

## POSTER SESSIONS (DRAFT)

12th Symposium on Sample Handling for Environmental and Biological Analysis

Ada Byron Building, C / María de Luna 1

| Ref.   | Poster session | Title  |
|--------|----------------|--|
| P - 1  | Wednesday      | A method for indicative polycyclic aromatic hydrocarbon determination in soils using headspace solid-microextraction with GC-FID   |
| P - 2  | Wednesday      | A new extraction method of chlorophenols in water samples combining SPME and micellar desorption prior to their HPLC-UV determination  |
| P - 3  | Wednesday      | Analysis of opioid peptides by on-line solid-phase extraction capillary electrophoresis electrospray mass spectrometry (SPE-CE-ESI-MS)   |
| P - 4  | Wednesday      | Analysis of persistent organic pollutants in sediments by pressurized liquid extraction (PLE) and gas chromatography-mass spectrometry (GC-MS)   |
| P - 5  | Wednesday      | Application of microwave-assisted extraction for the determination of azinphos-methyl in soils by GC-NPD   |
| P - 6  | Wednesday      | Ciprofloxacin imprinted polymer as HPLC stationary phase for the screening of fluoroquinolones in crude soil sample extracts   |
| P - 7  | Wednesday      | Derivatization and sample preparation study on the SPE extraction and GC-MS analysis of the non-steroidal, anti-inflammatory drugs, present in waste waters  |
| P - 8  | Wednesday      | Detection of microbial contamination of environment by using gas chromatography – mass spectrometry method   |
| P - 9  | Wednesday      | Determination of 1,3-dichloropropene in water samples using headspace solid-phase microextraction and GC-ECD   |
| P - 10 | Wednesday      | Determination of carbonyl compounds after on-line derivatization with DNPH in the SPME-HPLC interface  |
| P - 11 | Wednesday      | Determination of chlorophenols in wood samples by focused microwave-assisted micellar extraction combined with micellar solid-phase microextraction and gas-chromatography   |
| P - 12 | Wednesday      | Determination of quinolones in pig muscle by liquid chromatography with fluorescence detection   |
| P - 13 | Wednesday      | Determination of sorbitol in yeast cultivation medium by means of sequential injection analysis  |
| P - 14 | Wednesday      | Determination of trihalomethanes in tap water by HS – SPME – GC – MS   |
| P - 15 | Wednesday      | Development of a new molecularly imprinted polymer solid-phase extraction (MISPE) method for diethylstilbestrol  |
| P - 16 | Wednesday      | Extraction of quinolones from soils  |
| P - 17 | Wednesday      | Improvements on enzymatic hydrolysis of human hair for illicit drugs determination   |
| P - 18 | Wednesday      | Microwave-assisted solvent extraction of carbamate and phenylurea pesticides from soils for analysis by LC-PAD   |
| P - 19 | Wednesday      | Multivariate optimization of headspace ionic liquid single drop microextraction of chlorobenzenes from water samples   |
| P - 20 | Wednesday      | New Method of Nitrate Extraction for $\delta^{15}\text{N}$ and $\delta^{18}\text{O}$ isotopes measurements   |
| P - 21 | Wednesday      | Optimisation of PDMA derivatisation/HS/SPME for volatile fatty acids and simultaneous analysis of odorous organic compounds in animal wastes   |
| P - 22 | Wednesday      | Optimization method based on microwave micelar extraction for the analysis of pharmaceuticals in environmental samples   |
| P - 23 | Wednesday      | Porous graphitic carbon for the SPE-LC/MS analysis of polar micro pollutants in environmental waters   |
| P - 24 | Wednesday      | Pressurized liquid extraction for a novel mussel cytosolic preparation in metal binding metallothionein-like proteins determination  |
| P - 25 | Wednesday      | Robust method for the solid phase extraction of drugs of abuse from biological matrices  |
| P - 26 | Wednesday      | Solid phase microextraction coupled to HPLC-fluorescence for the determination of heterocyclic amines in environmental samples   |
| P - 27 | Wednesday      | Solid-phase extraction (SPE) procedure previous to capillary electrophoresis determination of low-molecular-weight organic acids in atmospheric particulate matter   |
| P - 28 | Wednesday      | SPE and SPME as alternative methods for the sample pre-treatment of Neurotoxic Cyanobacteria prior to HPLC/FLD analysis  |
| P - 29 | Wednesday      | SPME-GC-MS analysis of off-flavours generated from the oxidation of hazelnuts and amaranth   |
| P - 30 | Wednesday      | Technological developments for handling bio-molecules in a continuous flow electrochemical micro-cell  |
| P - 31 | Wednesday      | Trace element leaching from biological material by using pressurized liquid extraction   |
| P - 32 | Wednesday      | Validation of a SPME-GC-MS method for the analysis of MTBE, epichlorhydrine, vinyl chloride and 20 other volatile organic compounds in drinking water to comply with the 98/83/CE Directive and the ISO/IEC 17025:2005 |



