

PÁL MAUROVICH-HORVAT



Semmelweis University
Faculty of Medicine
Medical Imaging Centre

Address: Korányi Sándor u. 2., H-1082 Budapest, Hungary

RESEARCH AREA

Our research interest focuses on non-invasive cardiovascular imaging to improve cardiovascular risk assessment and clinical outcomes. In addition, the research group conducts research projects aiming to improve diagnostic imaging efficacy using artificial intelligence techniques such as deep learning and radiomics.

TECHNIQUES AVAILABLE IN THE LAB

State of the art clinical imaging equipment (photon-counting CT, 1.5T and 3T MRI machines, X-ray machines, ultrasound, PET/CT and SPECT) and image postprocessing software and hardware tools.

SELECTED PUBLICATIONS

DISCHARGE Trial Group, **Maurovich-Horvat, P.**, Bosserd, M., Kofoed, KF., et al. (2022) CT or Invasive Coronary Angiography in Stable Chest Pain. *N Engl J Med* **386(17)**: 1591-1602.

Drobni, ZD., Kolossvary, M., Karady, J., Jermendy, AL., Tarnoki, AD., Tarnoki, DL., Simon, J., Szilveszter, B., Littvay, L., Voros, S., Jermendy, G., Merkely, B., **Maurovich-Horvat, P.** (2022) Heritability of Coronary Artery Disease: Insights From a Classical Twin Study. *Circ Cardiovasc Imaging* **15(3)**: e013348.

Kolossváry, M., Karády, J., Kikuchi, Y., Ivanov, A., Schlett, CL., Lu MT., Foldyna, B., Merkely, B., Aerts, HJ., Hoffmann, U., **Maurovich-Horvat, P.**, (2019) Radiomics versus Visual and Histogram-based Assessment to Identify Atheromatous Lesions at Coronary CT Angiography: An ex Vivo Study. *Radiology* **293(1)**: 89-96.

Simon, J., Fung, K., Raisi-Estabragh, Z., Aung, N., Khanji, MY., Kolossváry, M., Merkely, B., Munroe, PB., Harvey, NC., Piechnik, SK., Neubauer, S., Petersen, SE., **Maurovich-Horvat, P.** (2022) Light to moderate coffee consumption is associated with lower risk of death: a UK Biobank study. *Eur J Prev Cardiol* **29(6)**: 982-991.