

Fundamentals & Applications of TUS

5 - 6 October, 2026

Oxford, UK

DAY
1

- 09:00** Registration & Coffee
- 09:15** Welcome
- 09:30** Lecture I
Introduction to TUS: Physics, Transducers and Measurements
- 10:30** Break & Coffee
- 11:00** Lecture II
Planning for Ultrasound Neuromodulation: Dealing with the Skull
- 11:30** Demonstration I
Maintenance of Equipment and Consistency of Outputs
- 12:15** Lunch
- 13:15** Lecture II
Planning for Ultrasound Neuromodulation: Acoustic Simulations
- 14:00** Demonstration II
Converting MR Images to Density/Pseudo-CT
- 15:00** Break
- 15:30** Interactive Exercise I
Planning Your TUS Target and Trajectory
Acoustic and Thermal Stimulation
Modelling
- 18:00** Dinner

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**DAY
2**

- 09:00** **Coffee & Arrival**
- 09:15** **Lecture III**
Biomechanisms, Effects, and Safety
Practicalities of Running an Effective TUS Study
- 10:15** **Break**
- 10:45** **Lecture IV: Standardised Reporting**
- 11:00** **Demonstration & Interactive Exercise**
TUS Coupling
Targeting with Neuronavigation System
- 12:30** **Lunch**
We encourage the participants to think about a study they'd want to do & prepare a small pitch for the following session.
- 13:30** **3-minute Pitches in Small Groups**
- 14:00** **Lecture V: Confounds & Control**
- 14:30** **Lecture VI: Acute/Online Effects with TUS**
- 15:00** **Break**
- 15:30** **Lecture VII: Offline TUS**
- 16:00** **Lecture VIII: Clinical Applications**
- 16:30** **Q&A / Breakout Groups**
- 17:30** **Recap & Workshop Adjournment**