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| P - 33 | Thursday       | An FIA (flow injection analysis) system with photodiode for glucose in fresh and processed tomatoes   |
| P - 34 | Thursday       | A new functionalized mesoporous material for the preconcentration of Zn(II) in aqueous and non aqueous media  |
| P - 35 | Thursday       | A new methodology for the evaluation of mercury mobility and geochemistry in solid samples. Part I: Development and optimization  |
| P - 36 | Thursday       | A new methodology for the evaluation of mercury mobility and geochemistry in solid samples. Part II: Validation of the proposed method  |
| P - 37 | Thursday       | A bio-sniffer (biochemical gas-sensor) for monitoring lactate in the gas phase  |
| P - 38 | Thursday       | Analysis of inorganic arsenic in samples of seaweed, rice and infant foods by hydride generation-cold trap-atomic absorption spectrometry   |
| P - 39 | Thursday       | Applications of Fourier transform infrared spectrometry (FTIR) and scanning electron microscopy-energy dispersive X-ray (SEM-EDX) in the analysis of composition of a polymeric system with oxygen absorbers and a multi-layer polymeric material with barrier-active properties for food packaging |
| P - 40 | Thursday       | Arsenic species in chicken tissue (Brest): Fast extraction procedure and analysis by HPLC-HG-AFS  |
| P - 41 | Thursday       | Characterization of metals bounded to anthocyanins spanish red wines by RP-HPLC-ICP-MS  |
| P - 42 | Thursday       | Clean, multi-sample and easy digestion procedures for biological and environmental analysis of trace elements: Examples on whole blood, biopsies and lichens  |
| P - 43 | Thursday       | Contamination and behavior of butyl- and phenyl tin compounds in the subtropical estuarine ecosystems in Okinawa Island, Japan  |
| P - 44 | Thursday       | Determination of hydride elements forming in aqueous and acidified slurries of atmospheric particulate matter reference material by HG-ETAAS  |
| P - 45 | Thursday       | Determination of mercury by atomic fluorescence spectrometry using a multisyringe-multipumping flow injection analysis  |
| P - 46 | Thursday       | Determination of primary aromatic amines (PAA) by gas chromatography-mass spectrometry (GC/MS)  |
| P - 47 | Thursday       | Determination of synthetic Fe(III)-chelates in agricultural matrices  |
| P - 48 | Thursday       | Development and validation of a HPLC-DAD method for the determination of 1,4-dimethylnaphthalene residues in potato samples   |
| P - 49 | Thursday       | Effective sorbents for solid phase extraction for the analysis of antibiotics in meat products by SPE-CE and SPE-LC-MS  |
| P - 50 | Thursday       | Extraction of arsenic compounds from plant samples grown in a contaminated mining area  |
| P - 51 | Thursday       | Food metallomics  |
| P - 52 | Thursday       | Heavy metals adsorption on HMS mesoporous silica functionalized with 5-mercapto-1-methyl-1-H-tetrazol   |
| P - 53 | Thursday       | HPLC-UV determination of migration kinetics of triclosan from polyamide and a polyamide film with nanoparticles   |
| P - 54 | Thursday       | New miniaturised matrix solid-phase dispersion method for the determination of pesticides in fruit  |
| P - 55 | Thursday       | Permeability of plastic films to methyl-bromide used as pesticide. Environmental concerns   |
| P - 56 | Thursday       | Persistence and biological significance of the vinyl phosphate insecticide <sup>14</sup> C-dichlorvos in stored faba beans  |
| P - 57 | Thursday       | Polycyclic aromatic hydrocarbons generation during processing of canned fishery products  |
| P - 58 | Thursday       | Pressurized liquid extraction and microwave assisted extraction in the analysis of organochlorine pesticides in muscle samples of <i>Trisopterus luscus</i>   |
| P - 59 | Thursday       | Screening of pesticide residues in tomato samples using microwave-assisted extraction coupled to liquid chromatography with diode array detection   |
| P - 60 | Thursday       | Selenium speciation in soils: Comparative study on extraction methods   |
| P - 61 | Thursday       | Simultaneous pressurized liquid extraction and purification for the determination of polycyclic aromatic hydrocarbons in mollusk samples  |
| P - 62 | Thursday       | Study of antimicrobial activity of oregano and cinnamon against E.coli. Application in active packaging   |
| P - 63 | Thursday       | Use of multidimensional techniques for the metallomics characterization of biomolecules in pine nuts  |
| P - 64 | Thursday       | Validation of acrylamide determination in manufactured fishery products by HPLC-MS  |
| P - 65 | Friday         | Analysis of polybrominated diphenyl ethers in environmental samples   |
| P - 66 | Friday         | Analysis of polycyclic aromatic hydrocarbons (PAHs) in environmental samples by liquid chromatography – atmospheric pressure photoionization (APPI) mass spectrometry   |
| P - 67 | Friday         | Applicability of solid-phase microextraction to the determination of polybrominated diphenyl ethers in sediments  |
| P - 68 | Friday         | Application of microwave assisted extraction-gas chromatography-mass spectrometry (MAE-GC-MS/MS) method to the determination of polybrominated biphenyls (PBBs) and polybrominated diphenyl ethers (PBDEs) in aquaculture samples   |



