

Cardiology

The cardiovascular research team at Turku PET Centre and Heart Center has vast experience on non-invasive, multi-modality imaging of coronary artery disease and heart failure

Project N. 101126611



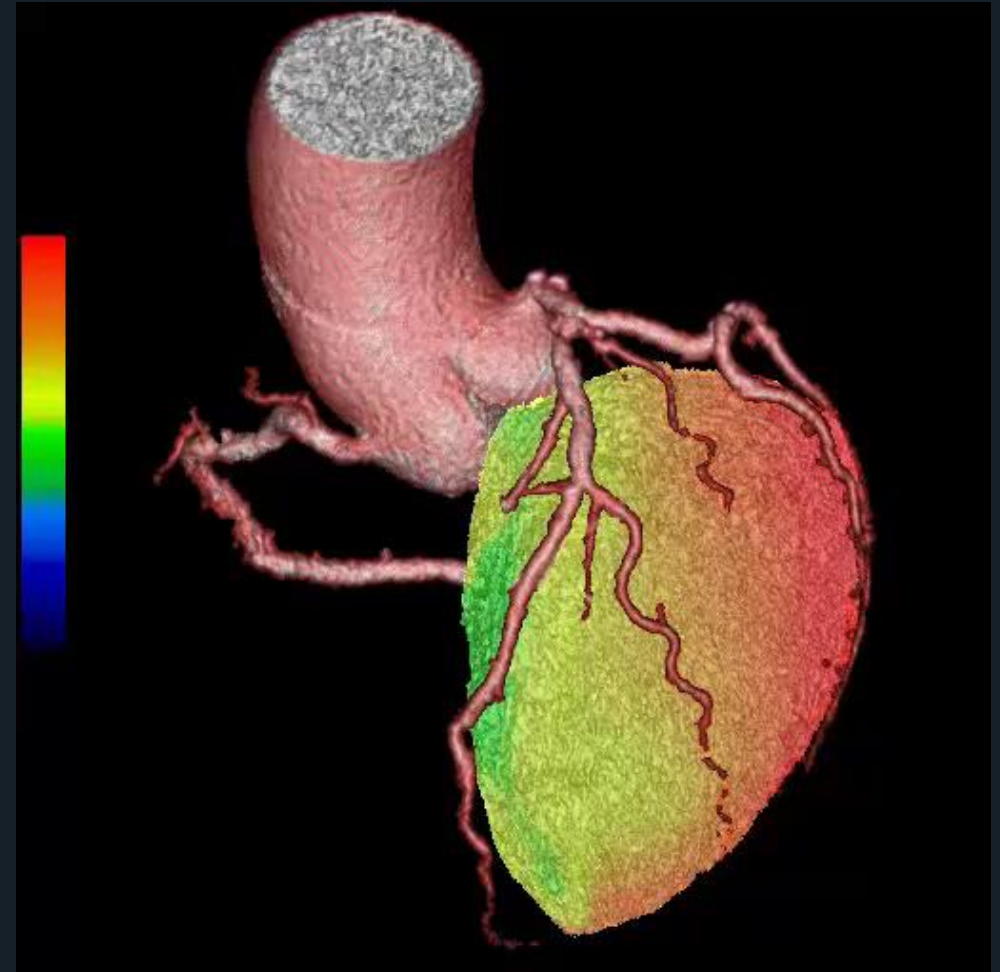
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Advanced imaging in coronary artery disease

- The projects investigate the use of coronary CTA, PET imaging and echocardiography for the detection of non-obstructive and obstructive disease as well as the outcome.
- The research utilize national and international patient cohorts and advanced image analysis including machine learning.



Quantitative Perfusion Imaging with Total-Body PET

- The project aims for non-invasive quantitative total-body perfusion imaging using a very short-living PET tracer, oxygen-15 labelled water.
- The project includes both technological development as well as clinical applications of the method especially in patients with chest pain.



Molecular imaging in heart diseases

- The project aims at experimental and clinical evaluation of new PET probes for molecular imaging of various cardiovascular diseases, such as ischemic heart disease, cardiomyopathies and valvular heart disease
- Imaging targets include angiogenesis ($\alpha_v\beta_3$ integrin), inflammation (Folate receptor beta) and fibrosis (Fibroblast activation protein)

