

# **METABOLOMICS AND IMAGING DATA LAB (MIDALAB)**

**MARGARIDA JULIÀ SAPÉ**



## **PROFILE**

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## **RESEARCH**

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### **RESEARCH INTERESTS**

Using metabolomics combined with imaging data to discover diagnostic and prognostic biomarkers for brain diseases.

We focus on magnetic resonance (MR) data analysis, and particularly in magnetic resonance spectroscopy (MRS), alone or in combination with other MR-related imaging modalities, using clinical data from collaborating hospitals and clinical centres or preclinical data.

### **STRATEGIC OBJECTIVES**

Translating of our findings into clinical practice through user-friendly decision-support tools

## **MAIN RESEARCH LINES**

1. Using MRS data to find diagnostic and prognostic biomarkers in brain tumours
2. Applying advanced machine learning tools to in vivo MRS data for:
  - Biomarker discovery
  - Automated quality control
3. Development and testing of user-friendly software tools for clinical use.

## **LAB FEATURED PUBLICATIONS:**

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<https://pubmed.ncbi.nlm.nih.gov/31793715/>

<https://pubmed.ncbi.nlm.nih.gov/26768492/>

<https://pubmed.ncbi.nlm.nih.gov/26552737/>