

## Partner search

**Company:** Diasci Diagnostico Cientifico e Solucoes Tecnologicas Avancadas LTDA

**CIF:** 48.346.156/0001-55

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**Position:** co-founder and researcher

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### Short Company presentation

(R & D guidelines, international activities, etc.)

Diasci Diagnóstico Científico e Soluções Tecnológicas Avançadas LTDA is a biotechnology and nanotechnology startup based at the Supera Innovation and Technology Park (Ribeirão Preto-SP).

**Mission:** To transform healthcare through the development of innovative medical devices for cancer screening and diagnosis.

**Current Focus:** Diagnosis of brain tumors (Glioblastomas - GBM) and other aggressive cancers (Pancreas, Lung, CNS) through the detection of biomarkers in liquid biopsy.

### DESCRIPTION OF ITS TECHNOLOGY AND CAPABILITIES IN R & D

(Products, technologies, applications, services, etc.)

Diasci develops a portable electrochemical biosensor capable of performing in situ and point-of-care diagnostics, with the following competitive advantages:

- **Minimally Invasive:** Uses peripheral blood (Liquid Biopsy), eliminating the initial need for complex surgeries or brain tissue biopsies.
- **Speed and Cost:** Cheaper and faster alternative compared to Magnetic Resonance Imaging (MRI) or Computed Tomography (CT).
- **High Sensitivity:** Ability to detect recurrences early and monitor them.
- **Our device is currently undergoing validation:** Partnership with Hospital das Clínicas (HCFMUSP) and ICESP (São Paulo State Cancer Institute) for sample collection and validation with cancer patients and control groups.

## PROPOSED COLLABORATIVE PROJECT IN R & D

(As much detail as possible, both in what it offers and what you want in a potential partner)

- **Technology offered to international partners:** We are developing an electrochemical biosensor for Glioblastoma liquid biopsy.
- **Technology looking for an international partner:** We are seeking a Spanish partner with one of the following profiles:
  - Expertise in aptamer development and functionalization, to co-develop a highly stable, antibody-free version of our sensor within the FAPESP-CDTI funding framework.
  - Specialization in medical data analytics and artificial intelligence, to co-develop the diagnostic algorithm.
- **Other specifications, requirements or comments:** There are no additional requirements or specifications.
- **PROPOSED COLLABORATIVE PROJECT IN R & D:**

The goal of the project is to develop a model that will be integrated into a Clinical Decision Support System (CDSS) for oncologists. To achieve this, we propose combining Diasci's unique biological data, captured through our proprietary sensor, with Spanish expertise in artificial intelligence to create a fully digital diagnostic solution.

Our sensor generates complex electrochemical datasets, and we are seeking a partner capable of applying machine learning techniques to these signals to maximize sensitivity and specificity

### General comments:

- By sending this information authorizing its dissemination.
- Additional information is available at the following link: <https://diasci.com/>