

**DESCRIPTION:**

We are creating an innovative and dynamic startup focused on the development of novel cancer immunotherapies based on the most recent RNA therapy approaches.

The goal of the company is to develop novel therapeutical approaches to awake anti-tumor immunity and to induce an effect only within the neoplastic lesion (avoiding the risk of developing immune systemic reactions, a common side-effect of immunotherapies). We are seeking for two/three highly motivated and brilliant scientists who will be responsible for the identification and validation of our strategy.

**QUALIFICATIONS:**

A minimum of master degree with 5 year of relevant experience and/or PhD with at least 1 year of relevant experience in 1) tumor immunology and cellular biology or 2) molecular biology and biochemistry.

**REQUIRED EXPERIENCE AND SKILLS:**

**POSITION 1: TUMOR IMMUNOLOGY**, we are seeking for a candidate with a progressed experience with:

- Human tumor immunology: sample collection, storage, lymphocytes isolation, lymphocytes culture – differentiation and expansion.
- Immunological assays to assess the re-activation of effector phenotypes and cytolytic functions (T cell helper capabilities, cytotoxic activity, cytokines and granzymes production, killing ability of heterologous / cancer cells).
- Flow cytometry to perform phenotypic and functional characterization of T lymphocytes (multiparametric flow cytometry will be considered a plus).
- Familiarity with molecular biology technologies (nucleic acid extraction, PCR, western blot, experience with Next Generation Sequencing technology will be considered a plus).

**POSITION 2: MOLECULAR ONCOLOGY**, we are seeking for a candidate with a progressed experience with:

- Human tumor oncology: sample collection, storage, processing, cell isolation.
- Human cell cultures, apoptotic and necrotic cellular assays.
- Molecular biology technologies, Next Generation Sequencing approaches, RNA extraction and libraries preparation.
- Basic flow cytometry.
- Biochemistry, experience with nanoparticles delivery systems will be considered a plus.

**Candidates should have proven abilities of:**

- Good written and oral communication in English including the ability to present scientific data in a group setting, as well as detailed report generation.
- Ability to adapt to changing project priorities and meet timelines.
- Ability to clearly report results and organize samples and materials.
- Good Team player: ability to establish open and transparent communication with colleagues

**Contract type:** fixed-term contract for 2 years, renewable

**Hazardous Materials:** BSL-2 agents

**Salary:** Euro (commensurate with candidate experience)

**HOW TO APPLY**

Please apply by sending a letter of motivation describing your interest in this research and past research experiences, a curriculum vitae and names of at least two referees to:

Prof. Beatrice Bodega  
Istituto Nazionale di Genetica Molecolare (INGM)  
<mailto:bodega@ingm.org>