

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

**Name of Institution:** Fondazione Policlinico Universitario A. Gemelli IRCCS. ARC

(Advanced Radiodiagnostics Centre)

**City and Country of Institution** Rome (Italy)

## **RESEARCH GROUP**

### **Brief description of the research group and of its mission:**

ARC Diagnostic Neuroradiology, Fondazione Policlinico Universitario A. Gemelli IRCCS, has multiple fields of interest encompassing basic and advanced clinical and research areas of both adult and pediatric neuroradiology, with a special focus on oncological imaging research. Our neuro-oncological group is a dedicated multidisciplinary team composed of neuroradiologists, medical researchers, computer scientists and physicists that work closely together to develop and test novel MRI and functional imaging methods, and AI algorithms within the field of clinical oncology.

## **TITLE OF PROPOSED RESEARCH PROJECT**

Novel imaging and AI strategies to boost personalized treatment in neuro-oncology

## **OBJECTIVES**

- To participate in ongoing research projects focused on the key research topics in neuro-oncological imaging
- Specific objectives will be project-dependent; to be determined in consultation with the applicant based on clinical interests and availability

## **APPLICANT'S DUTIES**

- Compilation of study data (clinical and imaging data) from the Radiology department of the NKI
- Supervised interpretation and analysis of study data, including for example development and testing of AI algorithms, image interpretation and segmentation, and statistical analysis
- Contribute to abstract and paper writing.

## **APPLICANT'S BENEFITS**

- Participate (as first author) in abstract presentations at relevant clinical and radiological conferences including ECR (if possible)
- Participate (as co-author) in scientific publication of the study outcomes if applicable
- Attend relevant clinical multidisciplinary team meetings at the ARC and gain in depth knowledge on state-of-the-art neuro-oncologic treatment management.
- Attend relevant research meetings, clinical- and scientific teaching courses at the ARC to broaden (clinical) research skills.

- Project Leader: Prof Simona Gaudino
- Members: Dr Matia Martucci, Dr Rosellina Russo, Dr Carolina Giordano, Dr. Tommaso Verdolotti, Dr Rosalinda Calandrelli, Dr. Chiara Schiarelli, Prof. Alessandro Olivi, Dr GM Della Pepa, Dr Silvia Chiesa, Dr. Luca Boldrini, Konstantinos Zormpas-Petridis PhD