### **DESCRIPTION**

Translation of nanotechnology into medical practice, specifically in the field of oncology, has been widely investigated in the recent years. The physical and chemical properties of some new nanoparticles are promising tools to serve as the basis for superior imaging probes of cancerous lesions and as vehicles to deliver therapeutics preferentially to those lesions. Moreover, these new multimodal nanoplatforms are highly versatile components of the emerging trend toward personalized medicine. Therefore, imaging diagnosis and therapy could be combined employing these sophisticated nano-theranostic agents in Nuclear Medicine, US, CT and MRI.

This workshop deals with these multidisciplinary new horizon potentially able to transform the traditional diagnostic imaging disciplines toward a new strong therapeutic commitment of Imaging Professionals.

### **ENDORSED BY**

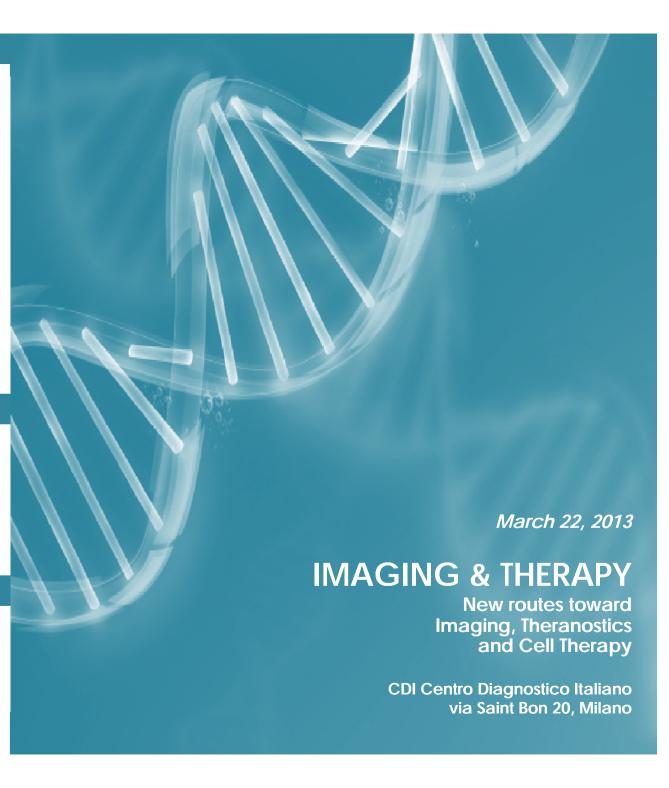




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### **ADVISORY BOARD**

## **REGISTRATION/ACCREDITATION**

8,30 Introduction - S. Papa

Workshop Chairman: S. Aime

- 9,00 New frontiers in Molecular Imaging
  S. Aime
- 9,30 New Horizons in Nanomedicine Technology - N. Tsapis
- 10.00 Cell Imaging for cell therapy J.W.M. Bulte
- 10.30 Passive vs.active targeting using image-guided nanomedicines *T. Lammers*

11.00 Coffee Break

- 11,30 Imaging of cell distribution, viability and differentiation by reporter genes *L. Ottobrini*
- 12,00 Microbubbles Imaging
  and Therapeutic Perspectives L. Solbiati
- 12,30 Drugs and Genes delivery using Microbubbles F. Tranquart

13.00 Lunch

- 14,00 IMsAT Nanoporation Project Perspectives in MRgFUS in drug delivery A. Melzer
- 14,30 US activated vascular permeability monitored with MRI C. Moonen
- 15.00 Discussion

15,30 Coffee Break

- 16,00 Round Table: Translational issues

  Chairman: G. Cornalba
- 16,00 Consiglio Nazionale Ricerche G. Mancini
- 16,30 Italian Institute of Technology A.Bifone
- 17,00 Pharmacological Research A.Maiocchi
- 17,30 *Discussion*

Giampaolo Cornalba Alessandro Maiocchi Alfeo Montesi Sergio Papa

### **FACULTY**

Silvio Aime, Dipartimento di Biotecnologie Molecolari e Scienze della Salute, Univ. di Torino

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**Giovanna Mancini**, Senior Research Scientist Consiglio Nazionale delle Ricerche, Istituto di Metodologie Chimiche, Roma, Italy.

**Andreas Melzer**, Head of Imaging and Technology, University of Dundee, UK.

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**Luigi Solbiati**, Direttore Radiologia Diagnostica Ospedale di Busto Arsizio, Italy

Francois Tranquart, Pharmacological Research, Geneva, Switzerland.

**Nicolas Tsapis**, University of Paris Sud, Chatenay-Malabry, France.

IMAGING & THERAPY New routes toward Imaging, Theranostics and Cell Therapy

When: 22th march 2013 Venue: Congress Room

of CDI Centro Diagnostico Italiano

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