



# FIT4 MED ROB

Workshop

## Fit for Medical Robotics

Napoli 9 – 10 Settembre 2024  
Università degli Studi di Napoli  
Federico II

Aula Scipione Bobbio

P.le Tecchio 80 - Napoli

MEETING OF ACTIVITY 10 – BIOHYBRID INTERFACES AND  
BIOMATERIALS (MISSION 3)

PROGETTO PNC0000007 – REALIZZATO CON IL  
COFINANZIAMENTO DEL MINISTERO DELL'UNIVERSITÀ E DELLA  
RICERCA NELL'AMBITO DEL PNC - D.D. n. 1511 DEL 30.09.2022

Monday, 9 September 2024

**12.30** Lunch Aula Scipione Bobbio

**14:00** **Opening**

*Loretta L. del Mercato (CNR-NANOTEC, Lecce); Paolo Netti (UniNA); Laura Pastorino (UniGe)*

**14.15** **Sub-Project 1:** Biosensing in human in vitro neurodegenerative processes

*Speaker(s): Donatella Di Lisa (UniGE)*

**15:15** **Sub-Project 2:** Functional nanoparticles for biorobotics and rehabilitation

*Speaker(s): Emma Chiaramello (CNR-IEIT, Milano), Luigi Carbone (CNR-NANOTEC, Lecce)*

**16:15** Coffee Break

**16:30** **Sub-Project 3:** Bioactive scaffolds for skin-implants integration in intraosseous transcutaneous amputation prostheses

*Speaker(s): Francesca Scalera (CNR-NANOTEC, Lecce)*

**17:30** **Sub-Project 4:** Development of a multi-functional nerve guide for long gap nerve regeneration

*Speaker(s): Daniela Pezzolla (CNR-NANOTEC, Lecce)*

**18.30** **End of activities**

Tuesday, 10 September 2024

**8.30** Coffee Aula Scipione Bobbio

**9:00** **Sub-Project 5:** Fabrication of hybrid multifunctional constructs for muscular and neural integration and control

*Speaker(s): Francesco Urciuolo e Sara Sibilio (UniNA), Alberto Rainer (UCBM), Riccardo Di Corato (CNR-IMM, Lecce)*

**10:00** **Sub-Project 6:** Implantable microelectrodes array for electrical stimulation and signal collection from muscle tissue

*Speaker(s): Luciano Velardi (CNR-IMM, Lecce), Antonio Turco (CNR-NANOTEC, Lecce), Francesco Ferrara (CNR-NANOTEC, Lecce)*

**11:00** **Conclusions**

*Loretta L. del Mercato (CNR-NANOTEC, Lecce); Paolo Netti (UniNA); Laura Pastorino (UniGe)*

### Additional Info

- **Wi-Fi Connection /** SSID: FIT4MEDROB - PW: Fit4m&dROb
- **Monday, 9 September 21:00 / Dinner**  
*Ristorante "Il Transatlantico", Borgo Marinari  
Napoli, Castel dell'Ovo*

### Organizing Committee

Paolo Netti, Valeria Panzetta, Sara Sibilio,  
Francesco Urciuolo.