

27 febbraio 2013

ore 15.00

Sala Azzurra

Palazzo della Carovana

Piazza dei Cavalieri

# Colloqui della Classe di Scienze

Anno Accademico 2012/2013



SCUOLA  
NORMALE  
SUPERIORE

**SILVIO AIME**

Center of Molecular Imaging

Dept. of Molecular Biotechnologies & Health Sciences

Università di Torino

*Challenges in Molecular Imaging*

#### ABSTRACT

Molecular Imaging deals with the "in vivo" visualization, characterization and measurement of biological processes at the molecular and cellular levels. The techniques used include PET/SPECT, MRS/MRI, optical imaging, ultrasounds and others.

Molecular Imaging is interdisciplinary as it involves skills from general fields, including physics, chemistry, biology, imaging technology, medicine. Access to "in vivo" Molecular Imaging tools is increasingly requested by researchers in order to attain enhanced characterization of cellular and animal models, to explore pathways and responses to therapy. In vivo Molecular Imaging results are validated by established in vitro molecular, genetic and histological tests.