IN²UB INTERNATIONAL RESEARCH SEMINARS

Marker-free monitoring of cells and tissues

As the field of regenerative and personalized medicine matures, the need for novel enabling technologies to characterize cells and engineered constructs (i.e. cells/tissue combined with scaffolds and/or growth factors) as well as their individual components in a more insightful, quantitative and preferably non-invasive manner becomes imperative. Raman microspectroscopy is an emerging technique based on light scattering that allows assessing molecular interactions and the biochemical structure of a sample in a non-invasive manner. Specifically for tissue engineering applications, it has been proven to allow determining biochemical information on cells, tissues and/or material-cell tissue constructs without the need for labels.
The aim of the presentation is to show the applicability of Raman microspectroscopy for regenerative and personalized medicine applications and disease monitoring, and to discuss the added value of the generated data for tissue engineering construct design optimization and preclinical as well as clinical applications.

The IN²UB invites you to the seminar entitled

Prof. Dr. Katja Schenke-Layland

Director of The Natural and Medical Sciences Institute (NMI) at the University of Tübingen in Reutlingen, Germany.

Professor at Department of Women's Health Research Institute for Women's Health at the University Hospital, Eberhard Karls University Tübingen

Adjust Associate Professor in the Department of Cardiology at the University of California in Los Angeles

SAVE THE DATE

March 1st, 2019, 12.00h.

Eduard Fontseré Hall,

Faculty of Physics. UB

Institut de Nanociència i Nanotecnologia

UNIVERSITAT DE BARCELONA

For further information: in2ub@ub.edu

With the collaboration of PhD program in Nanoscience Universitat de Barcelona