

FLUORESCENCE FOR BIOSENSING

Madrid (Spain), Sept. 21-22, 2015

Universidad Complutense de Madrid, Faculty of Chemistry (Sala de Grados "D")

NANODEM (*Nanophotonic device for multiple therapeutic drug monitoring*) is a 4-year STREP project (2012-16), aimed to develop a novel monitor for point-of-care online immunosuppressant measurements in transplanted patients. The device will be based on minimally-invasive intravenous *microdialysis*, state-of-the-art *microfluidics* and *optoelectronics*, and magnetic *nanoparticle*-amplified **fluorescence** immunoassays. This Workshop will provide training on the different methods of fluorescence spectroscopy and probes that can be applied to **biosensing** in the chemical and biomedical fields. Therefore, PhD students and researchers looking to learn about recent advances in these exciting areas are invited to participate.*

Monday, Sept. 21, 2015

09:00	<i>Principles of fluorescence and how to use it for biosensing</i>	Prof. Guillermo Orellana Universidad Complutense de Madrid
10:00	<i>Fluorescence-based biosensors</i>	Prof. María C. Moreno Bondi Universidad Complutense de Madrid
11:00	<i>Coffee break</i>	
11:30	<i>Fluorescent labels and probes</i>	Prof. Ana B. Descalzo Universidad Complutense de Madrid
13:00	<i>Get-together lunch</i>	
14:30	<i>Super-resolution fluorescence microscopy</i>	Dr. Cristina Flors IMDEA Nanosciences, Madrid
15:30	<i>Fluorescent intracellular nanoprobe</i>	Dr. Ambra Giannetti IFAC-CNR, Firenze (Italy)
16:30	<i>Coffee break</i>	
17:00	<i>Biomedical applications of fluorescence</i>	Dr. Francesco Baldini , NANODEM Project Coordinator IFAC-CNR, Firenze (Italy)

Tuesday, Sept. 22, 2015

09:00	<i>Chemical luminescence for biosensing</i>	Prof. Aldo Roda Università di Bologna (Italy)
10:00	<i>Microarray biosensors based on fluorescently encoded microparticles</i>	Dr. Elena Benito Peña Universidad Complutense de Madrid
11:00	<i>Coffee break</i>	
11:30	<i>Fluorescence immunoassays</i>	Prof. Günther Gauglitz Universität Tübingen (Germany)

* Attendance to the Workshop is free but limited to 40 participants after pre-registration and approval. Please, send your request by e-mail, before Sept. 7th, to orellana@quim.ucm.es