

13^{as} JORNADAS DE ANÁLISIS INSTRUMENTAL

RECINTO GRAN VIA. 14-16 NOVIEMBRE 2011

 **EXPOQUIMIA**
Salón Internacional de la Química


Fira Barcelona


Año Internacional de la
QUÍMICA
2011



SPONSORS


Sociedad Española de Química Analítica

SECYTA SOCIEDAD ESPAÑOLA DE
CROMATOGRAFÍA
Y TÉCNICAS AFINES

SEEM 




GOBIERNO DE ESPAÑA
MINISTERIO DE CIENCIA E INNOVACIÓN

"In collaboration with EuCheMS-DAC"



CTQ2011-14060-E

PROGRAMA CIENTÍFICO

**13^{as} JORNADAS DE
ANÁLISIS INSTRUMENTAL**

RECINTO GRAN VIA. 14-16 NOVIEMBRE 2011



SECYTA

SOCIEDAD ESPAÑOLA DE
CROMATOGRFÍA
Y TÉCNICAS AFINES

In collaboration with EuCheMS-DAC'



13^{as} JORNADAS DE ANÁLISIS INSTRUMENTAL

LIBRO DEL CONGRESO

**Barcelona
14-16 de Noviembre de 2011**



La Sociedad Española de Química Analítica ([SEQA](#)) organiza el programa científico de las jornadas en colaboración con la Sociedad Española de Cromatografía y Técnicas Afines ([SECyTA](#)), la Sociedad de Espectroscopia Aplicada (SEA), la Sociedad Española de Espectrometría de Masas ([SEEM](#)) y la Sociedad Española de Proteómica ([SEProt](#)).

COMITÉ CIENTÍFICO

Presidenta:	Elena Domínguez (UAH-SEQA)
Vicepresidente:	Joan O. Grimalt (CSIC-SECYTA)
Secretario:	Enrique Barrado (UVa-SEQA)
Vocales:	Damià Barceló (CSIC-SEEM) Marcelo Blanco Romía (UAB-SEQA) Juan Cacho Palomar (Unizar-SEQA) Carmen Cámara (UCM-SEQA) Lourdes Cantón (UPV-SECyTA) Rafael Cela (USC-SEQA) Víctor Cerdà (UIB-SEQA) Fernando J. Corrales (SEProt) M. Teresa Galceran (UB-SEQA) María José González Carlos (CSIC -SECyTA) Jesús Hernández Méndez (USal-SEQA) Santiago Maspoch (UAB-SEA) Antonio Molina (UJaen-SEQA) Arsenio Muñoz de la Peña (UEX-SEQA) Alfredo Sanz-Medel (Uniovi-ABC) Yolanda Picó (UV-SECyTA) José Manuel Pingarrón (UCM-SEQA) Xavier Rius (URV-SEQA) Miguel Valcárcel (UCo, DAC-EuCheMS)

COMITÉ ORGANIZADOR

Presidenta:	Elena Domínguez (UAH-SEQA)
Vicepresidenta:	M. T. Galcerán (UB-SEQA)
Secretarios:	Javier Santos (UB-SECyTA), Enrique Barrado (UVa-SEQA)
Tesorero:	José Luis Pérez Pavón (Usal-SEQA)
Vocales:	Joan O. Grimalt (CSIC-SECYTA) Esteban Abad (CSIC-SEEM) Bartolomé Simonet (UCo-SEA) Arantxa Narváez (UAH-SEQA) José Luis Luque (UCM-SEQA) Elena Ibáñez (CSIC-SECyTA)

ÍNDICE

Programa	3
Sesiones del Programa Científico 13ª JAI	7
Comunicaciones orales: Lunes 14 de Noviembre	
Medio Ambiente (MAM-OC01 a MAM-OC07).....	7
Automatización y Miniaturización (AYM)	8
Nanotecnología (NAN)	8
Medio Ambiente (MAM-OC08-MAM-OC12).....	8
Desarrollo de Instrumentación Analítica (DIA)	9
Comunicaciones orales: Martes 15 de Noviembre	
Calidad y Seguridad Alimentaria (CSA-OC01 a CSA-OC05).....	10
Biosensores (BIO).....	10
Calidad y Seguridad Alimentaria (CSA-OC06 a CSA-OC10).....	11
Electroquímica (ELC).....	11
Comunicaciones orales: Miércoles 16 de Noviembre	
Análisis Clínico (ACI).....	12
Análisis de Productos Farmacéuticos (APF).....	12
Especiación (ESP).....	12
Contribuciones Teóricas y Quimiometría (CTQ).....	12
Proteómica (PRT).....	13
Otros Campos del Análisis Instrumental (OAI)	13
Análisis de Procesos y Productos Industriales (API)	13
Resumen Conferencias Plenarias e invitadas	15

Comunicaciones Posters – Lunes 14 de Noviembre 2011

Medio Ambiente (MAM).....	27
Automatización y Miniaturización (AYM)	34
Nanotecnología (NAN)	35
Desarrollo de Instrumentación Analítica (DIA)	36

Comunicaciones Posters – Martes 15 de Noviembre 2011

Calidad y Seguridad Alimentaria (CSA).....	38
Biosensores (BIO).....	45
Electroquímica (ELC).....	45
Análisis Clínico (ACI).....	46
Análisis de Productos Farmacéuticos (APF).....	47
Especiación (ESP).....	48

Comunicaciones Posters – Miércoles 16 de Noviembre 2011

Contribuciones Teóricas y Quimiometría (CTQ).....	50
Docencia (DOC)	51
Proteómica (PRT).....	51
Otros Campos del Análisis Instrumental (OAI)	52
Análisis de Procesos y Productos Industriales (API)	54

Índice de autores.....	55
------------------------	----

OC = ORAL CORTA P = PÓSTER

Ejemplos: MAM-OC1 = Medio Ambiente. Oral Corta n. 1
PRT-P13 = Proteómica. Póster n. 13

Día 14 de Noviembre de 2011 (Lunes)

Hora	Sala 4.1	Sala 4.2
8.30-9.00	Recogida de documentación	
9.00-9.30	Ceremonia de apertura: Mesa: Dra. Elena Domínguez y Dr. Joan O. Grimalt	
9.30-10.30	CONFERENCIA PLENARIA: Prof. R. Graham Cooks <i>Miniature mass spectrometers and ambient ionization: Instrumentation and applications in tissue imaging, disease diagnostics, food & public safety"</i> Mesa: Dra. Elena Domínguez y Dra. María Teresa Galcerán	
10.30-11.00	Colocación de posters. CAFÉ	
11.00-11.30	Oral invitada: h . Joan Albaigés <i>"The characterization of oil spills: a challenge for analytical chemistry "</i> Mesa Dra. Carmen Cámara	
11.30-13.00	Comunicaciones MAMOC01A a MAMOC07 Mesa: Dra. Lourdes Cantón y Dr. Luis F. Capitán	Comunicaciones AYMOC01 a AYMOC03 NANOC01 a NANOC04 Mesa: Dr. Miguel Valcárcel y Dr. Antonio Molina
13.00-14.00	COMIDA	
14.00-15.00	Visita posters: Medio ambiente. Automatización y Miniaturización. Nanotecnología. Desarrollos en Instrumentación Analítica	
15.00-16.00	CONFERENCIA PLENARIA: Prof. Luis M. Liz-Marzan "Ultrasensitive analysis using metal nanoparticles" Mesa: Dr. Xavier Rius	
16.00-16.30	Oral invitada: Dra. Francisca Mulero "PET-CT in preclinical cancer research Mesa: Dr. J.M. Vadillo	
16.30-17.30	Comunicaciones MAMOC08 a MAMOC12 Mesa: Dr. Manuel Hernández y Dr. J. Luis Pérez Pavón	Comunicaciones DIAOC01 a DIAOC05 Mesa: Dr. Víctor Cerdá y Dr. Arsenio Muñoz
17.30-18.00	CAFÉ	
18.00-19.00	Discusión de Poster MAMP01 a MAMP82 Mesa: Dra. Carmen Cámara y Dra. Elena Ibáñez	Discusión de poster AYMP01 a AYMP13 NANPO1 a NANP10 DIAP01 a DIAP21 Mesa: Dra. Soledad Muniategui y Dr. Arsenio Muñoz
	ASAMBLEA SEA (sala 4.3)	

Día 15 Noviembre 2011. Martes

Hora	Sala 4.1	Sala 4.2
9.00-10.00	Sesión "in Memoriam" del Prof. Lucas Hernández CONFERENCIA PLENARIA: Prof. Richards M. Crooks "Bipolar electrodes: fundamentals, sensing, and concentration enrichment in microelectrochemical systems" Mesa: Dr. J.M. Pingarrón Y Dra. Encarnación Lorenzo	
10.00-10.30	Oral invitada: Profª. Cristina Nerín "Influence of packaging on food safety: Analytical challenges" Mesa: Dr. Esteban Abad	
10.30-11.00	CAFÉ	
	Sala 5.1	Sala 5.2
11.00-12.00	Comunicaciones CSAOC01 a CSAOC05 Mesa: Dr. Juan Cacho, Dr. Jesús Hernández-Méndez	Comunicaciones BIOOC01 A BIOOC04 Comunicación ELCOC01 Mesa: Dra. Elena Domínguez Y Dra. Encarnación Lorenzo
12.00-13.00	Comunicaciones CSAOC06 a CSAOC10 Mesa: Dr. Damiá Barceló y Dr. Rafael Cela	Sesión: ETBs-CDTI-EMPRESAS Coordinadores: Dra. Arantxa Narvéez Dra. Rosa Puchades Dr. Tolo Simonet
13.00-14.00	COMIDA	
		Sala 4.2
14.00-15.00	Visita posters Calidad y seguridad alimentaria, Biosensores, Electroquímica, Análisis Clínicos, Análisis de Productos farmacéuticos y Especiación	ASAMBLEA DEL GRUPO DE ESPECIACIÓN DE LA SEQA
	Sala 4.1	Sala 4.2
15.00-16.00	CONFERENCIA PLENARIA: Prof. K. V. ... Mesa: Dr. J. M. Vadillo	
16.00-17.30	SEQA: Sesión de docencia Mesa: Dr. Manuel Hernández-Dra. Encarna Lorenzo- Dr. Luis F. Capitan	Sesión jóvenes Investigadores Coordinador: Dr. José Luis Luque
17.30-18.00	CAFÉ	
18.00-19.00	ASAMBLEA SEQA	ASAMBLEA SECYTA
	CENA DE LA REUNIÓN	

Día 16 de Noviembre. Miércoles

Hora	Sala 4.1	Sala 4.2
9.00-10.00	Comunicaciones ACIOC01 A ACLOC02 Comunicaciones APFOC01 a APFOC03 Mesa: Dra. Yolanda Picó y Dra. M. Teresa Galceran	Comunicaciones ESPOC01 A ESPOC02 Comunicaciones CTQOC01 a CTQOC03 Mesa: Dr. Marcelo Blanco y Dr. Santiago MasPOCH
10.00-11.00	CONFERENCIA PLENARIA: Prof. Pier Giorgio Righetti <i>The proteome Argonauts: conquering the "golden fleece" of alcoholic beverages and soft drinks via combinatorial peptide ligands</i> Mesa: Dr. Joan O. Grimalt y Dra. M. José González Carlos	
11.00-11.30	CAFÉ	
11.30-12.00	Oral invitada: Dr. Manuel Fuentes García "Protein chips in biomarker & drug discovery" Mesa: Dr. Alfredo Sanz-Medel	
12.00-13.00	Comunicaciones PRTOC01 a PRTOC02 Comunicaciones OAI0C01 a OAI0C03 Comunicación API0C01 Mesa: Dr. Fernando J. Corrales y Dr. Javier Santos	JORNADAS TÉCNICAS Coordinadores: Dr. José Luis Pérez Pavón y Dra. Soledad Muniategui
13.00-14.00	COMIDA	
14.00-15.00	Visita posters Contribuciones Teóricas y Quimiometría, Docencia, Proteómica, Otros Campos del Análisis Instrumental, Análisis de procesos y productos industriales	
15.00-15.30	Oral invitada: h. Jordi Segura Noguera <i>"Antidoping control, cross road between Chemistry and other Life Sciences"</i> Mesa: Dr. Enrique Barrado	
15.30-16.30	Discusión de poster CSAP01 A CSAP85	Discusión de poster ACIP01 a ACLP10; APFP01 a APF13; BIOP01 a BIOP011; ELCP01 A ELCP04; API01 a API05 Mesa: Dra. Rosa Puchades, Dr. Santiago MasPOCH
16.30-17.30	Mesa: Dr. Juan Cacho, Dr. Jesús Hernández, Dr. Javier Santos	Discusión de poster PRT01 a PRT09; OAI01 a OAI 024; API01 a API05; CTQ01 a CTQ10; ESP01 a ESP13 Mesa: Dr. Alfredo Sanz Medel, Dr. Enrique Barrado
17.30-18.30	CEREMONIA DE CLAUSURA Entrega de premios Cóctel de despedida Mesa: Dra. Elena Domínguez, Dr. Joan O. Grimalt	

SESIONES CIENTÍFICAS – LUNES 14 DE NOVIEMBRE

- 08:30 **Recogida de documentación**
- 09:00 **Ceremonia de Apertura** (Sala 4.1)
- 09:30 **Conferencia Plenaria** (Sala 4.1) - Moderadoras: Dra. Elena Domínguez y Dra. M^a Teresa Galceran
Prof. R. Graham Cooks
"Miniature mass spectrometers and ambient ionization: Instrumentation and applications in tissue imaging, disease diagnostics, food & public safety"
- 10:30 **Colocación de Posters / Café**
- 11:00 **Oral Invitada** (Sala 4.1) – Moderadora: Dra. Carmen Cámara
Dr. Joan Albaigés
"The characterization of oil spills: a challenges for analytical chemistry"
- 11:30 **Comunicaciones Orales: Medio Ambiente** (Sala 4.1)
Moderadores: Dra. Lourdes Cantón y Dr. Luis F. Capitán

- MAM-OC01** O. Baltrons Rosell ; C. Palet , M. López Mesas
OPTIMIZED THREE-STEP DETERMINATION METHOD FOR THE ANALYSIS OF PAHS IN CONTAMINATED SOILS BY HPGC/MS
- MAM-OC02** E. Barón González ; I. Rudolph ; R. Barra ; E. Eljarrat ; D. Barceló
BIOMAGNIFICATION OF POLYBROMINATED DIPHENYL ETHERS AND THEIR METHOXYLATED ANALOGS IN A FOOD WEB FROM SAN VICENTE BAY, CHILE
- MAM-OC03** N. Bellos ; L. Bonetto ; F.A. Mocholi
ANALYSIS OF VOLATILE ORGANIC COMPOUNDS (VOCs) IN AIR BY SPME-GC/MS. QUALITATIVE AND QUANTITATIVE APPROACHES
- MAM-OC04** R. Bouza Deaño ; M. López Sepúlveda ; J.C. Mohino Guerrero
ESTUDIO DE APLICACIÓN DE ESPECTROSCOPIA DE INFRARROJO CERCANO A LA DETERMINACIÓN DE PARÁMETROS FÍSICO-QUÍMICOS EN AGUAS RESIDUALES URBANAS
- MAM-OC05** N. Fontanals Torroja ; R.M. Marcé ; F. Borrull
DETERMINATION OF POLAR DRUGS IN ENVIRONMENTAL WATER SAMPLES BY ON-LINE SOLID-PHASE EXTRACTION COUPLE TO LIQUID CHROMATOGRAPHY – MASS SPECTROMETRY
- MAM-OC06** H. Gallart Ayala ; C.P.B. Martins ; M. Soto ; E. Moyano ; M.T. Galceran ; J. Caixach
RECENT DEVELOPMENTS IN THE ANALYSIS OF GLYPHOSATE AND AMPA IN WATER SAMPLES BY LC-MS/MS AND HRMS
- MAM-OC07** A.M. Gutiérrez Carreras ; M.D. Luaces ; A.C. Valdés ; C. Pérez-Conde ; E. Benito-Peña ; M.C. Moreno-Bondi
DETERMINACIÓN SELECTIVA DE FLUOROQUINOLONAS EN AGUAS SUPERFICIALES EMPLEANDO POLÍMEROS DE IMPRONTA MOLECULAR Y DETECCIÓN QUIMIOLUMINISCENTE

- 11:30 **Comunicaciones Orales:** Automatización y Miniaturización. Nanotecnología (*Sala 4.2*)
Moderadores: Dr. Miguel Valcárcel y Dr. Antonio Molina
- AYM-OC01** M.M. Barrios Romero ; A. González Crevillén ; J.C. Diez-Masa
APPLICATION OF SU-8 MICROFLUIDIC DEVICES TO WHEY PROTEIN ANALYSIS
- AYM-OC02** M. Miró
AUTOMATED SAMPLE PREPARATION IN ENVIRONMENTAL AND BIOANALYTICAL ASSAYS USING MESO/MICROFLUIDIC PLATFORMS
- AYM-OC03** I.M. Pedron Ruiz ; J.G. March ; J.L. Benedé ; A. Salvador ; A. Chisvert
A NEW THREE-PHASE MEMBRANE-ASSISTED LIQUID-PHASE MICROEXTRACTION METHOD: DETERMINATION OF NITRITE IN TAP WATER SAMPLES AS MODEL ANALYTICAL APPLICATION
- NAN-OC01** J.M. Abad Pastor ; A.Y. Tesio ; J.L. Pau ; F. Pariente ; J. Piqueras ; E. Lorenzo
METALLIC NANO-ELECTRODES FABRICATION FOR THE DEVELOPMENT OF NANOSTRUCTURED PLATFORMS BY SCANNING ELECTROCHEMICAL MICROSCOPY (SECM)
- NAN-OC02** A.M. Ballesteros Gómez ; S. Rubio Bravo
ENVIRONMENT RESPONSIVE ALKANOL-BASED NANOSTRUCTURED SOLVENTS: PHENOMENON DESCRIPTION AND POTENTIAL IN ANALYTICAL EXTRACTIONS
- NAN-OC03** J.M. Costa Fernández ; A.M. Coto García ; M. Menéndez Miranda ; M.T. Fernández-Arguelles ; A. Sanz-Medel
SYNTHESIS OF POLYMER-COATED QUANTUM DOTS WITH INTEGRATED ACCEPTOR DYES FOR THE DEVELOPMENT OF FRET METHODS
- NAN-OC04** T. Díaz-Faes ; M.E. Díaz García ; M.J.A. García Calzón ; R. Badía Laíño
MOLECULARLY IMPRINTED SILICA NANOTUBES: SYNTHESIS AND CHARACTERIZATION
- 13:00 **Comida**
- 14:00 **Visita Pósters:** Medio Ambiente. Automatización y Miniaturización. Nanotecnología. Desarrollos en Instrumentación Analítica
- 15:00 **Conferencia Plenaria** (*Sala 4.1*) – Moderador: Dr. Xavier Rius
Prof. Luis M. Liz-Marzán
"Ultrasensitive analysis using metal nanoparticles"
- 16:00 **Oral Invitada** (*Sala 4.1*) – Moderador: Dr. J.M. Vadillo
Dra. Francisca Mulero
"PET-CT in preclinical cancer research"

16:30 **Comunicaciones Orales:** Medio Ambiente (*Sala 4.1*)
Moderadores: Dr. Manuel Hernández y Dr. J. Luis Pérez Pavón

- MAM-OC08** R. Lazzara ; D. Fernandes ; M. Faria ; J. López ; R. Tauler ; C. Porte
CHANGES IN LIPID CONTENT AND FATTY ACID COMPOSITION ALONG THE REPRODUCTIVE CYCLE OF THE FRESHWATER MUSSEL DREISSENA POLYMORPHA: ITS MODULATION BY CLOFIBRATE
- MAM-OC09** F.A. Mocholí Castelló ; N. Bellós ; L. Bonetto
ANALYSIS OF VOLATILE ORGANIC COMPOUNDS (VOCS) IN AIR BY SPME-GC/MS. QUALITATIVE AND QUANTITATIVE APPROACHES
- MAM-OC10** V. Osorio Torrens ; S. Pérez Solsona ; D. Barceló Culleres
BIOTRANSFORMATION OF DICLOFENAC AND RELATED NONSTEROIDAL ANTIINFLAMMATORY DRUGS (NSAIDS) INTO NITRO AND NITROSO DERIVATIVES IN BATCH REACTORS
- MAM-OC11** C. Rodríguez Navas González ; R. Forteza ; V. Cerda
STUDY OF VOCS IN THE AMBIENT AIR OF A WASTE TREATMENT TECHNOLOGIES ZONE IN MALLORCA BY TD-GCMS
- MAM-OC12** I.P. Román Falcó ; K. Tyrovola ; A. Mastromichali ; A. Canals ; E. Psillakis
DETERMINATION OF N-OCTANOL-WATER PARTITION COEFFICIENT BY VORTEX-ASSISTED LIQUID-LIQUID MICROEXTRACT

16:30 **Comunicaciones Orales:** Desarrollos en Instrumentación Analítica (*Sala 4.2*)
Moderadores: Dr. Víctor Cerdá y Dr. Arsenio Muñoz

- DIA-OC01** M. Ariza Avidad ; N. López Ruiz ; A. Martínez Olmos ; J. Vukovic ; J. Banqueri ; L.F. Capita
HANDLED CCD MICROCAMERA INSTRUMENT FOR IN-SITU DETERMINATION OF HEAVY METALS
- DIA-OC02** C. Domínguez Fernández ; C. Reyes ; J.M. Bayona
EVALUATION OF IONIC LIQUID STATIONARY PHASES FOR ONE DIMENSIONAL GAS CHROMATOGRAPHY OF ORGANIC POLLUTANTS
- DIA-OC03** R. Garrido Delgado ; L. Arce ; M. Valcárcel
ON-LINE COUPLING SAMPLE INTRODUCTION SYSTEMS TO ION MOBILITY SPECTROMETER FOR ANALYSIS OF AGRO-FOOD
- DIA-OC04** I.M. Pérez de Vargas Sansalvador ; A. Martínez-Olmos ; M.D. Fernández-Ramos ; A.J. Palma L.F. Capitán-Vallvey
MULTISENSOR PROBE FOR SOIL MONITORING
- DIA-OC05** M. Resano ; R. Esteban
HIGH-RESOLUTION CONTINUUM SOURCE GRAPHITE FURNACE MOLECULAR ABSORPTION SPECTROMETRY FOR THE DIRECT D

17:00 **Pausa / Café**

- 18:00 **Discusión de Pósters:** Medio Ambiente. (*Sala 4.1*)
Moderadoras: Dra. Carmen Cámara y Dra. Elena Ibáñez
- 18:00 **Discusión de Pósters:** Automatización y Miniaturización. Nanotecnología. Desarrollos en Instrumentación Analítica. (*Sala 4.2*)
Moderadores: Dra. Soledad Muniategui y Dr. Arsenio Muñoz
- 18:00 **Asamblea SEA.** (*Sala 4.3*)

SESIONES CIENTÍFICAS – MARTES 15 DE NOVIEMBRE

- 09:00 **Conferencia Plenaria** (Sala 4.1) – Moderadores: Dr. J.M. Pingarrón y Dra. Encarnación Lorenzo
Sesión “in Memoriam” del Prof. Lucas Hernández
Prof. Richards M. Crooks
"Bipolar electrodes: fundamentals, sensing, and concentration enrichment in microelectrochemical systems"
- 10:00 **Oral Invitada** (Sala 4.1) – Moderador: Dr. Esteban Abad
Prof. Cristina Nerín
"Influence of packaging on food safety: Analytical challenges"
- 10:30 **Café**
- 11:00 **Comunicaciones Orales: Calidad y Seguridad Alimentaria** (Sala 5.1)
Moderadores: Dr. Juan Cacho y Dr. Jesús Hernández
- CSA-OC01** S. Armenta Estrela ; M. Blanco
CHEMOMETRIC STRATEGIES TO IMPROVE SELECTIVITY IN ION MOBILITY SPECTROMETRY
- CSA-OC02** I. Carpinteiro Botana ; B. Abuín ; I. Rodriguez ; M. Ramil ; R. Cela
SOLID-PHASE EXTRACTION FOLLOWED BY DISPERSIVE LIQUID-LIQUID MICROEXTRACTION FOR THE SENSITIVE DETERMINATION OF ETHYLPHENOLS SPECIES IN WINE
- CSA-OC03** M. García Altares ; J. Diogène ; P. de la Iglesia
THE IMPLEMENTATION OF LC-MS/MS FOR THE OFFICIAL CONTROL OF LIPOPHILIC TOXINS IN SHELLFISH: SINGLE-LABORATORY VALIDATION UNDER FOUR CHROMATOGRAPHIC CONDITIONS
- CSA-OC04** A. Guart ; A. Mezquida ; A. Borrell ; S. Lacorte
MIGRATION ASSAYS FOR THE IDENTIFICATION OF ORGANIC COMPOUNDS IN TRITAN COPOLYESTER
- CSA-OC05** C. Nerin ; E. Canellas ; P. Alfaro ; C. Domeño
IDENTIFICATION OF NON INTENTIONALLY ADDED SUBSTANCES (NIAS) IN NEW ACTIVE FOOD PACKAGING PROTOTYPES
- 11:00 **Comunicaciones Orales: Biosensores. Electroquímica** (Sala 5.2)
Moderadoras: Dra. Elena Domínguez y Dra. Encarnación Lorenzo
- BIO-OC01** S. Liébana ; D. Spricigo ; M.P. Cortés ; M. Llagostera ; S. Alegret ; M.I. Pividori
NEW PROMISING NANOSTRUCTURED MATERIAL FOR BIOSENSING: THE BACTERIOPHAGES
- BIO-OC02** E. Lorenzo ; T. García ; J. Paredes ; M. Revenga-Parra ; L. Añorga ; S. Arana ; F. Pariente
MICRO-ELECTRO-MECHANICAL DNA SENSORS FOR SALMONELLA SELECTIVE DETECTION

BIO-OC03 S. Morais ; R. Puchades ; A. Maquieira
 COMPACT DISC TECHNOLOGY FOR BIO-SENSING APPLICATIONS. RECENT ADVANCES

BIO-OC04 P. Yáñez Sedeño ; M. Moreno ; I. Ojeda ; R. Villalonga ; A. González ; J.M. Pingarrón
 PREPARACIÓN DE UN INMUNOSENSOR ELECTROQUÍMICO PARA ADRENOCORTICOTROPINA (ACTH) POR INMOVILIZACIÓN DE ANTIACTH MEDIANTE ÁCIDO AMINOFENILBORÓNICO SOBRE UN SPCE

ELC-OC01 P. Fernández Requejo ; P. Hernández ; E. Barrado ; M. Vega ; Y. Castrillejo
 ELECTROCHEMICAL EXTRACTION OF SAMARIUM FROM MOLTEN CHLORIDES IN PYROCHEMICAL PROCESSES

12:00 **Comunicaciones Orales:** Calidad y Seguridad Alimentaria (*Sala 5.1*)
 Moderadores: Dr. Damiá Barceló y Dr. Rafael Cela

CSA-OC06 O. Núñez Burcio ; A. Astefanei ; H. Gallart-Ayala ; E. Moyano ; M.T. Galceran
 ANALYSIS OF FULLERENES (C60 TO C84) AND C60-FULLERENE DERIVATIVES BY LC-APPI-MS

CSA-OC07 A. Pérez Antón ; C. García Pinto ; J.L. Pérez Pavón ; B. Moreno Cordero
 DETERMINACIÓN DE CLOROANISOLES EN VINOS MEDIANTE CROMATOGRAFÍA DE GASES CON COLUMNA DE LÍQUIDOS IÓNICOS (IL) PREVIA MICROEXTRACCIÓN CON SORBENTES EMPAQUETADOS

CSA-OC08 P. Rodríguez González ; A. González Antuña ; M. Fernández Fernández ; J.I. García Alonso
 DEVELOPMENT AND APPLICATIONS OF A REFERENCE METHOD FOR THE DETERMINATION OF ORGANIC COMPOUNDS BY MINIMAL LABELLING AND ISOTOPE PATTERN DECONVOLUTION

CSA-OC09 N. Unceta ; Z. Abrego ; M. Montaña ; L. Echeazarra ; J. Sallés ; R.J. Barrio
 VALIDATED LC-ESI-MS/MS METHOD FOR THE QUANTITATION OF SILDENAFIL, TADALAFIL, VARDENAFIL AND THEIR MAIN ACTIVE METABOLITES IN BIOLOGICAL SAMPLES

CSA-OC10 J.A. Zapata Ochoa ; J. Cacho ; V. Ferreira
 AN AUTOMATED METHOD BASED ON MULTIPLE-IN-TUBE EXTRACTION FOR THE DETERMINATION OF THE RATE OF FLAVOR RELEASE OF AROMA COMPOUNDS FROM DIFFERENT MATRIXES

12:00 **Sesión. ETBs-CDTI-EMPRESAS.** (*Sala 5.2*)
 Coordinadores. Dra. Arantxa Narváez; Dra. Rosa Puchades y Dr. Tolo Simonet

13:00 **Comida**

14:00 **Visita Pósters:** Calidad y seguridad alimentaria. Biosensores. Electroquímica. Análisis Clínicos. Análisis de Productos farmacéuticos. Especiación.

