

BRIDGING NANOMEDICINES, BIOMATERIALS AND THE IMMUNE SYSTEM



**Aurum - largo Gardone
Riviera - Pescara**



October 29-31, 2026

Workshop theme

Nanomedicines and advanced biomaterials have significantly expanded drug delivery and controlled release strategies, enabling refined control over cargo protection, targeting, and spatiotemporal presentation. As these systems grow more complex and bioinspired, their interaction with the immune system becomes a critical factor influencing efficacy, safety, and translational success. This workshop aims to bridge nanomedicine and biomaterial design with mechanisms of immune recognition and response, addressing interactions with both innate and adaptive immunity. Rather than considering the immune system solely as a barrier, it will be examined as an active and dynamic partner capable of shaping biodistribution, persistence, and therapeutic outcomes. Contributions will focus on bioinspired and engineered nanocarriers, cell-derived and hybrid systems, and functional biomaterials designed to modulate immune interactions, whether to promote immune evasion, induce tolerance, or intentionally engage immune pathways. Emphasis will be placed on rational design, immune-relevant characterization, and mechanistic understanding of nano-bio-immune interfaces, fostering cross-disciplinary dialogue and accelerating the translation of next-generation delivery systems.

Scientific committee

Stefano Salmaso
Roberta Censi
Rossella Dorati
Calogero Fiorica
Rosa Maria Jacobazzi
Silvia Pescina
Anna Maria Piras
Barbara Stella

Organizing committee

Antonio Di Stefano
Lisa Marinelli
Ivana Cacciatore
Marilisa Pia Dimmito
Maria Rosa Gigliobianco
Piera Di Martino
Silvia Franzè
Michele Schlich

Confirmed Speakers

Rosario Rizzuto
(Università di Padova)

Flavia De Sousa
(University of Groningen)

Massimo Dominici
(University of Modena and Reggio Emilia)

Francesca Fallarino
(University of Perugia)

Cristina Fornaguera
(Institut Químic de Sarrià)

Paola Italiani
(CNR Napoli)

Ine Lentacker
(University of Ghent)

Paolo Macor
(University of Trieste)

Jai Prakash
(Radboud University)

Yang Shi
(RWTH Aachen University Clinic)

The Organizing and Scientific Committees look forward to welcoming you to Pescara for a highly stimulating and engaging workshop!