

BRACCO FELLOWSHIPS EDUCATION IN RESEARCH ENROLMENT FORM

Name of Institution Erasmus MC

City and Country of Institution Rotterdam/NL

RESEARCH GROUP

Brief description of the research group and of its mission:

The department of Radiology & Nuclear Medicine has 30 individual research lines, organised within four main research focus areas: biomedical image acquisition & analysis, molecular imaging & therapy, clinical imaging, and imaging in health sciences.

Our mission is to perform world-leading biomedical imaging research across the full breadth of research areas (fundamental, translational, clinical, and epidemiological) and thereby advance disease prediction, precision diagnostics, theranostics, and image-guided therapies. We contribute to both disease prevention in healthy populations and improved diagnosis and treatment strategies in patients by investing in multidisciplinary collaborations, by creating a supportive infrastructure, and by identifying and fostering talent at all levels and areas of expertise.

TITLE OF PROPOSED RESEARCH PROJECT

Participation in ongoing fundamental, translational, clinical or epidemiological imaging studies, including advanced imaging in neuro-oncology, stroke imaging and treatment, assessment of CT technology (including photon counting), evaluation of artificial intelligence in neurological, musculoskeletal and abdominal diseases. More information on specific research lines and projects can be found on:

<https://www.erasmusmc.nl/en/research/departments/radiology-and-nuclear-medicine>

OBJECTIVES

- To learn how to set up a research study in diagnostic or interventional radiology
- To acquire research data
- To understand the various methodologies of analysing and interpreting research data
- To learn how to write a scientific abstract/paper
- To build fruitful collaborations

APPLICANT'S DUTIES

- To write a project proposal for the research to be performed during the fellowship

- To actively participate in all aspects of the research project, including data acquisition, analysis, interpretation
- To participate in all project group meetings for discussion of methodology and findings, as well as connecting to the other group members for future collaborations
- Present final results of the project.

APPLICANT'S BENEFITS

- Obtain experience in an active and well-supported research environment
- Write and potentially publish a scientific abstract/paper
- Build collaborations for future research

- Project Leader: correspondence can be addressed to research.radiology@erasmusmc.nl for the attention of prof. M. Smits (coordinator for the Bracco fellowships)
- Members: principal investigators at the Erasmus MC department of Radiology & Nuclear Medicine