

## **SEMINAR SERIES** www.westernuBIRC.ca

## Wednesday, March 13th, 2019; 12:00 pm **Shuttleworth Auditorium** St. Joseph's Health Care

Pizza will be served prior to the seminar

## Prof. dr. Freek Beekman

Biomedical Imaging, Faculty of Applied Sciences **Delft University of Technology, Netherlands** Founder & CEO of MILabs

Title: Broadband Photon Tomography: High Performance Integrated 4x4D PET, SPECT, Optical & X-ray Tomography



Abstract: In preclinical research we have dreamed about a 3D magnifying glass that would allow us to e.g. see various cell functions and structures in a dynamic 4D single scan, and map integrated detailed dynamics of e.g. contrast agents, tracers, pharmaceuticals, receptors and indicators of therapy response in tumours. To meet these and many other imaging needs we developed the user friendly fully integrated VECTor-6 imaging platform (WMIC innovation of the Year 2018) comprising:

A) down to 0.25 mm SPECT & 0.6 mm PET in vivo resolution, with positron-range free PET for otherwise "difficult isotopes" like 124I, 76Br, 86Y, and 82Rb. B) concurrent sub-mm multitracer PET & PET-SPECT C) sub-second dynamic PET & SPECT D) sub-mm resolution imaging of α & β-emitting pharmaceuticals, E) ultra-high performance low dose X-ray CT and F) Cherenkov, Fluorescence & Bioluminescence imaging including optical tomography







PET

**SPECT** 

**Optical** 

CT

- Very high performance modules
- Fully integrated
- Modules can be added later

## **BIRC PARTNERS**



Department of Medical Imaging







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