- 15:00 **Conferencia Plenaria (Sala 4.1) – Moderador:** Dr. J.M. Vadillo
Prof^a. Jenny Emnéus
"Exploring Cellular Dynamics at Nanoscale"
- 16:00 **Sesión de Docencia. SEQA. (Sala 4.1)**
Moderadores: Dr. Manuel Hernández; Dra. Encarna Lorenzo y Dr. Luis F. Capitan
- 16:00 **Sesión. Jóvenes investigadores. (Sala 4.2)**
Coordinador: Dr. José Luis Luque
- 17:30 **Pausa / Café**
- 18:00 **Asamblea SEQA. (Sala 4.1)**
- 18:00 **Asamblea SECYTA. (Sala 4.2)**

19.15.- CENA DE LA REUNIÓN

SESIONES CIENTÍFICAS – MIERCOLES 16 DE NOVIEMBRE

09:00 **Comunicaciones Orales:** Análisis Clínico. Análisis de productos farmacéuticos. (*Sala 4.1*)
Moderadoras: Dra. Yolanda Picó y Dra. M^a Teresa Galceran

- ACI-OC01** J.C. Domínguez Romero ; J.F. García Reyes ; A. Molina Díaz
COMPARATIVE EVALUATION OF DIFFERENT SAMPLE TREATMENT APPROACHES FOR LARGE-SCALE MULTICLASS SPORT DRUG TESTING IN URINE BY LC-MS
- APF-OC01** J. Aceña Sánchez ; B. Ferreira ; P.R. Gardinali ; S. Pérez ; D. Barceló
FATE OF SILDENAFIL (VIAGRA) IN WASTEWATER TREATMENT PLANTS. IDENTIFICATION OF ITS TRANSFORMATION PRODUCT WITH ADVANCED MASS SPECTROMETRIC TECHNIQUES
- APF-OC02** M.C. Hurtado Sánchez ; I. Durán-Merás ; A. Espinosa-Mansilla ; M.I. Rodríguez-Cáceres
ANALYSIS OF AGE-RELATED DISORDER MARKERS BY DERIVATIZATION TO PTERIDINIC RINGS AND FLUORIMETRIC HPLC
- APF-OC03** R. Munné ; B. Andón ; F. Garde ; L. Serrano ; E. Balaguer ; J.F. Dulsat ; A. Massó
AMORPHOUS CONTENT QUANTIFICATION BY DSC AND DVS. COMPARATIVE APPROACH TO METHOD DEVELOPMENT AND VALIDATION

09:00 **Comunicaciones Orales:** Especiación. Contribuciones Teóricas y Quimiometría. (*Sala 4.2*)
Moderadores: Dr. Marcelo Blanco y Dr. Santiago Maspoch

- ESP-OC01** M.L. Fernández Sánchez ; H. González Iglesias ; S.A. Pergantis ; A. Sanz-Medel
ENRICHED STABLE ISOTOPES IN COMBINATION TO HPLC WITH IPD- ICP-MS OR APCI-MS/MS FOR INTEGRATED SE SPECIATION IN RATS TISSUES
- ESP-OC02** J.I. García Alonso
NOVEL APPLICATIONS OF ENRICHED STABLE ISOTOPES
- ESP-OC03** J.L. Gómez Ariza ; T. García-Barrera ; M.A. García-Sevillano ; M. González-Fernández ; R. Jara-Biedma ; J. López-Barrera ; C. Pueyo
BIOLOGICAL RESPONSE OF LABORATORY MICE MUS MUSCULUS UNDER EXPOSURE TO TOXIC ELEMENTS. A METALLOMIC STUDY
- CTQ-OC01** S. Cavanillas López ; C. Ariño ; J.M. Díaz-Cruz ; M. Esteban
PARAMETRIC SIGNAL FITTING BY GAUSSIAN PEAK ADJUSTMENT: A NEW MULTIVARIATE CURVE RESOLUTION METHOD FOR NON-BILINEAR VOLTAMMETRIC MEASUREMENTS AND ITS APPLICATION TO THE STUDY OF PHYTOCHELATIN-METALS COMPLEXATION
- CTQ-OC02** I. Martí Aluja ; I. Ruisánchez ; M. Soledad Larrechi
ZIDOVUDINE AND INSULIN INTERACTION STUDY IN HUMAN SERUM BY INFRARED SPECTROSCOPY AND CHEMOMETRICS ANALYSIS

- 10:00 **Conferencia Plenaria (Sala 4.1)** - Moderadores: Dr. Joan G. Grimalt y Dr. M. José González Carlos
Prof. Pier Giorgio Righetti
"The proteome Argonauts: conquering the "golden fleece" of alcoholic beverages and soft drinks via combinatorial peptide ligands"
- 11:00 **Pausa / Café**
- 11:30 **Oral Invitada (Sala 4.1)** – Moderador: Dr. Alfredo Sanz-Medel
Dr. Manuel Fuentes García
"Protein chips in biomarker & drug discovery"
- 12:00 **Comunicaciones Orales:** Proteómica. Otros campos del Análisis instrumental. Análisis de Procesos y Productos Industriales. (Sala 4.1)
Moderadores: Dr. Fernando J. Corrales y Dr. Javier Santos
- PRT-OC01** C. Martínez Laborde ; L. Mourino-Alvarez ; S. Alonso-Orgaz ; L.R. Padial ; F. Vivanco ; M.G. Barderas
TOWARDS A COMPLETE UNDERSTANDING OF PHYSIOPATHOLOGY OF ACS BY METABOLOMIC AND PROTEOMIC STUDIES
- PRT-OC02** D. Santos Anunciaçao ; I. Lopez-Heras ; S.L.C. Ferreira ; Y. Madrid ; J.L. Luque-Garcia ; C. Cámara
QUANTITATIVE PROTEOMIC ANALYSIS OF HEPATIC CELLS TO REVEAL POTENTIAL TOXICITY ASSOCIATED TO SELENIUM NANOPARTICLES
- OAI-OC01** F.J. González Vila ; G. Almendros ; J.A. González-Pérez
PYROLYSIS-GC-MS IN THE STRUCTURAL RESEARCH OF MACROMOLECULAR NATURAL ORGANIC MATTER IN AGRICULTURAL AND ENVIRONMENTAL SCIENCES
- OAI-OC02** E. Hurtado Fernández ; M. Gómez-Romero ; T. Pacchiarotta ; A.M. Deelder ; O.A. Mayboroda A. Carrasco-Pancorbo ; A. Fernández-Gutiérrez ; B. Schoenmaker ; R. Derks
EVALUATING THE COMPLEMENTARITY OF HYPHENATED METHODS IN FOODOMICS: UHPLC-ESI-TOF AND GC-APCI-TOF MS, WITH CHEMOMETRIC ANALYSIS, FOR THE COMPREHENSIVE CHARACTERIZATION AND CLASSIFICATION OF AVOCADO SAMPLES
- OAI-OC03** C. Ibáñez ; C. Simó ; A. Cedazo-Mínguez ; A. Cifuentes ; P.J. Martín-Álvarez
METABOLOMIC STUDY OF ALZHEIMER DISEASE
- API-OC01** J.G. Rosas Portugal ; M. Blanco ; M. Alcalá
NON-INVASIVE IN-LINE MONITORING OF A PHARMACEUTICAL MANUFACTURING MIXING PROCESS BY USING NIR SPECTROSCOPY
- 12:00 Jornadas Técnicas (Sala 4.2)
Coordinadores. Dr. José Luis Pérez Pavón y Dra. Soledad Muniategui
- 13:00 **Comida.**

- 14:00 **Visita Pósters:** Contribuciones Teóricas y Quimiometría. Docencia. Proteómica. Otros Campos del Análisis Instrumental. Análisis de Procesos y Productos Industriales.
- 15:00 **Oral Invitada** (Sala 4.1) – Moderador: Dr. Enrique Barrado
Dr. Jordi Segura Noguera
"Antidoping control, cross road between Chemistry and other Life Sciences"
- 15:30 **Discusión de Pósters.** Calidad y Seguridad Alimentaria. (Sala 4.1)
Moderadores: Dr. Juan Cacho, Dr. Jesús Hernández y Dr. Javier Santos
- 15:30 **Discusión de Pósters.** Análisis Clínico. Análisis de productos farmacéuticos. Biosensores. Electroquímica. Análisis de Procesos y Productos Industriales. (Sala 4.2)
Moderadores: Dr. Alfredo Sanz Medel, Dra. Rosa Puchades y Dr. Santiago Maspoch
- 17:30 **Ceremonia de clausura.**
Moderadores: Dra. Elena Domínguez y Dr. Joan G. Grimalt
- Entrega de Premios.**
- Coctel de despedida.**

CONFERENCIA PLENARIA



**Miniature mass spectrometers and ambient ionization:
instrumentation and applications in tissue imaging, disease
diagnostics, food & public safety**

R. Graham Cooks

*Department of Chemistry & Center for Analytical Instrumentation
Development, Purdue University, West Lafayette, IN 47907*

(Henry B. Hass Distinguished Professor—Analytical Chemistry)

<http://www.chem.purdue.edu/people/faculty/faculty.asp?itemID=1>

The recent development of ambient ionization methods is transforming the applications of mass spectrometry allowing virtually any sample to be examined in air, rather than being introduced into the mass spectrometer vacuum system. Ambient ionization methods include the spray method, desorption electrospray ionization (DESI) in which the sample is impacted by charged microdroplets which pick up analyte by dissolution and carry it to the MS; plasma-based methods among them low temperature plasma (LTP) and the new paper spray (PS) ionization method. The physical and mechanistic basis of each of these experiments will be described.

DESI finds application in disease diagnosis by tissue imaging and examples of human bladder, liver and brain cancer diagnostics will be given. In another application, whole blood analysis for therapeutics is achieved in a few seconds using another new method, paper spray. LTP applications in food safety and bacterial identification will be described.

Other examples of applications include transportation security, forensic applications and cleaning validation as well as natural products characterization.

The talk will conclude with information on the combination of ambient ionization methods with handheld miniature mass spectrometers, a tool that has great potential for the discovery chemist as well as in practical applications in industry and medicine.

CONFERENCIA PLENARIA



Ultrasensitive Analysis Using Metal Nanoparticles

Luis M. Liz-Marzán

Departamento de Química Física and Unidad Asociada CSIC-
Universidade de Vigo, 36310 Vigo, Spain, lmarzan@uvigo.es.

<http://webs.uvigo.es/coloides/nano/>

Metal nanoparticles display very interesting optical properties, related to localized surface plasmon resonances (LSPR), which give rise to well-defined absorption and scattering peaks in the visible and near-IR spectral range. Such resonances can be tuned through the size and shape of the nanoparticles, but are also extremely sensitive towards dielectric changes in the near proximity of the particles surface. Therefore, metal nanoparticles have been proposed as ideal candidates for biosensing applications, on the basis of concepts similar to those applied in commercial SPR biosensors. Additionally, localized surface plasmon resonances are characterized by large electric fields at the surface, which are responsible for the so-called surface enhanced spectroscopies, and in particular for surface enhanced Raman scattering (SERS). Since the Raman scattering cross sections can be enhanced up to 12 orders of magnitude, very small amounts of analyte can be detected and thus the SERS effect has rendered Raman scattering spectroscopy a powerful analytical technique that allows ultrasensitive chemical or biochemical analysis. However, practical application of SERS is hindered by problems related to optimization and reproducibility of the enhancement factors, uniformity of the substrates and proximity of the analyte molecules to the metallic surface. In this communication, we present several examples of novel strategies based on colloid chemistry, to fabricate highly efficient nanostructured SERS substrates that overcome some of the drawbacks of the technique. Shape control, directed nanoparticle assembly, and different types of responsive polymer substrates have been shown to yield ultrasensitive detection of a wide variety of analytes, including environmental contaminants such as dioxins or DDT, as well as infectious proteins such as scrambled prions.

References:

1. L. Rodríguez-Lorenzo et al., *Zeptomol detection through controlled ultrasensitive surface-enhanced Raman scattering*, *J. Am. Chem. Soc.* **2009**, *131*, 4616-4618
2. R.A. Álvarez-Puebla et al., *Au@pNIPAM colloids as molecular traps for surface-enhanced, spectroscopic, ultra-sensitive analysis*, *Angew. Chem. Int. Ed.* **2009**, *48*, 138-143
3. S. Abalde-Cela et al., *Loading of Exponentially Grown LBL Films with Silver Nanoparticles and their Application for Generalized SERS Detection*, *Angew. Chem. Int. Ed.* **2009**, *48*, 5326-5329
4. A. Sánchez-Iglesias et al., *Chemical Growth of Ag Nanopillars on Au Nanoparticle Arrays and Application as Reproducible SERS Substrates*, *Nano Today* **2010**, *5*, 21-27
5. M. Yang et al., *SERS-Active Gold Lace Nanoshells with Built-in Hotspots*, *Nano Lett.* **2010**, *10*, 4013-4019
6. R.A. Alvarez-Puebla et al., *Real-Time Detection of Scrambled Prions on 3D Supercrystals of Gold Nanorods*, *Proc. Natl. Acad. Sci. USA*, in press. doi: 10.1073/pnas.1016530108

CONFERENCIA PLENARIA



Bipolar electrodes: fundamentals, sensing, and concentration enrichment in microelectrochemical systems

Richard M. Crooks

Stephen Fosdick, Robbyn Perdue, Eoin Sheridan

*The University of Texas at Austin, Department of Chemistry and Biochemistry
1 University Station, A5300
Austin, Texas, 78712-0165, USA
crooks@cm.utexas.edu*

*Dzmitry Hlushkou and Ulrich Tallarek
Department of Chemistry, Philipps-Universität Marburg, Hans-Meerwein-Strasse
35032 Marburg, Germany*

This presentation focuses on the fundamental principles of bipolar electrochemistry and how systems based on these principles can be used for chemical sensing and concentration enrichment of analytes present at low concentration. An important aspect of bipolar electrodes (BPEs) is that they do not require a direct external electrical connection, and this means they are well-suited for both nanoscale electrochemistry applications, where it might be difficult to make such connections, and for high-density electrode arrays, where it would be impractical to make thousands or millions of individual electrode connections.

The talk will begin with a comparison of traditional three-electrode electrochemistry and bipolar electrochemistry. The key point here is that both methods rely on exerting control over the potential difference at the electrode/solution interface, but in bipolar electrochemistry it is the potential of the solution that is modulated rather than the electrode potential. Another important aspect of bipolar electrochemistry is that the rates of faradaic processes at the anodic and cathodic poles of a BPE must be identical to ensure charge neutrality. Accordingly, it is possible to use an observable electrochemical process, such as silver electrodisolution, as an indirect measure of the current associated with a sensing event at the cathodic pole of the BPE. Because silver dissolution can be observed visually, it is possible to simply and simultaneously read-out electrochemical array sensors consisting of thousands of electrodes.

Bipolar electrodes can also be configured to modulate the local electric field within a microfluidic channel. This means it is possible to balance the electroosmotic and electrophoretic velocity of an analyte at a particular location in a channel. We will discuss the fundamental principles of this process in the context of both high-level simulations and experiments, and then demonstrate an application that leads to analyte concentration enrichment by a factor of 500 000, and a second application in which the BPE enables simultaneous enrichment and separation. BPEs can also be used to bring two separated microfluidic channels into electrical contact, and this provides a means for implementing a method we call faradaic ion concentration polarization.

CONFERENCIA PLENARIA



Exploring Cellular Dynamics at Nanoscale

K :-

**Technical University of Denmark, Department of Micro and Nanotechnology
Produktionstorvet, Building 423, 2800 Kgs. Lyngby,
DENMARK**

Jenny.Emneus@nanotech.dtu.dk

“Exploring Cellular Dynamics at Nanoscale” (EXCELL) is a multidisciplinary EU FP7 collaboration to design novel Lab-on-a-Chip tools required for real-time monitoring of cellular dynamics not usually employed in Biology. This lecture presents course of developments towards a microfluidic array cell culture and analysis system. The compactness of the system facilitates monitoring of cellular dynamics using an integrated electrode microchip comprising 12 electrode arrays and ports for optical detection and an ad-hoc low noise multichannel potentiostat to obtain an optimal signal to noise ratio for precise measurements from single cells or a small cell population. The designed and fabricated 24-channel potentiostat facilitates different electrochemical techniques, such as low noise amperometric recordings down to low pA level, fast scan cyclic voltammetry (CV) up to 2.5 kV/s and fast impedance spectroscopic (IS) tracking from 1 mHz to 100 kHz. All the electrochemical assays and analysis of the recorded results are conducted using a custom-made software. Microfluidic experiments are run using a programmable multichannel pump platform, which is operated by step motor-driven peristaltic micropumps. The culture system with integrated electrode microchip is mounted on the pump platform and coupled to the potentiostat to form a complete Lab-on-a-Chip experimental setup. The programmability allows fluidic delivery in complex patterns making possible to run on-line electrode cleaning, modification, cell seeding, culturing, and cell-based analytical assays. The design of the cell culture chambers was shown to be suitable for cell seeding, perfusion culture and performing electrochemical assays. The usability of the presented system is demonstrated with two cell-based applications: monitoring of (i) redox metabolism and seeding of yeast cells and (ii) dopamine exocytosis from cultivated PC12 cells. Validation of results from yeast cells and a population of PC12 cells will be largely discussed.



CONFERENCIA PLENARIA

The proteome Argonauts: conquering the “golden fleece” of alcoholic beverages and soft drinks via combinatorial peptide ligands

Pier Giorgio Righetti

*Politecnico di Milano, Department of Chemistry, Materials and Chemical Engineering "Giulio Natta",
Via Mancinelli 7, Milano 20131, Italy*

<http://www.chem.polimi.it/people/faculty/pier-giorgio-righetti/>

Proteomic science has been vastly exploited in the past ten years for biomarker discovery in sera, in search of panels of proteins able to warn about the onset of various diseases. According to Mitchell (Nature Biotech. 28, 2010, 665-670), this has been the biggest “fiasco” in this arena, with billions of dollars wasted. Completely different results have been obtained by us when analyzing a “fiasco” (a 1.5 liter jug) of white or red wine, with the combinatorial peptide ligand library (CPLL) technology. It turns out that most wine producers treat white wines with casein (and red wines with egg albumen) in order to eliminate residual grape proteins that would flocculate upon long term storage. Although required by EC rulers, no producer has ever stated the residual amount of these allergenic additives in their product. With the CPLL technology, we were able to detect as little as 1 µg casein/L, an extremely high detection sensitivity, unreported up to the present (the official ELISA test of the EC reached barely down to 200 µg/L). However, if untreated wines are analyzed, we can detect well over 100 residual grape proteins present in wines, this suggesting the possibility of proteo-typing grand crus against counterfeited products invading the market. We will additionally report proteo-typing of beers as well as different carbonated soft beverages. One could thus easily distinguish among artificial beverages, made only with synthetic additives and flavours (Coca Cola being a classical example) vs. genuine products made with plant extracts. Examples will be given on proteome analysis of, e.g., almond milk, orgeat, Cola beverages and the like. Regulatory agencies and customers would thus have a new, formidable tool for protection against adulterated and counterfeited foodstuff and beverages.

References:

- Cereda A, Kravchuk AV, D'Amato A, Bachi A, Righetti PG. *Proteomics of wine additives: Mining for the invisible via combinatorial peptide ligand libraries. J. Proteomics* **2010**, 73, 1732-1739.
- D'Amato A, Kravchuk AV, Bachi A, Righetti PG. *Noah's nectar: The proteome content of a glass of red wine. J. Proteomics* **2010**, 73, 2370-2377.
- Fasoli E, Aldini G, Regazzoni L, Kravchuk AV, Citterio A, Righetti PG. *Les Maîtres de l'Orge: The Proteome Content of Your Beer Mug J. Proteome Res.* **2010**, 9, 5262-5269.

COMUNICACIÓN INVITADA

**THE CHARACTERIZATION OF OIL SPILLS:
A CHALLENGE FOR ANALYTICAL CHEMISTRY**

Joan Albaigés, Josep M. Bayona, Carmen Domínguez, Jagos Radovic, Altamira Arcos
Department of Environmental Chemistry. CSIC
Jordi Girona, 18-36. 08034-Barcelona, España

Marine pollution by oil is a well known problem that has become particularly evident at the time of massive accidental spills, such as the *Prestige* or, more recently, the *Deepwater Horizon* platform in the Gulf of Mexico. However, operational discharges in coastal areas or offshore (e.g. urban effluents or oil tank washings) are more widespread and become confused with the accidental spills, when the acute phase is gone.

To illustrate the relevance of the problem, Figure 1 shows the number of spills detected by satellite to over 2009 in European coastal waters.



Figure 1. Remote sensing of oil spills in 2009
(European Maritime Safety Agency / CleanSeaNet 2010)

In order to address the issues that such discharges pose, including their early detection and the precise determination of the sources, in the last decade significant advances have been taking place thanks to the contributions, among others, of the Instrumental Analysis.

The presentation will show the approach taken in Europe to establish a surveillance system of oil spills, from remote sensing to the collection of samples and their final identification. Efficient and unambiguous analytical methods for the characterization of these spillages are needed from the standpoint of the enforcement of the pollution control laws, designed to protect the public health and the environment. In this respect, we will describe the methodology adopted and currently assessed by the *Oil Spill Identification Network of Experts (OSINET)*, which will be illustrated by the results of several real cases.

Sampling is the first step in obtaining information about the spill. Designing a comprehensive oil source sampling plan is fundamental in the investigative efforts of an oil spill, and collection of oil from both the spill and the suspected source(s) is crucial to any forensic program. Sampling at sea is

carried out with special devices for collecting surface oil, patches, slicks or sheens. Sampling of tanks on the vessels must be comprehensive and representative. The chain of custody of the samples is essential to ensure the validity of any disciplinary process that may arise.

The identification of the samples is carried out by GC-MS, considering different sectors of the chromatographic profile and the hydrocarbon families associated with them. These include *n*-alkanes, acyclic isoprenoids, sesquiterpanes, steranes, triterpanes and alkyl aromatics. To this end, a number of source and weathering indices, based on the determination of specific compounds (molecular markers) have been proposed for comparison of samples, and multivariate statistical methods are applied to improve the diagnostic capability of this methodology. Obviously, the specific distributions of hydrocarbon families need to be properly used for the characterization of the spills. Particularly, the effects of the processes of evaporation, dissolution, photooxidation and biodegradation on the spilled samples need to be taken into account for the adequate interpretation of the results.

The samples are considered to match to a high degree of scientific certainty when the differences in the chromatographic patterns and diagnostic ratios of samples submitted for comparison are lower than the variability of the method or can be explained unequivocally, for example by weathering. These criteria are illustrated with examples of accidental and operational discharges.

Among the former we refer to a spill of heavy fuel oil following the *Tricolor* and *Vicky* incident in the British Channel, and another in the Strait of Gibraltar (Figure 2). In both cases, the aging of the samples collected at sea was a factor to be taken into account when making comparisons with reference samples. The diagnostic criteria used in the comparison of potential sources with different samples collected at sea, showing varying degrees of evaporation and photooxidation will be shown.



Figure 2. Oil spill in the Strait of Gibraltar (Source: SASEMAR)

Among the operational discharges, the most common are those related to washing tanks or bilges. In this case, the identification of such residues is particularly difficult because its composition, a mixture of products used in a vessel (fuel oils and lubricating oils), is very variable. The lack of homogeneity of the samples stored in the bilge is the main difficulty. The difficulties are even more important when spills occur in ports, where potential sources are numerous. In this case, we present two cases of spills occurred in fishing ports, where the cause of the spill among four potential sources should be identified.

COMUNICACIÓN INVITADA



"PET-CT in preclinical cancer research"

Francisca Mulero

*Head of the Molecular Imaging Unit
CNIO (Spanish National Cancer Research Centre)*

<http://www.cnio.es/es/index.asp>

In the field of molecular imaging, in-vivo preclinical imaging has become increasingly important to academic researchers and especially to those involved in the drug development process. Recent improvements in the Molecular Imaging technologies employed to image small animals are helping to generate better data, and at a more prodigious rate than ever.

In the past, mouse & rat models of Human Disease are usually studied using invasive techniques, which sacrifice the animal. Although these techniques are well established, there are several major disadvantages to this approach:

- A large number of animals is necessary in order for a study to achieve statistical significance
- Follow-up or longitudinal studies are generally not possible on the same animal
- Metabolism studies, for efficacy, are difficult to obtain
- A large amount of economic and labor resources is required

However, over the past few years, in vivo Imaging Systems for small animals have become increasingly popular, including:

- X-ray micro CT (computed tomography)
- MRI (magnetic resonance imaging)
- Ultrasound
- Micro-PET (positron emission tomography)
- Micro-SPECT (single photon emission computed tomography)
- Optical (luminescence & fluorescence)

Of these technologies, only the Nuclear Imaging Modalities (PET & SPECT) can provide the sensitivities required to obtain the same physiological imaging acuity in small animals as can be obtained from humans. These modalities greatly facilitate the translation of preclinical studies to applications in the clinic!

Micro-PET-CT (Multimodality):

- Best suited for small molecules and molecules with fast assay kinetics
- Higher sensitivity (3-4% on average)
- Strong quantitation
- Sensitivity and resolution nonuniform throughout imaging chamber
- Expensive tracers with short half-lives, lower specific activity
- Subject receives 5-10x radiation dose of SPECT

Tumour imaging in live mice has opened new avenues for research and the ability to perform longitudinal studies in combination with therapeutic interventions using a wide range of techniques.

In our group we have developed methods to optimise visualisation of murine tumours using ¹⁸F-FDG, F18-MISO, Gallium 68 etc PET, CT and multimodal PET-CT. PET detects mouse tumour uptake of radiolabelled probes. The use of this technology in mice is of moderate spatial resolution (~1 mm) but compensated by its unparalleled sensitivity in detecting tumours. Standard PET technology exploits the high glucose avidity of cancer masses using labelled glucose analogs. PET capabilities are rapidly expanding to measure other functional properties of tumours, such as cellular proliferation, hypoxia and apoptosis.

CT allows visualization of anatomical structures with high resolution (~50 µm) but the ability to identify tumours greatly depends on the differential absorption of radiation between the tumour and its surrounding tissue. The combination of PET and CT overcomes the intrinsic limitations of each technology, combining the high sensitivity of PET and high resolution of CT and offering an unprecedented ability to identify tumours, their functional status and dynamics.

These modalities greatly facilitate the translation of preclinical studies to applications in the clinic.

Overall, cancer researchers investigating a wide variety of targets and mechanisms of action will likely want access to both of these technologies to evaluate candidate absorption, distribution, metabolism, excretion and toxicology characteristics.

The results obtained so far from leading researchers around the world prove that we're taking preclinical molecular imaging to a new level of performance. In our group we have assessed the importance of parameters that are critical when imaging cancer in mice using CT, PET and Combined PET-CT. Adherence to a very careful handling of the mice while carrying out the study is of key importance since the mice may undergo unusual situations which may turn out to be fatal for them.

It is also essential that each study be customized to the specific mouse strain or genetically-modified mouse cohort being analyzed, adapting fasting, times and dosages of the anesthetics. Maintenance of body temperature and other vital constants are also fundamental, as is the monitoring of mice after anesthesia during recovery time, which is both essential for their wellbeing as well as a successful outcome. Handling of the mice has a profound impact on ¹⁸F-FDG biodistribution and significantly influences tumour visualization. Varying the fasting state, body temperature, and mode of anesthesia may affect ¹⁸F-FDG uptake in normal organs by one order of magnitude and in tumours by a factor of 3.7-x fold.

The influence of blood glucose and insulin levels on ¹⁸F-FDG biodistribution is well known. Given that ¹⁸F-FDG competes with glucose for intracellular transport and phosphorylation, tumour ¹⁸F-FDG uptake decreases with increasing blood glucose levels. Tumour ¹⁸F-FDG uptake and image contrast are lower in the non-fasted state (high insulin and glucose levels) than in the fasted state (low insulin and glucose levels).

As longitudinal studies progress through time so does tumour development and the health status of the mice deteriorates progressively. At the beginning of the studies we have to optimize all the acquisition parameters so that the tumour quantification results obtained are not altered. We have to anticipate similar situations throughout the study since the quality of life of the mice will worsen as the longitudinal study progresses.

