

# Soft.Matter@PT 2015

## Joaquim Miguel Oliveira

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**Expertise:** Interfaces and wetting of simple fluids and liquid crystals

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

### Description of expertise:

- Experimental and Theoretical.
- Tissue Engineering and Regenerative Medicine.
- Hydrogels and Scaffolds.
- Characterization.
- Biomaterials.
- Nanomedicine.
- Stem cells.

### Selected Publications (max 5):

● Figueiras E., Soto A. M., Jesus D., Lehti M., Koivisto J., Parraga J. E., Silva-Correia J., Oliveira J. M., Reis R. L., Kellomäki M., and Hyttinen J., "Optical Projection Tomography as a tool for 3D image tissue engineered products based in hydrogels", *Biomedical Optics Express*, vol. 5, issue 10, pp. 3443–3449, doi:10.1364/BOE.5.003443, 2014.

● Silva-Correia J., Zavan B., Vindigni V., Silva T. H., Oliveira J. M., Abatangelo G., and Reis R. L., "Biocompatibility Evaluation of Ionic- and Photo-Crosslinked Methacrylated Gellan Gum

Hydrogels: In Vitro and In Vivo Study", *Advanced Healthcare Materials*, vol. 2, issue 4, pp. 568-575, 2013.

- Pereira D. R., Silva-Correia J., Caridade S. G., Oliveira J. T., Sousa R. A., Salgado A. J., Oliveira J. M., Mano J. F., Sousa N., and Reis R. L., "Development of Gellan-Gum based Microparticles/Hydrogel Matrices for Application in the Intervertebral Disc Regeneration", *Tissue Engineering Part C: Methods*, vol. 17, issue 10, pp. 961-972, 2011.

- Mano J. F., Silva G. A., Azevedo H. S., Malafaya P. B., Sousa R. A., Silva S. S., Boesel L. F., Oliveira J. M., Santos T. C., Marques A. P., Neves N. M., and Reis R. L., "Natural origin biodegradable systems in tissue engineering and regenerative medicine: present status and some moving trends", *Journal of the Royal Society Interface*, vol. 4, issue 17, pp. 999-1030, 2008.

- Salgado A. J., Oliveira J. M., Matins A., Teixeira F. G., Silva N. A., Neves N. M., Reis R. L., and Sousa N., "Tissue Engineering and Regenerative Medicine: Past, Present, and Future", *Int Rev Neurobiol.*, vol. 108, pp. 11-33, 2013.