

EUROMAT 2017/ Symposia Structure/Area F

	Title: Nanobiomaterials and nanotechnology for implants, devices and theranostics		
	Organizer	Institution	Contact email
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F.3	Summary		
	<p>In the recent years, the application of nanotechnology to the medical practice has provided a broad amount of novel tools suitable for the treatment of unmet clinical situations and also for the early detection of complex pathologies. The aim of this symposium is to present the recent advances carried out in the latest years related with the application of nanomaterials, nanodevices and self-assembled nanostructures as implants, drug delivery carriers, imaging agents and theranostics. The development of nanomaterials for nanomedicine needs an interdisciplinary approach. This forum will provide a platform on which to discuss the current state of the art in the field and their future prospects, offering the possibility to act as a 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 <p>Special Issue publication A selection of works from symposiums F2 to F3, at the discretion of the symposium organizers, will be invited to present a full manuscript for a special issue "Smart Materials for Nanomedicine" that the <u>Chemical Engineering Journal</u> (Impact Factor 5.310) will publish. The manuscripts will be subjected to regular peer review procedures, according to the journal standards. All articles for Chemical Engineering Journal should be submitted, reviewed and finally accepted online via our online editorial system (EES/EIVSE).</p> <p>Manuscripts could be submitted from early July 2017 until 18 Sep 2017</p> <p>Keynote speaker: Prof. Thomas Bein, Ludwig Maximilians Universität, München, Germany tbein@cup.uni-muenchen.de</p>		