COMUNICACIÓN INVITADA



Influence of packaging on food safety: Analytical challenges

Cristina Nerín de la Puerta

*I3A (Instituto de Investigación en Ingeniería de Aragón), Depto. Química Analítica,
Universidad de Zaragoza, Campus Rio Ebro, María de Luna 3, 50018
Zaragoza, Spain*

Food contact materials have been recognized as potential source of contaminants for food, as it has been admitted that most of the compounds having molecular weight below 1000 amu can migrate from the material to the food in contact with them. To guaranty the food safety, the legislation either in Food and Drug Administration (FDA), Japan, Australia, Mercosur and European Union (EU) regulate the chemical substances that could be used to produce the materials in contact with food and limit the maximum concentration that they could have either in the material or in the food. Most materials are regulated, including any kind of plastics, glass, ceramic, metals, regenerated cellulose as well as those currently used for specific applications such as the gaskets or lids for hermetic glass jars or the lacquers used to cover the internal side of cans, among others. Although there is a long list of chemical substances and consequently a wide series of compounds to be checked in both the materials and the food in contact with them, the control of the materials in contact with food is still a challenge, as new materials, new compounds to provide new functionalities as well as the current changes in the competitive market of food packaging materials add many difficulties to this kind of job.

The first problem to point out is the lack of knowledge about the composition of the materials, as it is not declared by the manufacturers. Thus, screening procedures are required at very low concentration level, initially in the packaging material and further in the food. Sometimes the migration takes place from an unexpected layer, which is not designed for being in direct contact with the food, as happens for example with the printing inks, adhesives or secondary packaging. There are also likely interactions between different components of the given formula, for example in adhesives, printing inks and varnishes, which result in new and unexpected migrants in the final packaging. This fact is sometimes even unknown by the producers of the materials. This situation opens another issue, such as the presence of Non Intentionally Added Substances (NIAS), which has been included as well in the EU legislation and it poses an even more challenging task.

The aim is not only to identify and quantify the migrants in the food, but also to know where they are coming from in order to remove them from the packaging material. As the maximum established limits of specific migration are often very low, of only some ng g⁻¹ in food, it is essential to be sure that there is not crossed contamination or analytical artifacts, which would invalidate the final results.

It is clear that all these problems require analytical procedures, able to detect and quantify many different compounds in difficult matrices. The strategies and several approaches to cope with them will be shown and discussed with the help of some illustrative examples.

COMUNICACIÓN INVITADA

**Protein Chips for Biomarker and Drug Discovery****Manuel Fuentes PhD.****Centro de Investigación del Cáncer. Universidad de Salamanca-CSIC.****Campus Miguel de Unamuno s/n. 37007 Salamanca**

Now that the human genome has largely been sequenced, one of the most important pursuits is to understand the function of proteins it encodes. Despite immense progress in molecular biology and genetics, only a small fraction of the proteome is understood at the biochemical level. Systems biology and proteomics strive to create detailed predictive models for molecular pathways based upon the quantitative behavior of proteins. Understanding these dynamic networks provides clues into the consequence of aberrant interactions and why they lead to diseases like cancer. However, collecting biochemical data about protein behavior at scale has been daunting. Historically, methods capable of collecting quantitative data on biochemical interactions could only be used for one or a few proteins at the time. Here, we show the combination of two technologies that together could lead to the ability to measure binding events in real time for many protein interactions simultaneously using a label free technology. This could revolutionize the study of protein interactions networks by enabling quantitative comparisons of binding affinities across many molecular species, as well determining the kinetics rates of binding and release.

The first technology is protein microarrays, which display thousands of proteins in high density and enable their simultaneous biochemical characterization. We use Nucleic Acid Programmable Protein Arrays (NAPPA), as a method for producing the microarrays, because they replace the complex process of spotting purified proteins with the simpler process of spotting plasmid DNA. The proteins can then be simultaneously transcribed/translated *in situ* at the time of the assay. The second technology is a surface plasmon resonance imaging (SPRi) device that has been adapted to multiplexed binding events from a planar surface and is compatible with the protein microarray. In addition this technique is sensitive, accurate and provides real-time data for both the equilibrium and the interaction kinetics. The project is focused at coupling NAPPA protein array technology to multiplexed realtime label-free SPRi-based detection system (which allows thousands of binding events to be monitored in real-time without any loss in sensitivity). By SPRi we were able to detect binary interactions using NAPPA format. The combination of both technologies allows us to generate detailed kinetic data of interaction pathways.

COMUNICACIÓN INVITADA

**Antidoping control, cross road between Chemistry and other Life Sciences***Jordi Segura**IMIM-Hospital del Mar Research Institute, Barcelona
Department CEXS, Pompeu Fabra University, Barcelona
jsegura@imim.es*

Most of the compounds included in the list of prohibited drugs in human and animal sports are low molecular weight compounds. The detection of their misuse is performed through the analysis in biological samples (mainly urine) of the parent compounds or their metabolites. The metabolism of the compounds has to be known in order to identify the best markers to detect their administration. In antidoping control, chemical screening methods addressing groups of compounds with similar physicochemical properties are applied to all samples to eliminate "true negative" specimens. For first-round suspicious samples, a confirmation method based on mass spectrometry (MS), specific for the compound detected, is applied. Gas or liquid chromatography coupled to MS are the most used techniques. Due to the stringent requirements in sensitivity and specificity, high performance chromatography coupled to high resolution MS or tandem MS (MS-MS) is applied for some compounds.

However, another relevant challenge nowadays is to detect those doping substances available thanks to biotechnological advances that bear the same (or nearly the same) structure than the endogenous counterparts. To face this issue requires a deep overlapping between chemistry and other established methodologies in life sciences.

In this regards, erythropoietin is one of the most powerful doping agents although its detection by differentiating the recombinant variants from the endogenously produced hormone is one of the most demanding challenges. An important focus was set on the structural elucidation of the variability of the protein structure with particular attention to the glycans.

Growth hormone (GH) is also an active playground for the anti-doping research. Over the last decade substantial efforts were put into the development of analytical protocols for this family of compounds. Based on the philosophy that the relatively stable endogenous ratio between isoforms should be altered through the administration of a single recombinant pharmaceutical, differential immunoassays have been successfully developed. In this approach where the ratio between the 22 kDa and all pituitary variants is determined, precise knowledge on the relative avidity and affinity of each antibody to different isoforms was established by means of surface plasmon resonance, thus facilitating the precise interpretation of immunoassays results. Also related with GH, the synthetic growth hormone Secretagogues (ghrelin analogs and mimetics) which target the GHS-1a receptor have been studied. A protocol based on the displacement of labeled ghrelin from incubations with receptor expressing cells is being developed. This time, the analytical protocol will be in place even before any doping attempt by those compounds.

As evident from the above paragraphs, challenges in sports drug testing come from different areas, and science will need to cope with them. For instance, the use of blood transfusion, especially the so-called autologous transfusion. In this regards, indirect markers, such as the unexpectedly high concentrations of phthalates in urine (leaking from the plastic materials of the bags containing blood) are becoming useful to identify potential cheaters.

New analytical advances shall be implemented, mainly on MS and nanotechnologies. Also permanent surveillance of pharmaceutical developments that may be misused in sport, is mandatory. However, the biggest challenge for the next decade may come probably from the application of the so-called gene doping, which gives rise to the *in vivo* expression of a performance enhancing hormone in commonly non-expressing human tissues. Next years will also see an increment in the longitudinal follow-up of individual athletes (biological passport) to rapidly identify any unnatural deviation of key biochemical parameters.

SESIÓN DE PÓSTERS – LUNES 14 DE NOVIEMBRE

Medio Ambiente
Automatización y Miniaturización
Nanotecnología
Desarrollo en Instrumentación Analítica

Medio Ambiente

- MAM-P01** M. Alier Pedemonte ; B.L. van Drooge ; M. Dall'Osto ; R. Tauler ; J.O. Grimalt
ORGANIC COMPOUND ANALYSIS AND CHEMOMETRIC STUDY IN URBAN FINE PARTICULATE MATTER (PM1)
- MAM-P02** D. Almarcha ; J. Caixach Gamisans
COMPARISON OF SLE, SPME AND THERMAL DESORPTION FOR SEMI-QUANTITATIVE VOC SCREENING IN AIR EMISSIONS FROM ENVIRONMENTAL TREATMENT FACILITIES
- MAM-P03** L. Almela ; P. Andreo ; P. Almela ; C. Veracruz ; A. Valero ; L. Coll ; J.A. Albaladejo
GC-TANDEM QUADRUPOLE GC-MS/MS VS GC-HRMS FOR THE ANALYSIS OF POLYCHLORINATED DIOXINS AND FURANS
- MAM-P04** M. Alonso; A. Godayol ; E. Anticó ; J.M. Sanchez
NEEDLE-TRAP ANALYSIS OF PRIORITY VOLATILE ORGANIC COMPOUNDS FROM NATURAL AND WASTEWATER SAMPLES: EVALUATION OF DIFFERENT SAMPLING PROCEDURES
- MAM-P05** M. Alonso Castillo ; I. Sánchez Trujillo ; A. García de Torres ; E. Vereda Alonso ; J.M. Cano Pavón
DETERMINATION OF TRACE PB IN SEA-WATER BY SOLID PHASE EXTRACTION COUPLED WITH FI-HG-ETAAS
- MAM-P06** I. Aparicio Gómez ; J. Martín ; D. Camacho-Muñoz ; J.L. Santos ; E. Alonso
DISPERSIVE LIQUID-LIQUID MICROEXTRACTION APPLIED TO THE EXTRACTION OF PRIORITY POLLUTANTS FROM ENVIRONMENTAL AQUEOUS SAMPLES
- MAM-P07** P. Arbeláez Salazar ; J. Granados ; F. Borrull ; E. Pocurull ; R.M. Marcé
LIQUID CHROMATOGRAPHY TANDEM MASS SPECTROMETRY TO DETERMINE SEDATIVE HYPNOTICS IN WASTEWATER, SURFACE WATER AND SEWAGE SLUDGE
- MAM-P08** A. Arcos Manso ; J. Radovic ; C. Domínguez ; J.M. Bayona
DEGRADACIÓN DE VERTIDOS PETROGÉNICOS POR FOTOOXIDACIÓN
- MAM-P09** A.M. Ares Sacristán ; M.J. Nozal ; M. Higes ; J.L. Bernal ; J. Bernal
LC-MS/MS FOR DETERMINING JUVENILE HORMONE IN HONEY BEE HEMOLYMPH
- MAM-P10** M. Asensio Ramos ; J. Hernández-Borges ; L.M. Ravelo-Pérez ; M.M. Afonso ; J.A. Palenzuela ; M.A. Rodríguez-Delgado
1,3-DIPENTYLIMIDAZOLIUM HEXAFLUOROPHOSPHATE IONIC LIQUID AS A NEW EXTRACTION SOLVENT IN DISPERSIVE LIQUID-LIQUID MICROEXTRACTION: EXTRACTION OF PESTICIDES AND METABOLITES FROM SOILS

- MAM-P11** O. Ballesteros Garcia ; C. Fernández-Ramos ; A. Zafra-Gómez ; R. Blanc ; A. Navalón ; J.L. Vilchez
DEVELOPMENT OF A LC-ESI-MS/MS METHOD FOR THE ANALYSIS OF ALCOHOL ETOXYSULFATES IN WASTEWATER TREATMENT PLANTS FROM GRANADA
- MAM-P12** E. Barrado ; K. Aguilar-Arteaga ; J.A. Rodríguez ; M.E. Páez-Hernández ; C. Díez
MAGNETIC SOLID PHASE EXTRACTION FOLLOWED BY HPLC FOR ANALYSIS OF ATRAZINE AND SIMAZINE IN WATER SAMPLES
- MAM-P13** R.S. Barranquero ; M. Varni ; A. Ruiz de Galarreta
HYDROCHEMICAL ANALYSIS OF GROUNDWATER IN LANGUEYÚ CREEK BASIN, TANDIL, ARGENTINA
- MAM-P14** M.A. Barrero Mazquiarán ; M. González Aguirre ; L. Cantón
CLASSIFICATION OF ATMOSPHERIC AMBIENTS BY AEROSOL PARTICULATE PARAMETERS AND CHEMICAL COMPOSITION
- MAM-P15** R.J. Barrio ; R. Gutierrez-Climente ; A. Gómez-Caballero ; N. Unceta ; M.A. Goicolea
OPTIMIZATION OF POLY (STYRENE-CO-DIVINYLBENZENE) SYNTHESIS FOR THE DEVELOPMENT TO TAILOR-MADE HPLC COLUMNS. APPLICATION TO PESTICIDES SEPARATION
- MAM-P16** M. Beneito Cambra ; L. Ripoll-Seguer ; J.M. Herrero-Martínez ; E.F. Simó-Alfonso ; G. Ramis-Ramos
CHROMATOGRAPHIC ANALYSIS OF NON IONIC AND ANIONIC ETHOXYLATED SURFACTANTS IN CLEANING PRODUCTS
- MAM-P17** M.R. Boleda Vall-llovera ; M.T. Galceran ; F. Ventura
ANALYSIS OF 44 SELECTED PRIORITY PHARMACEUTICALS IN WATERS AT TRACE LEVELS BY AN ON-LINE SPE LIQUID CHROMATOGRAPHY TANDEM MASS SPECTROMETRY MULTIRESIDUE METHOD
- MAM-P18** G. Bolívar Subirats ; H. Gallart-Ayala ; E. Moyano ; M.T. Galceran
UHPLC-MS/MS FOR THE MONITORING OF GIBBERELLINS AT DIFFERENT GROWTH STAGES IN FRUIT TREES
- MAM-P19** C. Caballo Linares ; M.D. Sicilia Criado ; S. Rubio Bravo
STEREOSELECTIVE DETERMINATION OF MECOPROP AND DICHLORPROP IN NATURAL WATERS BY SUPRAMOLECULAR SOLVENT-BASED MICROEXTRACTION AND LIQUID CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY
- MAM-P20** C. Corcellas ; M.L. Feo ; J.P.M. Torres ; O. Malm ; W. Ocampo-Duque ; E. Eljarrat ; D. Barceló
PYRETHROIDS: NEW CONTAMINANTS IN HUMAN BREAST MILK
- MAM-P21** E. Cirera-Domènech ; F. Broto -Puig ; C. Ribas-Font ; L. Comellas-Riera ; S. Paz-Estivill ; R. Delgado-Ortiz
DETERMINATION OF 13 ALDEHYDES AND KETONES-DNPH IN AUTOMOTIVE EMISSIONS SAMPLES BY HPLC-UV
- MAM-P22** E.Y. Companioni Damas ; F.J. Santos ; M.T. Galceran
ANALYSIS OF SILOXANES IN WATER BY SOLID PHASE EXTRACTION- LARGE VOLUME SPLITLESS INJECTION-GAS CHROMATOGRAPHY MASS SPECTROMETRY
- MAM-P23** A. Dago Busquets ; C. Ariño ; J.M. Díaz-Cruz ; M. Esteban
ANALYSIS OF THE PHYTOCHELATINS AND HG-PHYTOCHELATIN COMPLEXES INDUCED BY HG IN HORDEUM VULGARE: HPLC WITH AMPEROMETRIC DETECTION STUDY

- MAM-P24** C. Domeño ; E. Canellas ; P. Alfaro ; A. Rodríguez-Lafuente ; C. Nerín
APGC-MS-Q-TOF FOR DETECTION AND QUANTIFICATION OF PAHS AND NITROPAHS IN MOSSES
- MAM-P25** E. Fernandez ; A. Rosell
QUECHERS SAMPLE PREPARATION METHOD FOR THE ANALYSIS OF PERSISTENT ORGANIC POLLUTANTS IN FISH
- MAM-P26** M. Fontal ; J.F. López ; B. Van Drooge ; P. Fernández ; J.O. Grimalt
DEVELOPMENT OF AN ANALYTICAL METHOD FOR THE ANALYSIS OF ACCELERATED SOLVENT EXTRACTION AND HPLC FRACTIONATION ORGANIC COMPOUNDS IN URBAN SUBMICRON AEROSOLS (PM1) BY ACCELERATED SOLVENT EXTRACTION AND HPLC FRACTIONATION
- MAM-P27** P. Gago Ferrero ; M. Badia-Fabregat ; P. Blánquez ; T. Vicent ; G. Caminal ; M.S. Díaz-Cruz ; D. Barceló
IDENTIFICATION AND STRUCTURAL ELUCIDATION OF THE MAIN METABOLITES OF THE SUNSCREENS BP3 AND BP1 FORMED IN THE DEGRADATION PROCESS BY THE FUNGUS TRAMETES VERSICOLOR
- MAM-P28** D. García Casillas ; S. García Salgado ; M.A. Quijano Nieto ; M.M. Bonilla Simón
APPLICATION OF ULTRASOUND PROBE SONICATION FOR ARSENIC AND HEAVY METAL EXTRACTION IN SOILS
- MAM-P29** M.J. García Galán ; M.S. Díaz Cruz ; D. Barceló
SIMULATED SOLAR LIGHT IRRADIATION OF SULFONAMIDES AND THEIR ACETYLATED METABOLITES IN WATER: KINETIC STUDIES AND IDENTIFICATION OF PHOTODEGRADATION PRODUCTS
- MAM-P30** D. García Mutio ; M.C. Sampedro ; M. Arbulu ; A. Gómez-Caballero ; M.A. Goicolea
A RETENTION TIME LOCKED GC-MS METHOD BASED ON SOLID PHASE MICROEXTRACTION FOR DETERMINATION OF ORGANIC PRIORITY POLLUTANTS IN LANDFILL LEACHATES
- MAM-P31** A. Garcia Rodriguez ; C. Fontàs ; V. Matamoros ; V. Salvadó
EVALUATION OF THE USE OF AQUATIC PLANTS AND ALGAE TO ATTENUATE ANTIBIOTIC CONTAMINATION: A LABORATORY STUDY
- MAM-P32** N. Gilart Alzuria ; N. Fontanals ; R.M. Marcé ; F. Borrull
AN EFFECTIVE CLEAN-UP FOR ACIDIC PHARMACEUTICALS IN WASTEWATER BY SPE-LC-MS/MS
- MAM-P33** M.J. Gismera ; M. Polo ; N. Sánchez ; J.R. Procopio ; M.T. Sevilla
EVALUATION OF TOXICITY BY HEAVY METALS IN GEOLOGICAL BARRIER OF MUNICIPAL SOLID WASTE LANDFILLS USING LUMINESCENCE INHIBITION TEST
- MAM-P34** A. Godayol Boix ; M. Alonso ; J.M. Sanchez ; E. Anticó
NEW APPROACH TO THE MONITORING OF ODOUR-CAUSING COMPOUNDS IN AIR SAMPLES FROM WASTEWATER TREATMENT PLANTS BY SOLID-PHASE MICROEXTRACTION FOLLOWED BY GAS CHROMATOGRAPHY-MASS SPECTROMETRY
- MAM-P35** M. Goikoetxea Beobide ; M.A. Barrero ; L. Cantón
APPLICATION OF AN AUTOMATED CHROMATOGRAPHIC SYSTEM FOR VOCs SOURCES CHARACTERISATION IN AN URBAN ATMOSPHERE

- MAM-P36** C. Gonzalez de Vega ; L. Lobo ; B. Fernández ; R. Pereiro ; N. Bordel ; A. Sanz-Medel
APPLICATION OF PULSED GLOW DISCHARGE TIME OF FLIGHT MASS SPECTROMETRY TO THE ANALYSIS OF BROMINATED FLAME RETARDANTS: SCREENING OF POLYMER-BASED FILMS
- MAM-P37** J.A. González Pérez ; D. Badía ; B. Arjona ; F.J. González-Vila
RAPID DETECTION OF POLYCYCLIC ALIPHATIC HYDROCARBONS IN COMPLEX ORGANIC MATRICES USING ANALYTICAL PYROLYSIS (Py-GC/MS)
- MAM-P38** A. González ; I. Lliso ; S. Garrigues ; S. Armenta ; M. de la Guardia
ANALYSIS OF VOLATILE AND SEMIVOLATILE ORGANIC COMPOUNDS IN INDOOR AIR BY LIQUID MICROEXTRACTION USING PASSIVE SAMPLING
- MAM-P39** G. Gotor Navarra ; C. Nolla Garrido ; F. Broto-Puig ; J. Báguena Polo ; M.J. Blanco Roca ; C. Ribas Font
DETERMINACIÓN DE HAPS POR ASE-HPLC-FLUORESCENCIA EN FILTROS DE CAPTACIÓN DE PARTÍCULAS PM10
- MAM-P40** G. Grueiro Noche ; M.E. Fernández Laespada ; J.L. Pérez Pavón ; B. Moreno Cordero ; S. Muniategui Lorenzo
MICROEXTRACTION BY PACKED SORBENTS (MEPS) FOR THE ANALYSIS OF CHLOROBENZENES IN ENVIRONMENTAL WATER SAMPLES BY GAS CHROMATOGRAPHY MASS SPECTROMETRY
- MAM-P41** M. Hernández Mesa ; C. Cruces-Blanco ; A.M. García-Campaña
DETERMINATION OF 5-NITROIMIDAZOLE RESIDUES IN ENVIRONMENTAL SAMPLES BY MECK WITH UV-DETECTION
- MAM-P42** M. Hidalgo Muñoz ; E. Marguá ; A. Also ; I. Queralt
THE USE OF LIQUID-PHASE MICROEXTRACTION AS PRE CONCENTRATION STRATEGY FOR TRACE METAL DETERMINATION BY TOTAL REFLECTION X-RAY SPECTROMETRY
- MAM-P43** M.S. Larrechi ; C. Fernández ; A. de Juan ; M.P. Callao
ASSESSMENT OF THE EFFECT OF PROCESS VARIABLES ON THE ADSORPTION AND KINETIC CONSTANTS OF C.I. ACID YELLOW 9 PHOTOCATALYTIC DEGRADATION BY HS-MCR-ALS
- MAM-P44** M. Llorca Casamayor ; M. Farré ; Y. Picó ; D. Barceló
ANALYSIS OF PERFLUORINATED COMPOUNDS IN SPANISH TAP WATER
- MAM-P45** P. Manzano San José ; M.J. Nozal ; C. Urdiales ; M.L. Mansilla ; J.C. Diego
APPLICATION OF QUENCHERS METHODOLOGY TO MULTI-TARGET ANALYSIS OF PESTICIDES IN POLLEN
- MAM-P46** M.P. Martínez Moral ; M.T. Tena
DETERMINATION OF BROMINATED DIPHENYL ETHERS IN INDOOR DUST BY FOCUSSED ULTRASOUND SOLID-LIQUID EXTRACTION AND GAS CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY
- MAM-P47** A. Masiá ; M. Ibáñez ; C. Blasco ; J.V. Sancho ; Y. Picó ; F. Hernández
EVALUATION OF QTOF TECHNOLOGY FOR THE IDENTIFICATION AND QUANTIFICATION OF WATER CONTAMINANTS

- MAM-P48** A. Mauri Aucejo ; M. Llobat-Estellés ; M. Gómez Egea ; C. Guillem ; P. Amorós
SAMPLERS FOR VOCS IN AIR BASED ON CYCLODEXTRIN-SILICA HYBRID MICROPOROUS SOLID PHASES
- MAM-P49** C. Mendiguchía Martínez ; R. Montoya ; C. Vergel ; M. García-Vargas ; C. Moreno
A GREEN ANALYTICAL ALTERNATIVE TO ANALYSE NICKEL IN NATURAL WATERS USING A SOLVENT-LESS METHODOLOGY
- MAM-P50** J. Milinovic ; M. Vidal ; S. Lacorte ; A. Rigol
LEACHING OF HEAVY METALS AND ALKYLPHENOLS FROM FRESH AND DRIED SEWAGE SLUDGES
- MAM-P51** M. Mola Arques ; S. Peñalver ; F. Borrull ; C. Aguilar
COMPARATIVE STUDY OF DIFFERENT ANALYTICAL METHODS FOR THE DETERMINATION OF ²³⁸U, ²³⁴U, ²³⁰Th AND ²³²Th ACTIVITIES IN SEDIMENT SAMPLES FROM EBRE RIVER RESERVOIR IN FLIX (SOUTH OF CATALONIA)
- MAM-P52** Y. Moliner Martínez ; R. Herraéz-Hernández ; C. Molins-Legua ; J. Verdú-Andrés ; E. Mantilla-Iglesias ; P. Campins-Faló
SEVERAL STRATEGIES FOR SAMPLING AND DETERMINATION OF MERCAPTANS IN AIR SAMPLES
- MAM-P53** S. Muniategui Lorenzo ; S. Carballo Paradelo ; R.M. Soto Ferreiro ; A. Carlosena ; E. Fernández Fernández ; J.M. Andrade ; P. López Mahía ; D. Prada Rodríguez
PLS TO QUANTIFY Cu IN USED LUBRICATING OILS ANALYSED AS EMULSIONS BY ETAAS
- MAM-P54** A. Nieto Cebrián ; A. Peñalver ; C. Aguilar ; F. Borrull
EVALUATION OF A PILOT PLANT BASED ON REVERSE OSMOSIS TO ELIMINATE RADIONUCLIDES FROM WATER SAMPLES
- MAM-P55** J.E. Olmos Guevara ; A. Bartolomé ; J. Caixach ; F.J. Santos ; M.T. Galceran
ANALYSIS OF CHLORINATED PARAFFINS IN INDOOR DUST BY GAS CHROMATOGRAPHY-NEGATIVE ION CHEMICAL IONIZATION-MASS SPECTROMETRY
- MAM-P56** M. Onghena ; C. Blasco ; M. Farre ; Y. Pico ; D. Barcelo
DETERMINATION OF PERFLUORINATED COMPOUNDS IN IBERIAN RIVERS USING LC-QTOF-MS/MS
- MAM-P57** J. Parera ; J.O. Olmos ; M.G. Martrat ; J. Sauló ; M. Ábalos ; X. Llebria ; F.J. Santos ; E. Abad ; J. Rivera ; M.T. Galceran
DETERMINATION OF MARKER PCBS, PBDES AND CHLORINATED PARAFFINS IN FISH PRODUCTS FROM THE EBRO RIVER DELTA (CATALONIA, SPAIN).
- MAM-P58** V. Pérez Fernández ; E. Dominguez Vega ; B. Chankvetadze ; A.L. Crego ; M.A. García ; M.L. Marina
EVALUATION OF NEW CHIRAL CELLULOSE-BASED STATIONARY PHASES SEPAPAK-2 AND SEPAPAK-4 FOR THE ENANTIOMERIC SEPARATION OF PESTICIDES BY NANO-LC AND CEC
- MAM-P59** F. Pérez Fernández ; M. Llorca ; M. Farré ; D. Barceló
FULLY AUTOMATED ANALYTICAL METHOD FOR THE DETERMINATION OF PERFLUORINATED COMPOUNDS IN HUMAN URINE AND HAIR

- MAM-P60** J.J. Pinto Ganformina ; V. Manuel ; M. Morcote ; M. Dianez ; C. Moreno
PRECONCENTRATION OF COPPER IN NATURAL WATERS BY HOLLOW FIBRE LIQUID PHASE MICROEXTRACTION (HF-LPME). ANALYTICAL PERFORMANCE OF CONTINUUM SOURCE vs. LINE SOURCE AAS SPECTROMETERS
- MAM-P61** C. Planas Pastor ; M. Almarcha ; J. Caixach
EMERGING POLLUTANTS "AVANT LA LETTRE" AND OTHERS: AN EXERCISE ENVIRONMENTAL ANALYTICAL ARCHAEOLOGY
- MAM-P62** M.C. Prieto Blanco ; P. López-Mahía ; P. Campins-Falcó
ION-PAIR IN-TUBE SOLID-PHASE MICROEXTRACTION COUPLED TO CAPILLARY LIQUID CHROMATOGRAPHY USING A TITANIA-BASED COLUMN FOR THE ANALYSIS OF BENZALKONIUM CHLORIDE
- MAM-P63** C. Quesada Molina ; M. del Olmo Iruela ; A.M. García Campaña
DETERMINATION OF CEPHALOSPORIN ANTIBIOTICS IN ENVIRONMENTAL SAMPLES BY CAPILLARY ELECTROPHORESIS USING OFF-LINE AND ON-LINE PRECONCENTRATION
- MAM-P64** I. Racamonde Varela ; P. Gonzalez ; A.M. Carro ; R.A. Lorenzo ; R. Cela
ANALYSIS OF 18 PESTICIDES IN WATER SAMPLES USING A MICRODISPERSIVE TECHNIQUE (DLLME) AND PROGRAMMED TEMPERATURE VAPORIZATION-BASED LARGE VOLUME INJECTION GAS CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY (PTV-LVIGC-MS/MS)
- MAM-P65** J.R. Radovic ; K.V. Thomas ; S. Díez ; J.M. Bayona
CHEMICAL CHARACTERIZATION OF PETROLEUM AS A PART OF EFFECT-DIRECTED ANALYSIS
- MAM-P66** L. Rey Salgueiro ; J. Costa ; M. Ferreira ; M.A. Reis-Henriques
3-HYDROXY-BENZO[A]PYRENE LEVELS IN FISH AFTER WATERBORNE EXPOSURE TO BENZO[A]PYRENE
- MAM-P67** C. Ribas Font ; F. Broto-Puig ; N. Arespacochaga ; J Raich ; G. Gotor
ANÁLISIS DE SILLOXANOS EN BIOGAS DE ESTACIONES DEPURADORAS DE AGUAS RESIDUALES URBANAS. COMPARACIÓN DE DIFERENTES TÉCNICAS DE MUESTREO
- MAM-P68** A. Ríos Castro ; G. Ettiene ; R. Bouza ; M.R. Plata ; A.M. Contento
TRACE DETERMINATION OF NEONICOTINOID INSECTICIDES IN ENVIRONMENTAL MATRICES BY MICELLAR ELECTROKINETIC CHROMATOGRAPHY
- MAM-P69** Y. Rodríguez Espelta ; C. Domínguez ; D.I. Salas ; E. Centelles ; J. Parera ; J. Comas ; J.M. Bayona
INCORPORACIÓN DE METALES PESADOS EN SUELO AGRÍCOLA MEDIANTE LA APLICACIÓN DE PURINES
- MAM-P70** A. Salinas Castillo ; M. Ariza-Avidad ; J. Vukovic ; L.F. Capitan-Vallvey
DISPOSABLE COLORIMETRIC SENSOR ARRAY FOR SCREENING HEAVY METALS
- MAM-P71** C. Sánchez Brunete ; E. Miguel ; B. Albero ; J.L. Tadeo
ANALYSIS OF SALICYLATE AND BENZOPHENONE-TYPE UV FILTERS IN SOILS AND SEDIMENTS BY SIMULTANEOUS EXTRACTION CLEANUP AND GAS CHROMATOGRAPHY-MASS SPECTROMETRY

