Fluorescent Nanoparticles for probing biological systems

The work involves the synthesis of compatible water soluble functionalised nanoparticles for the visual (fluorescence) of their behaviour in biological systems such as plant cells or parasites. Typical biocompatible groups will be proteins, sugars, and antibodies. The student(s) will be expected to synthesise functionalised ligands based upon lipoic acid and attach the respective biocompatible groups which will have affinity for a particular part of the target biological system. The particles will be observed using fluorescence microscopy within the system.

Local: ITQB/UNL
Orientation: Chris Maycock.
Criteria: Good student interested in interdisciplinary studies.
Contact: maycock@itqb.unl.pt