

## Post-doc position in Chemistry - Organic synthesis of multivalent immunomodulatory glycomimetics (ID: 6386)

### Dynamic immunomodulating hydrogels for glioma therapy exploiting chemoresponsive MMP inhibitors (DINGO)

The aim of this project is to generate multifunctional hydrogels for post-surgical glioblastoma (GBM) treatment. The hydrogel will be able to progressively release through static/dynamic crosslinkers and encapsulation three therapeutic agents: a) a traditional chemotherapeutic drug already employed in GBM treatment; b) an MMP inhibitor to limit cell spreading and metastasis, c) an immunomodulatory mannose based dendron to target and modulate the immune system. The candidate will synthesize the mannose based dendron(s) on a medium/large scale following an already optimized synthetic process.

**Starting date:** March 2024

**Duration:** 12 months

**Where:** Chemistry Department, University of Milan, via Golgi 19, Milano

**Qualifications:** The successful candidate will hold a **PhD in Chemistry, Medicinal chemistry or equivalent** with a solid background in **small molecules organic synthesis** and their **characterization**. Organisation, communication skills are required, as well as the ability to work both in team and independently. A **multidisciplinary mindset** is mandatory. Previous experience in carbohydrate chemistry is desirable.

**Funding:** PRIN 2022

**Application deadline:** 9<sup>th</sup> February 2024 h 23:59

**Apply here:** <https://www.unimi.it/it/ricerca/ricerca-lastatale/fare-ricerca-da-noi/assegni-e-borse/bandi-assegni-di-ricerca/bando-di-tipo-b-pnrr-profssa-sattin-id-6386>