- MAM-P72** I. Sánchez Trujillo ; A. García de Torres ; E. Vereda Alonso ; M.T. Siles Cordero ; J.M. Cano Pavón
FLOW INJECTION ON-LINE PRECONCENTRATION BY SELECTIVE SOLID PHASE EXTRACTION COUPLED TO HYDRIDE GENERATION-ETAAS FOR ULTRA-TRACE AMOUNTS OF CADMIUM DETERMINATION IN ENVIRONMENTAL WATERS
- MAM-P73** J.A. Sanchís Sandoval ; M. Farré ; D. Barceló
ANALYSIS OF VOLATILE DIMETHYLSILOXANES IN WASTEWATER BY GAS CHROMATOGRAPHY-MASS SPECTROMETRY IN TANDEM
- MAM-P74** J. Silva Felix ; C. Domeño ; C. Nerín
IDENTIFICATION AND QUANTIFICATION OF VOLATILE AND SEMIVOLATILE COMPOUNDS OF WOOD PLASTIC COMPOSITES OBTAINED FROM WASTE LANDFILL MATERIALS
- MAM-P75** M.T. Tena Vázquez de la Torre ; M.P. Martínez-Moral
ULTRA PERFORMANCE LIQUID CHROMATOGRAPHY WITH QUADRUPOLE-TIME OF FLIGHT MASS SPECTROMETRY METHOD FOR PERFLUORINATED ORGANIC COMPOUNDS
- MAM-P76** L. Vallecillos Marsal ; E. Pocurull Aixalà ; F. Borrull Ballarín
FULLY AUTOMATED IONIC LIQUID-BASED HEADSPACE SINGLE DROP MICROEXTRACTION FOLLOWED BY GC-MS/MS TO DETERMINE MUSKS IN WASTEWATER SAMPLES
- MAM-P77** T. Vega Morales ; Z. Sosa-Ferrera ; J.J. Santana-Rodríguez
SIMULTANEOUS DETERMINATION OF ENDOCRINE DISRUPTING CHEMICALS IN WASTEWATER TREATMENT PLANT SAMPLES BY ONLINE-SOLID PHASE EXTRACTION AND UPLC-ESI-MS/MS
- MAM-P78** E.I. Vereda Alonso ; A. Calvo Fornieles ; A. García de Torres ; J.M. Cano Pavón
DETERMINATION OF SB, SN AND BI IN NATURAL WATERS BY FLOW INJECTION-SPE-ICP-MS
- MAM-P79** E. Villaverde de Súa ; R. Rodil ; J.B. Quintana ; R. Ferrero-Refojos ; E. Rubí ; R. Cela
DETERMINATION OF PERFLUORINATED COMPOUNDS IN MOLLUSKS BY MATRIX SOLID-PHASE DISPERSION AND LIQUID CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY
- MAM-P80** K.P. Yáñez Arellano ; M.J. Nozal ; M.T. Martín ; J.L. Bernal ; J. Bernal
A MULTIRESIDUE LC-MS METHOD TO DETERMINE NEONICOTENOIDS IN BEE WAX
- MAM-P81** A. Zapardiel ; M.A. Lorenzo ; A. Sánchez ; M. Moreno ; E. Bermejo ; M. Chicharro
DETERMINACIÓN ELECTROQUÍMICA DE PARABENOS EN AGUAS UTILIZANDO MIP Y ADSORCIÓN EN DISPOSITIVOS NANOESTRUCTURADOS DE CARBONO
- MAM-P82** B. Zonja ; S. Pérez ; D. Barceló
COMBINATION OF QTOF-MS AND QLIT-MS FOR THE IDENTIFICATION AND QUANTIFICATION OF TPS OF ICM IN ENVIRONMENTAL WATERS

Automatización y Miniaturización

- AYM-P01** C. Bosch Ojeda ; F. Sánchez Rojas ; J.M. Cano Pavón
DETERMINATION OF IRON BY DISPERSIVE LIQUID-LIQUID MICROEXTRACTION PROCEDURE IN ENVIRONMENTAL SAMPLES
- AYM-P02** J.I. Cacho Aparicio ; N. Campillo ; P. Viñas ; M. Hernández-Córdoba
SIMULTANEOUS DETERMINATION OF AL KYLPHENOLS AND PHTHALATES IN VEGETABLES AND VEGETABLE PACKAGES BY STIR BAR SORPTIVE EXTRACTION AND GAS CHROMATOGRAPHY – MASS SPECTROMETRY
- AYM-P03** G. Férez Melgarejo ; N. Campillo ; P. Viñas ; M. Hernández-Córdoba
LC DETERMINATION OF NEONICOTINOID INSECTICIDES IN HONEY USING SOLID-PHASE EXTRACTION COMBINED WITH DISPERSIVE LIQUID-LIQUID MICROEXTRACTION
- AYM-P04** F. Galán Cano ; R. Lucena ; S. Cárdenas ; M. Valcárcel
IONIC LIQUID BASED IN-SITU SOLVENT FORMATION MICROEXTRACTION COUPLED TO THERMAL DESORPTION FOR CHLOROPHENOLS DETERMINATION IN WATERS BY GC/MS
- AYM-P05** M.P. Godoy Caballero ; M.I. Acedo-Valenzuela ; T. Galeano-Díaz ; A. Costa-García ; M.T. Fernández-Abedul
FAST AND SIMPLE METHOD FOR DETERMINATION OF PHENOLIC COMPUNDS FROM OLIVE OIL USING MICROCHIP CAPILLARY ELECTROPHORESIS WITH AMPEROMETRIC DETECTION
- AYM-P06** A. Gómez Caballero ; A. Guerreiro ; K. Kharim ; S. Piletsky ; M.A. Goicolea ; R.J. Barrio
CHIRAL IMPRINTED POLYMERS: A NOVEL COMPUTATIONALLY DESIGNED POLYMER COATING FOR STIR-BAR SORPTIVE EXTRACTION
- AYM-P07** A. González Crevillén ; M.M. Barrios Romero ; J.C. Díez-Masa
EOTROLTM AS COATING AGENT FOR SU-8 MICROCHIPS IN ELECTROPHORETIC SEPARATION OF PROTEINS
- AYM-P08** J.L. Guzmán Mar ; L. Hinojosa ; A. Serra ; A. Hernández ; E. Ruíz ; V. Cerdá
MERCURY SPECIATION ANALYSIS BY MULTISYRINGE CHROMATOGRAPHY HYPHENATED TO COLD-VAPOR ATOMIC FLUORESCENCE SPECTROMETRY
- AYM-P09** M. Hernández Córdoba ; N. Campillo ; P. Viñas ; I. López-García ; R. Rivas
ULTRASOUND-ASSISTED EMULSIFICATION MICROEXTRACTION COUPLED TO GAS CHROMATOGRAPHY-MASS SPECTROMETRY FOR BISPHENOLS MIGRATION STUDIES
- AYM-P10** G. Lasarte Aragonés ; R. Lucena ; S. Cárdenas ; M. Valcárcel
EFFERVESCENCE-ASSISTED DISPERSIVE MICRO-SOLID PHASE EXTRACTION
- AYM-P11** M. Muñoz Ortuño ; S. Cogollos-Costa ; Y. Moliner-Martínez ; M. Ansedo-García ; P. Campins-Falcó
A MINIATURIZED METHOD FOR ESTIMATING DEHP IN BIVALVES AS BIOINDICATORS
- AYM-P12** M. Rosero Moreano ; C. Nerín
DEVELOPMENT OF THREE MICROEXTRACTION TECHNIQUES FOR DETERMINATION OF TRICLOSAN BY HPLC-UV IN SEVERAL APPLICATIONS

- AYM-P13** M.F. Sánchez Rojas ; C. Bosch Ojeda ; J.M. Cano Pavón
APPLICATION OF DLLME FOR DETERMINATION OF COBALT IN FOOD AND WATER SAMPLES

Nanotecnología

- NAN-P01** E. Conde Vilda ; A.I. Barrado ; M. Fernández ; P. Rosenkranz ; M.L. Fernández-Cruz ; J.M. Navas
DETERMINATION OF NANO CERIUM OXIDE IN TOXICITY STUDY BY INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY
- NAN-P02** M.A. Escudero Francos ; A. Fernández González ; R. Badía Laíño ; M.E. Díaz García
GOLD NANORODS FOR CHEMOSENSING
- NAN-P03** J.M. Fernández Romero ; A. Andreu Navarro ; A. Gómez Hens
FLUORIMETRIC DETERMINATION OF P OLYPHENOLS USING A LONG-WAVELENGTH-FLUOROPHOR AND LACASSE IMMOBILISED ON GOLD NANOPARTICLES
- NAN-P04** M. Moreno ; A. Sánchez ; E. Bermejo ; J.A. Pérez ; A. Zapardiel ; M. Chicharro
EALUATION OF CARBON NANOTUBES AS THE PSEUDOSTATIONARY PHASE FOR CAPILLARY EKC SEPARATION WITH AMPEROMETRIC DETECTION
- NAN-P05** M. Navarro Pascual Ahuir ; M.J. Lerma-García ; E.F. Simó-Alfonso ; G. Ramis-Ramos ; J.M. Herrero-Martínez
MONOLITHIC CAPILLARY COLUMNS CONTAINING SILVER NANOPARTICLES FOR CAPILLARY ELECTROCHROMATOGRAPHY. A FIRST APPROACH
- NAN-P06** R. Pereiro Garcia ; L. Trapiella-Alfonso ; J.M. Costa-Fernández ; A. Sanz-Medel
DETERMINATION OF MELAMINE IN MILK BY AN IMMUNOASSAY BASED ON QUANTUM DOTS
- NAN-P07** V. Róman Pizarro ; J.M. Fernández Romero ; A. Gómez Hens
PREPARATION, SEPARATION AND CHARACTERISATION OF GOLD NANOPARTICLES ENCAPSULATED LIPOSOMES AND T HEIR APPLICATION FOR BIOTIN DETERMINATION USING RESONANCE LIGHT-SCATERING DETECTION
- NAN-P08** J. Ruiz Encinar ; L. Trap iella-Alfonso ; A.R. Mo ntoro Bustos ; J.M. Costa-Fernández ; R. Pereiro ; A. Sanz-Medel
ELEMENTAL AND MOLE CULAR DETECTION TECHNIQUES FOR QUANTUM DOTS-BASED IMMUNOASSAYS
- NAN-P09** E. Sotelo González ; H. Mu ñoz-Cimadevilla ; M. Fernandez-Arguelles ; R.M. Sain z ; J.C. Mayo ; J.M. Costa-Fernández ; A. Sanz-Medel
EVALUATION OF THE TOXICOLOGICAL EFFECT OF DIFFERENT TYPES OF WATER SOLUBLE QUANTUM DOTS IN NIH3T3 CELLS
- NAN-P10** P. Zamora Bonachela ; A. Narváez ; E. Domínguez
BIOMIMETIC SYNTHESIS OF SILICA NANOPARTICLES FOR BIOMOLECULE STABILIZATION AND SENSING APPLICATIONS

Desarrollo en Instrumentación Analítica

- DIA-P01** M. Alonso Soto ; G. Gotor ; C. Nolla Garrido ; F. Broto-Puig ; C. Ribas Font ; L. Comellas
ESTUDIO DE LA TRANSFERENCIA DE UN MÉTODO PARA LA DETERMINACIÓN DE HAPS DE HPLC A UPLC
- DIA-P02** L. Arce Jiménez ; L.R. Criado-García ; E. Montoya ; S. López-Vidal ; M. Valcárcel
RAPID ON-LINE MEASUREMENT OF HAZARDOUS BTEX BY A HOME-MADE PDMS PORTAMEMBRANE COUPLED TO UV-ION MOBILITY SPECTROMETRY
- DIA-P03** L.F. Capitán Vallvey ; M. Porcel-Valenzuela ; J. Ballesta-Claver ; I. de Orbe-Payá
MEASUREMENT OF REDOX POTENTIAL BY IMAGING OF ELECTROCHROMIC POLYMERS ARRAY
- DIA-P04** L.R. Criado García ; E. Montoya ; S. López-Vidal ; L. Arce ; M. Valcárcel
COMPARATIVE STUDY OF ION MOBILITY TECHNIQUES TO DETERMINE VOCS IN WORKING AIR SAMPLES USING EUPHORE ATMOSPHERIC SIMULATION CHAMBERS
- DIA-P05** J. Domínguez Álvarez ; E. Rodríguez-Gonzalo ; J. Hernández-Méndez ; R. Carabias-Martínez
PROGRAMMED NEBULIZING-GAS PRESSURE MODE FOR EFFICIENT CAPILLARY ELECTROPHORESIS-MASS SPECTROMETRY ANALYSIS OF ENDOCRINE DISRUPTORS IN HONEY
- DIA-P06** A. García Bermejo ; M. Ábalos ; M.J. González ; B. Gómara
ANALYSIS OF POLYCHLORINATED BIPHENYLS (DL-PCBS AND MARKER PCBS) BY TRIPLE-QUADRUPOLE GC-MS/MS
- DIA-P07** B. Gilbert López ; H. Hayen ; J. Franzke ; J.F. García-Reyes ; C. Meyer ; A. Michels ; A. Molina-Díaz
SIMULTANEOUS WIDE-SCOPE MULTICLASS MULTIPOLARITY TESTING OF ORGANIC CONTAMINANTS IN FOOD AND ENVIRONMENT BY LIQUID CHROMATOGRAPHY / DIELECTRIC BARRIER DISCHARGE MICROPLASMA IONIZATION-MASS SPECTROMETRY
- DIA-P08** L. Herrero Collantes ; S. Calvarro ; M.A. Fernández ; B. Gómara ; M.J. González
DETERMINATION OF NINE PHTHALATE METABOLITES IN HUMAN URINE USING GC-MS. ANALYSIS AND METHOD COMPARISON
- DIA-P09** M. Köck Schulmeyer ; M. Lopez de Alda ; D. Barceló
DEVELOPMENT OF A MULTIRESIDUE METHOD FOR DETERMINATION OF POLAR PESTICIDES IN SEDIMENTS BASED ON ISOTOPE DILUTION, PLE, SPE PURIFICATION, AND ANALYSIS BY LCESI-MS/MS
- DIA-P10** J.J. Laserna ; I. Gaona ; P. Lucena ; F.J. Fortes ; J. Moros ; J. Serrano ; S. Guirado
A STANDOFF LIBS INSTRUMENT FOR THE IN-SITU INSPECTION AND ANALYSIS OF ARCHITECTURAL HERITAGE
- DIA-P11** S. Medina Casanellas ; F. Benavente ; J. Barbosa ; V. Sanz-Nebot
SPE-TITP-CE-TOF-MS FOR PEPTIDE ANALYSIS IN HUMAN PLASMA
- DIA-P12** E. Peña Vázquez ; J. Villanueva Alonso ; M. Piñeiro Iglesias ; V. Juncal Bello ; D. Prada Rodríguez ; P. Bermejo Barrera
CHARACTERIZATION OF VAPORS OF Ag, Au, Co AND Cu FOR ATOMIC SPECTROSCOPY USING SMPS AND TEM

- DIA-P13** E. Pérez Hernández ; G. Grindlay ; L. Gras ; J. Mora
DESIGN AND EVALUATION OF AN O N-LINE MW-ASSISTED DIGESTION DEVICE FOR ELEMENTAL ANALYSIS BY MEANS OF SPECTROSCOPIC TECHNIQUES
- DIA-P14** J. Pisonero ; R. Valledor ; P. Vega ; A. Sanz-Medel ; N. Bordel
PULSED RADIOFREQUENCY GLOW DISCHARGE TIME-OF-FLIGHT MASS SPECTROMETRY: NEW ADVANCES FOR DIRECT CHEMICAL ANALYSIS OF ULTRA-THIN COATINGS.
- DIA-P15** C. Planas Pastor ; O. Palacios ; J. Caixach
FAST ANALYSIS OF PAHS IN WATE R AT THE SUB-NG/L LEVEL BY GC-MS/MS PREVIOUS AUTOMATED SPE. QUALITY PARAMETERS AND COMPARISON WITH OTHER TECHNIQUES
- DIA-P16** J.M. Quintela Bermejo ; G. Gotor-Navarra ; J. Báguena-Polo ; M.J. Blanco-Roca ; F. Broto-Puig
OPERATIONAL AND PERFORMANCE QUALIFICATION OF A LIQUID CHROMATOGRAPH
- DIA-P17** O. Regueiro Vilar ; M. de Frutos ; J.C. Diez-Masa ; A. Puertas ; C. Uriel ; A. Gómez
USE OF A LUMINOL DERIVATIVE FOR PEPTIDE LABELLING THROUGH THIOL GROUPS. APPLICATION TO ANALYSIS BY CAPILLARY ELECTROPHORESIS WITH CHEMILUMINESCENCE DETECTION
- DIA-P18** X. Rius ; T. Guinovart ; M. Parrilla ; G.A. Crespo ; F.J. Andrade
SMART TEXTILES: INCORPORATING POTENTIOMETRIC SENSORS BASED ON CARBON NANOTUBES.
- DIA-P19** N. Sarrión Ciges; J.M. Gibert ; R. Gibert
MULTIDIMENSIONAL HPLC+GC-MS: A NOVEL UNIVERSAL QUALI-QUANTI TECHNIQUE FOR THE ANALYSIS OF ORGANIC COMPOUNDS
- DIA-P20** A. Solà ; B. Fernández ; J.M. Costa ; R. Pereiro ; A. Sanz-Medel
STUDY OF PULSED RADIOFREQUENCY GLOW DISCHARGE - TIM E OF FLIGHT MASS SPECTROMETRY FOR SIMULTANEOUS ELEMENTAL AND MOLECULAR ANALYSIS OF VOLATILE ORGANIC COMPOUNDS.
- DIA-P21** V. Sosa Gómez ; N. Serrano ; C. Ariño ; J.M. Díaz-Cruz ; M. Esteban
POSSIBILITIES OF BISPCE FOR THE DETERMINATION OF HEAVY METALS

SESIÓN DE PÓSTERS – MARTES 15 DE NOVIEMBRE**Visita: Día 15. Discusión: Día 16**

Calidad y Seguridad Alimentaria
Biosensores
Electroquímica
Análisis Clínico
Análisis de Productos Farmacéuticos
Especiación

Calidad y Seguridad Alimentaria

- CSA-P01** S.S. Abdrabo ; S. Abellán ; G. Grindlay ; L. Gras ; J. Mora
DETERMINATION OF CARBOHYDRATES AND FATTY ACIDS IN DATES BY CHROMATOGRAPHY TECHNIQUES
- CSA-P02** S.S. Abdrabo ; G. Grindlay ; L. Gras ; J. Mora
CHEMICAL CHARACTERIZATION OF DATES FROM THE PALM GROVE OF ELCHE, CHEMOMETRIC CLASSIFICATION AND NEW APPLICATIONS
- CSA-P03** S. Abellán ; S.S. Abdrabo ; G. Grindlay ; L. Gras ; N. Grané ; J. Mora
DETERMINATION OF CARBOHYDRATES AND FATTY ACIDS IN DATES BY CHROMATOGRAPHIC TECHNIQUES
- CSA-P04** M. Aboal Somoza ; A. González-García ; M.R. Domínguez-González ; P. Bermejo-Barrera
MODIFICATION OF THE FATTY ACID PROFILE OF MILK BY CHANGING THE FEEDING OF THE COW. DETERMINATION OF CONJUGATED LINOLEIC ACIDS (CLAS) IN CRUDE MILK SAMPLES BY GAS CHROMATOGRAPHY
- CSA-P05** I. Akhatou ; J. López Medina ; A. Fernández Recamales
EFFECTS OF ENVIRONMENTAL STRESS ON BIOACTIVE COMPOUNDS IN STRAWBERRY USING A METABOLOMIC STUDY BASED ON HPLC-DAD ANALYSIS
- CSA-P06** E. Alechaga ; E. Moyano ; M.T. Galceran
AMINOGLYCOSIDES IN FOOD: A NEW LC-MS/MS METHOD.
- CSA-P07** E. Arnáiz Rodrigo ; J.L. Bernal ; M.T. Martín ; J. Bernal ; J.C. Diego ; L. Toribio
OPTIMIZATION OF SFE TO OBTAIN EXTRACTS FROM BROCCOLI LEAVES WITH THE HIGHEST ANTIOXIDANT ACTIVITY
- CSA-P08** N. Arroyo Manzanares ; L. Gámiz-Gracia ; A.M. García-Campaña
COMPARISON OF THREE DIFFERENT SAMPLE TREATMENTS FOR THE ANALYSIS OF OCHRATOXIN A IN WINES
- CSA-P09** R. Ashu ; S. Borràs ; M. Granados ; R. Companyó
ASSESSMENT OF QUECHERS METHODOLOGY FOR THE DETERMINATION OF SULFONAMIDES IN ANIMAL FEEDS

- CSA-P10** A. Astefanei ; O. Núñez ; M.T. Galceran
BEHAVIOR OF FULLERENES AND FULLERENE DERIVATIVES IN CAPILARY ELECTROPHORESIS
- CSA-P11** M.J. Bañuls ; S. Peransí ; J. Escorihuela ; V. Tocaafondo ; J. García-Ruperez ; R. Puchades ; A. Maquieira
CHEMICAL SURFACE MODIFICATION OF SILICON BASED MATERIALS TO DEVELOP LABEL FREE NANOBIOSENSORS
- CSA-P12** J. Barbosa Torralbo ; P.B. Kunda ; S. Catalá-Clariana ; F. Benavente ; E. Giménez ; V. Sanz-Nebot
IDENTIFICATION OF BIOACTIVE PEPTIDES IN A FUNCTIONAL YOGURT BY MICROLC-TOF-MS ASSISTED BY PREDICTION OF RETENTION BEHAVIOUR
- CSA-P13** M.C. Barciela-Alonso ; C. Pérez-Feás ; P. Bermejo-Barrera
PHTHALATE DETERMINATION IN TRANSPARENT FILM FOR FOOD PACKAGING BY LC-ESI-MS
- CSA-P14** D. Barrón ; A. Junza ; S. Barbosa ; J. Barbosa
CHARACTERIZATION OF METABOLITES AND THERMAL DEGRADATION PRODUCTS OF QUINOLONES IN MILK BY LC-ESI-TOF OF HIGH RESOLUTION
- CSA-P15** R. Beltran Lucena ; V. Gallo ; J.C. Santos
COMPARISON OF DIFFERENT EXTRACTION METHODS TO DETERMINE PHENOLIC COMPOUNDS IN VIRGIN OLIVE OIL
- CSA-P16**
- CSA-P17** C. Blasco Giraud ; P. Vazquez-Roig ; Y. Picó
QUINOLONE RESIDUES CONTROL IN EGGS BY LIQUID CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY
- CSA-P18** M. Bustamante Rangel ; M.M. Delgado Zamarreño ; R. Carabias Martínez ; J. Domínguez Álvarez
ANALYSIS OF ISOFLAVONES IN SOY DRINK BY CAPILLARY ZONE ELECTROPHORESIS COUPLED WITH ELECTROSPRAY IONIZATION MASS SPECTROMETRY (CZE-ESI-MS)
- CSA-P19** O. Busto ; L. Aceña ; M. Mestres
EFFECT OF DIFFERENT STORAGE ATMOSPHERES ON THE AROMA AND THE OXIDATION STATUS OF EXTRA VIRGIN OLIVE OIL
- CSA-P20** N. Caballero Casero ; S. García-Fonseca ; S. Rubio
DETERMINATION OF OCHRATOXIN A IN DRIED VINE FRUITS BY SOLVENTLESS MICROEXTRACTION WITH VESICULAR AGGREGATES, LIQUID CHROMATOGRAPHY AND FLUORESCENCE DETECTION
- CSA-P21** J. Cacho Aparicio ; E. Gracia-Moreno ; D. Pezo ; R. Lopez ; J. Salafranca ; C. Nerín ; V. Ferreira
DETERMINATION OF VOLATILE COMPOUNDS PRESENT IN WINE BY MULTIPLE DYNAMIC HOLLOW FIBRE LIQUID PHASE MICRO-EXTRACTION, OPTIMIZATION AND VALIDATION OF THE ANALYTICAL METHOD
- CSA-P22** E. Canellas Aguares ; P. Vera ; C. Domeño ; P. Alfaro ; C. Nerín
COMPARISON OF THE GC-MS-Q AND APGC-MS-Q-TOF FOR IDENTIFICATION OF UNTARGETED COMPOUNDS IN ADHESIVES USED IN FOOD PACKAGING MATERIALS

- CSA-P23** S. Capel Cuevas ; N. López Ruiz ; A. Martínez Olmos ; M.P. Cuéllar ; M.C. Pegalajar ; I. de Orbe-Payá ; A.J. Palma ; L.F. Capitán-Vallvey
PH DETERMINATION USING A SENSOR ARRAY-BASED COLORIMETRIC PORTABLE INSTRUMENT
- CSA-P24** M. Colón Florian ; C. Nerín de la Puerta
ANTIOXIDANT CAPACITY OF AN ACTIVE PACKAGING CONTAINING GREEN TEA CATECHINS
- CSA-P25** D. Company Arumi ; M. Figueras ; V. Salvadó ; M. Molinas ; O. Serra ; E. Anticó
GC ANALYSIS OF ALIPHATIC CONSTITUENTS OF POTATO SKIN: WAXES AND SUBERIN MONOMERS. COMPARISON BETWEEN FID AND MS DETECTION USING BSTFA AND MTBSTFA AS DERIVATIZATION REAGENTS
- CSA-P26** N. Cortés Francisco ; S. Vichi ; A. Romero ; J. Caixach
ULTRAHIGH-RESOLUTION MASS SPECTROMETRY AND ACCURATE MASS MEASUREMENTS FOR HIGH-THROUGHPUT VIRGIN OLI FINGERPRINTING
- CSA-P27** P. de la Iglesia ; I. Ben Naila ; A. Hamza ; M. Fernández-Tejedor ; R. Gdoura ; J. Diogène
GYMNODIMINES: ADDRESSING THE UNCERTAIN RISK BY LC-MS/MS
- CSA-P28** M.M. Delgado Zamarreño ; M. Bustamante Rangel ; L. Pérez Martín ; R. Carabias-Martínez
PRESSURIZED LIQUID EXTRACTION AS SAMPLE PREPARATION FOR THE ANALYSIS OF ISOFLAVONES IN PULSES
- CSA-P29** J. Díaz Ferrero ; R. Martí ; M. Gasser ; M.J. Montaña
ANÁLISIS DE PCB EN MUESTRAS DE ALIMENTOS. COMPARACIÓN DE DIFERENTES COLUMNAS CROMATOGRÁFICAS.
- CSA-P30** M. Díez Municio ; A. Montilla ; M.L. Jimeno ; N. Corzo ; A. Olano ; F.J. Moreno
SYNTHESIS AND CHARACTERIZATION OF A POTENTIAL PREBIOTIC TRISACCHARIDE FROM CHEESE WHEY PERMEATE AND SUCROSE BY DEXTRANSUCRASE
- CSA-P31** M.R. Domínguez-González ; B. Paz-Rodríguez ; M. Aboal-Somoza ; P. Bermejo-Barrera
A COMPARATIVE STUDY OF THE METAL CONTENTS OF TEA, TEA WITH SEAWEED AND ROOIBOS SAMPLES BY ATOMIC SPECTROMETRIC TECHNIQUES (HR-CS AAS, FAAS, FAES, GFAAS)
- CSA-P32** W.N.L. dos Santos ; C.N.S. de Jesus ; S.N. Rocha ; S.M. Macedo ; D.D. Cavalcante
DEVELOPMENT OF ANALYTICAL METHODS FOR DETERMINATION OF TOTAL SELENIUM IN SEAFOOD USING HG AFS.
- CSA-P33** M.P. Elizalde ; M.S. Rúa ; M. Huebra
DETERMINATION OF 5-DODECYLSALICYLALDOXIME IN COMMERCIAL EXTRACTANTS BY VOLTAMPEROMETRY
- CSA-P34** A. Espinosa Mansilla ; A. Jiménez Girón ; I. Durán Merás ; E. Martín Tornero
HPLC-MS DETERMINATION OF MARKER PTERIDINES IN URINE SAMPLES. OPTIMIZATION OF MS PARAMETERS.
- CSA-P35** J.M. Estela Ripoll ; F. Maya ; V. Cerdà
COMPLETELY AUTOMATED DISPERSIVE LIQUID-LIQUID MICROEXTRACTION USING SOLVENTS LIGHTER THAN WATER. HYPHENATION WITH LOW PRESSURE LIQUID CHROMATOGRAPHY

