



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

25<sup>th</sup> – 27<sup>th</sup>  
February 2019

### Module I - Theory

Synthesis and characterization of nanoparticles  
Nanoparticle-based sample fractionation  
Electrophoresis  
Protein identification by Mass Spectrometry  
Nano-profiling

### Module II - Hand-on

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 and nLC-MS/MS  
Data analysis

★ Registration fees include course manual, lab-coat, and coffee breaks.

Ψ Coming from the same research group/ company.

Maximum 15 persons. Course registration will be done by requesting order.

**Registration fees:** 460€ ★

Groups with 2 persons have a 10% discount Ψ

Groups with 4 or more persons have a 20% discount Ψ

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

**To register please contact:**

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<https://youtu.be/tw1ndUXNobl>



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