

Session Program

8–12 Sept 2026

Forum Acusticum 2026

A13.04 Photoacoustic Imaging and Spectroscopy

Thursday 10 September

08:40

A13.04 Photoacoustic Imaging and Spectroscopy: S093

Session | **Location:** Messe Congress Graz, Saal 3 | **Conveners:**
Nico F. Declercq, Günther Paltauf, Ben T Cox, Robert Nuster, Jan Laufer

08:40–09:00 **Numerical evidence of multiple scattering of photoacoustic waves in blood**

Speaker
Ratan K Saha

09:00–09:20

Hard-Constrained Physics-Embedded Neural Networks for Robust Photoacoustic Image Reconstruction

Speaker
Janek Gröhl

09:20–09:40 **Flexible-Noise Self-Supervised Photoacoustic Image Reconstruction**

Speaker
Markus Haltmeier

09:40–10:00 **Self-Supervised Reconstruction of Masked Full-Field Photoacoustic Projection Data**

Speaker
Markus Haltmeier

10:00–10:20

Estimation of dielectric parameters from ultrasound waves in quantitative thermoacoustic tomography

Speaker
Teemu Sahlström

10:20

09:00

A13.04 Photoacoustic Imaging and Spectroscopy: P497

Session | **Location:** Messe Congress Graz, Messehalle (Poster+Exhibition) | **Conveners:**
Robert Nuster, Ben T Cox, Günther Paltauf, Nico F. Declercq, Jan Laufer

09:00–12:00

Bioengineered extracellular vesicles as next-generation bioinspired optoacoustic contrast agents

Speaker
Vipul Gujrati

09:00–12:00

Optical-resolution photoacoustic microscopy with ultraviolet excitation for label-free imaging of biological tissue

Speaker
Günther Paltauf

12:00

10:40

A13.04 Photoacoustic Imaging and Spectroscopy: S506

Session | **Location:** Messe Congress Graz, Saal 3 | **Conveners:**
Jan Laufer, Ben T Cox, Günther Paltauf, Nico F. Declercq, Robert Nuster

10:40–11:00

Photothermal tuning of ultrasensitive Fabry-Pérot sensors for parallelized PA measurements

Speaker
Thomas Kirchner

11:00–11:20

Fabry-Perot tomograph using a camera-based detection scheme with a continuously adjustable optical magnification for photoacoustic mesoscopy

Speaker
Jan Sievers

11:20–11:40

Developing Highly Sensitive Fused Silica Fabry Perot Ultrasound Sensors for High Resolution Deep Tissue Photoacoustic Imaging

Speaker
Isobel Henderson

11:40

14:40

A13.04 Photoacoustic Imaging and Spectroscopy: S349

Session | **Location:** Messe Congress Graz, Saal 3 | **Conveners:**
Nico F. Declercq, Ben T Cox, Jan Laufer, Günther Paltauf, Robert Nuster

14:40–15:00

From Graft Quality to Organ Repair: Ultrasound and Photoacoustic Imaging in Kidney and Liver Transplantation

Speaker
Eno Hysi

15:00–15:20

High-Resolution, High-Speed OR-PAM Using Fabry-Pérot Sensors and Raman Laser Excitation

Speaker
Lea Steigemann

15:20–15:40

Photoacoustic Microscopy with Camera based Ultrasound Detection

Speaker
Robert Nuster

15:40–16:00

Characterising Skin Tone Effects in Clinical Photoacoustic Imaging

Speaker
Amy Yijie Zheng

16:00