

Soft.Matter@PT 2015

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Expertise: Supported lipid bilayers on different substrates – mica, silicon and gold; Lipid-based biosensing interfaces.

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

Description of expertise:

- Development and characterization (by atomic force microscopy, ellipsometry, quartz crystal microbalance, surface plasmon resonance, electrochemistry) of new interfaces based on supported lipid bilayers and their application for the study of biologically relevant molecules or as biosensing platforms.

Selected Publications:

- Marquês, J.T., Viana, A.S., de Almeida, R.F.M. (2014) A Biomimetic Platform to Study the Interactions of Bioelectroactive Molecules with Lipid Nanodomains. *Langmuir* (in press). DOI: 10.1021/la503086a.
- Marquês, J.T., de Almeida, R.F.M., Viana, A.S. (2014) Lipid bilayers supported on bare and modified gold - formation, characterization and relevance of lipid rafts. *Electrochim. Acta* 126, 139-150. DOI: 10.1016/j.electacta.2013.07.117.
- Marquês, J.T., de Almeida, R.F.M., Viana, A.S. (2012) Biomimetic membrane rafts stably supported on unmodified gold. *Soft Matter* 8:2007-2016. DOI: 10.1039/C2SM06738B

- Marquês, J.T., Viana, A.S., and de Almeida, R.F.M. Ethanol effects on binary and ternary supported lipid bilayers with gel/fluid domains and lipid rafts. *Biochim. Biophys. Acta - Biomembr.* 1808: 405-414. doi:10.1016/j.bbamem.2010.10.006.