We have developed a Mobile Microscope, MoMic, for point-of-care diagnostics. MoMic allows high resolution imaging, comparable to existing laboratory-based microscopy scanners. The platform is suitable for diverse diagnostic purposes including tissue analytics, cervical PAP smears, intra-operative frozen section analysis, and infectious diseases, mainly parasitic diseases and malaria. MoMic is combined with automated image analysis and pathologists’ remote consultation through wireless connections and uploading the sample images to a cloud server and using artificial intelligence analysis tools in the cloud to speed up interpretation and diagnosis.

Johan Lundin, Principal Investigator
Institute for Molecular Medicine Finland FIMM, University of Helsinki

MoMic delivers diagnostic grade microscopy images for point-of-care applications

Breast Cancer Surgery – Hospital use
1-10 biopsy samples taken during surgery
MoMic: Speed up diagnosis and save cost

Cervical Cancer Screening – Doctor’s office
PAP smears
MoMic: Immediate assessment, improved accuracy

Malaria – Field use
212 M cases globally
MoMic: Improved diagnosis in rural areas

Key Publication