

MedTechLabs

MedTechLabs is an interdisciplinary center for medical technology research that creates new health conditions to provide patients with faster diagnosis and better treatment. The center is run by the Royal Institute of Technology, KTH, Karolinska Institutet, KI, and Stockholm County Council, and will contribute to the development of medical technology in a national and international perspective.

INVITATION

On behalf of the Scientific directors at MedTechLabs, professors **Mats Danielsson**, KTH and **Staffan Holmin**, KI, we are pleased to invite you to an open lecture on **Friday June 15 at 15.00–16.00** with professor **Paul Kinahan** from University of Washington, Seattle.

TITLE

The Future of PET Imaging in Oncology Trials: Technology and Clinical Applications

The ability to assay tumors and the impact of drugs on tumor biology is fundamental to cancer therapy development. Clinical trials that test the safety and therapeutic benefit of promising treatments are essential. Advances in quantitative molecular imaging, particularly positron emission tomography (PET) imaging, have enabled quantitative non-invasive molecular assays. The successful use of quantitative imaging biomarkers requires a clear understanding of the sources of bias and variance, standards, and appropriate use guidelines. These efforts have been facilitated by multiple initiatives, including the SNMMI, EANM, RSNA, QIBA, NIST and others. Combined efforts in these areas makes PET imaging a unique tool for cancer drug development, complementary to traditional assay methods, and a potentially powerful method for guiding targeted therapy in clinical trials and clinical practice.

LECTURER

Paul Kinahan is joint Professor of Radiology and Bioengineering and director of the UW Imaging Research Laboratory. He was part of the group that built the first prototype combined PET/CT scanner and has also contributed to the current class of data processing image reconstruction algorithms used in PET/CT oncology imaging.

VENUE

Nobel Forum, Karolinska Institutet, Nobels väg 1

A sandwich will be served after the lecture.

