

Bioimaging, Theranostics and Advanced Pharmaceutical Technologies: what combination for precision medicine?

September 2nd - 4th 2025
Palermo

2nd SITELF National PhD summer school
(XXIV ADRITELF National PhD school)

2nd September 2025

General program

- **13:45 – 15:15** Registration and welcome
- **15:15** Opening speech: Prof. P. Minghetti and G. Cavallaro
- **15:30 - 17:00** First day - Session one
- **17:00 - 17:20 Coffee break**
- **17:20 – 18:30** PhD Student talk section

Session one - Detail

DESIGN AND PRODUCTION OF BIOMATERIALS
FOR THERANOSTICS APPROACHES

- **15:30 – 16:15**

Speaker: Prof. Thomas Etrych (Institute of Macromolecular
Chemistry, Czech Academy of Science, Prague)-

**“Hydrophilic polymer-based biomaterials as a tool in in
vitro diagnostics, therapeutics and theranostics”**

- **16:15 - 17:00**

Speaker: Prof. Cinzia Scialabba (University of Palermo) -
**“Exploring Theranostics: Innovative Nanomedicine
Application in Precision Medicine”**

Welcome social event

3rd September 2025

General program

- **09:00-10:45** Second day - Session one
- **Coffee Break: 10:45 – 11:15**
- **11:15 - 12:45** Second day – Session two
- **Lunch Break: 13:00-14:30**
- **14:30 - 17:30** PhD Student talk section
- **17:30 – 18:30** Poster Session

Session one - Detail

NANOBASED DRUG DELIVERY SYSTEMS IN
PRECISION MEDICINE
AND THERANOSTICS

- **09:00 - 09:45**

Speaker: Prof. Giuseppe Battaglia (Institute for Bioengineering
of Catalogna, Spain)- **“Next generation nanomedicines: from
drug delivery to supramolecular drugs”**

- **09:45 – 10:30**

Speaker: Prof. Nicola Tirelli (Italian Institute of Technology,
Genova) - **“Transcriptomic profiling – a powerful tool for
the stratification of tumours but
also for really targeted therapies”**

- **10:30 - 10:45**

Elsevier, technical session, Speaker and title to be defined

Session two - Detail

PHOTO-RESPONSIVE SYSTEMS FOR
THERANOSTICS

- **11:15 - 12:00**

Speaker: Prof. Salvo Sortino (University of Catania) -
“Photoactivatable Drug Delivery Systems”

- **12:00 - 12:45**

Speaker: Prof. Elisabetta Ranucci (University of Milano)
**“Luminescent Poly(amidoamine) Iridium Complex as a New
Singlet-Oxygen Sensitizer for Photodynamic Therapy”**

4th September 2025

General program

- **09:00-10:30** Third day – Session one
- **Coffee Break: 10:30 – 11:00**
- **11:00-12:45** Third day – Session two
- **Lunch Break: 13:00-14:30**
- **14:30 - 17:30** PhD Student talk section
- **17:30 – 18:30** Poster Session

Session one - Detail

IMAGING TOOLS IN PRECISION MEDICINE: FROM
MOLECULAR INSIGHT TO THERAPEUTIC
INNOVATION

- **09:00 - 09:45**

Speaker: Prof. Valeria Vetri (University of Palermo) - **“From
light to insight: investigating molecular fate with
quantitative fluorescence
microscopy””**

- **09:45 – 10:30**

Speaker: Dr. Mauro Sassi (Novartis)
**“Radioligand Therapy and Analytics: unlocking the future
of medical innovation”**

Session two - Detail

MAGNETIC RESONANCE BASED SYSTEMS FOR
THERANOSTICS

- **11:00 – 11:45**

Speaker: Prof. Silvio Aime (Istituto di Bioimaging di Torino) -
**“Advances in Magnetic Resonance Probes and Procedures
for Medical
Imaging”**

- **11:45 – 12:30**

Speaker: Dr. Cesare Gagliardo (University of Palermo) -
**“Magnetic Resonance Imaging: From Precision Diagnosis
to Targeted
Treatment”**

Social dinner and award ceremony