

# PROGRAMME

## AMPHITHEATRE

MONDAY, JUNE 6

09:30 - 10:30	<b>Registration</b> <b>Posters setup</b>
10:45 - 11:10	Opening Ceremony
	<b>Chair: Ana Brett</b>
11:10 – 12:00	<b>PL-1</b> Analytical chemical luminescence today and tomorrow <u>Aldo Roda</u>
12:00 – 12:30	<b>K-1</b> Vibrational spectroscopy: applications in forensic and medicinal chemistry <u>Maria Paula Marques, A.L.M. Batista de Carvalho, D. Gonçalves, S.F. Parker, G. Cinque, L.A.E. Batista de Carvalho</u>
12:30 – 14:00	<b>Lunch</b>
	<b>Chair: Christopher Brett</b>
14:00 – 14:50	<b>PL-2</b> Analytical micro and nanotechnologies for modern electroanalysis: present and horizons <u>Jesús Alberto Escarpa Miguel</u>
14:50 – 15:20	<b>K-2</b> Point of care testing of nitrites: construction of enzyme biosensors for environmental, food, and biomedical applications <u>Maria Gabriela Almeida</u>
	<b>Chair: António Rangel</b>
15:20 – 15:40	<b>IC-1</b> Self-assembled nanostructured electrodes for enzyme based biosensors and antibody/antigen interactions <u>Luís C. Almeida, Telmo O. Paiva, Inês Almeida, Joaquim T. Marquês, Ana S. Viana</u>
15:40 – 16:00	<b>IC-2</b> Platinum microelectrode arrays for high spatio-temporal resolution recordings in the brain: surface properties, electrochemical characteristics and <i>in vivo</i> analytical performance <u>Ana Ledo, C.F. Lourenço, J. Laranjinha, G.A. Gerhardt, R.M. Barbosa</u>

- 16:00 – 16:20 **IC-3**  
Electroanalytical detection of telomeric G-quadruplexes and their application in nanomedicine cancer treatment  
*Ana Maria Chiorcea-Paquim, A.D.R. Pontinha, A. M. Oliveira-Brett*
- 16:20 – 17:20 **Coffee Break – Poster Session – Exhibitors**
- 17:20 – 17:40 **OC-4**  
Examining sound criteria for GC-MS and LC-MS identifications  
*Ricardo J.N. Bettencourt da Silva*
- 17:40 – 18:00 **OC-5**  
Considerations about measurement uncertainty evaluation in analytical chemistry  
*Olivier A. G. Pellegrino, Florbela A. Dias*
- 18:00 – 19:00 **Meeting of the Division of Analytical Chemistry of SPQ**
- 20:00 **Conference Dinner**

## TUESDAY, JUNE 7

- 09:00 – 09:50 **Chair: Marcela Segundo**  
**PL-3**  
Liquid chromatography – mass spectrometry: challenges and applications  
*Maria do Rosário G.R.M. Domingues*
- 09:50 – 10:20 **K-3**  
Atomic spectrometry in clinical chemistry/toxicology and forensic sciences – overview and highlights  
*Agostinho Almeida*
- 10:20 – 10:40 **Chair: Manuel Matos**  
**IC-4**  
Application of analytical tools to molecular toxicology  
*Alexandra M.M. Antunes*
- 10:40 – 11:00 **IC-5**  
Analytical chemistry supporting pharma industry  
*Andreia Correia, Iva Costa, Katalin Kováts, Sónia Amara, Vera Fernandes*
- 11:00 – 11:50 **Coffee Break – Poster Session – Exhibitors**

