

6th ECMP 2026

European Congress of Medical Physics

23-26 September 2026 | Valencia | Spain



Diagnostic and Therapeutic Ultrasound: Physics, Techniques and Clinical Applications

September 23, 2026 | Valencia, Spain

Course Description

Ultrasound is one of the most widely used imaging modalities in medicine due to its safety, portability, and low cost.

This one-day course will provide a comprehensive overview of both diagnostic and therapeutic ultrasound applications, focusing on the underlying physics, technical innovations, safety aspects, and emerging clinical uses.

Learning Objectives

By the end of this course, participants will be able to:

- Understand the fundamental principles of diagnostic and therapeutic ultrasound
- Identify key innovations in image acquisition and processing
- Recognize the role of ultrasound in non-invasive therapies
- Evaluate quality and safety considerations in clinical practice
- Discuss the potential of emerging technologies and applications

Faculty

- » **Ioannis Tsougos** | University of Thessaly & King's College London
- » **Christian Kollmann** | Center for Medical Physics and Biomedical Engineering, Medical University of Vienna
- » **Noé Jiménez** | Instituto de Instrumentación para Imagen Molecular (i3M) - Spanish Research Council (CSIC)
- » **Elisa Konofagou** | Biomedical Engineering, Columbia University

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Timetable

	TITLE	LECTURE
9.00–9.30	THE ROLE OF ULTRASOUND ACROSS THE DIAGNOSTIC–THERAPEUTIC SPECTRUM	Ioannis Tsougos
9.30–10.30	PHYSICS AND TECHNOLOGY OF DIAGNOSTIC ULTRASOUND	Christian Kollmann
10.30–11.00	COFFEE BREAK – AVAILABLE AT PARTICIPANTS EXPENSE IN THE CONGRESS VENUE	
11.00–12.15	ADVANCED TECHNIQUES IN DIAGNOSTIC ULTRASOUND	Noé Jiménez
12.15–13.30	LUNCH BREAK – AVAILABLE AT PARTICIPANTS EXPENSE IN THE CONGRESS VENUE	
13.30–14.45	THERAPEUTIC ULTRASOUND: MECHANISMS AND TECHNOLOGIES	Elisa Konofagou
14.45–15.15	COFFEE BREAK – AVAILABLE AT PARTICIPANTS EXPENSE IN THE CONGRESS VENUE	
15.15–16.15	QUALITY ASSURANCE IN DIAGNOSTIC AND THERAPEUTIC ULTRASOUND	Christian Kollmann

Further information

	Course language	English
	Level	MPE - Level 8
	Maximum no. of participants	80
	Duration	23 rd September 2026
	Study load	6 hours of lectures and discussions
	CPD Points	Points to be confirmed (EBAMP Accreditation and Spanish certification (EVES))

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