

# Soft.Matter@PT 2015

## Elisabete M. S. Castanheira

Institution: Centre of Physics – Minho University  
E-mail: [ecoutinho@fisica.uminho.pt](mailto:ecoutinho@fisica.uminho.pt)  
ResearcherID: A-4407-2013  
OrcID: <http://orcid.org/0000-0002-5829-6081>  
ResearchGate: [www.researchgate.net/profile/Elisabete\\_Castanheira2](http://www.researchgate.net/profile/Elisabete_Castanheira2)

**Expertise:** Magnetoliposomes, nanoliposomes and new biocompatible peptide hydrogels as antitumor drug nanocarriers

	Colloids	Liquid Crystals	Polymers and Gels	Interfaces, surfactants	Foams, emulsions	Granular materials	Biological	Other (specify)
Experimental	✓		✓	✓				
Computacional								
Theoretical								

### Description of expertise:

- Experimental: preparation of liposomes and magnetoliposomes (liposomes entrapping magnetic nanoparticles)
- Photophysical behavior of fluorescent antitumor drugs and drug-loaded systems (liposome-based systems and hydrogels)
- Experimental techniques: Fluorescence, FRET, Langmuir-Blodgett films, liposome preparation techniques.

### Selected Publications (max 5):

- *Magnetoliposomes based on nickel/silica core/shell nanoparticles: synthesis and characterization*, [\*Materials Chemistry and Physics\*, \*\*148\*\*, 978 \(2014\)](#).
- *A New Antitumoral Heteroarylaminothieno[3,2-b]pyridine Derivative: Incorporation in Liposomes and Interaction with Proteins Monitored by Fluorescence*, [\*Photochemical & Photobiological Sciences\*, \*\*13\*\*, 1730 \(2014\)](#).
- *Fluorescence studies on potential antitumor 6-(hetero)arylthieno[3,2-b]pyridine derivatives in solution and in nanoliposomes*, [\*Journal of Photochemistry and Photobiology A: Chemistry\* \*\*264\*\*, 56 \(2013\)](#).
- *Nanoliposomes for encapsulation and delivery of the potential antitumoral methyl 6-methoxy-3-(4-methoxyphenyl)-1H-indole-2-carboxylate*, [\*Nanoscale Research Letters\*, \*\*6\*\*, 482 \(2011\)](#).