8th European Symposium On Focused Ultrasound Therapy
1st Vienna Clinical Brain-FUS Symposium

VIENNA
April 9-10 2026

www.eufus.org

VIENNA, Frankgasse 8
Billrothhaus
APRIL 9-10
2026

8th European Symposium of EUFUS

PROGRAM

Focused Ultrasound of the Brain

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Roland Beisteiner
Foto: © feelimage/Felicitas Matern

Michael Mitterwallner
Foto: © feelimage/Felicitas Matern

Andreas Melzer
Foto: © University of Dundee

Christine Melzer

Welcome

Vienna—renowned for its elegance, culture, and scientific heritage—hosts our congress in the historic Billrothhaus, home of the venerable Society of Physicians in Vienna. This landmark venue, where generations of physicians advanced medical knowledge, provides an inspiring background for the advancement of therapeutic ultrasound of the brain.
This year's program will bring together clinicians, scientists, engineers, and industry partners from around the world to share the latest advances, exchange ideas, and shape the future of patient care. Topics will include:

- **Clinical Ultrasound Neuromodulation:** Dementia, Parkinson's disease, depression, pain, epilepsy, psychiatric disorders, and more
- **Clinical Ultrasound Blood–Brain Barrier Opening:** Brain gene and cell therapy, brain tumors, Alzheimer's disease, and related applications
- **Clinical Ultrasound Ablation:** Essential tremor, Parkinson's disease, and other neurological conditions
- **Novel Focused Ultrasound Approaches:** Emerging preclinical and clinical research and innovative applications

Whether you seek state-of-the-art research, practical insights, or new collaborations, the congress offers a focused international platform to connect and drive innovation.
We look forward to welcoming all participants to Vienna and to an engaging and stimulating meeting at the Billrothhaus.

Program

THURSDAY, APRIL 9th, 2026

9:00–9:30
Opening 8th EUFUS Symposium
Andreas Melzer (Leipzig, DE),
Roland Beisteiner (Vienna, AT)

9:30–10:50
Clinical Ultrasound Neuromodulation
Chair: Roland Beisteiner (Vienna, AT),
Jan Kubanek (St. Louis, US)

Overview, Advances and Demands in Clinical Ultrasound Neuromodulation
Eva Matt, Roland Beisteiner (Vienna, AT)

Clinical Ultrasound Neuromodulation in Movement Disorders
Robert Chen (Toronto, CA)

Clinical Ultrasound Neuromodulation in Psychiatric Disorders
Jan Kubanek (St. Louis, US)

Confounds in Clinical Ultrasound Neuromodulation
Michael Mitterwallner (Vienna, AT)

10:50–11:10 Coffee Break

11:10–12:30
Safety in Clinical Focused Ultrasound
Chair: Daniel Razansky (Zurich, CH)

Clinical safety in relation to different ultrasound technologies
Daniel Razansky (Zurich, CH)

Biophysical Safety of Ultrasound Neuromodulation
Elly Martin (London, UK)

Regulatory Issues with Focused Ultrasound
Steffen Tretbar (Sulzbach, DE)

Questions / Answers Safety in Clinical Focused Ultrasound

12:30–13:30 Local Lunch (Poster / Exhibit Presentations)

13:30–14:50
Ultrasound Neuromodulation: Cellular, Imaging and Physical Markers
Chair: Robert Chen (Toronto, CA)

Cellular Mechanisms of ultrasound neuromodulation
Ivan Suarez, Apoutou N'Djin (Lyon, FR)

Transcranial ultrasound neuromodulation: Insights from non-human primates imaging studies
Jerome Sallet (Lyon, FR | Oxford, UK)

Quantification of acoustic pressure in the brain
Elly Martin (London, UK)

Low-intensity focused ultrasound of the human amygdala reveals a causal role in emotional processing
Miruna Rascu, Miriam Klein-Flügge (Oxford, UK)

14:50–15:10 Coffee Break

15:10–15:45
Sonodynamic Therapy
Chair: Richard Wakefield (London, UK)

Developing Sonodynamic Therapy Trials for Glioblastoma
Richard Wakefield (London, UK)

Need for consensus sonication parameters for treatment of glioblastoma with sonodynamic therapy
Kismet Hossain-Ibrahim (Dundee, UK)
Shayan Moosa (Charlottesville, US)

Questions / Answers Sonodynamic Therapy

15:45–16:30
Mixed Oral Contributions
Participant Presentations

19:00–22:00
Traditional Viennese Dinner and Schrammel-Music
Heurigenabend, Pfarrplatz 2, 1190 Wien,
Buffet opens 7 pm

Posters will be presented from April 9th, 8am to April 10th 5pm. Poster/Exhibit presentations during lunch time. Individual discussions are possible throughout the complete Symposium time.

Program

FRIDAY, APRIL 10th, 2026

9:00–10:30
State and Clinical Future of FUS Ablation / Blood Brain Barrier Opening
Chair: Andres Lozano (Toronto, CA)

Overview and advances in HIFU Ablation
Andres Lozano (Toronto, CA)

Overview and advances in BBBO
Nir Lipsman (Toronto, CA)

HIFU for movement Disorders
Raul Martinez (Barcelona, ES)

HIFU for psychiatric disorders
Guillem Lera-Calatayud (Valencia, ES)

10:30–10:50 Coffee Break

10:50–12:00
Challenges and Opportunities in Establishing a HIFU Program in an Academic European Center
Chair: Gregor Kasprian (Vienna, AT)

"Starting to Walk" – initial steps and challenges in guiding a HIFU center
Neurology: Christoph Brücke (Vienna, AT)
Radiology: Philipp Moser (Vienna, AT)
Neurosurgery: Klaus Novak (Vienna, AT)

"Starting to Run" – implementing HIFU as a routine tool in clinics
Lennart Stieglitz (Zurich, CH)

Questions / Answers

12:00–13:00 Local Lunch (Poster / Exhibit Presentations)

13:00–14:00
Novel Focused Ultrasound Approaches
Chair: Kullervo Hynynen (Toronto, CA)

Fully electronically steered ultrasound transmit receive array for clinical brain treatments
Kullervo Hynynen (Toronto, CA)

Miniaturized Focused Ultrasound Microchips for Minimally-Invasive Treatments of Brain Disorders
Tiago L. Costa (Delft, NL)

Non-invasive Histotripsy Brain treatment
Zhen Xu (Ann Arbor, US)

14:00–14:20 Coffee Break

14:20–16:00
Mixed Oral Contributions
Chair: Nir Lipsman (Toronto, CA)

Sonodynamic therapy in newly diagnosed glioblastoma
Francesco Prada (Milan, IT)

Independent Funding and Expert Review for European Research
Pascale Broks, FUSF Europe (Amersfoort, NL)

Farewell
Andreas Melzer (Leipzig, DE)

16:00–17:00
General Assembly EUFUS

Contact

Organizers and Carrier of the scientific program

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Website
More detailed information is available on the website: **eufus.org**

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