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| P - 69 | Friday         | Assesment of extraction techniques for the analysis of sulfonamides in soils   |
| P - 70 | Friday         | Biological monitoring of exposure to polycyclic aromatic hydrocarbons: Handling of urinary hydroxy-derivatives   |
| P - 71 | Friday         | Chromatographic determination of polycyclic aromatic nitrogen heterocycles in soil samples   |
| P - 72 | Friday         | Determination and characterisation of non-volatile residuals in recycled polyethylene terephthalate (PET) using ultra performance liquid chromatography-mass spectrometry (UPLC-MS)                      |
| P - 73 | Friday         | Determination and quantification of Aflatoxin M1 in raw bovine milk by liquid chromatography: Validation of an analytical method   |
| P - 74 | Friday         | Determination of alkyl sulfates in water samples by gas chromatographic-mass spectrometry  |
| P - 75 | Friday         | Determination of colloid-bounded elements in Russian Arctic using membrane sampling and size fractionation   |
| P - 76 | Friday         | Determination of linear alkylbenzene sulphonate in agricultural soils  |
| P - 77 | Friday         | Determination of nonylphenol and nonylphenol ethoxylates in environmental solid samples by ultrasonic-assisted extraction and HPLC-FL  |
| P - 78 | Friday         | Determination of pollutants in groundwater from Jerez de la Frontera and alluvial Guadalete Aquifers (Spain)   |
| P - 79 | Friday         | Determination of VFA in start-up and operation of a pilot-scale UASB reactor treating municipal wastewater by gas chromatography-FID   |
| P - 80 | Friday         | Development of an LC-ESI-MS/MS method for the analysis of nine basic pharmaceuticals in aqueous environmental samples  |
| P - 81 | Friday         | Formation of halogenated derivatives of parabens in water samples  |
| P - 82 | Friday         | Liquid chromatographic analysis of sulfophenyl carboxylic acids in water samples. Biodegradation study of the linear alkylbenzene sulfonate in agricultural soils  |
| P - 83 | Friday         | Mancozeb's analysis in degradation assays of pesticides in soils   |
| P - 84 | Friday         | Microwave assisted extraction of organophosphate flame retardants and plasticizers from indoor dust  |
| P - 85 | Friday         | Monitoring of PAHs and trace metals along the Bilbao estuary   |
| P - 86 | Friday         | Monitoring of PAHs in sediments and oyster in the estuary of Urdaibai (Gulf of Biscay). The <i>Prestige</i> impact   |
| P - 87 | Friday         | New approach to time-integrated diffusive sampling of environmental contaminants based on SPME   |
| P - 88 | Friday         | New trends for humic substances extraction from marine sediments by microwave assisted methods   |
| P - 89 | Friday         | Occurrence of pharmaceuticals in sewage treatment plants   |
| P - 90 | Friday         | Optimization of microwave-assisted saponification extraction (MASE) procedure for the determination of polybrominated biphenyls (PBBs) and polibrominated diphenyl ethers (PBDEs) in aquaculture samples |
| P - 91 | Friday         | PAHs, PCBs, methylmercury and organotins in sediments from the Nerbioi-Ibaizabal estuary (Gulf of Biscay). One-year monitoring program   |
| P - 92 | Friday         | Photochemical oxidation of alachlor and atrazine in water by photocatalysis with TiO <sub>2</sub>  |
| P - 93 | Friday         | Rapid-resolution chromatography " <i>Made Easy</i> " with a model 1100 HPLC for the analysis of pesticides in vegetables   |
| P - 94 | Friday         | Study of air pollution in the Pyrenees using lichens as pollution biomonitors  |
| P - 95 | Friday         | Temporal analysis of atrazine and simazine in surface water and soil samples from sugarcane agriculture region-Brazil by GC-ECD  |
| P - 96 | Friday         | Testing organic solvents to improve the linear alkylbenzene sulfonates and sulfophenylcarboxylic acids extraction from biota   |
| P - 97 | Friday         | Validation of a simultaneous method of separation and quantitation of vitamins B1 and B6 in a tablet by HPLC-UV in the drug NEUROVIT®  |

