

Cecilia BOMBELLI_CV

Cecilia Bombelli (orcid.org/0000-0003-0877-0504) is a Senior Research Scientist at the Institute for Biological Systems (ISB-CNR), National Research Council, where she is responsible for the Secondary Office of the Institute, whose research activities are mainly devoted to development of nanosystems for nanomedicine applications. She holds a degree in Chemistry and a PhD in Chemical Science and has deepened interdisciplinary aspects related to drug delivery by attending a II level Master in "Methodologies for research and development of new therapies" of the II Faculty of Medicine and Surgery of the University of Rome "Sapienza".

Her research activity is focused on the design and development of liposomes investigated as delivery systems of drugs, natural bioactive molecules and genetic material in antibacterial, antitumoral and genetic therapies as well as membrane models to elucidate the molecular mechanisms underlying the interaction of membranes with the key proteins in the onset of degenerative neurological diseases.

She was involved in many national and international projects, mainly funded by MUR and EU; she is actively engaged in scientific collaborations with national and international Universities and Research Institutes and with a pharmaceutical company. Moreover, she contributed at different levels in the organization of international and national conferences, mainly in the field of Nanomedicine. Her scientific activity is documented in 50 publications in international journals (h-index 22, citations 1296), 1 book chapter and 73 communications at national and international conferences (18 orals and 2 invited lectures).

Ongoing projects:

- 1. BIOACTION - "Bacteria Biofilm as a bio-factory for tissue regeneration" (GA 101098972)**
Call HORIZON-EIC-2022-PATHFINDEROPEN-01
- 2. CN3 - "National Center for Gene Therapy and Drugs based on RNA Technology" - (CN00000041)**
PNNR Project Funded by EU NextGenerationEU
- 3. BELIEVE - "Biomimetic antimicrobial vesicle-like nanoarchitectures for multi-drug-resistant bacteria" (Prot. 2022HSFEPY)**
Call PRIN 2022
- 4. INF-ACT - "One Health Basic and Translational Research Actions addressing Unmet Needs on Emerging Infectious Diseases" (Project no.PE00000007)**
PNNR Project Funded by EU NextGenerationEU