

## SEMINAR

Thursday, 21<sup>th</sup> June, 12.00 pm, Seminar Room

*Host: Prof. Jesús Ruiz-Cabello*

### **Optoacoustic imaging: clinical and preclinical application in oncology**

*Dr. Isabel Quirós-González  
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Optoacoustic imaging is a new in vivo imaging methodology based on the transformation of light into ultrasound. This property allows the depth capacity of optical-only imaging modalities to be improved without losing spatial resolution. After presenting the general aspects of this imaging modality and its main applications (including the possibilities for nanotechnologists), I will focus on the use of one of the endogenous molecules that generate optoacoustic signal, haemoglobin, which allows the study of the vasculature and oxygenation, in this case, applied to the neovascularization in cancer