- CSA-P36** V. Ferreira ; J. Zapata ; L. Mateo-Vivaracho ; J. Cacho
QUANTITATIVE IN TUBE EXTRACTION METHOD FOR THE ACCURATE AND AUTOMATED ANALYSIS OF HIGHLY VOLATILE COMPOUNDS IN WINE
- CSA-P37** H. Franquet Griell ; A. Checa ; O. Núñez ; J. Saurina ; S. Hernández-Cassou ; L. Puignou
GC, MS AND CHEMOMETRIC TECHNIQUES FOR THE ANALYSIS OF POLYPHENOLS IN WINE CHARACTERIZATION
- CSA-P38** B. Gallo ; M. Vilorio-Bernal ; J. Lemos-Eguia ; F. Vicente ; L.A. Berrueta ; L. Fajardo Rosabal ; J.J. Silva
POLYPHENOLIC CHARACTERIZATION OF DIFFERENT CLONES OF CACAO THEOBROMA FROM CUBA BY HPLC-DAD AND HPLC-DAD/ESI-MS
- CSA-P39** V. García Cañas ; A. Valdés ; A. Gómez-Martínez ; J.A. Ferragut ; A. Cifuentes
FOODOMICS STUDY OF ROSEMARY POLYPHENOLS EFFECT ON HUMAN COLON CANCER CELLS USING MICROARRAYS AND QUANTITATIVE PCR
- CSA-P40** J.F. García Reyes ; L. Polgar ; J.C. Domínguez-Romero ; P. Fodor ; L. Abranko ; M. Dernovics ; A. Molina-Díaz
SYSTEMATIC RETROSPECTIVE SCREENING OF MULTICLASS PESTICIDES AND THEIR METABOLITES IN FOOD USING ACCURATE MASS DATABASE COMBINED SEARCH OF PARENT MOLECULES AND DIAGNOSTIC FRAGMENT IONS
- CSA-P41** M.A. González Curbelo ; S. Dionis Delgado ; J. Hernández Borges ; M. Asensi o Ramos ; M.A. Rodríguez Delgado
PESTICIDE ANALYSIS IN TOASTED BARLEY AND CHICKPEA FLOURS
- CSA-P42** E. Gracia Moreno ; R. Lopez ; E. Campo ; V. Ferreira ; J. Cacho
INFLUENCE OF VINIFICATION ROUTES IN THE CONCENTRATION OF POLYFUNCTIONAL MERCAPTANS IN WINE
- CSA-P43** M. Guijarro Díez ; A.L. Crego Navazo ; M.L. Marina ; M.C. Garcia
FAST DETERMINATION OF THE BIOACTIVE PEPTIDE SOYMETIDE IN SOYBEANS BY LC-ESI-QTOF
- CSA-P44** J. Guiteras Rodriguez ; V. Jiménez ; R. Companyó ; A. Sahuquillo
INTERLABORATORY STUDY FOR THE DETERMINATION OF NINE QUINOLONES IN LIOPHILIZED EGG SAMPLES
- CSA-P45** P. Gutiérrez Rivas ; L.M. Sidisky ; G.A. Baney ; Y. Ni ; J.L. Desorcie ; K.K. Stenerson
A COMPARISON OF IONIC LIQUID AND POLYMER BASED CAPILLARY COLUMNS FOR THE ANALYSIS OF FAME ISOMERS
- CSA-P46** R. Herráez Hernández ; E. Estal-Rovira ; E. Albert-Antón ; R. A. González-Fuenzalida ; J. Verdú-Andrés Y. Moliner-Martínez ; P. Campins-Falcó
IMPROVED METHOD FOR CONDITIONING C18 PHASES PRIOR TO MATRIX SOLID-PHASE DISPERSION: APPLICATION TO THE ANALYSIS OF PAHS IN BIOTA AND SOIL SAMPLES
- CSA-P47** P. Herrero Pedrafitá ; J. Zapata ; J. Cacho ; V. Ferreira
A MULTI INTERNAL STANDARD CALIBRATION APPROACH FOR THE AUTOMATED AND ROBUST ANALYSIS OF WINE VOLATILES BY HEADSPACE SOLID PHASE MICROEXTRACTION AND FURTHER GAS CHROMATOGRAPHY-MASS SPECTROMETRY

- CSA-P48** E. Ibáñez ; M. Castro-Puyana ; L. Rocamora ; J.A. Ferragut ; A. Cifuentes ; M. Herrero
FORMATION OF 5-(HYDROXYMETHYL) FURFURAL DURING THE EXTRACTION OF NATURAL MATRICES BY SUBCRITICAL WATER EXTRACTION
- CSA-P49** S. Jornet ; L. Vera ; R. Boqué ; M. Mestres ; O. Busto
INSTRUMENTAL SENSOMETRY AND DATA FUSION FOR BEER DISCRIMINATION
- CSA-P50** M. Lombardo Agüí ; L. Gámiz Gracia ; A.M. García Campaña ; C. Cruces Blanco
ANALYSIS OF QUINOLONES IN BEE PRODUCTS BY UHPLC-MS/MS EMPLOYING QUECHERS FOR SAMPLE TREATMENT
- CSA-P51** B. Lozano Miralles de Imperial ; M.E. Guerendiain Margni ; A.I. Castello te Bargalló ; M.C. López-Sabater
ANALYSIS OF VITAMIN C IN PLASMA AND HUMAN MILK BY ULTRA HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY
- CSA-P52** A. Martínez Villalba ; O.r Núñez ; E. Moyano ; M.T. Galceran
ANALYSIS OF POLAR COMPOUNDS IN FOOD AND IDENTIFICATION OF INTERFERENCES: THE AMPROLIUM CASE
- CSA-P53** M. Mateos Vivas ; D. García-Gómez ; J. Dom ínguez-Álvarez ; E. Rodríguez-Gonzalo ; R. Carabias-Martínez
CAPILLARY ZONE ELECTROPHORESIS COUPLED WITH ELECTROSPRAY IONIZATION MASS SPECTROMETRY FOR THE DETERMINATION OF RESIDUES OF BENZIMIDAZOLES IN EGG
- CSA-P54** R. Megias Pérez ; J. Gamboa-Santos ; A.C. Soria ; M. Villamiel ; A. Montilla
ANALYSIS OF QUALITY INDICATORS IN DEHYDRATED BERRIES
- CSA-P55** C. Molins Legua ; Y. Moliner-Martinez ; S. Alcañiz-Campos ; Cristina Saiz-Romero ; M.T. Lafuente ; F. Alferez
EXTRACTION AND DETERMINATION OF PHOSPHOLIPIDS IN FLAVEDO TISSUE FROM ORANGES BY MATRIX SOLID PHASE EXTRACTIO AND CAPILLARY-HPLC
- CSA-P56** C. Montealegre Dondarza ; B. Rasines ; R. Gómez ; F.J. de la Mata ; C. García-Ruiz ; M.L. Marina
SEPARATION OF SOYBEAN AND OLIVE SEEDS PROTEINS USING CARBOXYLATE-TERMINATED CARBOSILANE DENDRIMERS AS NANOADDITIVES IN CAPILLARY ELECTROPHORESIS
- CSA-P57** A. Moreda Piñeiro ; J. Moreda Piñeiro ; V. Romarís Hortas ; R. Domínguez González ; E. Alonso Rodríguez ; P. López Mahía ; S. Muniategui Lorenzo ; D. Prada Rodríguez ; P. Bermejo Barrera
BIO-AVAILABILITY OF TRACE METALS FROM SEAFOOD AND EFFECT OF MAJOR FOOD CONSTITUENTS
- CSA-P58** A. Pell Lorente ; A. Márquez ; M. Barbero ; R. Rubio ; J.F. López Sánchez
EFFECTS OF DIFFERENT SAMPLE DRYING AND STORAGE CONDITIONS ON ARSENIC SPECIATION IN ALGAE
- CSA-P59** E. Pérez Castaño ; M. Sánchez-Viñas ; D. Gázquez Evangelista ; M.G. Bagur González
DETERMINATION OF PHYTOSTEROLS IN VEGETABLE OILS BY OFF-LINE HPLC-GC-FID
- CSA-P60** R. Pérez Olmos ; X. Gabiola ; J.M. Hurtado
SEQUENTIAL POTENTIOMETRIC DETERMINATION OF NITRATE AND CHLORIDE IN VEGETABLES

- CSA-P61** P. Pérez Ortega ; J.C. Domínguez-Romero ; B. Gilbert-López ; J.F. García-Reyes ; N. Ramos-Martos ; A. Molina-Díaz
DEVELOPMENT OF A MULTI-CLASS METHOD FOR THE DETERMINATION OF PESTICIDES AND MYCOTOXINS IN RED WINES BY HPLC-TOFMS
- CSA-P62** D. Pezo ; M. Fedeli ; O. Bosetti ; C. Nerín
DETERMINACIÓN DE AMINAS ALIFÁTICAS Y AROMÁTICAS E IDENTIFICACIÓN DE OTROS MIGRANTES DE FILMS MULTICAPAS PARA ALIMENTOS POR Q-TOF MASAS^E
- CSA-P63** C. Pizarro ; S. Rodríguez-Tecedor ; J.M González-Sáiz
DETERMINATION OF PEROXIDE VALUE IN EXTRA VIRGIN OLIVE OILS BY THE APPLICATION OF STEPWISE ORTHOGONALIZATION OF PREDICTORS TO MID-INFRARED SPECTRA
- CSA-P64** M.D. Prat ; J.G. Rios-Kristjánsson ; S. Borràs ; R. Companyó
ANALYSIS OF QUINOLONES IN ANIMAL FEEDINGSTUFFS BY LIQUID CHROMATOGRAPHY WITH FLUORESCENCE DETECTION
- CSA-P65** P. Puchalska ; M.C. Garcia ; M.L. Marina
DETERMINATION OF ANTIHYPERTENSIVE PEPTIDES IN MAIZE CROPS BY HPLC-Q-TOF-MS
- CSA-P66** M. Ramírez Ambrosi ; C. Sánchez-Fernández ; B. Gallo ; L.A. Berrueta ; F. Vicente
DETERMINATION OF TOTAL PHENOLICS AND TOTAL FLAVAN-3-OLS OF APPLE POMACE AND COMPARISON WITH ANTIOXIDANT ACTIVITY RESULTS
- CSA-P67** N. Ramos Martos ; V.M. Yufra Picardo ; J.C. Domínguez Romero ; R. Pacheco Reyes ; J.F. García Reyes A. Molina Díaz
STUDY OF THE UV DEGRADATION OF TRIAZINE-TYPE HERBICIDES IN WATER AND OLIVE OIL BY LIQUID CHROMATOGRAPHY TIME-OF-FLIGHT MASS SPECTROMETRY
- CSA-P68** M. Riu Aumatell ; J.M. Guadayol ; E. López-Tamames ; S. Buxaderas
INFLUENCE OF LEES ON THE QUALITY OF VOLATILE COMPOUNDS OF CAVA (SPANISH SPARKLING WINE)
- CSA-P69** J. Robles Molina ; M.J. Martín de Vidales ; J.C. Domínguez-Romero ; P. Cañizares ; C. Sáez ; A. Molina-Díaz ; M.A. Rodrigo
REMOVAL OF SULFAMETHOXAZOLE FROM WATERS AND WASTEWATER BY CONDUCTIVE-DIAMOND ELECTROCHEMICAL OXIDATION.
- CSA-P70** J. Rodríguez Procopio ; A. Cantalapiedra ; M.J. Gismera ; M.T. Sevilla
DETERMINATION OF PHENOLS IN ESSENTIAL OILS BY HPLC: COMPARISON OF UV, AMPEROMETRIC AND COULOMETRIC DETECTION
- CSA-P71** I. Rodríguez Pereiro ; T. Rodríguez-Cabo ; M. Ramil ; R. Cela
NON-CHLORINATED SOLVENTS APPLIED TO DISPERSIVE LIQUID-LIQUID MICROEXTRACTION OF FUNGICIDE RESIDUES IN WINE SAMPLES
- CSA-P72** I. Ruisanchez Capelastegui ; C.V. Di Anibal ; M. Pilar Callao
MULTIVARIATE SCREENING OF SUDAN I IN CULINARY SPICES BY MEANS OF RAMAN SPECTROSCOPY
- CSA-P73** A.I. Ruiz Matute ; M. Corzo-Martinez ; A. Montilla ; N. Corzo ; A. Olano
DETERMINATION OF OLIGOSACCHARIDE COMPOSITION OF COMMERCIAL LACTOSE-FREE UHT DAIRY PRODUCTS BY HPAEC-PAD AND GC-FID

- CSA-P74** J. Sáiz ; J.L. Ferrando ; J.C. Atoche ; C. García-Ruiz
STUDY OF THE GAS CHROMATOGRAPHIC DETECTION OF METHENAMINE IN GOMA-2 ECO, A DYNAMITE ORIGINALLY METHENAMINE FREE
- CSA-P75** S. Santiago Felipe ; L.A. Tortajada-Genaro ; R. Puchades ; A. Maquieira
STRATEGIES OF DNA AMPLIFICATION FOR FOOD PATHOGEN DETECTION
- CSA-P76** J. Santos ; J.A. Mendiola ; E. Ibáñez ; M.B.P.P.B. Oliveira ; M. Herrero
DEVELOPMENT OF HPLC-DAD-MS METHODS FOR SIMULTANEOUS DETERMINATION OF SEVERAL FAT- AND WATER-SOLUBLE VITAMINS IN GREEN LEAFY VEGETABLES
- CSA-P77** D. Serrano-Lourido ; A. Checa ; H. Gallart-Ayala ; O. Núñez ; J. Saurina ; S. Hernández-Cassou
UHPLC-ORBITRAP-HRMS FOR THE DIRECT ANALYSIS OF POLYPHENOLS IN SPANISH RED WINES
- CSA-P78** A.C. Soria Monzón ; M.L. Sanz ; S. Rodríguez-Sánchez ; J. Sanz
MAPPING OF n-ALKANE RETENTION IN GC USING IONIC LIQUIDS AS STATIONARY PHASES
- CSA-P79** P. Vera Estacho ; E. Canellas ; A. Escudero ; C. Nerín
IDENTIFICATION AND QUANTIFICATION OF ODOROUS COMPOUNDS PRESENT IN THE ADHESIVES USED IN PACKAGING MATERIALS BY (HSSPE) AND (HS-SPME) COUPLED TO GAS CHROMATOGRAPHY OLFACTOMETRY MASS SPECTROMETRY (GC-O-MS)
- CSA-P80** S. Vichi ; N. Cortés-Francisco ; J. Caixach
INSIGHT INTO VIRGIN OLIVE OIL PHENOLS CHARACTERIZATION BY HIGH-RESOLUTION MASS SPECTROMETRY AND ACCURATE MASS MEASUREMENTS
- CSA-P81** M.D. Víctor Ortega ; M. del Olmo-Iruela ; A.M. García-Campaña
EVALUATION OF DISPERSIVE LIQUID-LIQUID MICROEXTRACTION FOR THE DETERMINATION OF PATULIN IN FRUIT JUICE USING MICELLAR ELECTROKINETIC CHROMATOGRAPHY
- CSA-P82** D. Vilela Garcia ; M.C Gonzalez ; A. Escarpa
GOLD NANOPARTICLES IN SITU FORMATION FROM NATURAL ANTIOXIDANTS
- CSA-P83** F.J. Yuste Córdoba ; M.J. Trinidad-Lozano ; D. Omenat-Morán
TOTAL POLYPHENOLS IN ONE-DAY CORK BOILING WATER
- CSA-P84** A. Zafra Gómez ; S. Cantarero-Malagón ; O. Ballesteros ; A. Navalón ; J.L. Vilchez
EVALUATION OF THE PRESENCE OF MAJOR ANIONIC SURFACTANTS IN MARINE SEDIMENTS. EXTRACTION TECHNIQUES AND MONITORING STUDY
- CSA-P85** J. Zapata Ochoa ; L. Mateo-Vivaracho ; J. Cacho ; V. Ferreira
QUANTITATIVE IN TUBE EXTRACTION METHOD FOR THE ACCURATE AND AUTOMATED ANALYSIS OF HIGHLY VOLATILE COMPOUNDS IN WINE

Biosensores

- BIO-P01** J. Ballesta Cla ver ; J. Morales-Sa nfrutos ; A. Me gía-Fernández ; M.C. Valencia-Mirón ; F. San toyo-González ; L.F. Capitán-Vallvey ; J. Ametis Cabello
ELECTROCHEMILUMINESCENT POLYMER INCLUDING BIOTYNILATED PYRROL MOIEITES FOR BIOSENSING APPLICATIONS
- BIO-P02** X. Cetó ; F. Céspedes ; M. del Valle
BIO-ELECTRONIC TONGUE EMPLOYING ENZYME-MODIFIED SENSORS FOR THE QUANTIFICATION OF POLYPHENOLS
- BIO-P03** J. Escorihuela ; M.J. Bañuls ; S. Peransí ; V. Toccafondo ; J. García-Ruperez ; R. Puchades ; A. Maquieira
CHEMICAL SURFACE MODIFICATION OF SILICON BASED MATERIALS TO DEVELOP LABEL FREE NANOBIOSENSORS
- BIO-P04** J. Jiménez Centelles ; A. Narváez ; E. Dominguez
ELECTROCHEMICAL INMUNOSENSORS FOR THE MULTI-DETECTION OF ANTIBIOTIC AND CORTICOSTEROID RESIDUES
- BIO-P05** M.P. Lapieza Remon ; I. Sanz Vicente ; J.M. de la Fuente ; J. Galbán
ENZYMATIC DETERMINATION OF PHOSPHOLIPIDS BASED ON FLAVOENZYMES FLUORESCENCE
- BIO-P06** T. Laube ; M. De Souza Castilho ; H. Yamanaka ; S. Alegret ; M.I. Pividori
MAGNETO IMMUNOASSAYS FOR THE DETECTION OF PLASMODIUM FALCIPARUM HISTIDINE-RICH PROTEIN 2 RELATED TO MALARIA
- BIO-P07** S. Liébana ; M.P. Cortés ; M. Llagostera ; S. Alegret ; M.I. Pividori
MULTIPLEX ELECTROCHEMICAL GENOSENSING OF PATHOGENIC BACTERIA
- BIO-P08** F.J. Ortega Higuieruelo ; M.J. Bañuls ; F.J. Sanza ; R. Casquel ; M.F. Laguna ; M. Holgado ; D. López ; C.A. Barrios ; A. Maquieira ; R. Puchades
LABEL-FREE OPTICAL BIOSENSING OF GESTRINONE DOPING HORMONE EMPLOYING SU-8 NANO-PILLARS
- BIO-P09** J. Sanz Naval ; J. Galban Bernal ; S. de Marcos Ruiz
DETERMINATION OF PHENOL BY THE AUTOINDICATING PROPERTIES OF LACCASE AS THE BASE OF AN OPTICAL BIOSENSOR
- BIO-P10** J. Tamarit López ; S. Morais ; R. Puchades ; A. Maquieira
OXYGEN PLASMA ACTIVATION OF DIGITAL VERSATILE DISKS FOR DNA MICROARRAYING

Electroquímica

- ELC-P01** V. Arancibia Moya ; C. Rojas
ADSORPTIVE STRIPPING VOLTAMMETRIC DETERMINATION OF COBALT IN THE PRESENCE OF NICKEL AND ZINC USING PYROGALLOL RED AS CHELATING AGENT

- ELC-P02** Y. Castrillejo Hernández ; P. Hernández ; J.A. Rodríguez ; F. De la Rosa ; E. Barrado
ELECTRODEPOSITION OF SCANDIUM ON THE SOLID STATE AND ELECTROCHEMICAL FORMATION OF Sc-Al ALLOYS IN THE EUTECTIC LiCl-KCl
- ELC-P03** M. Revenga-Parra ; T. García ; C. Gómez-Anquela ; E. Gonzalez-Romero ; E. Lorenzo ; F. Pariente
NADH SENSOR BASED ON SCREEN-PRINTED ELECTRODES MODIFIED WITH AZURE A BY DIAZOTIZATION-REDUCTION
- ELC-P04** T. Sevilla ; J. Guzmán Cortijo ; R. Procopio
VOLTAMPEROMETRIC ANALYSIS OF AVAILABLE COPPER ON CARBON SCREEN-PRINTED ELECTRODES
- ELC-P05** M. del Sol Vega ; P. Fernández ; C. de la Fuente ; P. Hernández ; Y. Castrillejo
ELECTROCHEMICAL TECHNIQUES IN PYROCHEMICAL PROCESSES. CHEMICAL AND ELECTROCHEMICAL BEHAVIOUR OF SAMARIUM IN TWO MOLTEN CHLORIDES WITH DIFFERENT PROPERTIES

Análisis Clínico

- ACI-P01** D. Airado ; F. Orellana García ; C. Cruces Blanco ; A.M. García Campaña
FIELD-AMPLIFIED SAMPLE INJECTION CAPILLARY ELECTROPHORESIS WITH UV DETECTION FOR THE ANALYSIS OF DRUGS OF ABUSE IN BIOLOGICAL SAMPLES
- ACI-P02** I. Botello ; F. Borrull ; M. Calull ; C. Aguilar
DETERMINATION OF BARBITURATE DRUGS IN BIOLOGICAL SAMPLES BY CAPILLARY ELECTROPHORESIS AFTER FOCUSING BY ELECTROKINETIC SUPERCHARGING
- ACI-P03** A.I. Castellote Bargalló ; A.M. Chisaguano Tonato ; M.C. López Sabater
OPTIMIZATION AND VALIDATION OF A FAST GAS CHROMATOGRAPHIC METHOD FOR THE DETERMINATION OF ELAIDIC ACID, VACCENIC ACID AND RUMENIC ACID IN PLASMA AND HUMAN MILK
- ACI-P04** I. Duran Merás ; A. Espinosa Mansilla ; A. Mancha de Llanos ; D. González Gómez
ON-LINE PHOTOIRRADIATION OF PHENYLALANINE AND TYROSINE. CHEMOMETRIC ANALYSIS OF THE THIRD ORDER KINETIC SIGNALS
- ACI-P05** D. García Gómez ; E. Rodríguez Gonzalo ; R. Carabias Martínez
DEVELOPMENT AND VALIDATION OF A HYDROPHILIC CHROMATOGRAPHY – TANDEM MASS SPECTROMETRY METHOD WITH ON-LINE POLAR EXTRACTION FOR THE ANALYSIS OF URINARY NUCLEOSIDES. POTENTIAL APPLICATION IN CLINICAL DIAGNOSIS.
- ACI-P06** M.A. López González ; A. Garcia ; M. Vallejo ; G. Canuto ; O. Santos ; L. Rivas ; C. Barbas
OPTIMIZATION OF CE-ESI-TOF WITH SHEATHLESS INTERPHASE. APPLICATION TO THE ANALYSIS OF LEISHMANIA INFANTUM TREATED IN VITRO WITH ANTIMONY(III) TARTRATE
- ACI-P07** I. Mendiara Negro ; C. Nerin de la Puerta ; C. Domeño Recalde
TREATMENT OF BIOLOGICAL SAMPLES: ANALYTICAL STUDIES WITH SPE FOR DETERMINING STEROLS IN SERUM LC/MS

- ACI-P08** A. Muñoz de la Peña ; A. Mancha de Llanos ; A. Espinosa Mansilla ; F. Cañada-Cañada; M.J. Culzoni ; M.M de Zan ; H.C. Goicoechea
ENHANCED MCR-ALS MODELING OF HPLC WITH FAST SCAN FLUORIMETRIC DETECTION SECOND ORDER DATA FOR QUANTITATION OF METABOLIC DISORDER MARKER PTERIDINES IN URINE
- ACI-P09** A.F. Toribio Delgado ; M.C. Robles-Gil ; G. Olcina-Camacho ; M. Maynar-Mariño ; M.J. Caballero-Loscos ; J.I. Maynar-Mariño
ANALYSIS OF STEROID HORMONES IN PLASMA OF PREMENOPAUSAL AND POSTMENOPAUSAL WOMEN. DIFFERENCES BETWEEN POPULATIONS
- ACI-P10** F. Vicente ; C. Sánchez-Fernández ; B.Gallo ; L.A. Berrueta ; M. Ramírez-Ambrosi
DETERMINATION OF TOTAL PHENOLICS AND TOTAL FLAVAN-3-OLS OF APPLE POMACE AND COMPARISON WITH ANTIOXIDANT ACTIVITY RESULTS

Análisis de Productos Farmacéuticos

- APF-P01** J. Arruabarrena Gamboa ; S. Maspoch ; J. Coello
ENHANCING SENSITIVITY AND PRECISION ON NIR REFLECTANCE DETERMINATION OF AN API AT LOW CONCENTRATION: APPLICATION TO AN HORMONAL PREPARATION
- APF-P02** L. Asensi Bernardi ; E. Fonet-Herrero ; Y. Martín-Biosca ; S. Sagrado
QUANTITATIVE ANALYSIS OF FLUOXETINE ENANTIOMERS IN PHARMACEUTICAL FORMULATIONS BY ELECTROKINETIC CHROMATOGRAPHY
- APF-P03** F. Carrera ; J. Montse ; S. Lucas ; D.J. Francesc
DEVELOPMENT AND VALIDATION OF AN ICP-MS METHOD FOR THE ASSAY DETERMINATION OF EACH ONE OF THE EHF SALTS (Ca, Mg, Zn) IN TABLETS FOR PSORIASIS TREATMENT
- APF-P04** R.E. Cueva Mestanza ; F. van den Berg ; J.M. Amigo ; M. Blanco
COMPARATIVE STUDY BETWEEN NIR AND RAMAN SPECTROSCOPY TO END-POINT DETERMINATION OF A PHARMACEUTICAL BLENDING PROCESS
- APF-P05** M. Del Toro Carrión ; A. Senso ; J.F. Dulsat ; A. Massó
UPLC METHOD DEVELOPMENT FOR HIGH THROUGHPUT ANALYSIS OF PHARMACEUTICAL COMBINATION PRODUCTS FOR INHALATION
- APF-P06** R. Otero ; K. Sthal ; F. Garde ; L. Serrano ; S. Folger ; J.F. Dulsat ; B. Fyrnys ; A. Massó
CORRELATIONS BETWEEN PSD OF MICRONIZED DS AND THE PERFORMANCE OF DPI DELIVERED FROM GENUAIR INHALER
- APF-P07** A. Palou ; M. Blanco ; J. Cruz ; M. Alcalá ; J. Tomàs ; J. de los Ríos
EVALUATION OF COATING CONTRIBUTION IN QUANTIFICATION OF PHARMACEUTICAL TABLETS COMPOSITION AND DETERMINATION OF THEIR DISTRIBUTION AND THICKNESS BY NIR-CI
- APF-P08** M.M. Parrilla Vázquez ; P. Parrilla Vázquez ; M. Martínez Galera
APPLICATION OF DISPERSIVE LIQUID-LIQUID MICROEXTRACTION AND HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY WITH FLUORESCENCE DETECTION FOR THE DETERMINATION OF PHARMACEUTICALS IN WATER SAMPLES

- APF-P09** Y. Picó ; P. Vazquez-Roig ; C. Blasco ; V. Andreu
DETERMINATION OF PHARMACEUTICALS IN WASTE WATER TREATMENT PLANT INFLUENTS. ESTIMATION OF CONSUMPTION
- APF-P10** M.D. Ramos Payán ; J.A. Ocaña ; M. Villar ; M.A. Bello ; R. Fernández-Torres ; M. Callejón
COMBINACIÓN DE MICROEXTRACCIÓN EN FASE LÍQUIDA USANDO FIBRAS HUECAS (HFLPME) Y EXTRACCIÓN ENZIMÁTICA ASISTIDA MEDIANTE SONDA DE ULTRASONIDOS PARA LA DETERMINACIÓN DIRECTA DE FLUMEQUINA EN LECHE USANDO ANÁLISIS POR INYECCIÓN EN FLUJO CON DETECCIÓN LUMINISCENTE SENSITIVIZADA POR TERBIO.
- APF-P11** E. Roldos ; M. Castellari ; I. Díaz ; J.A. García-Regueiro
CHANGES IN THE COMPOSITION OF EGGS TRIGLYCERIDES FROM LAYING HENS TREATED WITH DOXYCYCLINE AND TYLOSIN.
- APF-P12** M. Villar Navarro ; M. Ramos Payán ; M. Callejón Mochón ; R. Fernández Torres ; M.A. Bello López ; J.L. Pérez Bernal ; A. Guiraúm Pérez
APLICACIÓN DE LA MICROEXTRACCIÓN EN FASE LÍQUIDA UTILIZANDO FIBRAS HUECAS (HF-LPME) PARA LA DETERMINACIÓN CROMATOGRÁFICA DE DISRUPTORES ENDOCRINOS EN AGUAS RESIDUALES URBANAS.
- APF-P13** D. Zamora Zamora ; M. Blanco
CHEMOMETRICS: A VALUABLE TOOL TO IMPROVE SEPARATION EFFICIENCY IN IMS ANALYSIS

