



EUFUS 2017

4th European symposium on focused ultrasound therapy

October 26 – 27, 2017 | Leipzig (Germany)

Program Committee (in alphabetical order): Thomas Andreae, Wladyslaw Gedroyc, Holger Gröll, Anja Kleber, Thomas Kahn, Lisa Landgraf, Matthias Matzko, Peter Medina, Andreas Melzer, Alessandro Napoli, Pamela Schwartz, Steffen Tretbar, TBC

EUFUS 2017 | Main Conference

Thursday – October 26, 2017

Venue: Salles de Pologne – Hôtel de Pologne, Hainstraße 18, 04109 Leipzig

7.30 Registration Opens at Salles de Pologne
Coffee and Tea

8.15 – 9.00 OPENING SESSION
Opening remarks: Andreas Melzer, Matthias Matzko, Alessandro Napoli and Wady Gedroyc

8.30 – 9.00 2nd EUFUS Ferenc Jolesz, Memorial Lecture
Introduction by Claire Tempany, Boston, MA, USA TBC
Challenges of MR guided Interventions, Surgery and FUS
speaker: Wady Gedroyc (London, UK)

9.00 – 9.30 Industry hot topics | Speed Session 3 min. + 2 min. discussion

Product developments of ArcBlate - a MRI guided HIFU system and its potential for abdominal applications	Jimmy Chang (EpiSonica)
Remote control of the MR scanner for HIFU applications with the novel Access-i interface	Arne Hengerer (Siemens)
Profound Medical and Philips Sonalleve, the way forward (TBC)	Thomas Andreae (Profound)
The Road to 1 Million Patients	Debra Emanuel (INSIGHTTEC)

9.30 – 10.00 Coffee Break at Industry Exhibition

CLINICAL SESSIONS

Organ Panels

10.00 – 12.00 Uterus Panel Chaired by: Roberto Blanco & Tomasz Lozinski TBC		
Time 12 min. + 3 min.	Topic	Speakers
10.00	Keynote: MRgFUS What can go wrong? How to avoid complications	Matthias Matzko (Dachau, Germany)
10.15	MRgHIFU results: Uterus	Roberto Blanco (Turku, Finland)
10.30	MRgHIFU results: Uterus	Tomasz Lozinski (Rzeszów, Poland)
10.45	MRgFUS results and update on pregnancy registry	Jaron Rabinovici (Tel Aviv, Israel)
11.00	MR guided FUS with an new platform independent system, initial experiences	Kai-Wen Huang (Taipei, Taiwan)
Speed Scientific Presentations (3 min. + 2 min. discussion)		
11.10	Artifact from Myomectomy scars on MRI images-What does this mean for MRgFUS candidacy for Uterine Fibroids? (abstract 43)	Suzanne LeBlang (Boca Raton, USA) TBC
11.15	Clinical evaluation of uterine fibroids tissue using multi-parametric MRI sequences (abstract 19)	Inez Verpalen (Zwolle, The Netherlands) TBC
11.20	Uterine fibroids: apparent diffusion coefficient as a biomarker for monitoring the success of high-intensity focused ultrasound therapy (abstract 46)	Teija Sainio (Turku, Finland) TBC
11.25	Comparison of effects of radiofrequency ablation vs high intensity focused ultrasound on uterus fibroid (abstract 49)	Xiaodong Zhou (Xian Shi, China) TBC
11.30	Effects of High intensity focused ultrasound plus radiofrequency on large uterus fibroid (abstract 48)	Liwen Liu (Xian Shi, China) TBC
11.35	Factors improving efficiency during HIFU of Uterine Fibroids (abstract 20)	Tomasz Lozinski (Rzeszów, Poland) TBC
11.40	Efficiency of uterine fibroid treatment with HIFU according to vascularity of fibroid (abstract 21)	Tomasz Lozinski (Rzeszów, Poland) TBC
11.45	Therapeutic Effects of Ultrasound-guided Radiofrequency Ablation on Adenomyosis (abstract 47)	Wen Luo (Xian Shi, China) TBC
Special topic Imaging Robotics for FUS/HiFU (3 min. + 2 min. discussion)		
11.50	MR-guided focused ultrasound robots for pre-clinical use (abstract 1)	Christakis Damianou (Limassol, Cyprus) TBC
11.55	Set up of PET MR compatible Robotics. (abstract 33)	Michael Unger (Leipzig, Germany)

