

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

DATE	TIME	LECTURER	TITLE
Sunday	From 3.00 pm	Arrival – Room keys	
	7.15 – 7.30 pm	J.F. Aubry, G. ter Haar, V. Khokhlova	Welcome (in the conference room)
	7.30 pm	Dinner	
Monday	8.45 – 9.15 am	J.F. Aubry, G. ter Haar, V. Khokhlova	Overview & Introduction
	9.15 – 10.00	Maxime LAFOND	Acoustic propagation – soft tissue
	10.00 – 10.45	Jean-François AUBRY	Focusing ultrasound in complex media
	10.45 – 11.00	Coffee/tea	
	11.00 – 11.30	Ian RIVENS	Biophysics: heating, thermometry
	11.30 – 12.15	Tim LEIGHTON	Biophysics: cavitation
	12.30	Lunch	
	4.00 pm	Coffee/tea	
	4.30 – 5.30	Florian STEINMEYER	Basics of MR imaging and monitoring and beyond
5.30 – 6.30	Peter KACZKOWSKI	Basics of US imaging and monitoring and beyond	
	7.00	Welcome drink and dinner	
Tuesday	9.00 – 9.45 am	Etienne COFFY	Ultrasound transducers
	9.45 – 10.30	Holger GRUELL	Thermal biology, thermal dose, cavitation dose
	10.30 – 11.00	Coffee/tea	
	11.00 – 11.45	Elizabeth REPASKY	Tumour microenvironment & physiology
	11.45 – 12.15	Gail TER HAAR	Histology for therapeutic ultrasound
	12.30	Lunch	
	5.00 pm	Coffee/tea	
	5.30 – 6.15	Larry CRUM	Interaction of ultrasound with blood – From hemostasis to thrombolysis
	6.15 – 6.45	Holger GRUELL	Hyperthermia & chemo/radiotherapy
	Evening	Glühwein lecture – Holger GRUELL: Clinical trial design Do's and Don'ts	
Wednesday	9.00 – 9.30 am	Marc GALLAY	Ultrasonic neurosurgery
	9.30 – 10.00	Jean-François AUBRY	Neuromodulation: preclinical and technical
	10.00 – 10.30	David ATTALI	Neuromodulation for psychiatric disorders
	10.30 – 10.45	Coffee/tea	
	10.45 – 11.30	Francesco PRADA	Sonodynamic therapy
	11.45 – 12.15	Holger GRUELL	Ultrasound mediated drug delivery
	12.30	Lunch	
	5.15 pm	Coffee/tea	
	5.30 – 6.15	Emma HARRIS	State-of-the-art rival technologies
6.15 – 7.00	Arik HANANEL	Innovation and clinical transfer	
	7.00	Dinner	
Thursday	9.00 – 9.45	Vera KHOKHLOVA	Histotripsy
	9.45 – 10.30	Joan VIDAL	Current applications in oncology
	10.30 – 11.00	Coffee/tea	
	11.00 – 11.45	Françoise PIGUET	Gene therapy
	12.30	Lunch	
	4.00 pm	Coffee/tea	
	4.15 – 7.00	Students presentations	
	Evening	(Table) football world cup	
day	8.45 – 9.00 am	Vacate your room and leave your luggage in the main building.	
	9.00 – 9.45	Oleg SAPOZHNIKOV	Calibration & field characterization
	9.45 – 10.30	Gail TER HAAR	Experimental design: getting the physics right
	10.30 – 11.00	Coffee/tea	
	11.00 – 11.45	Emily WHITE	The state of field
	11.45 – 12.00	Closing	
	12:30	Lunch and departure	