

BRACCO FELLOWSHIPS EDUCATION IN RESEARCH ENROLMENT FORM

Name of Institution: The Netherlands Cancer Institute (NKI); dept. of Radiology

City and Country of Institution: Amsterdam, the Netherlands

RESEARCH GROUP

Brief description of the research group and of its mission:

The renowned oncological imaging research group of the NKI, led by Prof. Regina Beets-Tan, is a dedicated multidisciplinary team composed of radiologists and medical researchers, computer scientists and physicists that work closely together to develop and test novel MRI and functional imaging methods, hybrid imaging approaches, and AI algorithms within the field of clinical oncology. Important research fields of the group include colorectal cancer, immunotherapy, breast cancer, prostate cancer, head-and-neck cancer, peritoneal carcinomatosis, lung cancer and oncological interventional radiology with over 100 articles published on these topics in the past 5 years.

TITLE OF PROPOSED RESEARCH PROJECT

Novel imaging and AI strategies to boost personalized and minimally invasive treatment in oncology

OBJECTIVES

- To participate in ongoing research projects focused on the key research topics in oncological imaging described above
- (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 NKI and gain in depth knowledge on state-of-the-art oncologic treatment management.
- Attend relevant research meetings, clinical- and scientific teaching courses at the NKI to broaden (clinical) research skills

- Project Leader: Prof. Regina Beets-Tan
- Members: Dr. Doenja Lambregts (CRC)
Dr. Monique Maas (CRC)
Dr. Max Lahaye (peritoneal carcinomatosis)
Dr. Stefano Trebeschi (AI and immunotherapy)
Dr. Zuhir Elkarghali (AI and immunotherapy)
Dr. Fernando Gomez-Munoz (interventional radiology)
Dr. Ivo Schoots (Prostate)
Prof. Jonas Castelijns (Head & Neck)
Dr. Ritse Mann (breast)
~~Dr. (lung)~~

