

BRACCO FELLOWSHIPS EDUCATION IN RESEARCH ENROLMENT FORM

Name of Institution:

Medical University of Vienna, Department of Biomedical Imaging and Image guided Therapy; Division of Gender and Molecular Imaging; Head: Prof. Dr. T Helbich

City and Country of Institution: Vienna, Austria

RESEARCH GROUP

We focus on a more accurate cancer characterization through the synthesis of anatomical, functional, and molecular imaging information derived by different biomedical imaging methods. The main mission is to improve and simplify breast cancer diagnosis, moving towards a minimally invasive, personalized breast cancer screening, diagnosis and multidisciplinary management. We developed and optimized several imaging methods spanning the spectrum from mammography up to PET-MRI.

TITLE OF PROPOSED RESEARCH PROJECT

Can Contrast-Enhanced Mammography (CEM) replace Contrast-Enhanced Breast Magnetic Resonance Imaging (bMRI) in the assessment of suspicious breast findings? An intra-individual comparison

OBJECTIVES

- To assess the added value of CEM in the evaluation of equivocal and suspicious breast findings on conventional imaging.
- To intra-individually compare the performance of CEM and bMRI.
- To compare the diagnostic performance of CEM using to different doses of contrast media.

APPLICANT'S DUTIES

- Attend regular research meetings and journal clubs. Get familiar with the current literature.
- Data processing and analyses of several already acquired CEM and bMRI data.
- Presentation of results, manuscript preparation and submission to a research journal. Supervision will be provided in all steps of the project by the PI and Co-PIs.

APPLICANT'S BENEFITS

- Understand the principle of CEM and bMRI.
 - Apply and learn to implement both modalities in clinical practice.
 - Get in-depth understanding in tow promising breast imaging techniques.
 - Learn to manage how to perform large, prospective research studies.
 - Become familiar with clinical research, scientific presentations and research and publications
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- Project Leader: Pascal A.T. Baltzer
 - Members: Thomas H. Helbich, Paola Clauser, Panagiotis Kapetas