Especiación

- ESP-P01** P. Bermejo-Barrera ; C. García-Sartal ; M.C. Barciela-Alonso
ARSENIC SPECIATION STUDIES IN BIOCOMPONENTS DERIVED FROM SEAWEED BY HPLC-ICP-MS
- ESP-P02** N. Fabregat-Cabello ; A.F. Roig-Navarro ; J.I. García Alonso ; P. Rodríguez-González ; A. Castillo
DEVELOPMENT OF A FAST METHODOLOGY FOR THE DETERMINATION OF Cr (VI) IN SOLID MATRICES BY DOUBLE SPIKE ISOTOPE DILUTION ANALYSIS
- ESP-P03** V. Funes Collado ; A. Morell-García ; J.F. López-Sánchez ; R. Rubio
STUDY OF SELENOCOMPOUNDS IN SPROUTS GROWN IN HYDROPONIC MEDIA BY LC-ICP/MS
- ESP-P04** T. García Barrera ; M. Contreras-Acuña ; J.L. Gómez-Ariza
STUDY OF ARSENIC METABOLITES IN HUMAN SERUM AND URINE AFTER SEAFOOD CONSUMPTION
- ESP-P05** S. García Salgado ; D. García Casillas ; M.A. Quijano Nieto ; M.M. Bonilla Simón
ARSENIC SPECIATION IN PLANTS BY HPLC-(UV)-HG-AFS: OPTIMISATION OF THE EXTRACTION METHOD AND APPLICATION TO NATIVE PLANTS FROM SOILS POLLUTED BY MINING ACTIVITIES
- ESP-P06** C. Gilsanz ; R. Gusmao ; E. Chekmeneva ; N. Serrano ; C. Ariño ; J.M. Díaz-Cruz ; M. Esteban
ELECTROANALYSIS OF THE BINDING AND ADSORPTION OF Hg WITH SEAMINOACIDS BY DPV AND EVLS AT AU-DISK ELECTRODE

- ESP-P07** I. Giráldez Díaz ; M. Bujalance ; F. Mellado ; P. Ruiz-Azcona ; D. Sánchez-Rodas ; A. Velasco ; E. Morales
COMPARISON OF THREE DERIVATISATION REAGENTS FOR SELENO AMINO ACIDS DETERMINATION BY SBSE-TD-GC-MS IN FOODS
- ESP-P08** E. Hernández Nataren ; S. Carneado ; A. Sahuquillo ; J.F. López-Sánchez
DETERMINACIÓN DE ANTIMONIO EN AGUA MINERAL EMBOTELLADA EN PET MEDIANTE HPLC-ICP-MS.
- ESP-P09** C. Ibáñez Palomino ; W. L. Gamboa-Ruiz ; A. Sahuquillo ; J.F. López-Sánchez
EFFECT OF SAMPLE PRE-TREATMENT ON MERCURY SPECIATION IN SEDIMENTS
- ESP-P10** T. Llorente Mirandes ; J. Calderón ; J.F. López-Sánchez ; F. Centrich ; R. Rubio
OPTIMIZATION AND VALIDATION OF A METHOD FOR THE ASSESSMENT OF INORGANIC ARSENIC IN WHEAT AND WHEAT DERIVED PRODUCTS
- ESP-P11** A. Márquez Lorente ; A. Pell ; J.F. López-Sánchez ; R. Rubio ; M. Barbero ; S. Stege ; F. Queirolo ; P. Díaz-Palma
ARSENIC SPECIATION IN ALGAE AND AQUATIC PLANTS GROWING IN FRESHWATERS OF HIGH SALINITY IN THE LOA RIVER BASIN, ANTOFAGASTA REGION OF NORTHERN CHILE
- ESP-P12** C. Valls Cantenys ; M. Iglesias ; J.L. Todolí ; V. Salvadó
SPECIATION OF PHOSPHORUS OXYACIDS IN NATURAL AND WASTE WATER SAMPLES
- ESP-P13** C. Vergel Rodriguez ; C. Mendiguchía ; M. García-Vargas ; C. Moreno
DETERMINATION OF DIFFERENT NICKEL FRACTIONS IN NATURAL WATERS USING A LIQUID MEMBRANE SYSTEM

SESIÓN DE PÓSTERS – MIÉRCOLES 16 DE NOVIEMBRE

Contribuciones Teóricas y Quimiometría
Docencia
Proteómica
Otros Campos del Análisis Instrumental
Análisis de Procesos y Productos Industriales

Contribuciones Teóricas y Quimiometría

- CTQ-P01** S.S. Abdrabo ; G. Grindlay ; L. Gras ; J. Mora
CHEMICAL CHARACTERIZATION OF DATES FROM THE PALM GROVE OF ELCHE. CHEMOMETRIC CLASSIFICATION AND NEW APPLICATIONS
- CTQ-P02** E. Cirera-Domènech ; F. Br oto-Puig ; R. Teje dor-Estrada ; J. Teix idó-Closa ; M. Gassio t-Matas ; G. Gotor ; L. Comellas-Riera
QSRR APPLIED TO HPLC-UV METHOD FOR THE DETERMINATION OF ALDEHYDES AND KETONES-DNPH
- CTQ-P03** A. Gustavo González ; M. Ramos Payán
COMPORTAMIENTO FISICOQUÍMICO DE ESTRUCTURAS DISIPATIVAS
- CTQ-P04** R. Jiménez Solano ; M. Blanco ; M. Alcalà
1/K0 PREDICTION OF ION MOBILITY CONSTANTS OF LINEAR ALCOHOL ETHOXYLATES
- CTQ-P05** R. Lebrón Aguilar ; P. Galindo-Iranzo ; J.E. Quintanilla-López ; J.M. Santiuste
LIQUIDOS IONICOS DICATIONICOS COMO FASES ESTACIONARIAS EN CROMATOGRAFIA DE GASES. EXPLORANDO LAS POSIBILIDADES DE SEPARACIÓN EN LA COLUMNA SLB-IL100
- CTQ-P06** N. Mora Diez ; H. Goicoechea ; A. Guiberteau Cabanillas ; A. Silva
MULTIVARIATE CURVE RESOLUTION AND VOLTAMMETRY. DETERMINATION OF ETHIOFENCARB IN PRESENCE OF TWO UNMODELLED INTERFERENCES
- CTQ-P07** F. Pablos Pons ; A. Palacios-Morillo ; A. Alcázar ; J.M. Jurado
DIFFERENTIATION OF TEA VARIETIES USING UV-VIS SPECTRA AND PATTERN RECOGNITION TECHNIQUES
- CTQ-P08** R. Pardo ; M. Vega ; I. Sánchez ; C. Medina ; J. Delgado
COMPARISON OF METAL CHEMICAL FRACTIONATION MODELS IN SPANISH SOILS OBTAINED AFTER APPLICATION OF TWO-WAY AND THREE-WAY PRINCIPAL COMPONENTS ANALYSIS
- CTQ-P09** A. Sahuquillo ; R.M. López-Romero ; J. Santos
EFFECT OF STATISTICAL DATA TREATMENT ON THE EVALUATION OF ANALYTICAL LABORATORIES IN PROFICIENCY TESTING SCHEMES

- CTQ-P10** E. Salvatore ; M. Cocchi ; A. de Juan ; F. Marini
STUDIES OF AUTHENTICATION OF ITALIAN WINE WITH CHEMOMETRIC TOOLS

Docencia

- DOC-P01** E. Barrado ; R. Pardo ; J. Jiménez ; M. Vega ; Y. Castrillejo
EI PORTAFOLIO COMO HERRAMIENTA PARA LA EVALUACION DE COMPETENCIAS RELACIONADAS CON EL TRATAMIENTO DE LA INFORMACIÓN QUÍMICA.
- DOC-P02** C. Mendiguchía Martínez ; B. Fragueta ; J.I. González ; G. Muñoz ; L. O'Dogherty ; J.J. Pinto
LA EVALUACIÓN DE LA QUÍMICA ANALÍTICA EN UNA ASIGNATURA MULTIDISCIPLINAR: MÉTODOS EN OCEANOGRAFÍA
- DOC-P03** E. Morneno-Gordaliza ; M. Blanco ; J.L. Luque-García ; M.A Palacios Corvillo ; M.M. Gómez-Gómez ; C. Pérez Conde ; A.M Gutierrez Carreras ; J.D. Rosales Martinez ; J.O. Cáceres Gianni
DISEÑO DE UN PORTAL EN INTER NET PARA EL TRATAMIENTO Y DIFUSIÓN DE LOS RESULTADOS DE UN EJERCICIO DE INTERCOMPARACION EN LOS LABORATORIOS DOCENTES DE QUÍMICA ANALÍTICA

Proteómica

- PRT-P01** P. Cabezas Sánchez ; E. Castrelos ; C. Cámara ; J.L. Luque-Garcia
STABLE ISOTOPIC LABELING BY AMINO ACIDS IN CELL CULTURE (SILAC) FOR BETTER UNDERSTANDING MEHG NEUROTOXICITY.
- PRT-P02** M. de Frutos Gómez ; R. Garrido-Medina ; N. Fariña Gómez ; J.C. Diez-Masa
IMMUNOAFFINITY CHROMATOGRAPHY OF SEMINAL PLASMA FOR THE ISOLATION OF PROSTATE-SPECIFIC ANTIGEN AND SU BSEQUENT ANALYSIS OF ITS ISOFORMS BY CAPILLARY ELECTROPHORESIS
- PRT-P03** A. Puerta ; A. Chana ; A. Guerrero ; J. Dávalos ; J.C. Diez-Masa ; M. de Frutos
STUDY OF ALPHA 1-ACID GLYCOPROTEIN (AGP) GLYCAN PROFILE BY MALDI-FTICR-MS
- PRT-P04** O. Hernández Hernández ; R. Lebrón-Aguilar ; J.E. Quintanilla-López ; M.L. Sanz ; F.J. Moreno
IDENTIFICATION AND CHARACTERIZATION OF PHOSHOPEPTIDES BY RP- LC-TANDEM MASS SPECTROMETRY IN PROTEOLITICALLY DIGESTED BOVINE CASEINOMACROPEPTIDE
- PRT-P05** J.L. Luque Garcia ; S. Cuello ; I. Ruppen ; P. Ximenez-Embun ; H.B. Shönthaler ; K. Ashman ; S. Ramos ; Y. Madrid ; C. Camara
BIOANALYTICAL APPROACHES FOR ANALYZING THE DIFFERENTIAL PROTEIN EXPRESSION ASSOCIATED TO MEHG EX POSURE: DEEPENING INTO THE MECHANISMS OF TOXICITY
- PRT-P06** J.L. Luque Garcia ; P. Cabezas-Sanchez ; C. Camara ; V. Andres ; J. Rivera
USE OF ADVANCED BIOANALYTICAL TOOLS TO UNRAVEL THE MOLECULAR MECHANISMS INVOLVED IN HUTCHINSON-GILFORD PROGERIA SYNDROME

- PRT-P07** I. Moraleja ; M. Luz Mena ; E. Moreno-Gordaliza ; B. Cañas ; M.M. Gómez-Gómez
CHARACTERIZATION OF CISPLATIN-BINDING PROTEINS IN CLINICAL SAMPLES BY OFFGEL-IEF PROTEIN SEPARATION AND CAP-LC-ESI-LIT-MS/MS PEPTIDE IDENTIFICATION
- PRT-P08** L. Mouriño Álvarez ; E. Calvo ; C.M. Laborde ; S. Alonso-Orgaz ; L.R. Padial ; J.A. López ; M.G. Barderas F. Gil-Dones
CHARACTERIZATION OF ENDOTHELIAL CELL POPULATIONS IN ACS USING A PROTEOMIC APPROACH
- PRT-P09** V. Sanz Nebot ; M. Borges-Álvarez ; F. Benavente ; J. Barbosa
SEPARATION AND CHARACTERIZATION OF SOD-1 FROM HUMAN ERYTHROCYTES BY CAPILLARY ELECTROPHORESIS TIME-OF-FLIGHT MASS SPECTROMETRY

Otros Campos del Análisis Instrumental

- OAI-P01** J.A. Ágreda ; W. Herrera ; E. Castillo ; N. Pérez
SIMULTANEOUS DETERMINATION OF CADMIUM AND MERCURY BY UV -Vis SPECTROPHOTOMETRY IN MICELLAR (cocamidopropylbetaine) AQUEOUS MEDIUM USING PRINCIPAL COMPONENTS AND PARTIAL LEAST SQUARES REGRESSION
- OAI-P02** J.A. Ágreda ; A. Yopasá ; E. Castillo
DEVELOPMENT OF A PRECONCENTRATION SYSTEM FOR THE DETERMINATION OF Cd(II) AND Hg(II) IN FLOW WITH UV-VIS DETECTION
- OAI-P03** F. Alamilla Orellana ; C. García-Ruiz ; M. Torre
FORENSIC ANALYSIS OF BLUE BALLPOINT PEN INKS USING LASER ABLATION-INDUCTIVELY COUPLED PLASMA-MASS SPECTROMETRY
- OAI-P04** J.M. Anzano Lacarte ; S.R. Leone
PRESENT AND FUTURE OF COHERENT ANTI-STOKES RAMAN SPECTROSCOPY, CARS
- OAI-P05** J.M. Anzano Lacarte ; J. Casas-González ; R.J. Lasheras ; C. Bello-Gálvez ; S. Sangüesa ; E. Gaspar
MULTIELEMENTAL ANALYSIS BY LIBS
- OAI-P06** M. Calcerrada ; F. Alamilla ; J.M. Ramiro ; C. García-Ruiz ; M. Torre
REFRACTIVE INDEX MEASUREMENT AS TOOL FOR FORENSIC GLASS ANALYSIS
- OAI-P07** M.M. Castro López ; M.C. Cela Pérez ; R. No guerol Cal ; J.M. López Vilarriño ; M.V. González Rodríguez
EVALUATION OF ADSORPTION PROCESS OF CATECHINS ON A SPE QUERCETIN-MIP
- OAI-P08** P. Copoví ; M. Corzo-Martinez ; A. Olano ; F.J. Moreno ; A. Montilla
ANALYSIS OF CARBOHYDRATES FROM CHEESE WHEY PERMEATE BY ISOMERIZATION AND TRANSGALACTOSYLATION

- OAI-P09** A. Del Toro Moreno ; S. Montesdeoca-Esponda ; Z. Sosa-Ferrera ; J.J. Santana-Rodríguez
OPTIMIZATION OF A SBSE-UPLC-MS/MS METHOD FOR THE DETERMINATION OF BENZOTRIAZOLES USED IN PERSONAL CARE PRODUCTS
- OAI-P10** M.A. Fernández de la Ossa ; C. García Ruiz
DISCRIMINATION BETWEEN HIGHLY AND LOWLY NITRATED APTS-LABELED NITROCELLULOSE BY CAPILLARY ELECTROPHORESIS
- OAI-P11** B. Fernández Garcia ; I. Konz ; M.L. Fernández ; R. Pereiro ; A. Sanz-Medel
ABSOLUTE QUANTIFICATION OF HUMAN SERUM TRANSFERRIN BY SPECIES-SPECIFIC ISOTOPE DILUTION LASER ABLATION ICP-MS
- OAI-P12** M.P. Gómez-Serranillos ; A. Cases ; F. Varela ; B. Pérez ; O.M. Palmino ; M.E. Carretero
PHENOLIC COMPOSITION OF CRATAEGUS MONOGYNA SAMPLES FROM DIFFERENT SPANISH LOCATIONS IN THE CASTILLA- LA MANCHA REGION BY HPLC
- OAI-P13** L. Lahuerta Zamora ; M.T. Pérez Gracia
THE MCFARLAND METHOD: AN IMAGING APPROACH
- OAI-P14** M. López López ; J.L. Ferrando ; C. García-Ruiz
ANALYSIS OF SINGLE-, DOUBLE- AND TRIPLE-BASE SMOKELESS GUNPOWDERS BY FTIR AND RAMAN SPECTROSCOPY
- OAI-P15** P. Marín Carrasco ; C. Prado
HEADSPACE TRAP DETERMINATION OF BENZENE IN URINE FOR BIOLOGICAL MONITORING
- OAI-P16** C. Martín Alberca ; J. Sáiz ; J. Ferrando ; C. García-Ruiz
IDENTIFICATION OF ANIONIC MARKERS IN CHEMICAL IGNITION MOLOTOV COCKTAILS (CIMC) BY CAPILLARY ELECTROPHORESIS
- OAI-P17** M.P. Martínez Alcazar ; V. Alonso ; N. Acero ; A. Galán de Mera ; A. Plaza de la Fuente ; D. Muñoz-Mingarro ; M.A. López González
METABOLIC PROFILES OF FIVE IBERIAN TARAXACUM SPECIES BY HPLC-MS
- OAI-P18** X. Matabosch ; O. Pozo ; C. Pérez-Mañá ; M. Farré ; J. Marcos ; J. Segura ; R. Ventura
DETECTION OF BUDESONIDE MISUSE IN DOPING CONTROL ANALYSES
- OAI-P19** D. Moreno González ; A.M. García-Campaña ; L. Gámiz-Gracia ; J.M. Bosque-Sendra
DETERMINATION OF 17 N-MET HYL CARBAMATES BY MEKC-ESI-MS/MS EMPLOYING A MS-FRIENDLY SURFACTANT
- OAI-P20** O.M. Palmino ; M.P. Gómez-Serranillos ; M.E. Carretero
FLAVONOID COMPOSITION OF SIDERITIS SPECIES BY A GRADIENT ELUTION HPLC METHOD
- OAI-P21** J.M. Ramiro ; M. Torre, C. García-Ruiz
EVALUATION OF METHODOLOGIES FOR THE EXTRACTION OF NITROAROMATIC EXPLOSIVES FROM SOILS
- OAI-P22** S. Rodríguez Sanchez ; A.I. Ruiz-Matute ; M. Luz Sanz ; A.C. Soria
NEW METHODOLOGIES FOR THE EXTRACTION AND ENRICHMENT OF BIOACTIVE CARBOHYDRATES FROM MULBERRY (MORUS SP.) LEAVES

- OAI-P23** S. Rodriguez Sanchez ; L. Ruiz Aceituno ; A.C. Soria ; L. Ramos ; M. Luz Sanz
USE OF SACCHAROMYCES CEREVISIAE AS A FRACTIONATION TECHNIQUE FOR THE ENRICHMENT OF BIOACTIVE INOSITOLS IN EDIBLE LEGUME EXTRACTS
- OAI-P24** E. Vereda Alonso ; M.M. López Guerrero ; A. García de Torres ; M.T. Siles Cordero ; J.M. Cano Pavón
QUANTITATIVE DETERMINATIONS OF TiO₂ IN NEW CERAMIC MATERIALS BY FOURIER TRANSFORM INFRARED SPECTROSCOPY

Análisis de Procesos y Productos Industriales

- API-P01** E.J. Carrasco Correa ; M. Beneito Cambra ; E.F. Simó Alfonso ; J.M. Herrero Martínez ; G. Ramis Ramos
ANALYSIS OF ALKYL POLYPHOSPHONATES BY HYDROPHILIC INTERACTION LIQUID CHROMATOGRAPHY USING A PACKED POLYMERIC COLUMN
- API-P02** A. Chisvert ; A. Carretero ; I. Tarazona ; A. Salvador
LC-UV CANDIDATE REFERENCE METHOD FOR SUNSCREEN ANALYSIS: DETERMINATION OF THE ORGANIC UV FILTERS AUTHORIZED BY THE EUROPEAN COSMETIC PRODUCTS REGULATION
- API-P03** M.F. Gazulla ; M. Orduña ; S. Vicente ; M. Rodrigo
DEVELOPMENT OF A WD-XRF ANALYSIS METHOD OF MINOR AND TRACE ELEMENTS IN LIQUID PETROLEUM PRODUCTS
- API-P04** N. Pérez del Notario ; J.M. González ; I. Esteban Díez ; C. Pizarro
EVOLUTION OF THE CHROMATIC CHARACTERISTICS OF RED WINE AND UV-VIS MONITORING DURING ACCELERATED AGING PROCESSES
- API-P05** A. Salvador ; M. López-Nogueroles ; J.L. Benedé ; A. Chisvert
A GAS CHROMATOGRAPHY - MASS SPECTROMETRY METHOD FOR THE SIMULTANEOUS DETERMINATION IN PERFUMES OF THE PHTHALATES BANNED BY THE EUROPEAN COSMETIC PRODUCTS REGULATION

ÍNDICE DE AUTORES

- Abad Pastor, J.M.; NAN-OC01
 Abad, E.; MAM-P57
 Ábalos, M.; DIA-P06; MAM-P57
 Abdrabo, S.S.; CTQ-P01; CSA-P01; CSA-P02; CSA-P03
 Abellán, S.; CSA-P01; CSA-P03
 Aboal Somoza, M.; CSA-P04; CSA-P31
 Abranko, L.; CSA-P40
 Abrego, Z.; CSA-OC09
 Abuín, B.; CSA-OC02
 Acedo-Valenzuela, M.I.; AYM-P05
 Aceña Sanchez, J.; APF-OC01
 Aceña, L.; CSA-P19
 Acero, N.; OAI-P17
 Afonso, M.M.; MAM-P10
 Ágreda, J.A.; OAI-P01; OAI-P02
 Aguilar, C.; ACI-P02; MAM-P51; MAM-P54
 Aguilar-Arteaga, K.; MAM-P12
 Airado, D.; ACI-P01
 Akhatou, I.; CSA-P05
 Alamilla Orellana, F.; OAI-P03; OAI-P06
 Albaladejo, J.A.; MAM-P03
 Albero, B.; MAM-P71
 Albert-Antón, E.; CSA-P46
 Alcalà, M.; API-OC01; APF-P07; CTQ-P04
 Alcañiz-Campos, S.; CSA-P55
 Alcázar, A.; CTQ-P07
 Alechaga, E.; CSA-P06
 Alegret, S.; BIO-OC01; BIO-P06; BIO-P07
 Alfaro, P.; CSA-OC05; CSA-P22; MAM-P24
 Alferez, F.; CSA-P55
 Alier Pedemonte, M.; MAM-P01
 Almarcha, D.; MAM-P02
 Almarcha, M.; MAM-P61
 Almela, L.; MAM-P03
 Almela, P.; MAM-P03
 Almendros, G.; OAI-OC01
 Ametis Cabello, J.; BIO-P01
 Alonso Castillo, M.; MAM-P05
 Alonso Rodríguez, E.; CSA-P57
 Alonso Soto, M.; DIA-P01
 Alonso, E.; MAM-P06
 Alonso, M.; MAM-P04; MAM-P34
 Alonso, V.; OAI-P17
 Alonso-Orgaz, S.; PRT-OC01; PRT-P08
 Also, A.; MAM-P42
 Amigo, J.M.; APF-P04
 Amorós, P.; MAM-P48
 Andón, B.; APF-OC03
 Andrade, F.J.; DIA-P18
 Andrade, J.M.; MAM-P53
 Andreo, P.; MAM-P03
 Andres, V.; PRT-P06
 Andreu Navarro, A.; NAN-P03
 Andreu, V.; APF-P09
 Ansedo-García, M.; AYM-P11
 Anticó, E.; CSA-P25; MAM-P04; MAM-P34
 Anzano Lacarte, J.M.; OAI-P04; OAI-P05
 Añorga, L.; BIO-OC02
 Aparicio Gómez, I.; MAM-P06
 Arana, S.; BIO-OC02
 Arancibia Moya, V.; ELC-P01
 Arbeláez Salazar, P.; MAM-P07
 Arbulu, M.; MAM-P30
 Arce Jiménez, L.; DIA-OC03; DIA-P02; DIA-P04
 Arcos Manso, A.; MAM-P08
 Ares Sacristán, A.M.; MAM-P09
 Arespacochaga, N.; MAM-P67
 Ariño, C.; ESP-P06; DIA-P21; MAM-P23; CTQ-OC01
 Ariza Avidad, M.; DIA-OC01; MAM-P70
 Arjona, B.; MAM-P37
 Armenta Estrela, S.; CSA-OC01
 Armenta, S.; MAM-P38
 Arnáiz Rodrigo, E.; CSA-P07
 Arroyo Manzanares, N.; CSA-P08
 Arruabarrena Gamboa, J.; APF-P01
 Asensi Bernardi, L.; APF-P02
 Asensio Ramos, M.; CSA-P41; MAM-P10
 Ashman, K.; PRT-P05
 Ashu, R.; CSA-P09
 Astefanei, A.; CSA-OC06; CSA-P10
 Atoche, J.C.; CSA-P74
 Badía Laíño, R.; NAN-OC04; NAN-P02
 Badía, D.; MAM-P37
 Badía-Fabregat, M.; MAM-P27
 Báguena Polo, J.; MAM-P39; DIA-P16
 Bagur González, M.G.; CSA-P59
 Balaguer, E.; APF-OC03
 Ballesta Claver, J.; BIO-P01; DIA-P03
 Ballesteros Garcia, O.; CSA-P84
 Ballesteros, O.; MAM-P11
 Ballesteros Gómez, A.M.; NAN-OC02
 Baltrons Rosell, O.; MAM-OC01
 Baney, G.A.; CSA-P45
 Banquero, J.; DIA-OC01
 Bañuls, M.J.; BIO-P03; BIO-P08; CSA-P11
 Barbas, C.; ACI-P06
 Barbero, M.; ESP-P11; CSA-P58
 Barbosa Torralbo, J.; CSA-P12
 Barbosa, J.; CSA-P14; PRT-P09; DIA-P11
 Barbosa, S.; CSA-P14
 Barceló Culleres, D.; APF-OC01; DIA-P09; MAM-OC02; MAM-OC10; MAM-P20; MAM-P27; MAM-P29; MAM-P44; MAM-P56; MAM-P59; MAM-P73; MAM-P82
 Barciela-Alonso, M.C.; CSA-P13; ESP-P01
 Barderas, M.G.; PRT-P08; PRT-OC01
 Barón González, E.; MAM-OC02
 Barra, R.; MAM-OC02
 Barrado, A.I.; NAN-P01
 Barrado, E.; DOC-P01; ELC-OC01; ELC-P02; MAM-P12
 Barranquero, R.S.; MAM-P13
 Barrero Mazquiarán, M.A.; MAM-P14; MAM-P35
 Barrio, R.J.; AYM-P06; CSA-OC09; MAM-P15
 Barrios Romero, M.M.; AYM-OC01; AYM-P07
 Barrios, C.A.; BIO-P08
 Barrón, D.; CSA-P14
 Bartolomé, A.; MAM-P55
 Bayona, J.M.; DIA-OC02; MAM-P08; MAM-P65; MAM-P69
 Becerra, M.; CSA-P15
 Bello López, M.A.; APF-P12; APF-P10

