



Group name to be confirmed

Group leader: Manuel Salmeron-Sanchez

Protein-based hydrogels to engineer tissue models

This is a multidisciplinary project that will make use of novel hydrogels that combine proteins with synthetic materials to be used in state-of-the-art 3D printers to engineer in vitro tissue models. This technology has the potential to be applied to understand a range of pathological and physiological conditions at the cellular and tissue level. The remit of the PhD spans from cancer research to regenerative medicine going through stem cell differentiation and cell/material interactions. We intend to engineer systems in vitro that recapitulate the architecture and cellular organisation of targeted tissues. The final project will be decided in dependence of the interest of the applicant and then there is some flexibility in this sense to pursue your own research interests. The host group is very interdisciplinary and it links with a range of national and international collaborators that will contribute significantly to the training and development of the PhD candidate.

