

## **Tbio-GATE: New nanoparticles containing bio-gated scaffolding for tuberculosis diagnosis.**

**ADRESSED PATHOLOGY: Infectious diseases**

**GENERAL OBJECTIVES:** The aim of the project is to develop a novel bio-inspired gated hybrid material for advanced sensing applications for tuberculosis detection. Furthermore, the project will develop new materials capped with specific molecules that will be used for the selective delivery of a dye in presence of *M. tuberculosis* biomarkers. So, the expected results of the project will lead to contribute in the strong progress beyond the state of the art of such type of techniques in order to improve the conventional detection techniques of *M. tuberculosis*.

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