



## III Hands-on Course in Sample Preparation Using Nanoparticles for Proteomics

20th - 22th  
July 2015

Sponsored by the European Proteomics Organization

### Module I - Theory

Synthesis and characterization of nanoparticles

Nanoparticle-based sample fractionation

Electrophoresis

Protein identification by Mass Spectrometry

Nanoprofiling

### Module II - Hand-on

Experimental design

Sample collection storage and preservation

Sample clean-up

Protein quantification

*Nanoparticle synthesis characterization and applications:*

Protein fractionation using gold-nanoparticles (serum samples)

Characterization of GNPs-protein complexes (UV-Vis, SDS-PAGE)

In-gel and In-solution protein digestion (GNPs-protein complexes)

Protein identification using MALDI-TOF/TOF MS

Data analysis

**Registration fee:** 350€

Groups with 2/3 persons have a **20%** discount.

Groups with 4 or more persons have a **40%** discount.

**Location:** Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, 2829-516 Caparica

**To register please contact:**

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