fatty acid adducts</b> <u>Luis Cruz</u> , Nuno Mateus, Victor Freitas
P81	<b>Aplicação do controlo de qualidade interno e avaliação de resultados em toxicologia forense</b> Sónia Tarelho, <u>André Lobo Castro</u> , Miguel Franco
P82	<b>Peptide fraction identification by SE-HPLC and LC-MS/MS analysis of the body mucus from Portugal coastal fish <i>Halobatrachus didactylus</i></b> <u>Marta Cunha</u> , Ezequiel R. Coscueta, María Emilia Bassesco, Frederico Almada, David Gonçalves, Manuela Pintado
P83	<b>Assessment of a capsule for easy urine proteome collection at home</b> <u>Rafael Bento</u> , Luis Carvalho, Hugo M. Santos, Carlos Lodeiro, Jose Luis Capelo-Martinez
P84	<b>GC-MS in the optimization of microwave-assisted extraction of linear diterpenes from <i>Bifurcaria bifurcate</i></b> <u>Samuel Patinha</u> , Adriana C. S. Pais, Armando J. D. Silvestre, Helena Abreu, Silvia M. Rocha, Sónia A. O. Santos