

EUROMAT 2019 / Area F: Materials for Healthcare

SYMPOSIUM: F4

Title: Nanobiomaterials and nanotechnology for implants, devices and diagnostics		
Organizer	Institution	Contact email
María Vallet-Regí	Universidad Complutense de Madrid, CIBER-BBN (Spain)	vallet@ucm.es
Ken Welch	Uppsala University (Sweden)	Ken.Welch@angstrom.uu.se
Abstract		
<p>In recent years, the application of nanotechnology to medical practice has provided a broad range of novel tools suitable for the treatment of unresolved clinical situations and also for the early detection of complex pathologies. The aim of this symposium is to present recent advances related to the application of nanomaterials, nanodevices and self-assembled nanostructures as implants, drug delivery carriers, imaging agents and diagnostic tools. This interdisciplinary forum will provide a platform on which to discuss the current state of the art in the field as well as future prospects, providing a unique meeting point for worldwide experts with different backgrounds such as clinicians, chemists, physicists, biologists, etc. Fundamental research leads to translation of these findings into clinically applicable interventions, and this process will also be a focus of the meeting.</p> <p>Hot topics to be covered by the symposium:</p> <ul style="list-style-type: none">• Nanomedicine• Nanoparticle (Bio)functionalization• Nanocomposites• Biocompatibility• Targeting strategies• Smart drug delivery systems• Nanomaterials for imaging and guided therapy• Nanotherapeutics and nanotheranostics		