

PNRR Missione 4, Componente 2, Investimento 1.4 "Potenziamento strutture di ricerca e creazione di "campioni nazionali di R&S" su alcune Key Enabling Technologies"

Iniziativa finanziata dall'Unione europea — NextGenerationEU.

National Center for Gene Therapy and Drugs based on RNA Technology

Sviluppo di terapia genica e farmaci con tecnologia a RNA

Codice progetto MUR: **CN0000041** – CUP UNINA: **E63C22000940007**

Doctorate of National Interest

RNA THERAPEUTICS AND GENE THERAPY

SELECT ONE OF THE FOLLOWING RESEARCH AREA:

- Mechanisms of Diseases and Drug Target Identification**
- Design and Delivery of New Gene Therapy and RNA-Based Medicines**
- Validation and Safety In Preclinical and Clinical Studies**

LOCATION OF THE RESEARCH ACTIVITY (INSTITUTION/DEPARTMENT):

University of Bari Aldo Moro, Department of Biosciences, Biotechnologies and Environment (DBBE)

TUTOR: Prof. Anna De Grassi

PROPOSED RESEARCH ACTIVITIES (max 300 words):

The PhD student will contribute to the development and the application of bioinformatic approaches for the analysis of high-throughput RNA-sequencing data, and for their integration with other data in multi-omics, to identify novel molecular and cellular mechanisms in cancer and neurodegeneration. The PhD student will be consequently involved in generating mechanism-driven hypotheses for predicting novel and testable RNA-based therapeutic products.