

Biological application of magnetic nanoparticles			
	Organiser	Institution	Contact
A2.II	Ricardo Ibarra	Director Institute of Nanotechnology of Aragon, INA, Zaragoza Spain	ibarra@unizar.es
	Paolo Freitas	Deputy Director General International Iberian Nanotechnology Institute, INL, Braga Portugal	pfreitas@inesc-mn.pt
	Summary		
<p>Magnetic nanoparticles constitute a very attractive field o research and application of nanomagnetism in life sciences. The relevance of the controllable nanometric scale made then corresponding system with elemental biological unit such as: cells, virus, proteins and peptides. Magnetic nanoparticles provide a functional action based in their magnetic behavior, but in addition they can be functionalized with biological moieties opening a tremendous field of applications in health and environmental sciences. In this symposium we propose to attract scientist working in the field of biomedicine: nanodiagnosis (biosensors, MRI), nanotherapy (targeting and drug release, magnetic hyperthermia), cell uptake and proliferation and the emerging field of the application in food, agriculture and environment science.</p>			