

BRACCO FELLOWSHIPS - EDUCATION IN RESEARCH

Project 4:

Evaluation of pulmonary microcirculation in pulmonary hypertension (PH)

NAME OF INSTITUTION: University Center of Lille, Department of Thoracic Imaging, Lille/FRANCE

RESEARCH GROUP AND ITS MISSION:

Our research group is involved in clinical research activities in the field of respiratory diseases. The fields of development are based on dual-source, dual-energy CT technology. Three main topics of clinical research: (1) pulmonary circulation, including pulmonary hypertension, CTEPH; (2) interstitial lung diseases; (3) artificial intelligence.

OBJECTIVES:

- Detection of small-vessel vasculopathy on morphologic images and iodine maps
- Quantification of small-vessel vasculopathy
- Machine-learning results

APPLICANT'S DUTIES:

- Participation in image analysis, result analysis
- Writing of results
- Manuscript preparation

APPLICANT'S BENEFITS:

- Participation on scientific outcomes of the project i.e. presentations to congresses or publications of papers
- Improved knowledge in the pathophysiology of PH
- Improved knowledge in dual-energy imaging

Project Leader: Prof. Martine Remy-Jardin

Members: fellows of the Department of Thoracic Imaging and its research staff; members of the Biostatistics department; pulmonologists and cardiologists