- Bello-Gálvez, C.; OAI-P05
 Bellos, N.; MAM-OC03; MAM-OC09
 Beltran, M.; CSA-P15
 Beltran Lucena, R.; CSA-P15
 Ben Naila, I.; CSA-P27
 Benavente, F.; CSA-P12; PRT-P09; DIA-P11
 Benede, J.L.; AYM-OC03; API-P05
 Beneito Cambra, M.; MAM-P16; API-P01
 Benito-Peña, E.; MAM-OC07
 Bermejo Barrera, P.; DIA-P12; ESP-P01; CSA-P04;
 CSA-P13; CSA-P31; CSA-P57
 Bermejo, E.; NAN-P04; MAM-P81
 Bernal, J.L.; CSA-P07; MAM-P09; MAM-P80
 Bernal, J.; CSA-P07; MAM-P09; MAM-P80
 Berrueta, L.A.; CSA-P38; CSA-P66; ACI-P10
 Blanc, R.; MAM-P11
 Blanco Roca, M.J.; MAM-P39; DIA-P16
 Blanco, M.; API-OC01; APF-P04; APF-P07; APF-P13;
 CSA-OC01; CTQ-P04; DOC-P03
 Blánquez, P.; MAM-P27
 Blasco Giraud, C.; CSA-P17
 Blasco, C.; APF-P09; CSA-P16; MAM-P47; MAM-P56
 Boleda Vall-Ilovera, M.R.; MAM-P17
 Bolívar Subirats, G.; MAM-P18
 Bonetto, L.; MAM-OC03; MAM-OC09
 Bonilla Simón, M.M.; ESP-P05; MAM-P28
 Boqué, R.; CSA-P49
 Bordel, N.; DIA-P14; MAM-P36
 Borges-Álvarez, M.; PRT-P09
 Borràs, S.; CSA-P09; CSA-P64
 Borrell, A.; CSA-OC04
 Borrull Ballarín, F.; ACI-P02; MAM-OC05; MAM-P07;
 MAM-P32; MAM-P51; MAM-P54; MAM-P76
 Bosch Ojeda, C.; AYM-P01; AYM-P13
 Bosetti, O.; CSA-P62
 Bosque-Sendra, J.M.; OAI-P19
 Botello, I.; ACI-P02
 Bouza Deaño, R.; MAM-OC04; MAM-P68
 Broto-Puig, F.; CTQ-P02; DIA-P01; DIA-P16; MAM-P21;
 MAM-P39; MAM-P67
 Bujalance, M.; ESP-P07
 Bustamante Rangel, M.; CSA-P18; CSA-P28
 Busto, O.; CSA-P19; CSA-P49
 Buxaderas, S.; CSA-P68
 Caballero Casero, N.; CSA-P20
 Caballero- Locos, M.J.; ACI-P09
 Caballo Linares, C.; MAM-P19
 Cabezas Sánchez, P.; PRT-P01; PRT-P06
 Cacho Aparicio, J.; AYM-P02; CSA-P21
 Cacho, J.; CSA-OC10; CSA-P36; CSA-P42; CSA-P47;
 CSA-P85
 Caixach Gamisans, J.; CSA-P26; CSA-P80; DIA-P15;
 MAM-P02; MAM-OC06; MAM-P55; MAM-P61
 Cáceres Gianni, J.O.; DOC-P03
 Calcerrada, M.; OAI-P06
 Calderón, J.; ESP-P10
 Callao, M.P.; MAM-P43
 Callejón Mochón, M.; APF-P10; APF-P12
 Calull, M.; ACI-P02
 Calvarro, S.; DIA-P08
 Calvo Fornieles, A.; MAM-P78
 Calvo, E.; PRT-P08
 Camacho-Muñoz, D.; MAM-P06
 Camara, C.; PRT-OC02; PRT-P01; PRT-P05; PRT-P06
 Caminal, G.; MAM-P27
 Campillo, N.; AYM-P02; AYM-P03; AYM-P09
 Campins-Falcó, P.; AYM-P11; MAM-P52; MAM-P62;
 CSA-P46
 Campo, E.; CSA-P42
 Canals, A.; MAM-OC12
 Canellas Aguares, E.; CSA-OC05; CSA-P22; CSA-P79;
 MAM-P24
 Cano Pavón, J.M.; AYM-P01; AYM-P13; OAI-P24;
 MAM-P05; MAM-P72; MAM-P78
 Cantalapiedra, A.; CSA-P70
 Cantarero-Malagón, S.; CSA-P84
 Cantón, L.; MAM-P14; MAM-P35
 Canuto, G.; ACI-P06
 Cañada Cañada, F.; ACI-P08
 Cañas, B.; PRT-P07
 Cañizares, P.; CSA-P69
 Capel Cuevas, S.; CSA-P23
 Capita, L.F.; DIA-OC01
 Capitan-Vallvey, L.F.; DIA-OC04; DIA-P03; BIO-P01;
 MAM-P70; CSA-P23
 Carabias Martínez, R.; CSA-P18; CSA-P28; CSA-P53;
 DIA-P05
 Carabias Martínez, R.; ACI-P05
 Carballo Paradelo, S.; MAM-P53
 Cárdenas, S.; AYM-P04; AYM-P10
 Carlosena, A.; MAM-P53
 Carneado, S.; ESP-P08
 Carpinteiro Botana, I.; CSA-OC02
 Carrasco Correa, E.J.; API-P01
 Carrasco-Pancorbo, A.; OAI-OC02
 Carrera, F.; APF-P03
 Carretero, A.; API-P02
 Carretero, M.E.; OAI-P12; OAI-P20
 Carro, A.M.; MAM-P64
 Casas-González, J.; OAI-P05
 Cases, A.; OAI-P12
 Casquel, R.; BIO-P08
 Castellari, M.; APF-P11
 Castellote Bargalló, A.I.; CSA-P51; ACI-P03
 Castillo, A.; ESP-P02
 Castillo, E.; OAI-P01; OAI-P02
 Castrelos, E.; PRT-P01
 Castrillejo Hernández, Y.; ELC-OC01; ELC-OC05;
 ELC-P02; DOC-P01
 Castro López, M.M.; OAI-P07
 Castro Puyana, M.; CSA-P48
 Catalá-Clariana, S.; CSA-P12
 Cavalcante, D.D.; CSA-P32
 Cavanillas López, S.; CTQ-OC01
 Cedazo-Mínguez, A.; OAI-OC03
 Cela Pérez, M.C.; OAI-P07
 Cela, R.; CSA-OC02; CSA-P71; MAM-P64; MAM-P79
 Centelles, E.; MAM-P69
 Centrich, F.; ESP-P10
 Cerda, V.; AYM-P08; CSA-P35; MAM-OC11

- Céspedes, F.; **BIO-P02**
 Cetó, X.; **BIO-P02**
 Chana, A.; **PRT-P03**
 Chankvetadze, B.; **MAM-P58**
 Checa, A.; **CSA-P37**; **CSA-P77**
 Chekmeneva, E.; **ESP-P06**
 Chicharro, M.; **NAN-P04**; **MAM-P81**
 Chisaguano Tonato, A.M.; **ACI-P03**
 Chisvert, A.; **AYM-OC03**; **API-P02**; **API-P05**
 Cifuentes, A.; **CSA-P39**; **CSA-P48**; **OAI-OC03**
 Cirera-Doménech, E.; **CTQ-P02**; **MAM-P21**
 Cocchi, M.; **CTQ-P10**
 Coello, J.; **APF-P01**
 Cogollos-Costa, S.; **AYM-P11**
 Coll, L.; **MAM-P03**
 Colón Florian, M.; **CSA-P24**
 Comas, J.; **MAM-P69**
 Comellas-Riera, L.; **DIA-P01**; **CTQ-P02**; **MAM-P21**
 Companioni Damas, E.Y.; **MAM-P22**
 Company Arumi, D.; **CSA-P25**
 Companyó, R.; **CSA-P09**; **CSA-P44**; **CSA-P64**
 Conde Vilda, E.; **NAN-P01**
 Contento Salcedo, A.M.; **MAM-P68**
 Contreras-Acuña, M.; **ESP-P04**
 Copoví, P.; **OAI-P08**
 Corcellas, C.; **MAM-P20**
 Cortés, M.P.; **BIO-OC01**; **BIO-P07**
 Cortés Francisco, N.; **CSA-P26**; **CSA-P80**
 Corzo, N.; **CSA-P30**; **CSA-P73**
 Corzo-Martínez, M.; **CSA-P73**; **OAI-P08**
 Costa Fernández, J.M.; **NAN-OC03**; **NAN-P06**; **NAN-P08**;
NAN-P09; **DIA-P19**
 Costa, J.; **MAM-P66**
 Costa-García, A.; **AYM-P05**
 Coto García, A.M.; **NAN-OC03**
 Crego Navazo, A.L.; **CSA-P43**; **MAM-P58**
 Crespo, G.A.; **DIA-P18**
 Criado García, L.R.; **DIA-P02**; **DIA-P04**
 Cruces Blanco, C.; **CSA-P50**; **ACI-P01**; **MAM-P41**
 Cruz, J.; **APF-P07**
 Cuéllar, M.P.; **CSA-P23**
 Cuello, S.; **PRT-P05**
 Cueva Mestanza, R.E.; **APF-P04**
 Culzoni, M.J.; **ACI-P08**
 Dago Busquets, A.; **MAM-P23**
 Dall'Osto, M.; **MAM-P01**
 Dávalos, J.; **PRT-P03**
 Deelder, A.M.; **OAI-OC02**
 Delgado Zamarreño, M.M.; **CSA-P18**; **CSA-P28**
 Delgado, J.; **CTQ-P08**
 Delgado-Ortiz, R.; **MAM-P21**
 Dersk, R.; **OAI-OC02**
 Dernovics, M.; **CSA-P40**
 Desorcie, J.L.; **CSA-P45**
 Di Anibal, C.V.; **CSA-P72**
 Diáñez, M.; **MAM-P60**
 Díaz Cruz, M.S.; **MAM-P29**
 Díaz Faes, T.; **NAN-OC04**
 Díaz Ferrero, J.; **CSA-P29**
 Díaz García, M.E.; **NAN-OC04**; **NAN-P02**
 Díaz, I.; **APF-P11**
 Díaz-Cruz, J.M.; **ESP-P06**; **DIA-P21**; **MAM-P23**;
CTQ-OC01
 Díaz-Cruz, M.S.; **MAM-P27**
 Díaz-Palma, P.; **ESP-P11**
 Diego, J.C.; **CSA-P07**; **MAM-P45**
 Díez Municio, M.; **CSA-P30**
 Díez, C.; **MAM-P12**
 Díez, S.; **MAM-P65**
 Díez-Masa, J.C.; **AYM-OC01**;
PRT-P02; **PRT-P03**; **DIA-P17**
 Diogène, J.; **CSA-OC03**; **CSA-P27**
 Dionis Delgado, S.; **CSA-P41**
 Domeño Recalde, C.; **ACI-P07**
 Domeño, C.; **CSA-OC05**; **CSA-P22**; **MAM-P24**;
MAM-P74
 Domínguez Álvarez, J.; **DIA-P05**; **CSA-P18**; **CSA-P53**
 Domínguez Fernández, C.; **DIA-OC02**
 Domínguez, C.; **MAM-P08**; **MAM-P69**
 Domínguez González, R.; **CSA-P57**
 Domínguez-González, M.R.; **CSA-P04**; **CSA-P31**
 Domínguez Romero, J.C.; **ACI-OC01**; **CSA-P40**; **CSA-P61**
CSA-P67; **CSA-P69**
 Dominguez Vega, E.; **MAM-P58**
 Dominguez, E.; **BIO-P04**; **NAN-P10**
 dos Santos, W.N.L.; **CSA-P32**
 Dulsat, J.F.; **APF-OC03**; **APF-P05**; **APF-P06**
 Duran Merás, I.; **ACI-P04**; **CSA-P34**; **APF-OC02**
 Echeazarra, L.; **CSA-OC09**
 Elizalde, M.P.; **CSA-P33**
 Eljarrat, E.; **MAM-OC02**; **MAM-P20**
 Escarpa, A.; **CSA-P82**
 Escorihuela, J.; **BIO-P03**; **CSA-P11**
 Escudero Francos, M.A.; **NAN-P02**
 Escudero, A.; **CSA-P79**
 Espinosa Mansilla, A.; **CSA-P34**; **APF-OC02**; **ACI-P04**;
ACI-P08
 Estal-Rovira, E.; **CSA-P46**
 Esteban Díez, I.; **API-P04**
 Esteban, M.; **ESP-P06**; **DIA-P21**; **MAM-P23**; **CTQ-OC01**
 Esteban, R.; **DIA-OC05**
 Estela Ripoll, J.M.; **CSA-P35**
 Ettiene, G.; **MAM-P68**
 Fabregat-Cabello, N.; **ESP-P02**
 Fajardo Rosabal, L.; **CSA-P38**
 Faria, M.; **MAM-OC08**
 Fariña Gómez, N.; **PRT-P02**
 Farré, M.; **OAI-P18**; **MAM-P44**; **MAM-P56**; **MAM-P59**;
MAM-P73
 Ferreira, B.; **APF-OC01**
 Fedeli, M.; **CSA-P62**
 Feo, M.L.; **MAM-P20**
 Férez Melgarejo, G.; **AYM-P03**
 Fernandes, D.; **MAM-OC08**
 Fernández de la Ossa, M.A.; **OAI-P10**
 Fernández Fernández, M.; **CSA-OC08**
 Fernández Fernández, E.; **MAM-P53**
 Fernández García, B.; **OAI-P11**
 Fernández, B.; **DIA-P19**; **MAM-P36**
 Fernández González, A.; **NAN-P02**

- Fernandez-Gutierrez, A.; OAI-OC02
 Fernández Laespada, M.E.; MAM-P40
 Fernández Recamales, A.; CSA-P05
 Fernández Requejo, P.; ELC-OC01
 Fernández Romero, J.M.; NAN-P03; NAN-P07
 Fernandez Sanchez, M.L.; ESP-OC01
 Fernández, M.L.; OAI-P11
 Fernández Torres, R.; APF-P12
 Fernández, C.; MAM-P43
 Fernandez-Fernandez, E.; MAM-P25
 Fernández, M.A.; DIA-P08
 Fernández, P.; MAM-P26; ELC-P05
 Fernández-Abedul, M.T.; AYM-P05
 Fernandez-Arguelles, M.; NAN-OC03; NAN-P09
 Fernández, M.; NAN-P01
 Fernández-Cruz, M.L.; NAN-P01
 Fernández-Ramos, C.; MAM-P11
 Fernández-Ramos, M.D.; DIA-OC04
 Fernández-Tejedor, M.; CSA-P27
 Fernández-Torres, R.; APF-P10
 Ferragut, J.A.; CSA-P39; CSA-P48
 Ferrando, J.L.; OAI-P14; OAI-P16; CSA-P74
 Ferreira, M.; MAM-P66
 Ferreira, S.L.C.; PRT-OC02
 Ferreira, V.; CSA-OC10; CSA-P21; CSA-P36; CSA-P42;
 CSA-P47; CSA-P85
 Ferrero-Refojos, R.; MAM-P79
 Figueras, M.; CSA-P25
 Fodor, P.; CSA-P40
 Folger, S.; APF-P06
 Fontal, M.; MAM-P26
 Fontanals Torroja, N.; MAM-OC05; MAM-P32
 Fontàs, C.; MAM-P31
 Fornet-Herrero, E.; APF-P02
 Fortes, F.J.; DIA-P10
 Forteza, R.; MAM-OC11
 Fraguela, B.; DOC-P02
 Francesc, D.J.; APF-P03
 Franquet Griell, H.; CSA-P37
 Franzke, J.; DIA-P07
 Fuente, J.M. de la; BIO-P05; ELC-P05
 Frutos Gómez, M. de; PRT-P02; PRT-P03; DIA-P17
 Funes Collado, V.; ESP-P03
 Fyrnys, B.; APF-P06
 Gabiola, X.; CSA-P60
 Gago Ferrero, P.; MAM-P27
 Galán Cano, F.; AYM-P04
 Galán de Mera, A.; OAI-P17
 Galban Bernal, J.; BIO-P09; BIO-P05
 Galceran, M.T.; CSA-OC06; CSA-P06; CSA-P10;
 CSA-P52; MAM-OC06; MAM-P17; MAM-P18;
 MAM-P22; MAM-P55; MAM-P57
 Galeano-Díaz, T.; AYM-P05
 Galindo-Iranzo, P.; CTQ-P05
 Gallart Ayala, H.; CSA-OC06; CSA-P77; MAM-OC06;
 MAM-P18
 Gallo, B.; CSA-P38; CSA-P66; ACI-P10
 Gallo, V.; CSA-P15
 Gamboa-Ruiz, W. L.; ESP-P09
 Gamboa-Santos, J.; CSA-P54
 Gámiz Gracia, L.; CSA-P08; CSA-P50; OAI-P19
 Gaona, I.; DIA-P10
 García Alonso, J.I.; CSA-OC08; ESP-OC02; ESP-P02
 García Altares, M.; CSA-OC03
 García Barrera, T.; ESP-P04
 García Bermejo, A.; DIA-P06
 García Calzón, M.J.A.; NAN-OC04
 García Campaña, A.M.; CSA-P08; CSA-P50; CSA-P81;
 OAI-P19; ACI-P01; MAM-P41; MAM-P63
 García Cañas, V.; CSA-P39
 García Casillas, D.; ESP-P05; MAM-P28
 García de Torres, A.; OAI-P24; MAM-P05; MAM-P72;
 MAM-P78
 Garcia Galan, M.J.; MAM-P29
 García Gómez, D.; ACI-P05
 García Mutio, D.; MAM-P30
 García Pinto, C.; CSA-OC07
 García Reyes, J.F.; CSA-P40; CSA-P61; CSA-P67;
 ACI-OC01; DIA-P07
 García, A.; ACI-P06
 Garcia Rodriguez, A.; MAM-P31
 García-Ruiz, C.; OAI-P03; OAI-P06; OAI-P10; OAI-P14;
 OAI-P16; OAI-P21; CSA-P56; CSA-P74
 García Salgado, S.; ESP-P05; MAM-P28
 Garcia, M.A.; MAM-P58
 Garcia, M.C.; CSA-P43; CSA-P65
 García, T.; BIO-OC02; ELC-P03
 García-Barrera, T.; ESP-OC03
 García-Fonseca, S.; CSA-P20
 García-Gómez, D.; CSA-P53
 García-Regueiro, J.A.; APF-P11
 García-Ruperez, J.; BIO-P03; CSA-P11
 García-Sartal, C.; ESP-P01
 García-Sevillano, M.A.; ESP-OC03
 García-Vargas, M.; ESP-P13; MAM-P49
 Garde, F.; APF-OC03; APF-P06
 Gardinali, P.R.; APF-OC01
 Garrido Delgado, R.; DIA-OC03
 Garrido-Medina, R.; PRT-P02
 Garrigues, S.; MAM-P38
 Gaspar, E.; OAI-P05
 Gasser, M.; CSA-P29
 Gassiot-Matas, M.; CTQ-P02
 Gázquez Evangelista, D.; CSA-P59
 Gazulla, M.F.; API-P03
 Gdoura, R.; CSA-P27
 Gibert, J. M.; DIA-P19
 Gibert, R.; DIA-P19
 Gilart Alzuria, N.; MAM-P32
 Gilbert López, B.; DIA-P07; CSA-P61
 Gil-Dones, F.; PRT-P08
 Gilsanz, C.; ESP-P06
 Giménez, E.; CSA-P12
 Giráldez Díaz, I.; ESP-P07
 Gismera, M.J.; CSA-P70; MAM-P33
 Godayol Boix, A.; MAM-P04; MAM-P34
 Godoy Caballero, M.P.; AYM-P05
 Goicoec, H.C.; ACI-P08
 Goicoechea, H.; CTQ-P06
 Goicolea, M.A.; AYM-P06; MAM-P15; MAM-P30

- Goikoetxea Beobide, M.; MAM-P35
 Gómara, B.; DIA-P06; DIA-P08
 Gómez Ariza, J.L.; ESP-OC03; ESP-P04
 Gómez Caballero, A.; AYM-P06; MAM-P15; MAM-P30
 Gómez Egea, M.; MAM-P48
 Gómez Hens, A.; NAN-P03; NAN-P07
 Gómez, A.; DIA-P17
 Gómez, R.; CSA-P56
 Gómez-Anquela, C.; ELC-P03
 Gómez-Gómez, M.M.; PRT-P07; DOC-P03
 Gómez-Martínez, A.; CSA-P39
 Gómez-Romero, M.; OAI-OC02
 Gómez-Serranillos, M.P.; OAI-P12; OAI-P20
 González Aguirre, M.; MAM-P14
 González Antuña, A.; CSA-OC08
 González, A.; BIO-OC04
 González Crevillen, A.; AYM-OC01; AYM-P07
 González Curbelo, M.A.; CSA-P41
 Gonzalez de Vega, C.; MAM-P36
 González Gómez, D.; ACI-P04
 González Iglesias, H.; ESP-OC01
 González Pérez, J.A.; MAM-P37; OAI-OC01
 González Rodríguez, M.V.; OAI-P07
 González Vila, F.J.; OAI-OC01
 González, J.I.; DOC-P02
 González, J.M.; API-P04
 Gonzalez, M.C.; CSA-P82
 González, M.J.; DIA-P06; DIA-P08
 Gonzalez, P.; MAM-P64
 González-Fernández, M.; ESP-OC03
 González-Fuenzalida, R. A.; CSA-P46
 González-García, A.; CSA-P04
 Gonzalez-Romero, E.; ELC-P03
 González-Sáiz, J.M.; CSA-P63
 González-Vila, F.J.; MAM-P37
 Gonzálvez, A.; MAM-P38
 Gotor Navarra, G.; CTQ-P02; DIA-P01; MAM-P39;
 MAM-P67; DIA-P16
 Gracia Moreno, E.; CSA-P42; CSA-P21
 Granados, J.; MAM-P07
 Granados, M.; CSA-P09
 Grané, N.; CSA-P03
 Gras, L.; CSA-P01; CSA-P02; CSA-P03; CTQ-P01;
 DIA-P13
 Grimalt, J.O.; MAM-P01; MAM-P26
 Grindlay, G.; CSA-P01; CSA-P02; CSA-P03; CTQ-P01;
 DIA-P13
 Grueiro Noche, G.; MAM-P40
 Guadayol, J.M.; CSA-P68
 Guardia, M. de la; MAM-P38
 Guart, A.; CSA-OC04
 Guerendiain Margni, M.E.; CSA-P51
 Guerreiro, A.; AYM-P06
 Guerrero, A.; PRT-P03
 Guiberteau Cabanillas, A.; CTQ-P06
 Guijarro Díez, M.; CSA-P42
 Guillem, C.; MAM-P48
 Guinovart, T.; DIA-P18
 Guirado, S.; DIA-P10
 Guiraúm Pérez, A.; APF-P12
 Guiteras Rodriguez, J.; CSA-P44
 Gusmao, R.; ESP-P06
 Gustavo González, A.; CTQ-P03
 Gutiérrez Carreras, A.M.; MAM-OC07; DOC-P03
 Gutiérrez Rivas, P.; CSA-P45
 Gutierrez-Climente, R.; MAM-P15
 Guzmán Cortijo, J.; ELC-P04
 Guzmán Mar, J.L.; AYM-P08
 Hamza, A.; CSA-P28
 Hayen, H.; DIA-P07
 Hernández Borges, J.; CSA-P41; MAM-P10
 Hernández Córdoba, M.; AYM-P02; AYM-P03; AYM-P09
 Hernández Hernández, O.; PRT-P04
 Hernández Mesa, M.; MAM-P41
 Hernández Nataren, E.; ESP-P08
 Hernández, A.; AYM-P08
 Hernández, F.; MAM-P47
 Hernández, P.; ELC-OC01; ELC-P02; ELC-P05
 Hernández-Cassou, S.; CSA-P37; CSA-P77
 Hernández-Mendez, J.; DIA-P05
 Herráez Hernández, R.; CSA-P46; MAM-P52
 Herrera, W.; OAI-P01
 Herrero Collantes, L.; DIA-P08
 Herrero Martínez, J.M.; API-P01; NAN-P05; MAM-P16
 Herrero Pedrafita, P.; CSA-P47
 Herrero, M.; CSA-P48; CSA-P76
 Hidalgo Muñoz, M.; MAM-P42
 Higes, M.; MAM-P09
 Hinojosa, L.; AYM-P08
 Holgado, M.; BIO-P08
 Huebra, M.; CSA-P33
 Hurtado Fernández, E.; OAI-OC02
 Hurtado Sánchez, M.C.; APF-OC02
 Hurtado, J.M.; CSA-P60
 Ibáñez Palomino, C.; ESP-P09
 Ibáñez, C.; OAI-OC03
 Ibáñez, E.; CSA-P48; CSA-P76
 Ibáñez, M.; MAM-P47
 Iglesia, P. de la; CSA-OC03; CSA-P27
 Iglesias, M.; ESP-P12
 Jara-Biedma, R.; ESP-OC03
 Jesus, C.N.S. de; CSA-P32
 Jiménez Centelles, J.; BIO-P04
 Jiménez, J.; DOC-P01
 Jiménez Girón, A.; CSA-P34
 Jiménez Solano, R.; CTQ-P04
 Jiménez, V.; CSA-P44
 Jimeno, M.L.; CSA-P30
 Jornet, S.; CSA-P49
 Juan, A. de; CTQ-P10; MAM-P43
 Juncal Bello, V.; DIA-P12
 Junza, A.; CSA-P14
 Jurado, J.M.; CTQ-P07
 Köck Schulmeyer, M.; DIA-P09
 Konz, I.; OAI-P11
 Kunda, P.B.; CSA-P12
 Laborde, C.M.; PRT-P08
 Lacorte, S.; CSA-OC04; MAM-P50
 Lafuente, M.T.; CSA-P55
 Laguna, M.F.; BIO-P08

- Lahuerta Zamora, L.; [OAI-P13](#)
 Lapieza Remon, M.P.; [BIO-P05](#)
 Larrechi, M.S.; [MAM-P43](#)
 Lasarte Aragonés, G.; [AYM-P10](#)
 Laserna, J.J.; [DIA-P10](#)
 Lasheras, R.J.; [OAI-P05](#)
 Laube, T.; [BIO-P06](#)
 Lazzara, R.; [MAM-OC08](#)
 Lebrón Aguilar, R.; [CTQ-P05](#); [PRT-P04](#)
 Lemos-Eguía, J.; [CSA-P38](#)
 Leone, S.R.; [OAI-P04](#)
 Lerma-García, M.J.; [NAN-P05](#)
 Liébana, S.; [BIO-OC01](#); [BIO-P07](#)
 Llagostera, M.; [BIO-OC01](#); [BIO-P07](#)
 Llebaria, X.; [MAM-P57](#)
 Lliso, I.; [MAM-P38](#)
 Llobat-Estellés, M.; [MAM-P48](#)
 Llorca Casamayor, M.; [MAM-P44](#)
 Llorca, M.; [MAM-P59](#)
 Llorente Mirandes, T.; [ESP-P10](#)
 Lobo, L.; [MAM-P36](#)
 Lombardo Agüí, M.; [CSA-P50](#)
 Lopez de Alda, M.; [DIA-P09](#)
 López González, M.A.; [ACI-P06](#); [OAI-P17](#)
 López Guerrero, M.M.; [OAI-P24](#)
 López López, M.; [OAI-P14](#)
 López Mahía, P.; [CSA-P57](#); [MAM-P53](#)
 López Medina, J.; [CSA-P05](#)
 López Ruiz, N.; [CSA-P23](#); [DIA-OC01](#)
 López Sabater, M.C.; [ACI-P03](#); [CSA-P51](#)
 López Sánchez, J.F.; [CSA-P58](#); [MAM-P26](#); [ESP-P03](#); [ESP-P08](#); [ESP-P09](#); [ESP-P10](#); [ESP-P11](#)
 López Sepúlveda, M.; [MAM-OC04](#)
 López Vidal, S.; [DIA-P02](#); [DIA-P04](#)
 López Vilariño, J.M.; [OAI-P07](#)
 López, D.; [BIO-P08](#)
 López, J.; [MAM-OC08](#)
 López, J.A.; [PRT-P08](#)
 Lopez, R.; [CSA-P21](#); [CSA-P42](#)
 López-Barrera, J.; [ESP-OC03](#)
 López-García, I.; [AYM-P09](#)
 Lopez-Heras, I.; [PRT-OC02](#)
 López-Mahía, P.; [MAM-P62](#)
 López-Nogueroles, M.; [API-P05](#)
 López-Romero, R.M.; [CTQ-P09](#)
 López-Tamames, E.; [CSA-P68](#)
 Lorenzo, E.; [BIO-OC02](#); [ELC-P03](#); [NAN-OC01](#)
 Lorenzo, M.A.; [MAM-P81](#)
 Lorenzo, R.A.; [MAM-P64](#)
 Lozano Miralles de Imperial, B.; [CSA-P51](#)
 Luaces, M.D.; [MAM-OC07](#)
 Lucas, S.; [APF-P03](#)
 Lucena, P.; [DIA-P10](#)
 Lucena, R.; [AYM-P04](#); [AYM-P10](#)
 Luque García, J.L.; [PRT-OC02](#); [PRT-P01](#); [PRT-P05](#); [PRT-P06](#); [DOC-P03](#)
- Malm, O.; [MAM-P20](#)
 Mancha de Llanos, A.; [ACI-P04](#); [ACI-P08](#)
 Mansilla, M.L.; [MAM-P45](#)
 Mantilla- Iglesias, E.; [MAM-P52](#)
 Mánuel, V.; [MAM-P60](#)
 Manzano San José, P.; [MAM-P45](#)
 Maquieira, A.; [BIO-OC03](#); [BIO-P03](#); [BIO-P08](#); [BIO-P10](#); [CSA-P11](#); [CSA-P75](#)
 Marcé, R.M.; [MAM-OC05](#); [MAM-P07](#); [MAM-P32](#)
 March, J.G.; [AYM-OC03](#)
 Marcos Ruiz, S. de; [BIO-P09](#)
 Marcos, J.; [OAI-P18](#)
 Marguá, E.; [MAM-P42](#)
 Marín Carrasco, P.; [OAI-P15](#)
 Marina, M.L.; [CSA-P43](#); [CSA-P56](#); [CSA-P65](#); [MAM-P58](#)
 Marini, F.; [CTQ-P10](#)
 Márquez Lorente, A.; [ESP-P11](#); [CSA-P58](#)
 Martí Aluja, I.; [CTQ-OC02](#)
 Martí, R.; [CSA-P29](#)
 Martín Alberca, C.; [OAI-P16](#)
 Martín Tornero, E.; [CSA-P34](#)
 Martín, J.; [MAM-P06](#)
 Martín, M.T.; [CSA-P07](#); [MAM-P80](#)
 Martín-Biosca, Y.; [APF-P02](#)
 Martín de Vidales, M.J.; [CSA-P69](#)
 Martínez Alcazar, M.P.; [OAI-P17](#)
 Martínez Galera, M.; [APF-P08](#)
 Martínez Laborde, C.; [PRT-OC01](#)
 Martínez Moral, M.P.; [MAM-P46](#)
 Martínez Olmos, A.; [CSA-P23](#); [DIA-OC01](#); [DIA-OC04](#)
 Martínez Villalba, A.; [CSA-P52](#)
 Martínez-Moral, M.P.; [MAM-P75](#)
 Martins, C.P.B.; [MAM-OC06](#)
 Martrat, M.G.; [MAM-P57](#)
 Masiá, A.; [MAM-P47](#)
 MasPOCH, S.; [APF-P01](#)
 Massó, A.; [APF-OC03](#); [APF-P05](#); [APF-P06](#)
 Mastromichali, A.; [MAM-OC12](#)
 Mata, F.J. de la; [CSA-P56](#)
 Matabosch, X.; [OAI-P18](#)
 Matamoros, V.; [MAM-P31](#)
 Mateos Vivas, M.; [CSA-P53](#)
 Mateo-Vivaracho, L.; [CSA-P36](#); [CSA-P85](#)
 Mauri Aucejo, A.; [MAM-P48](#)
 Maya, F.; [CSA-P35](#)
 Mayboroda, O.A.; [OAI-OC02](#)
 Maynar-Mariño, J.I.; [ACI-P09](#)
 Maynar-Mariño, M.; [ACI-P09](#)
 Mayo, J.C.; [NAN-P09](#)
 Medina Casanellas, S.; [DIA-P11](#)
 Medina, C.; [CTQ-P08](#)
 Megía-Fernández, A.; [BIO-P01](#)
 Megias Pérez, R.; [CSA-P54](#)
 Mellado, F.; [ESP-P07](#)
 Mendiara Negredo, I.; [ACI-P07](#)
 Mendiguchía Martínez, C.; [DOC-P02](#); [ESP-P13](#); [MAM-P49](#)
 Mendiola, J.A.; [CSA-P76](#)
 Menéndez Miranda, M.; [NAN-OC03](#)
 Mestres, M.; [CSA-P19](#); [CSA-P49](#)
- Macedo, S.M.; [CSA-P32](#)
 Madrid, Y.; [PRT-OC02](#); [PRT-P05](#)

