UNIVERSITY OF OXFORD

FUJIFILM VISUALSONICS

FUJIFILM VisualSonics

Enhancing Preclinical Research: Advancements in Ultrasound and Photoacoustic Imaging

Hosted by University of Oxford

Participation is free, please register by emailing:

ying-jie.wang@cardiov.ox.ac.uk

UPCOMING DEMO

Date: Wednesday 10th – Thursday 11th September 2025
Time: 09:00 – 16:30

Location: Centre for Human Genetics, University of Oxford, Roosevelt Dr, Headington, Oxford OX3 7BN

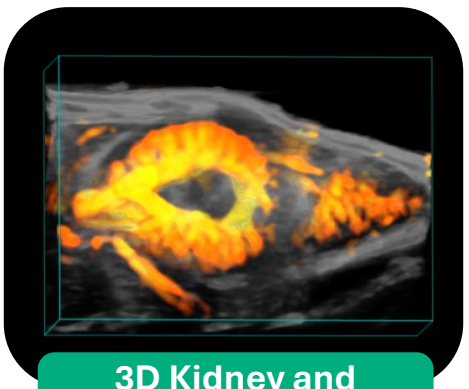
DEMO AGENDA

Wednesday 10th September

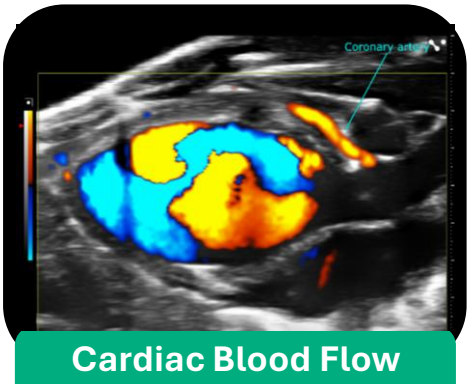
- **Vevo Seminar: Latest and Greatest**
- **Live imaging: Cardiovascular demo on healthy and diseased mice**

Thursday 11th September

- **Live imaging: Abdominal, Elastography demo**
- **Open Imaging Session: Bring your diseased mice for imaging & ask questions!**
- **VevoLAB analysis: Advanced data analysis**



3D Kidney and Spleen Vasculature



Cardiac Blood Flow Dynamics

Liver Stiffness Elastography

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Agenda

Day 1 – Wednesday 10th September 2025

10:00 – 11:30	**KC Park Imaging** Healthy and Atherosclerosis Mice
12:00 – 13:00	**Seminar: Advancements in Ultrasound and Photoacoustic Imaging to Enhance Preclinical Research – FUJIFILM VisualSonics** Latest developments in ultrasound and photoacoustic imaging Cardiovascular, Neurology, Oncology, Molecular imaging etc. Questions and Answers
13:00 – 14:00	**Lunch**
14:00 – 16:30	**Demo session I: Cardiovascular imaging -** *Animal facility* 14:00 – 15:00: System Introduction and Healthy mouse 15:00 – 15:45: Hypertrophic mouse (Ying-Jie) 15:45 – 16:30: Diseased mouse 2 (To book slot contact Ying-Jie) **Example overview of Cardio Imaging:** • Systolic and diastolic function • Aortic Arch • Identification of the LAD and quantification of coronary blood flow velocity • 4D Imaging of the mouse's heart

Agenda

Day 2 – Thursday 11th September 2025

09:00	**Arrival at Institute**
09:15 – 10:45	**Demo Session II: Data Analysis VevoLAB** • New 4D user function to extract 2D images • Strain 2.0: bulls eye map, RV or LA strain, hemodynamic forces
11:00 – 13:15	**Demo session III: Abdominal & Elastography Imaging -** *Animal facility* 11:00 – 11:45: Healthy mouse 11:45 – 12:30: Diseased mouse 1 (To book slot contact Ying-Jie) 12:30 – 13:15: Diseased mouse 2 (To book slot contact Ying-Jie) **Abdominal Overview:** • Anatomical landmarks and main abdominal blood vessels • Other structures: Intestine, Stomach, Pancreas, Spleen, Kidney, Reproductive Organs • Renal artery and vein blood flow quantification • 3D quantification of kidney volume and vascularity
13:15 – 14:15	**Lunch**
14:15 – 16:30	**Demo Session IV: Open Imaging Session –** *Animal Facility* Any questions or wishes of other organs to see: Bookable slots for groups to bring their mice, Contact Ying-Jie: 14:15 – 15:00 15:00 – 15:45 15:45 – 16:30
16:30	End of Demo