conferenceseries.com

7th International Conference on

Proteomics & Bioinformatics

October 24-26, 2016   Rome, Italy

Sensitive, selective and accurate response of plasmonic bead platforms in high-throughput biomarker screening

Nekane Guarrotxena
Spanish National Research Council, Spain

A prompt, sensitive and accurate response of analytical techniques to resolve health issues such as low limit identification in special biological environment (that is, complex mixtures of proteins) remains being a key aspect in modern proteomic. Recently, this quest for improved and highly sensitive detection methodologies has led to the development of alternative approaches as optically encoded nanosystems which include local enhancements of Raman scattering signals of molecules in close proximity to metallic nanostructures. Their outstanding performance envisages them as robust and versatile support to developing analytical strategies for high-throughput biomarker screening in complex matrices. This presentation will show the specificity, sensitivity and selectivity of the method.

Biography

Nekane Guarrotxena has obtained her PhD from the University of Complutense, Spain and Post-doctorate at the Ecole Nationale Superieure d´Arts et Metiers (ENSAM), France and the University of Science II, France. She was Visiting Professor in the Department of Chemistry, Biochemistry and Materials at the University of California, Santa Barbara, USA and the CaSTL at the University of California, USA. She is currently a Research Scientist at the Institute of Polymer Science and Technology (ICTP), CSIC, Spain. Her research interest focuses on the synthesis and assembly of hybrid nanomaterials, nanoplasmonics and their uses in nanobiotechnology applications (bioimaging, biosensing, drug delivery and therapy).

nekane@ictp.csic.es

Notes:

J Proteomics Bioinform 2016
ISSN: 0974-276X JPB, an open access journal

Proteomics & Bioinformatics 2016
October 24-26, 2016

Volume 9, Issue 11(Suppl)

Page 39