Training Workshop on Magnetic Nanohybrids for Cancer Therapy

Thessaloniki-Greece, April 07-09, 2022

Time Slots	Thursday 07.04	Friday 08.04	Saturday 09.04
09^{00}-11^{00}		**Properties** **H. Sarafidis, Greece:** *Mossbauer Spectroscopy in Fe oxides.* **A. Semisalova, Germany:** *Ferromagnetic resonance study of magnetic nanoparticles for biomedical applications.* **D. Karfaridis, Greece:** *X-ray Photoelectron Spectroscopy: Principles and Application on Magnetic Nanomaterials*. **J. Kioseoglou, Greece:** *Tailoring magnetic exchange bias and Curie temperature in Ni-based nanoclusters.*	**Lab courses** **Hands on** **samples** **applications** **Hyperthermia**
11^{00}-11^{30} *Coffee Break*			
11^{30}-13^{30}	**Arrivals** **Registration**	**Magnetic nanohybrids** **F. Pinakidou, Greece:** *Magnetic nanostructure evaluation by X-Ray Absorption Spectroscopic techniques.* **N. Sisakyan, Armenia:** *Iron-Cementite Nanoparticles in Carbon Matrix: Synthesis, Structure and Magnetic Properties.* **N. Tetos, Germany:** *Magnetically-Actuated Cell Manipulation with "Nanoflower"-Shaped Magnetic Nanoparticles.* **N. Maniotis, Greece:** *Micromagnetic analysis as a way to evaluate physical properties of magnetic nanoparticles in magnetic hyperthermia application.* **H. Gyulasaryan, Armenia:** *Synthesis, Structure and Magnetic Properties of (Fe-Fe_3O_4)/C Core-Shell Nanoparticles.*	***Excursion To Lake Kerkini 13:00-21:00***
13^{30}-15^{00} *Lunch Break*			
15^{00}-17^{00}	**Materials** **M. Angelakeris , Greece:** *Workshop Opening* **U. Wiedwald, Germany:** *From Physical Design to Medical Applications of Magnetic Nanoparticles for Cancer Therapy.* **S. Mourdikoudis, Czech Republic:** *Colloidal chemical routes for the synthesis of magnetic nanostructures destined for biomedical applications. What to choose?* **A. Elsukova, Sweden:** *More than an image: advanced electron microscopy methods for material characterization.* ***Poster flash presentations (5 min/Poster)***	**Perspectives** **A. Asimopoulou, Greece:** *Magnetic nanostructures & natural products* **M. Efremova, Germany:** *A new approach to magnetic sensing and actuation of mammalian cells based on genetically encoded encapsulin proteins.* **K. Giannousi, Greece:** *Bio-applications of Metal-based Nanoparticles.* **K. Spyridopoulou, Greece:** *Preclinical study design considerations in cancer nanomedicine* **M. Angelakeris, Greece:** *Closing Remarks*	**Lunches & coffee breaks take place at Poster Session Room where students may hang their posters (A0 size), present and discuss their results.**
17^{00}-17^{30} *Coffee Break*			
17^{30}	*Visit at Noesis, Workshop Dinner*	*MaNaCa Project Meeting*	

Poster Presentations (Onsite & 5 min flash presentations)

P01	**Synthesis and characterization of a novel multifunctional magnetic bioceramic nanocomposites** *K. Kazeli, Greece*
P02	*K. Kazeli, Greece* **Single-step solid state-pyrolysis of carbon-Fe_3C submicron spheres** *E. Papadopoulou, Germany*
P03	**Alternative protocols to optimize magnetic hyperthermia efficiency** *A. R. Tsiapla, Greece*
P04	**Synthesis of Fe-based magnetic nanoparticles by pyrolysis method** *G. Chilingaryan and V. Avagyan, Armenia*
P05	**Tuning synthesis of Fe_3O_4 nanoparticles: the role of surface charge on Cr(VI) uptake** *K. Kalaitzidou, P. Asimakidou, Greece*
P06	
P07	
P08	
P09	
P10	