



SEMINARIO

# MULTICORE MAGNETIC NANOPARTICLES FOR MEDICAL APPLICATIONS

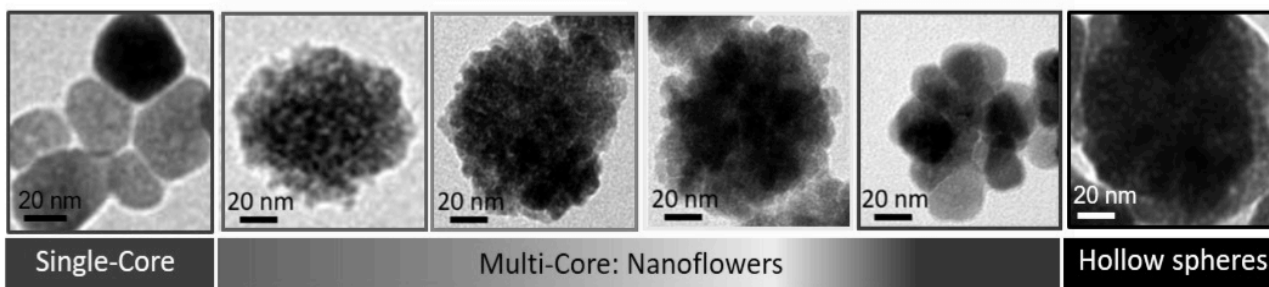
María del Puerto Morales

Instituto de Ciencia de Materiales de Madrid, ICMM-CSIC

**JUEVES 8 DE FEBRERO A LAS 12:00**

Departamento de Física de Materiales, Sala de Seminarios, UCM

Magnetic nanoparticles present a great potential for the development of biomedical applications, ranging from the already in use contrast agents for magnetic resonance imaging (MRI) to the drug delivery carriers or heating tools for improved cancer treatment through magnetic hyperthermia. Through the versatile polyol mediated synthesis, we have assembled magnetite nanocrystals into complex secondary structures, giving rise to interesting collective magnetic properties considerably different from their equivalent single-core nanoparticles or bulk materials.



Magnetic nanoparticles consisting of single-cores, multi-core nanoflowers and hollow spheres.