- Chair: João Canário**
- 11:50 – 12:10 **IC-6**  
Environmental proteomics: approaches and limitations  
Mário S. Diniz
- 12:10 – 12:30 **IC-7**  
Pb isotopes: a tool in biogeochemical studies  
Miguel Caetano
- 12:30 – 14:00 Lunch**
- Chair: Margarida Santos**
- 14:00 – 14:50 **PL-4**  
From environmental sciences to quality control: towards multidimensional analytical chemistry  
Armando C. Duarte
- 14:50 – 15:20 **K-4**  
Nuclear analytical techniques for speciation of trace elements in environmental sciences  
Susana Marta Almeida, M. Almeida-Silva, N. Canha, A.V. Silva, J. Lage, C. Galinha, C. Ramos<sup>1</sup>, T. Faria, I. Dionísio
- Chair: Ana Brett/Marcela Segundo**
- 15:20 – 15:40 **IC-8**  
New nanostructured electrochemical biosensors for analysis of beverages  
Madalina M. Barsan, Christopher M.A. Brett
- 15:40 – 16:00 **IC-9**  
New wet and dry analytical methodologies for coffee analysis  
João R. Santos, João A. Lopes, António O.S.S. Rangel
- 16:00 – 16:20 **IC-10**  
Assessment of human neutrophils' viability by multiple analytical approaches  
Marisa Freitas, Tânia Soares, Carina Proença, Daniela Ribeiro, Eduarda Fernandes
- 16:20 – 17:00 Coffee Break – Poster Session – Exhibitors**
- Chair: Margarida Santos**
- 17:00 – 17:20 TrainMic Presentation  
Cristina Oliveira
- 17:20 – 17:40 **OC-13**  
Traceability of the pH of seawater – steps forward  
Filomena Camões
- 17:40 – 18:00 Closing Ceremony**

# PROGRAMME

## ROOM 02.2

### MONDAY, JUNE 6

- Chair: António Conceição**
- 15:20 – 15:40 **OC-1**  
Mercury and methylmercury dynamics in sediments on a protected area of Tagus estuary  
*Rute Cesário, Carlos E. Monteiro, Marta Nogueira, Nelson O'Driscoll, Miguel Caetano, Ana Mota, João Canário*
- 15:40 – 16:00 **OC-2**  
A decade of biomonitoring of heavy metals at Lisbon  
*Hugo F. Silva, Nelson Silva, Paula Cantinho, Cristina Oliveira, Manuel Matos*
- 16:00 – 16:20 **OC-3**  
Exploring newly synthesized iron chelators for development of *in situ* devices  
*Raquel B.R. Mesquita, António O.S.S. Rangel, Spas D. Kolev, Maria Rangel*
- Chair: Ascensão Trancoso**
- 17:20 – 17:40 **OC-6**  
Sensing of antimycobacterial agent through an electrochemical portable device  
*Rosa Couto, M. Beatriz Quinaz*
- 17:40 – 18:00 **OC-7**  
Analytical performance of *Pseudomonas aeruginosa* based biosensors for acrylamine determination in waste water  
*Nelson A. Silva, Maria M. Rocha, Amim Karmali, Hugo Silva, Manuel J. Matos*

### TUESDAY, JUNE 7

- Chair: Ricardo Bettencourt**
- 10:20 – 10:40 **OC-8**  
Comparison between PLS and OPLS to batch process monitoring of cocrystallization processes  
*Ana Silva, Mafalda Sarraço, Thomas de Beer, João A. Lopes*

- 10:40 – 11:00 **OC-9**  
Soils and grapevine leaves analysis by visible/near infrared spectroscopy for vineyard' soil characterization  
*Miguel Lopo, Ricardo N.M.J. Páscoa, António R. Graça, João A. Lopes*
- Chair: Ascensão Trancoso**
- 15:20 – 15:40 **OC-10**  
Monolithic column application for real time monitoring of nanoparticles transdermal permeation  
*Ana C. Alves, Inês Ramos, Cláudia Nunes, Luis M. Magalhães, Hana Sklenářová, Marcela A. Segundo, José L.F.C. Lima, Salette Reis*
- 15:40 – 16:00 **OC-11**  
Preliminary phenolic screening of chamaerops humilis l. extracts and their antioxidant capacity activity  
*Jerson Veiga, José Coelho, Ruben Elvas-Leitão, Amadeu Brigas, Ana Dias, M. Conceição Oliveira*
- 16:00 – 16:20 **OC-12**  
Arsenium, cadmium and lead transfer from tobacco to cigarette smoke: evidence in smokers' lungs  
*Edgar Pinto, Mariana Cruz, Patrícia Ramos, Agostinho Almeida*