

Convocatoria de ayudas para la realización de proyectos coordinados en el marco de IBEROS. Anualidad 2017

Proyecto concedido

DATOS GENERALES:

Título proyecto: Raman SERS for detecting cancer biomarkers
Entidades participantes (mínimo 2 entidades): Instituto Superior de Engenharia do Porto Universidade de Vigo
Grupos de investigación: BioMark – Sensor Research TeamNanoTech
Investigadores principales: Felismina Moreira; Goreti Sales Miguel Correa
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OBJETIVOS DEL PROYECTO (máximo 100 palabras):

To detect cancer biomarkers using sensing platforms based on molecularly imprinted polymers.

PLAN DE TRABAJO:

A gold surface is modified with the molecularly imprinted polymer produced by electropolymerization. The recognition probe is composed by gold nanostars functionalized with antibodies for cancer biomarkers.

The samples are analysed in two phases:

- a) Incubation with the sample
- b) Incubation with the probe

And subsequent analytical measurement by SERS.