

CHT and the UO 3R Center of Pavia University are organizing the workshop:

RESEARCH AND NANOMEDICINE

Tenth Edition

edited by P. Pallavicini, L.Visai and N.Bloise

WEDNESDAY, JUNE 17, 2026

From 9:15 > 17:30

WORKSHOP IN ENGLISH

The Tenth edition of the Research and Nanomedicine Workshop, organized by the University of Pavia, will be conducted this year in a hybrid format, combining an in-person session at the Chemistry Department (Viale Taramelli 12, Pavia) with a live-streaming event on YouTube. In addition to the young researchers from the University of Pavia, other young scientists from other universities have been invited to present their studies. This is intended to promote the knowledge and the meeting between various groups that carry out research in the area of nanomedicine and 3Rs, with a view to enabling the birth of scientific collaborations, synergies, and participation in future projects. Two “invited talks” from Department of Experimental Medicine (DIMES, University of Genoa and IRCCS Ospedale Policlinico San Martino, Genoa, Italy) and Department of Pharmacy (University of Genoa, Genoa, Italy), respectively. Furthermore, the workshop is divided into 2 sessions: the morning session is dedicated to Nano-therapies and Nano-diagnostics while the afternoon session is focused on Regenerative Medicine.



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PROGRAMM

9.15 – *Short introduction to the workshop:*

Piersandro Pallavicini, Livia Visai and Nora Bloise

First Session: Nano-diagnostics and Nano-therapeutics

(in presence and online) – Chairman Piersandro Pallavicini

9:30 Azhar Mahmood (Dept. of Chemistry, University of Pavia, Pavia, Italy)
“Silica monoliths with embedded silver nanoparticles for safe point-of-use water disinfection avoiding nano-pollution”

9:50 Giorgia Dal Pan (Dept. of Chemistry Dept., University of Pavia, Pavia, Italy)
“Enhanced liposome characterization through complementary techniques for improved size and distribution analysis “

10:10 Vittorio Maceratesi (Dept. of Chemistry, University of Pavia, Pavia, Italy)
“The influence of sampling volume on the chemical homogeneity of FeraSpin R”

10:30 Ananya Singh (online) (Indian Institute of Technology, Banaras Hindu University, Varanasi, India) “ “Optically Active Bright NanoGhost for Organ-Specific Distribution In Vivo”

10:50 - 11:30 *Coffee break*

11:30 **Invited speaker:** Sveva Bollini (Dept. of Experimental Medicine (DIMES), University of Genoa and IRCCS Ospedale Policlinico San Martino, Genoa, Italy)”
Human perinatal derivatives in preclinical cardiovascular research: unlocking a reparative dialogue with the heart”

12:00 Grazia Nota (online) (Dept. of Pharmacy, University of Naples Federico II, Naples, Scuola Superiore Meridionale, University of Naples “Federico II”, Naples, Italy)
“From Nanomaterials to Diagnostics: Advancing Screen-Printed Biosensors”

12:20 Gennaro Persico (online) (Dept. of Pharmacy, University of Naples Federico II, Naples, Italy) ““Biosensor development for disease monitoring”

12:40 Gabriella Iula (online) (Dept. of Pharmacy, University of Naples Federico II, Scuola Superiore Meridionale, University of Naples “Federico II”, Naples, Italy) “Nanomaterial-enhanced screen-printed electrochemical biosensors for biomedical and point-of-care applications “

13:00 - 14:30 *Lunch break*

First Session: Nano-diagnostics and Nano-therapeutics
(in presence and online) – Chairman Livia Visai and Nora Bloise

- 14:30 Aleksandra Evangelista (Dept. of Drug Sciences, University of Pavia, Pavia, Italy)
“Electrospun systems carrying nanocarriers “
- 14:50 Claudio Casella (Department of Chemical and Environmental Engineering, University of Oviedo, Oviedo, Spain) “Preliminary Study on PCC-Chitosan Derived from *Procambarus clarkii* for Enhancing Microplastic Excretion in Human Stools and Reducing Blood Microplastic Levels in Healthy Volunteers”
- 15:10 Enrica Frasca (Dept. of Molecular Biotechnology and Health Sciences, University of Turin, Turin, Italy) “Inhalable mucin-based nanoparticles against lung bacterial infections”
- 15:30 **Invited speaker:** Valerio Voliani (Dept. of Pharmacy, School of Medical and Pharmaceutical Sciences University of Genoa, Genoa, Italy) “Inorganic nanoarchitectures for next-generation cancer therapies”

16:00 – 16:20 *Coffee break*

Second session: Regenerative Medicine – Chairman Nora Bloise

- 16:20 Ilaria Borghi (Dept. of 3Medicine and Surgery, University of Milano Bicocca, Milano, Italy) “3D Bioprinted IBD Models: Investigation of Glycosignatures and Morphological Alterations”
- 16:40 Amir Hossein Elahi (Dept. of Molecular Medicine, University of Pavia, Pavia, Italy)
“Versatile Alginate-Gelatin Hydrogel Systems for 3D Breast Tumor Modeling”
- 17:00 Elisabetta Maffioli (Dept. of Drug Sciences, University of Pavia, Pavia, Italy)
“Chitosan oligosaccharide-polyurethane based scaffolds for cartilage repair”
- 17:30 *Conclusions and end of the workshop*

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