

1st WORKSHOP GMOsensor – Universidad de Oviedo | March 10-11, 2014

PROGRAMME

All sessions will be held in the “Sala de Grados” Room in Severo Ochoa Building.
Campus de El Cristo de la Universidad de Oviedo.

MONDAY, MARCH 10

Session I- Group presentation

- 10:00-10:30 Opening and Presentation of the Project
Cristina Delerue-Matos, (ISEP, Porto)
- 10:30-11:00 P3 Group presentation
María Jesús Lobo-Castañón, (UniOvi, Oviedo)
- 11:00-11:30 P8 Group presentation
Rosana Fonseca (UPE, Recife)
- 11:30-12:00 COFFEE BREAK
- 12:00-12:30 P1 Group presentation
Cristina Delerue-Matos, (ISEP, Porto)
- 12:30-13:00 P5 Group presentation
Benoit Limoges (CNRS, Paris)
- 13:00-13:30 P2. Genetically modified organisms in foods: general aspects and current methods of detection
Isabel Mafra (ICETA, Porto)
- 13:30-14:00 Open discussion
- 14:00-16:00 Lunch

Session II- Target (DNA) amplification for genosensing

- 16:00-17:00 Web conference with UFP(P6), USP (P7) and CENPAT (P9)
P6 group presentation
Joilson Jesus (UFP, Piaui)
- 17:00-17:30 P4-P2 From oligos to real samples: challenges to obtain a high-quality and quantity DNA for genosensing
Begoña Martín Fernández (UCM, Madrid)
- 17:30-18:00 P3 Electrochemical genomagnetic assay for quantification of nucleic acid targets using asymmetric helicase-dependent isothermal amplification
Susana Barreda García (UniOvi, Oviedo)
- 18:00-18:30 P5 Real time electrochemical monitoring of in-vitro DNA amplification
Damien Marchal (CNRS, Paris)
- 18:30-19:00 Open discussion

TUESDAY, MARCH 11

Session III- Genosensors / genoassays with enzymatic amplification

- 10:00-10:30 P8 Strategies for the synthesis of gold nanoparticles for application in immunosensors
Rosana Fonseca (UPE, Recife)
- 10:30-11:00 P1-P3 Synthesis and functionalization of Fe@Au core-shell nanoparticles for the electrochemical detection of maize
Fátima Barroso, (ISEP, Porto)
- 11:00-11:30 P4-P2 Electrochemical genoassays for the event-specific detection of roundup ready soybean
Lorena Manzanares Palenzuela (UCM, Madrid)
- 11:30-12:00 COFFEE BREAK

Session IV- Novel signal amplification strategies

- 12:00-12:30 P5- Toward the development of ultra-highly sensitive electrochemical enzyme-amplified bioaffinity
Benoit Limoges (CNRS, Paris)
- 12:30-13:00 P10- Strategies for the use of organized systems in developing immunosensors for GMO detection
Patricia Molina (UNRC, Río Cuarto)
- 13:00-13:30 P4- Development of a new genosensor for peanut allergen ara h 2 detection and its optimization
Beatriz López-Ruiz & Gloria Frutos Cabanillas (UCM, Madrid)
- 13:30-14:00 Open discussion
- 14:00-16:00 Lunch

Session V- Perspectives and future work

- 16:00-18:00 Web conference with UFP(P6), USP (P7) and CENPAT (P9)
Open discussion on the working plans for the next months
Presentation of the next workshop “*Proteomics and nanobiosensors: A new concept for GMO assessment*” to be held at Piauí in December.