

UNIVERSITÀ
DEGLI STUDI
FIRENZE

Workshop on Magnetism in Medicine

February 15th 2017 (10 a.m. – 6 p.m.)
Sala Rossa, Villa Ruspoli
Piazza Indipendenza 9, Firenze



The workshop, promoted by the Italian Magnetism Association – AIMagn and organized by the ICCOM and ISM Institutes of CNR, aims at providing an overview on the state-of-the-art, development and perspectives of application of magnetism and magnetic materials in medicine (magnetic fluid hyperthermia, magnetic resonance imaging, drug delivery, dynamic nuclear polarization and others). The workshop program is based on invited contributions, presented by scientists from both public research institutions and private companies.

Key-note speakers

R. Cowburn (*Univ. of Cambridge*)

M. L. Fernández-Gubieda (*BC Mat – Univ Basque Country*)

Invited speakers

S. Aime (*Univ. Torino*)

N. Cassinelli (*Nanoscale Biomagnetics*)

S. Colombo (*Bracco Imaging*)

A. Lascialfari (*Univ. Milano*)

S. Pazziani (*LOT - QuantumDesign*)

D. Petti (*Politecnico Milano*)

A. Tampieri (*ISTEC - CNR*)

Conference Chairs

Davide Peddis (*ISM-CNR*)

Claudio Sangregorio (*ICCOM-CNR*)

Program Committee

Dino Fiorani (*AIMagn President, ISM-CNR*)

Ilaria Bergenti (*ISMN-CNR*)

Lucia Del Bianco (*Univ. Ferrara*)

Alessandro Lascialfari (*Univ. Milano*)

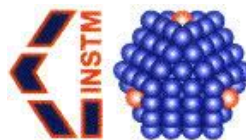
Local Organizing Committee

Andrea Guerrini (*Univ. Firenze*)

Claudia Innocenti (*Univ. Firenze*)

Sponsors





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Program

10.00 - 10.05 Welcome and Introduction

10.05 - 11.00 Key-note Russel Cowburn (Univ. of Cambridge)
Synthetic magnetic liquids for biotechnology applications

11.00 - 11.20 Coffee Break

11.20 - 11.50 Invited Silvio Aime (Univ. Torino)
From chemical exchange to molecular imaging with CEST

11.50 - 12.20 Invited Daniela Petti (Politecnico Milano)
Magnetoresistive platform for neuronal signal recording

12.20 - 14.05 Lunch

14.05 - 15.00 Key-note Maria Luiza Fernández-Gubieda (BC Materials – Univ. Basque Country)
Magnetic nanoparticles biosynthesized by magnetotactic bacteria as theranostic agents

15.00 - 15.30 Invited Anna Tampieri (ISTEC - CNR)
Fe doping-induced magnetism in nano-apatite: application in regenerative medicine and nanomedicine

15.30 - 16.00 Invited Alessandro Lascialfari (Univ. Milano)
Magnetic nanoparticles as MRI and hyperthermia agents

16.00 - 16.20 Coffee Break

16.20 - 16.50 Invited Sonia Colombo (Bracco Imaging)
Electron and nuclear spin interactions in dynamic nuclear polarization via thermal mixing

16.50 - 17.20 Invited Simone Paziani (LOT - QuantumDesign)
Nanoparticle characterization and Direct-write optical lithography: tools for nanomedicine.

17.20 - 17.50 Invited Nicolàs Cassinelli (Nanoscale Biomagnetics)
To be announced

17.50 - 18.00 Conclusions



The registration, which includes coffee breaks, is free of charge. Registration form must be sent before 05/02/2017 by e-mail to segreteria@aimagn.it:

Workshop on Magnetism in Medicine

REGISTRATION FORM

Name _____

Institution _____

Address _____

Phone _____

E-mail _____

How to reach the Workshop Venue:

Piazza Indipendenza is located within a less than 10 minutes walk from the Santa Maria Novella Railway Station. To reach Piazza Indipendenza just take the East Side Exit at the SMN Station (left hand), then via Nazionale, which starts from the traffic circle you will see at your right side. Once in Piazza Indipendenza you will find Villa Ruspoli at the left side.

