

Seminar *Translational Spectral and Ultrasonic Research*

In conjunction with the dissertation of Azin Khodaverdi, the Lund University Clinical Center for Spectral and Acoustic Imaging is organizing a research seminar on Translational Spectral and Ultrasonic Research together with LTH's profile areas Engineering Health and Photon Science and Technology.

The seminar highlights how emerging acoustic, optical and multimodal imaging techniques—such as photoacoustic, ultrasound optical tomography, high-frequency ultrasound, and multiphoton microscopy—are opening fresh clinical possibilities, from more precise cancer monitoring to non-invasive tissue characterization.

Date & Time: 11 September 2025 13:15 – 16:15

Venue: Lund University of Technology, Building M, Room M:D

Address: Ole Rømers Road 1 / Klas Anshelm Road 6

Registration link: <https://bme.lth.se/index.php?id=265054>

Program

Time	Session	Speaker
13:15 – 13:20	Welcome	Magnus Cinthio
13:20 – 14:10	Ultrasound and Photoacoustic Imaging for Cancer Therapy Response: Linking Tissue Structure, Oxygenation, and Function	Michael Kolios (Toronto Metropolitan University)
14:10 – 14:30	Multiphoton Laser Scanning Microscopy for Non-invasive Histopathology: Opportunities, Challenges, and Future Directions	Marica Ericson (University of Gothenburg)
14:30 – 15:00	Coffee Break (Fika)	
15:00 – 15:15	Potential Clinical Application of Ultrasound Optical Tomography: Breast Tissue Characterization	Alexander Bengtsson (Lund University)
15:15 – 15:30	Advancing Non-invasive Melanoma Diagnostics with Deep Learning and Multispectral Photoacoustic Imaging	Aboma Merdasa (Lund University)
15:30 – 15:45	High-Frequency Ultrasound as a New Approach to Diagnose Hirschsprung's Disease	Maria Evertsson (Lund University)
15:45 – 16:00	Magnetomotive Ultrasound – From Concept to Clinical Studies	Tomas Jansson (Lund University)
16:00 – 16:15	From Studying Plaques with Ultrasound to Launching a Startup	Tobias Erlöv (Lund University)