

// WORKSHOP

Surface characterization of Biomaterials

The progress of therapies to treat damaged and diseased bone is a very fast developing field where continuous advances will lead to a strong demand for new solutions and the qualified professionals able to develop and implement them. Due to their unique properties, the use of ceramics for bone replacement and engineering is expanding fast. Ceramics are currently making inroads in high volume applications such as dental or orthopaedic implants. However, much work is still needed to reach their full potential. This work will demand new scientists and engineers with multidisciplinary backgrounds incorporating fields as diverse as material science and engineering, orthopaedics, tissue engineering, biology, chemistry and biomedical engineering. Surface properties play a key role in how biomaterials interact with the body. Properties like roughness, surface charges, hydrophobicity or porosity can modify protein adsorption, biomaterial degradation and cell behavior which control biomaterial's performance inside the body. Nowadays, better understanding of the different interaction mechanisms is needed and the detailed characterization of the different samples is key.

With the support of BioBone-ITN, a European network to train young researchers to fill the demand of professionals in the strategic area of bioceramics for bone repair, we are pleased to organize in Mons an international workshop devoted to "Surface characterization of Biomaterials".

This meeting will provide the opportunity to discuss with leading experts some of the cutting edge advances in surface characterization of biomaterials and to meet some of the key players in the field.

// October 21, 2014
University of Mons, Auditoire Vésale
more information: www.lpsi.be