

WORKSHOP

BIOMEDICAL APPLICATIONS OF NANOMATERIALS: MAGNETOFECTION AND MAGNETIC HYPERTHERMIA

Date: Monday, 15 April, 2013, from 9:00 a.m. to 12:00 p.m.

Meeting venue: Scientific & Technological Convention Center (CCT),
Calle 8 n° 1467 (e/ 62 y 63), La Plata, Buenos Aires, Argentina.

PROGRAM

9:00 – 9:10 h

Opening speeches

9:10 – 10:55 h

Block 1: MAGNETOFECTION

▪ 9:10 – 9:45 h

Physics of Magnetic Nanomaterials. Some potential applications in biomedicine and biomedical materials. **Francisco Sánchez** (Institute of Physics IFLP-CONICET, National University of La Plata, UNLP, Argentina).

▪ 9:45 – 10:20 h

Magnetic nanomaterials for nucleic acids delivery: Physico-chemical and biophysical aspects. **Olga Mykhaylyk** (Klinikum rechts der Isar der TUM, Institute of Experimental Oncology and Therapy Research, Munich, Germany).

▪ 10:20 – 10:55 h

Applications of magnetofection for optimizing cell reprogramming and gene transfer in muscle. **Rodolfo Goya** (Institute for Biochemical Research (INIBIOLP)-Histology B-Pathology B, Faculty of Medicine, UNLP, La Plata, Argentina).

10:55 – 11:15 h

Coffee Break

11:15 – 12:25 h

Block 2: HYPERTHERMIA

• 11:15 – 11:50 h

Multifunctional Magnetic Nanoparticles for Selective Detection and Treatment of Cancer. **María del Puerto Morales** (Instituto de Ciencia de Materiales de Madrid, ICMM-CSIC, 28049, Madrid, Spain).

• 11:50 – 12:25 h

Dipolar-interactions effect in nanoparticles efficiency for magnetic hyperthermia. **Marcela Fernández van Raap** (Institute of Physics IFLP-CONICET, National University of La Plata, UNLP, Argentina).

12:25 – 12:30 h

Closing speech

If a certificate of attendance is needed, request it before 8 April to goya@isis.unlp.edu.ar o sanchez@fisica.unlp.edu.ar