- Meyer, C.; [DIA-P07](#)
Mezquida, A.; [CSA-OC04](#)
Michels, A.; [DIA-P07](#)
Miguel, E.; [MAM-P71](#)
Milinovic, J.; [MAM-P50](#)
Miró, M.; [AYM-OC02](#)
Mocholí Castelló, F.A.; [MAM-OC03](#); [MAM-OC09](#)
Mohino Guerrero, J.C.; [MAM-OC04](#)
Mola Arques, M.; [MAM-P51](#)
Molina Díaz, A.; [ACI-OC01](#); [DIA-P07](#); [CSA-P40](#);
[CSA-P61](#); [CSA-P67](#); [CSA-P69](#)
Molinas, M.; [CSA-P25](#)
Moliner Martínez, Y.; [AYM-P11](#); [CSA-P46](#); [CSA-P55](#);
[MAM-P52](#)
Molins Legua, C.; [CSA-P55](#); [MAM-P52](#)
Montaña, M.; [CSA-OC09](#)
Montaña, M.J.; [CSA-P29](#)
Montealegre Dondarza, C.; [CSA-P56](#)
Montesdeoca-Esponda, S.; [OAI-P09](#)
Montilla, A.; [OAI-P08](#); [CSA-P30](#); [CSA-P54](#); [CSA-P73](#)
Montoro Bustos, A.R.; [NAN-P08](#)
Montoya, E.; [DIA-P02](#); [DIA-P04](#)
Montoya, R.; [MAM-P49](#)
Montse, J.; [APF-P03](#)
Mora Diez, N.; [CTQ-P06](#)
Mora, J.; [CSA-P01](#); [CSA-P02](#); [CSA-P03](#); [CTQ-P01](#);
[DIA-P13](#)
Morais, S.; [BIO-OC03](#); [BIO-P10](#)
Moraleja, I.; [PRT-P07](#)
Morales, E.; [ESP-P07](#)
Morales-Sanfrutos, J.; [BIO-P01](#)
Morcote, M.; [MAM-P60](#)
Moreda Piñeiro, J.; [CSA-P57](#)
Morell-García, A.; [ESP-P03](#)
Moreno Cordero, B.; [CSA-OC07](#); [MAM-P40](#)
Moreno González, D.; [OAI-P19](#)
Moreno, C.; [ESP-P13](#); [MAM-P49](#); [MAM-P60](#)
Moreno, F.J.; [CSA-P30](#); [PRT-P04](#); [OAI-P08](#)
Moreno, M.; [BIO-OC04](#); [NAN-P04](#); [MAM-P81](#)
Moreno-Bondi, M.C.; [MAM-OC07](#)
Moreno-Gordaliza, E.; [PRT-P07](#); [DOC-P03](#)
Moros, J.; [DIA-P10](#)
Mourino-Alvarez, L.; [PRT-OC01](#); [PRT-P08](#)
Moyano, E.; [CSA-OC06](#); [CSA-P06](#); [CSA-P52](#);
[MAM-OC06](#); [MAM-P18](#)
Muniategui Lorenzo, S.; [CSA-P57](#); [MAM-P40](#); [MAM-P53](#)
Munné, R.; [APF-OC03](#)
Muñoz de la Peña, A.; [ACI-P08](#)
Muñoz Ortuño, M.; [AYM-P11](#)
Muñoz, G.; [DOC-P02](#)
Muñoz-Cimadevilla, H.; [NAN-P09](#)
Muñoz-Mingarro, D.; [OAI-P17](#)
Narváz, A.; [BIO-P04](#); [NAN-P10](#)
Navalón, A.; [CSA-P84](#); [MAM-P11](#)
Navarro Pascual Ahuir, M.; [NAN-P05](#)
Navas, J.M.; [NAN-P01](#)
Nerin de la Puerta, C.; [AYM-P12](#); [CSA-OC05](#); [CSA-P21](#);
[CSA-P22](#); [CSA-P24](#); [CSA-P62](#); [CSA-P79](#); [ACI-P07](#);
[MAM-P24](#); [MAM-P74](#)
Ni, Y.; [CSA-P45](#)
Nieto Cebrián, A.; [MAM-P54](#)
Noguerol Cal, R.; [OAI-P07](#)
Nolla Garrido, C.; [DIA-P01](#); [MAM-P39](#)
Nozal, M.J.; [MAM-P09](#); [MAM-P45](#); [MAM-P80](#)
Núñez Burcio, O.; [CSA-OC06](#); [CSA-P10](#); [CSA-P37](#);
[CSA-P52](#); [CSA-P77](#)
O'Dogherty, L.; [DOC-P02](#)
Ocampo-Duque, W.; [MAM-P20](#)
Ocaña, J.A.; [APF-P10](#)
Ojeda, I.; [BIO-OC04](#)
Olano, A.; [CSA-P30](#); [CSA-P73](#); [OAI-P08](#)
Olcina-Camcho, G.; [ACL-P09](#)
Oliveira, M.B.P.P.B.; [CSA-P76](#)
Olmo Iruela, M. del; [MAM-P63](#); [CSA-P81](#)
Olmos Guevara, J.E.; [MAM-P55](#)
Olmos, J.O.; [MAM-P57](#)
Omenat-Morán, D.; [CSA-P83](#)
Onghena, M.; [MAM-P56](#)
Orbe-Payá, I. de; [CSA-P23](#); [DIA-P03](#)
Orduña, M.; [API-P03](#)
Orellana García, F.; [ACI-P01](#)
Ortega Higueruelo, F.J.; [BIO-P08](#)
Osorio Torrens, V.; [MAM-OC10](#)
Otero, R.; [APF-P06](#)
Pablos Pons, F.; [CTQ-P07](#)
Pacchiarotta, T.; [OAI-OC02](#)
Pacheco Reyes, R.; [CSA-P67](#)
Padial, L.R.; [PRT-P08](#)
Páez-Hernández, M.E.; [MAM-P12](#)
Palacios, O.; [DIA-P15](#)
Palacios Corvillo, M.A.; [DOC-P03](#)
Palacios-Morillo, A.; [CTQ-P07](#)
Palenzuela, J.A.; [MAM-P10](#)
Palet, C.; [MAM-OC01](#)
Palma, A.J.; [DIA-OC04](#); [CSA-P23](#)
Palmino, O.M.; [OAI-P12](#); [OAI-P20](#)
Palou, A.; [APF-P07](#)
Pardo, R.; [DOC-P01](#); [CTQ-P08](#)
Paredes, J.; [BIO-OC02](#)
Parera, J.; [MAM-P69](#); [MAM-P57](#)
Pariante, F.; [BIO-OC02](#); [ELC-P03](#); [NAN-OC01](#)
Parrilla Vázquez, M.M.; [APF-P08](#)
Parrilla Vázquez, P.; [APF-P08](#)
Parrilla, M.; [DIA-P18](#)
Pau, J.L.; [NAN-OC01](#)
Paz-Estivill, S.; [MAM-P21](#)
Paz-Rodríguez, B.; [CSA-P31](#)
Pedron Ruiz, I.M.; [AYM-OC03](#)
Pegalajar, M.C.; [CSA-P23](#)
Pell Lorente, A.; [CSA-P58](#); [ESP-P11](#)
Peña Vázquez, E.; [DIA-P12](#)
Peñalver, A.; [MAM-P54](#)
Peñalver, S.; [MAM-P51](#)
Peransí, S.; [BIO-P03](#); [CSA-P11](#)
Pereiro García, R.; [NAN-P06](#); [NAN-P08](#); [DIA-P19](#);
[OAI-P11](#); [MAM-P36](#)
Pérez Antón, A.; [CSA-OC07](#)
Pérez Bernal, J.L.; [APF-P12](#)
Pérez Castaño, E.; [CSA-P59](#)
Pérez de Vargas Sansalvador, I.M.; [DIA-OC04](#)

- Pérez del Notario, N.; [API-P04](#)
Pérez, N.; [OAI-P01](#)
Pérez Fernández, F.; [MAM-P59](#)
Perez Fernandez, V.; [MAM-P58](#)
Pérez Gracia, M.T.; [OAI-P13](#)
Pérez Hernández, E.; [DIA-P13](#)
Pérez Martín, L.; [CSA-P28](#)
Pérez Olmos, R.; [CSA-P60](#)
Pérez Ortega, P.; [CSA-P61](#)
Pérez Pavón, J.L.; [CSA-OC07](#); [MAM-P40](#)
Pérez Solsona, S.; [MAM-OC10](#)
Pérez, B.; [OAI-P12](#)
Pérez, J.A.; [NAN-P04](#)
Peréz, S.; [MAM-P82](#); [APF-OC01](#)
Pérez-Conde, C.; [MAM-OC07](#); [DOC-P03](#)
Pérez-Feás, C.; [CSA-P13](#)
Pérez-Mañá, C.; [OAI-P18](#)
Pergantis, S.A.; [ESP-OC01](#)
Pezo, D.; [CSA-P21](#); [CSA-P62](#)
Pico, Y.; [MAM-P56](#)
Picó, Y.; [APF-P09](#); [CSA-P16](#); [CSA-P17](#); [MAM-P44](#); [MAM-P47](#)
Pilar Callao, M.; [CSA-P72](#)
Piletsky, S.; [AYM-P06](#)
Pingarrón, J.M.; [BIO-OC04](#)
Pinto Ganfornina, J.J.; [MAM-P60](#)
Pinto, J.J.; [DOC-P02](#)
Piñeiro Iglesias, M.; [DIA-P12](#)
Piqueras, J.; [NAN-OC01](#)
Pisonero, J.; [DIA-P14](#)
Pividori, M.I.; [BIO-OC01](#); [BIO-P06](#); [BIO-P07](#)
Pizarro, C.; [CSA-P63](#); [API-P04](#)
Pizarro, M.L.; [CSA-P15](#)
Planas Pastor, C.; [DIA-P15](#); [MAM-P61](#)
Plata, M.R.; [MAM-P68](#)
Plaza de la Fuente, A.; [OAI-P17](#)
Pocurull Aixalà, E.; [MAM-P07](#); [MAM-P76](#)
Polgar, L.; [CSA-P40](#)
Polo, M.; [MAM-P33](#)
Porcel-Valenzuela, M.; [DIA-P03](#)
Porte, C.; [MAM-OC08](#)
Pozo, O.; [OAI-P18](#)
Prada Rodríguez, D.; [CSA-P57](#); [DIA-P12](#); [MAM-P53](#)
Prado, C.; [OAI-P15](#)
Prat, M.D.; [CSA-P64](#)
Prieto Blanco, M.C.; [MAM-P62](#)
Procopio, J.R.; [MAM-P33](#); [ELC-P04](#)
Psillakis, E.; [MAM-OC12](#)
Puchades, R.; [BIO-OC03](#); [BIO-P03](#); [BIO-P08](#); [BIO-P10](#); [CSA-P11](#); [CSA-P75](#)
Puchalska, P.; [CSA-P65](#)
Puerta, A.; [PRT-P03](#); [DIA-P17](#)
Pueyo, C.; [ESP-OC03](#)
Puignou, L.; [CSA-P37](#)
Queirolo, F.; [ESP-P11](#)
Queralt, I.; [MAM-P42](#)
Quesada Molina, C.; [MAM-P63](#)
Quijano Nieto, M.A.; [ESP-P05](#); [MAM-P28](#)
Quintana, J.B.; [MAM-P79](#)
Quintanilla-López, J.E.; [CTQ-P05](#); [PRT-P04](#)
Quintela Bermejo, J.M.; [DIA-P16](#)
Rodil, R.; [MAM-P79](#)
Racamonde Varela, I.; [MAM-P64](#)
Radial, L.R.; [PRT-OC01](#)
Radovic, J.R.; [MAM-P08](#); [MAM-P65](#)
Raich, J.; [MAM-P67](#)
Ramil, M.; [CSA-OC02](#); [CSA-P71](#)
Ramírez Ambrosi, M.; [CSA-P66](#); [ACI-P10](#)
Ramiro, J.M.; [OAI-P06](#); [OAI-P21](#)
Ramis Ramos, G.; [API-P01](#); [NAN-P05](#); [MAM-P16](#)
Ramos Martos, N.; [CSA-P61](#); [CSA-P67](#)
Ramos Payán, M.; [APF-P10](#); [APF-P12](#); [CTQ-P03](#)
Ramos, L.; [OAI-P23](#)
Ramos, S.; [PRT-P05](#)
Rasines, B.; [CSA-P56](#)
Ravelo-Pérez, L.M.; [MAM-P10](#)
Regueiro Vilar, O.; [DIA-P17](#)
Reis-Henriques, M.A.; [MAM-P66](#)
Resano, M.; [DIA-OC05](#)
Revenga-Parra, M.; [ELC-P03](#); [BIO-OC02](#)
Rey Salgueiro, L.; [MAM-P66](#)
Reyes, C.; [DIA-OC02](#)
Ribas Font, C.; [DIA-P01](#); [MAM-P21](#); [MAM-P39](#); [MAM-P67](#)
Rigol, A.; [MAM-P50](#)
Ríos Castro, A.; [MAM-P68](#)
Ríos, J. de los; [APF-P07](#)
Rios-Kristjánsson, J.G.; [CSA-P64](#)
Ripoll-Seguer, L.; [MAM-P16](#)
Riu Aumatell, M.; [CSA-P68](#)
Rius, X.; [DIA-P18](#)
Rivas, L.; [ACI-P06](#)
Rivas, R.; [AYM-P09](#)
Rivera, J.; [PRT-P06](#); [MAM-P57](#)
Robles-Gil, M.C.; [ACI-P09](#)
Robles Molina, J.; [CSA-P69](#)
Rocamora, L.; [CSA-P48](#)
Rocha, S.N.; [CSA-P32](#)
Rodrigo, M.; [API-P03](#)
Rodrigo, M.A.; [CSA-P69](#)
Rodríguez Delgado, M.A.; [CSA-P41](#)
Rodríguez Espelta, Y.; [MAM-P69](#)
Rodríguez González, P.; [CSA-OC08](#); [ESP-P02](#)
Rodríguez Gonzalo, E.; [ACI-P05](#)
Rodríguez Navas Gonzalez, C.; [MAM-OC11](#)
Rodríguez Pereiro, I.; [CSA-P71](#)
Rodríguez Sanchez, S.; [OAI-P22](#); [OAI-P23](#); [CSA-P78](#)
Rodríguez, I.; [CSA-OC02](#); [CSA-P71](#)
Rodríguez, J.; [CSA-P70](#)
Rodríguez, J.A.; [MAM-P12](#); [ELC-P02](#)
Rodríguez-Cabo, T.; [CSA-P71](#)
Rodríguez-Cáceres, M.I.; [APF-OC02](#)
Rodríguez-Delgado, M.A.; [MAM-P10](#)
Rodríguez-Gonzalo, E.; [CSA-P53](#); [DIA-P05](#)
Rodríguez-Lafuente, A.; [MAM-P24](#)
Rodríguez-Tecedor, S.; [CSA-P63](#)
Roig-Navarro, A.F.; [ESP-P02](#)
Rojas, C.; [ELC-P01](#)
Roldos, E.; [APF-P11](#)
Román Falcó, I.P.; [MAM-OC12](#)

- Róman Pizarro, V.; NAN-P07
 Romarís Hortas, V.; CSA-P57
 Romero, A.; CSA-P26
 Rosa, F. de la; ELC-P02
 Rosas Portugal, J.G.; API-OC01
 Rosales Martínez, J.D.; DOC-P03
 Rosell-Melél, A.; MAM-P25
 Rosenkranz, P.; NAN-P01
 Rosero Moreano, M.; AYM-P12
 Rúa, M.S.; CSA-P33
 Rubí, E.; MAM-P79
 Rubio Bravo, S.; NAN-OC02; MAM-P19; CSA-P20
 Rubio, R.; ESP-P03; ESP-P10; ESP-P11; CSA-P58
 Rudolph, I.; MAM-OC02
 Ruisanchez Capelastegui, I.; CSA-P72; CTQ-OC02
 Ruiz Aceituno, L.; OAI-P23
 Ruiz de Galarreta, A.; MAM-P13
 Ruiz Encinar, J.; NAN-P08
 Ruiz Matute, A.I.; CSA-P73; OAI-P22
 Ruíz, E.; AYM-P08
 Ruiz-Azcona, P.; ESP-P07
 Ruppen, I.; PRT-P05
 Sáez, C.; CSA-P69
 Sagrado, S.; APF-P02
 Sahuquillo, A.; CSA-P44; CTQ-P09; ESP-P08; ESP-P09
 Sainz, R.M.; NAN-P09
 Sáiz, J.; CSA-P74; OAI-P16
 Saiz-Romero, C.; CSA-P55
 Salafranca, J.; CSA-P20
 Salas, D.I.; MAM-P69
 Salinas Castillo, A.; MAM-P70
 Sallés, J.; CSA-OC09
 Salvadó, V.; CSA-P25; ESP-P12; MAM-P31
 Salvador, A.; AYM-OC03; API-P02; API-P05
 Salvatore, E.; CTQ-P10
 Sampedro, M.C.; MAM-P30
 Sánchez Brunete, C.; MAM-P71
 Sánchez Rojas, F.; AYM-P01; AYM-P13
 Sánchez Trujillo, I.; MAM-P05; MAM-P72
 Sánchez, A.; NAN-P04; MAM-P81
 Sánchez, I.; CTQ-P08
 Sanchez, J.M.; MAM-P04; MAM-P34
 Sánchez, N.; MAM-P33
 Sánchez-Fernández, C.; CSA-P66; ACI-P10
 Sánchez-Rodas, D.; ESP-P07
 Sánchez-Viñas, M.; CSA-P59
 Sanchís Sandoval, J.A.; MAM-P73
 Sancho, J.V.; MAM-P47
 Sangüesa, S.; OAI-P05
 Santana-Rodríguez, J.J.; OAI-P09; MAM-P77
 Santiago Felipe, S.; CSA-P75
 Santiuste, J.M.; CTQ-P05
 Santos Anunciacao, D.; PRT-OC02
 Santos, F.J.; MAM-P22; MAM-P55; MAM-P57
 Santos, J.; CSA-P76; CTQ-P09
 Santos, J.C.; CSA-P15
 Santos, J.L.; MAM-P06
 Santos, O.; ACI-P06
 Santoyo-González, F.; BIO-P01
 Sanz Naval, J.; BIO-P09
 Sanz Nebot, V.; PRT-P09
 Sanz Vicente, I.; BIO-P05
 Sanz, J.; CSA-P78
 Sanz, M.L.; CSA-P78; PRT-P04
 Sanza, F.J.; BIO-P08
 Sanz-Medel, A.; OAI-P11; NAN-OC03; NAN-P06;
 NAN-P08; NAN-P09; ESP-OC01; DIA-P14; DIA-P19;
 MAM-P36
 Sanz-Nebot, V.; CSA-P12; DIA-P11
 Sarrión Ciges, N.; DIA-P19
 Sauló, J.; MAM-P57
 Saurina, J.; CSA-P37; CSA-P77
 Sayago, A.; CSA-P15
 Schoenmaker, B.; OAI-OC02
 Segura, J.; OAI-P18
 Senso, A.; APF-P05; AYM-P08
 Serra, O.; CSA-P25
 Serrano-Lourido, D.; CSA-P77
 Serrano, J.; DIA-P10
 Serrano, L.; APF-OC03; APF-P06
 Serrano, N.; ESP-P06; DIA-P21
 Sevilla, M.T.; CSA-P70; MAM-P33; ELC-P04
 Shönthaler, H.B.; PRT-P05
 Sicilia Criado, M.D.; MAM-P19
 Sidisky, L.M.; CSA-P45
 Siles Cordero, M.T.; OAI-P25; MAM-P72
 Silva Felix, J.; MAM-P74
 Silva, A.; CTQ-P06
 Silva, J.J.; CSA-P38
 Simó Alfonso, E.F.; API-P01; NAN-P05; MAM-P16
 Simó, C.; OAI-OC03
 Solà, A.; DIA-P20
 Soledad Larrechi, M.; CTQ-OC02
 Soria Monzón, A.C.; CSA-P78; CSA-P54; OAI-P22;
 OAI-P23
 Sosa Gómez, V.; DIA-P21
 Sosa-Ferrera, Z.; OAI-P09; MAM-P77
 Sotelo Gonzalez, E.; NAN-P09
 Soto Ferreiro, R.M.; MAM-P53
 Soto, M.; MAM-OC06
 Souza Castilho, M. de; BIO-P06
 Spricigo, D.; BIO-OC01
 Stege, S.; ESP-P11
 Stenerson, K.K.; CSA-P45
 Sthal, K.; APF-P06
 Tadeo, J.L.; MAM-P71
 Tamarit López, J.; BIO-P10
 Tarazona, I.; API-P02
 Tauler, R.; MAM-OC08; MAM-P01
 Teixidó-Closa, J.; CTQ-P02
 Tejedor-Estrada, R.; CTQ-P02
 Tena Vázquez de la Torre, M.T.; MAM-P46; MAM-P75
 Tesio, A.Y.; NAN-OC01
 Thomas, K.V.; MAM-P65
 Toccafondo, V.; BIO-P03; CSA-P11
 Todolí, J.L.; ESP-P12
 Tomàs, J.; APF-P07
 Toribio Delgado, A.F.; ACI-P09
 Toribio, L.; CSA-P07
 Toro Carrión, M. del; APF-P05

- Toro Moreno, A. del; [OAI-P09](#)
 Torre, M.; [OAI-P03](#); [OAI-P06](#); [OAI-P21](#)
 Torres, J.P.M.; [MAM-P20](#)
 Tortajada-Genaro, L.A.; [CSA-P75](#)
 Trapiella-Alfonso, L.; [NAN-P06](#); [NAN-P08](#)
 Trinidad-Lozano, M.J.; [CSA-P83](#)
 Tyrovola, K.; [MAM-OC12](#)
 Unceta, N.; [CSA-OC09](#); [MAM-P15](#)
 Uriel, C.; [DIA-P17](#)
 Urdiales, C.; [MAM-P45](#)
 Valcárcel, M.; [AYM-P04](#); [AYM-P10](#); [DIA-OC03](#);
[DIA-P02](#); [DIA-P04](#)
 Valdés, A.; [CSA-P39](#)
 Valdés, A.C.; [MAM-OC07](#)
 Valencia-Mirón, M.C.; [BIO-P01](#)
 Valero, A.; [MAM-P03](#)
 Valle, M. del; [BIO-P02](#)
 Vallecillos Marsal, L.; [MAM-P76](#)
 Valledor, R.; [DIA-P14](#)
 Vallejo, M.; [ACI-P06](#)
 Valls Cantenys, C.; [ESP-P12](#)
 van den Berg, F.; [APF-P04](#)
 Van Drooge, B.; [MAM-P01](#); [MAM-P26](#)
 Varela, F.; [OAI-P12](#)
 Varni, M.; [MAM-P13](#)
 Vazquez, P.; [CSA-P16](#)
 Vazquez-Roig, P.; [APF-P09](#); [CSA-P17](#)
 Vega Morales, T.; [MAM-P77](#)
 Vega, M.; [DOC-P01](#); [ELC-OC01](#); [ELC-P05](#); [CTQ-P08](#)
 Vega, P.; [DIA-P14](#)
 Velasco, A.; [ESP-P07](#)
 Ventura, F.; [MAM-P17](#)
 Ventura, R.; [OAI-P18](#)
 Vera Estacho, P.; [CSA-P79](#)
 Vera, L.; [CSA-P49](#)
 Vera, P.; [CSA-P22](#)
 Veracruz, C.; [MAM-P03](#)
 Verdú-Andrés, J.; [CSA-P46](#); [MAM-P52](#)
 Vereda Alonso, E.; [OAI-P24](#); [MAM-P05](#); [MAM-P72](#);
[MAM-P78](#)
 Vergel Rodríguez, C.; [ESP-P13](#); [MAM-P49](#)
 Vicent, T.; [MAM-P27](#)
 Vicente, F.; [CSA-P38](#); [CSA-P66](#); [ACI-P10](#)
 Vicente, S.; [API-P03](#)
 Vichi, S.; [CSA-P26](#); [CSA-P80](#)
 Víctor Ortega, M.D.; [CSA-P81](#)
 Vidal, M.; [MAM-P50](#)
 Vílchez, J.L.; [CSA-P84](#); [MAM-P11](#)
 Vilela Garcia, D.; [CSA-P82](#)
 Villalonga, R.; [BIO-OC04](#)
 Villamiel, M.; [CSA-P54](#)
 Villanueva Alonso, J.; [DIA-P12](#)
 Villar Navarro, M.; [APF-P10](#); [APF-P12](#)
 Villaverde de Sáa, E.; [MAM-P79](#)
 Vilorio-Bernal, M.; [CSA-P38](#)
 Viñas, P.; [AYM-P02](#); [AYM-P03](#); [AYM-P09](#)
 Vivanco, F.; [PRT-OC01](#)
 Vukovic, J.; [DIA-OC01](#); [MAM-P70](#)
 Ximenez-Embun, P.; [PRT-P05](#)
 Yamanaka, H.; [BIO-P06](#)
- Yáñez Arellano, K.P.; [MAM-P80](#)
 Yáñez Sedeño, P.; [BIO-OC04](#)
 Yopasá, A.; [OAI-P02](#)
 Yufra Picardo, V.M.; [CSA-P67](#)
 Yuste Córdoba, F.J.; [CSA-P83](#)
 Zafra Gómez, A.; [CSA-P84](#); [MAM-P11](#)
 Zamora Bonachela, P.; [NAN-P10](#)
 Zamora Zamora, D.; [APF-P13](#)
 Zan, M.M. de; [ACI-P08](#)
 Zapardiel, A.; [NAN-P04](#); [MAM-P81](#)
 Zapata Ochoa, J.A.; [CSA-OC10](#); [CSA-P85](#)
 Zapata, J.; [CSA-P36](#); [CSA-P47](#)
 Zonja, B.; [MAM-P82](#)
- ERRATAS DETECTADAS
- Kharim, K.; [AYM-P06](#)
 Martín-Álvarez, J.P.; [OAI-OC03](#)
 Mena, M.L.; [PRT-P07](#)
 Sanz, M.L.; [OAI-P22](#) ; [OAI-P23](#)
- López Mesas, L., [MAM-OC01](#)