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# XIII International Workshop on Sensors and Molecular Recognition

4<sup>th</sup>-5<sup>th</sup> July 2019

## SCIENTIFIC PROGRAM

Thursday, July 4<sup>th</sup> 2019

### MORNING SESSION

8:30 – 9:00 h Registration

9:00 – 9.15 h Opening Ceremony

9:15-10:15 h Plenary Conference 1

*Chairman: Ramón Martínez Máñez*

A chemical sensing world through sensing wisdom:

From molecular to Nano systems

**Carlos Lodeiro**

10:15 – 11:00 h Oral Communications Session 1: Biomedicine

*Chairwoman: Andrea Bernardos*

Co-delivery of navitoclax and the MLC-1 inhibitor S63845 by mesoporous silica nanoparticles for triple negative breast cancer treatment

*Gema Vivo Llorca*

Microinmunoensayos para la determinación multiplex de IgE específica de antibióticos  $\beta$ -lactámicos en suero humano

*M<sup>a</sup> José Juárez*

Selective targeting of endothelial senescent cells with mesoporous silica nanoparticles

*Alejandra Estepa-Fernández*

11:00 – 12:00 h Coffee break and Poster Session 1: Agrifood (P01-P14) and Miscellaneous (P38-P58)

Presentation of Master's Degree in Sensors for Industrial Applications (MUSAI)

12:00 – 13:00 h Oral Communications Session 2: Sensing and Biosensing I

*Chairwoman: María José Bañuls*

Direct observation of anion- $\pi$  interactions in water

*Rafael Ballesteros-Garrido*

Orthogonal solution-processable electron transport layers based on phenylpyridine side-chain polystyrenes

*Alejandro Llorente*

Hidrogel de fosforilcolina para la inmovilización de biomoléculas

*Zeneida Díaz Betancor*

Electronic tongue multivariate data analysis for early bladder cancer detection

*Javier Monreal-Trigo*

13:00-14:00 h Plenary Conference 2

*Chairman: Ramón Martínez Máñez*

Locomotive nanovesicles with chemotactic behaviour for biomedical applications

**Daniela Wilson**

14:00-15:00 h Lunch

AFTERNOON SESSION

15:00-16:00 h Poster Session 2: Sensing and Biosensing I (P59-P95)

16:00-17:20 h Aplicaciones biotecnológicas en agroalimentación

*Chairwoman: Ana M. Costero*

16:00- 16:20 h Presentación de la ERI en Biotecnología y Biomedicina (BIOTECMED)

*Joan Ferré*

16:20 – 16:40 h Línea 1: Microbiología y Biotecnología Enólicas

*Sergi Ferrer, Isabel Pardo*

16:40 – 17:00 h Línea 2: Patógenos en Acuicultura

*Carmen Amaro, Belén Fouz*

17:00 – 17:20 h Línea 3: Control Biotecnológico de Plagas

*Joan Ferré*

## Friday, July 5<sup>th</sup> 2019

MORNING SESSION

9:00-10:00 h Plenary Conference 3

*Chairman: Ángel Maquieira*

Progress in the coupling of AF4 to molecular and elemental spectrometric detectors for characterization of nanoparticle–biomolecule conjugate mixtures: application to highly sensitive determination of disease biomarkers

**José Manuel Costa Fernández**

10:00 – 10:45 h Oral Communications Session 3: Sensing and Biosensing II

*Chairwoman: M<sup>a</sup> Victoria González Pedro*

Highly fluorescent magnetic nanobeads with a remarkable Stokes shift as labels for enhanced detection in immunoassays

*Ana B. Descalzo*

Fast and Modular synthesis of 800 nm-sensitized upconversion nanoparticles

*Juan Ferrera-González*

New Nile blue -loaded mesoporous silica nanoparticles for *in vivo* and real time senescent cells detection

*Juan F. Blández*

10:45 – 11:45 h Coffee break and Poster Session 3: Biomedicine (P15-P30), Electronical Devices (P31-P37) and Sensing and Biosensing II (P96-P105)

Exhibition of COBIOPHAD prototype device

11:45 – 12:30 h Oral Communications Session 4: Agrifood and Miscellaneous

*Chairman: Miguel Alcañiz*

Graphene quantum dot-aerogels: 3D systems for sensitive polyaromatic compounds in water

*Ana Martín-Pacheco*

Potential of modified magnetic nanoparticles with CTAB for preconcentration of acidic compounds by dispersive solid phase extraction

*Mireia Pérez-Baez*

Imidazolium-based bifunctional periodic mesoporous organosilicas with different bridged organic groups for microextraction by packed sorbent of environmental contaminants

*Kobra Zavar Mousavi*

12:30-13:30 h Plenary Conference 4

*Chairman: Pablo Gaviña*

Some advances in the design of porous hybrid nanomaterials

**Belén Albela**

13:30-13:45 h Closing Ceremony and Prize Awards