

II Hands-on Course in Nanoparticles Studies: from fluorescence and biochemical tools to MALDI-MS techniques applied to coated metal nanoparticles

Module I - Theory

An Introduction of the photophysical principles applied to chemosensors Photophysical characterization: absorption, emission and excitation spectra, fluorescence quantum yield. Solid state studies Design and applications of Fluorescent and Colorimetric chemosensors. Application of MALDI-TOF-MS techniques in Supramolecular chemistry

Synthesis of Metallic Nanoparticles. Methods and Characterization

Module II - Hand-on

Photophysical characterization of a higly luminescence compound An approach to a Colorimetric System: Spectrophotometric titration with anions using a macrocycle molecular device (F-, OH-, Cl- and Br-)

Spectrophotometric and Spectrofluorimetric titration of an intrinsic chemosensor with the transition metal ions Zn2+, Cu2+ and Hg2+

Effects on the temperature with luminescence molecular materials in the solid state

Application of the NANOdrop technology in Bio-inspired systems

Spectrometric titration with alkaline and alkaline-earth metals by MALDI-TOF-MS tecnique using a crown ether molecular device

Spectrophotometric Study of gold and silver nanoparticles used as chemosensors for charged molecules

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15th - 17th January 2014

Registration fees: 350€

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

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