

Post-doc position in the framework of the PNRR-TR1-2023-12378316 (Missione: M6/componente: C2 Investimento: 2.1 Valorizzazione e potenziamento della ricerca biomedica del SSN) at the Dipartimento di Oncologia Sperimentale Istituto di Ricerche Farmacologiche Mario Negri IRCCS, Via Mario Negri 2 - 20156 Milano, Italy

Title of the project: “Smart systems for the targeting and killing of mesothelioma tumors (Smyle)”

A post-doc position for 2 years, is open at the Istituto di Ricerche Farmacologiche Mario Negri in Milano Italy in the group of Dr Massimo Zucchetti in the framework of the PNRR project mentioned above.

Requirements:

- PhD in Biotechnology, Biology, or Pharmaceutical Chemistry (preferably).
- To be trained to carry out *in vivo* studies with preclinical models of cancer, in compliance with the current Italian legislation (DM 5 agosto 2021).
- Good experience in the conduction of pharmacokinetic and antitumor efficacy studies
- Excellent ability to work autonomously in specific pathogen-free conditions with syngeneic, xenograft, and orthotopic murine models.
- Good skills in working with cells under sterile conditions.
- Experience in drug quantification in biological matrices using HPLC and HPLC/MS techniques.
- The candidate must be fluent in written and spoken English.

Research activities to be performed:

The project deals with the development of hybrid nanomaterials designed for targeting mesotheliomas and able to release different drugs. The project is very interdisciplinary research and includes the synthesis and characterization of the materials, the assessment of their targeting ability *in vitro* and *in vivo*, and the role of the immune system that can be stimulated to enhance the efficacy of the therapy. The candidate will be preferentially involved in *in vivo* testing of the nanomaterials in preclinical models of malignant mesothelioma to assess their efficacy, targeting ability, and pharmacokinetic profile.

Application: Applicants must send their CV, publications list and a short description of their skills and achievements to Dr. Roberta Frapolli via email (roberta.frapolli@marionegri.it).

The deadline for applications is October 30, 2024.

The starting date of the contract will be within 1st December.