

Winter school on Therapeutics Ultrasound – March 9-14, 2025

PREVISIONAL PROGRAM

DATE	TIME	LECTURER	TITLE
Sunday	<i>From 3.00 pm</i>	<i>Arrival – Room keys</i>	
	7.15 – 7.30 pm	J.F. Aubry, G. ter Haar, V. Khokhlova	Welcome (in the conference room)
	7.30 pm	<i>Dinner</i>	
Monday	8.45 – 9.15 am	J.F. Aubry, G. ter Haar, V. Khokhlova	Overview & Introduction
	9.15 – 10.00	TBD	Acoustic propagation – soft tissue
	10.00 – 10.45	TBD	Focusing ultrasound in complex media
	10.45 – 11.00	<i>Coffee/tea</i>	
	11.00 – 11.30	TBD	Biophysics: heating, thermometry
	11.30 – 12.15	TBD	Biophysics: cavitation
	12.30	<i>Lunch</i>	
	4.00 pm	<i>Coffee/tea</i>	
	4.30 – 5.30	TBD	Basics of MR imaging and monitoring and beyond
	5.30 – 6.30	TBD	Basics of US imaging and monitoring and beyond
	7.00	<i>Welcome drink and dinner</i>	
Tuesday	9.00 – 9.45 am	TBD	Ultrasound transducers
	9.45 – 10.30	TBD	Thermal biology, thermal dose, cavitation dose
	10.30 – 11.00	<i>Coffee/tea</i>	
	11.00 – 11.45	TBD	Tumour microenvironment & physiology
	11.45 – 12.15	TBD	Histology for therapeutic ultrasound
	12.30	<i>Lunch</i>	
	5.00 pm	<i>Coffee/tea</i>	
	5.30 – 6.15	TBD	Physics of combined therapies
	6.15 – 6.45	TBD	Hyperthermia & chemo/radiotherapy
	Evening	<i>Glühwein lecture</i>	
Wednesday	9.00 – 9.30 am	TBD	Ultrasonic neurosurgery
	9.30 – 10.00	TBD	Neuromodulation: preclinical and technical
	10.00 – 10.30	TBD	Neuromodulation for psychiatric disorders
	10.30 – 10.45	<i>Coffee/tea</i>	
	10.45 – 11.30	TBD	Sonodynamic therapy
	11.45 – 12.15	TBD	Ultrasound mediated drug delivery
	12.30	<i>Lunch</i>	
	5.15 pm	<i>Coffee/tea</i>	
	5.30 – 6.15	TBD	State-of-the-art rival technologies
	6.15 – 7.00	TBD	Innovation and clinical transfer
	7.00	<i>Dinner</i>	
Thursday	9.00 – 9.45		Histotripsy
	9.45 – 10.30		Current applications in oncology
	10.30 – 11.00	<i>Coffee/tea</i>	
	11.00 – 11.45		Gene therapy
	12.30	<i>Lunch</i>	
	4.00 pm	<i>Coffee/tea</i>	
	4.15 – 7.00	Students presentations	
	Evening	<i>(Table) football world cup</i>	
Friday	8.45 – 9.00 am	<i>Vacate your room and leave your luggage in the main building.</i>	
	9.00 – 9.45	TBD	Calibration & field characterization
	9.45 – 10.30	TBD	Experimental design: getting the physics right
	10.30 – 11.00	<i>Coffee/tea</i>	
	11.00 – 11.45		The state of field
	11.45 – 12.00	Closing	
	12:30	<i>Lunch and departure</i>	