All participants to the conference are cordially invited to attend a half-day satellite symposium entitled **"Magnetic Particle Biosensors"** on the 22nd of May, which precedes the welcome reception.

The satellite symposium is organized by the BioMax consortium (www.biomax-itn.eu), an International Training Network of the European Community in the Seventh Framework Program, which focuses on novel diagnostic bio-assays based on magnetic particles.

Participation in the satellite symposium is free of charge for all participants to the conference.

Program Satellite Symposium "Magnetic Particle Biosensors"

Location: Van Vleck Auditorium, University of Minnesota, Minneapolis, MN, USA

Chair: Leo van IJzendoorn (Eindhoven University of Technology, The Netherlands)

13:30 – 13:40 Welcome and introduction to BioMax:
"Novel diagnostic Bio-Assays based on Magnetic Particles"
Jeroen Lammertyn (Katholieke Universiteit Leuven, Belgium)

First topic: Molecular architectures for magnetic particle biosensing

13:40 – 14:10 Solid-Phase Proximity Ligation Assay as a Sensitive Molecular Tool for Protein Detection
Masood Kamali-Moghaddam (Uppsala University, Sweden)

Second topic: Homogeneous assays with magnetic particles

14:10 – 14:40 Experiments on Self Assemblies of Magnetic Colloids
Jean Baudry (Universite Pierre et Marie Curie, ESPCI, France)

14:40 – 15:10 Magnetic Particle-Based Capturing and Detection for Sensitive Immunoassays
Arthur de Jong (Eindhoven University of Technology, The Netherlands)

15:10 – 15:30 Coffee break

Third topic: Microfluidic technologies for magnetic particle assays

15:30 – 16:00 Applications of Magnetic Bead-Based Labs-on-a-chip
Martin Gijs (Ecole Polytechnique Fédérale de Lausanne, Switzerland)

16:00 – 16:30 Manipulating Magnetic Particles on a Digital Microfluidic Platform for Bio-Assay Development
Jeroen Lammertyn (Katholieke Universiteit Leuven, Belgium)

Fourth topic: Scientific challenges for industrial magnetic particle biosensors

16:30 – 17:00 Science and Technology for Magnetic Particle Biosensing
Ron van Lieshout (Philips Research, The Netherlands)

17:00 – 17:30 Present and Future Applications of Magnetic Particles in In-Vitro Diagnostics
Mike Martens (Future Diagnostics, The Netherlands)