

# **BRACCO FELLOWSHIPS EDUCATION IN RESEARCH ENROLMENT FORM**

**Name of Institution:** University of Cambridge

**City and Country of Institution:** Cambridge, UK

## **RESEARCH GROUP**

**Our group is interested in developing novel molecular imaging techniques in oncological radiology and translated these into patient imaging. In particular, we are interested in developing tools for metabolic imaging using MRI and PET. The focus of this work is to develop new imaging biomarkers for the detection and stratification of cancer, as well as methods to assess early response of tumours to treatment. We are also interested in validating imaging using tissue samples to understand the biological driver of the imaged signal.**

## **TITLE OF PROPOSED RESEARCH PROJECT**

**Development of metabolic MRI for cancer imaging**

## **OBJECTIVES**

- **To learn about hyperpolarised carbon-13 MRI**
- **To learn about deuterium metabolic imaging**
- **To investigate the role of metabolic MRI in oncological imaging**

## **APPLICANT'S DUTIES**

- **Hands-on participation in on-going metabolic imaging research projects**
- **Analysis of data and comparing imaging with pathology**
- **Preparing presentations and writing up results**

## **APPLICANT'S BENEFITS**

- Learn about translational imaging
- Experience how to undertake translational studies
- Presentations at lab meetings
- Participation in the scientific outcomes of the project e.g. presentations at meetings
- **Project Leader: Prof Ferdia Gallagher**
- **Members: Dr Mary McLean, Dr Josh Kaggie, Dr Joao Duarte, Dr Jonathan Birchall, Dr Andrew Gill, Dr Jim Denholm, Dr Nikita Sushentsev, Dr Abhishek Ashok, Dr Ines Horvat-Menih, Mr Pascal Wodtke**