12.00 – 13.30

Lunch Break at Industry Exhibition and Poster viewing

13.30 – 15.30 Musculoskeletal Panel		
Chaired by: Markus Dux & Karun Sharma TBC		
Time	Topics	Speakers
13.30	<i>Face to face dispute</i> Osteoid Osteoma (OO) 10 min each and 5 minutes conclusion	Alessandro Napoli (Rome, Italy) vs. Christopher Trumm (Munich, Germany)
13.55	Keynote I: OO, Desmoid and other MS Tumors (MRgFUS)	Pejman Ghanouni (San Francisco, USA)
14.10	Keynote II: OO, Desmoid and other MS Tumors (MRHiFU)	Karun Sharma (Washington, USA)
14.25 (8 min. + 2 min.)	Facet joints and bone lesions	Markus Dux (Frankfurt, Germany)
14.35 (8 min. + 2 min.)	Bone Mets and other bone lesions	Alberto Bazzocchi (Bologna, Italy) and Francesco Arrigoni (L'Aquila, Italy)
Speed Scientific Presentations (3 min. + 2 min. discussion)		
14.45	Targetability of osteoid osteoma and bone metastases by MR-Guided High Intensity Focused Ultrasound (MRgHIFU): A feasibility study (abstract 16)	Fabrice Bing (Strasbourg, France) TBC
14.50	Low intensity ultrasound increases the lifespan of mesenchymal stromal cell transplants in skeletal muscle (abstract 36)	Scott Burks (Bethesda, USA) TBC
14.55	In vivo measurements of MBN depth for focused ultrasound ablation of patients with facet related back pain: predictors for patient candidacy (abstract 42)	Suzanne LeBlang (Boca Raton, USA) TBC
15.00	Mechanical focused ultrasound forces directly activate TRPC1 cation channels in murine kidney and skeletal muscle to enhance stem cell homing (abstract 41)	Matthew Nagle (Bethesda, USA) TBC
15.05	Development of 3D-printed Anthropomorphic Bone Phantoms as Training Aids for MRI guided HIFU (MRgHIFU) (abstract 26)	Daniel Butler (London, UK) TBC
15.10	New Patented FUS Amplitude Modulation Technique for Tissue Ablation by Acoustic Cavitation (abstract 7)	Fares Mayia (Riyadh , Saudi Arabia) TBC
15.15	Hot topic TBC	
15.20 – 15.30 Hot Topic: Heart (8 min. + 2min. discussion)		
Peak Negative Pressure (PNP)-dependent molecular and pathologic responses of rat myocardium by pulsed focused ultrasound (abstract 38)		Kee Jang (Bethesda, USA) TBC

15.30 – 16.05 Coffee Break at Industry Exhibition

16.05 – 17.15 Prostate Panel		
Chaired by: Jens-Uwe Stolzenburg & Behfar Ehdaie TBC		
Time	Topics	Speakers
16.05	Keynote: Treatment of Prostate Cancer, State of the Art and new concepts	Jens-Uwe Stolzenburg (Leipzig, Germany)
16.20	Keynote: Comparison of HIFU methods	Roman Ganzer (Bad Tölz, Germany)
16.35 (12 min. + 3 min.)	MR guided Transurethral US	David Bonekamp (Heidelberg, Germany)
16.50 (12 min. + 3 min.)	MR guided Transrectal FUS	Behfar Ehdaie (New York, USA)
	Hot Topics	

17.15 – 18.30 EUFUS General Assembly		
Proposals and Decisions for next meetings 2019 & 2021 and board elections		

19.30 Dinner at “Gondwanaland, ZOO Leipzig”

more information: <http://www.eufus.org/2017events/>

Fees TBC

EUFUS 2017 | Main Conference

Friday – October 27, 2017

Venue: Salles de Pologne – Hôtel de Pologne, Hainstraße 18, 04109 Leipzig

8.00 – 10.10 Brain Panel		
Chaired by: Wady Gedroyc & Jürgen Götz TBC		
Time	Topics	Speakers
8.00	Short Keynote I: DBS or MRgFUS? The neurologist view	Gioacchino Tedeschi (Naples, Italy)
8.10	Short Keynote II: The neurosurgeons view	Jordi Rumià (Barcelona, Spain)
8.20 (8 min. + 2 min.)	MRgFUS results UK	Dipankar Nandi (London, UK)
8.40 (8 min. + 2 min.)	MRgFUS results Israel	Menashe Zaaroor (Haifa, Israel)
9.00 (8 min. + 2 min.)	MRgFUS results Spain	Marta del Alamo (Madrid, Spain)
9.10 (8 min. + 2 min.)	MRgFUS results Italy	Cesare Gagliardo (Palermo, Italy)

Speed Scientific Presentations (3 min. + 2 min. discussion)		
9.20	Hot topic: Scanning ultrasound as a novel treatment modality for Alzheimer's disease (abstract 5)	Jürgen Götz (Brisbane, Australia) TBC
9.25	Early Experience of Epilepsy with MRgFUS Treatment (abstract 13)	Toshio Yamaguchi (Kawasaki, Japan) TBC
9.30	Multiple courses of BBB opening with pulsed Focused Ultrasound and Microbubbles promotes phosphorylated Tau production (abstract 37)	Zsofia Kovacs (Bethesda, USA) TBC
9.35	Closed-loop Cavitation Control for Safe FUS-mediated Targeted Drug Delivery in Mouse Brain (abstract 10)	Beat Werner (Zurich, Switzerland) TBC
9.40	Bisphosphonate could improve skull density ratio of MRgFUS candidates (abstract 23)	Hisashi Ito (Fujisawa, Japan) TBC
9.45	Statistical shape model based targeting for MR-guided focused ultrasound neurosurgery (abstract 35)	Andras Jakab (Zurich, Switzerland) TBC
9.50	Focusing precision and lesion size in cerebello-thalamo-tractotomy by MR Imaging-Guided High Intensity Focused Ultrasound (MRgFUS) (abstract 31)	Ronald Bauer (St. Gallen, Switzerland) TBC
9.55	Proposal of a new Glioblastoma therapy by deploying the synergy between heat and radiations (abstract 18)	Giovanni Borasi (Milano, Italy) TBC
10.00	An in vitro study of ultrasound-induced hyperthermia combined with radiation therapy for glioblastoma cells (abstract 34)	Xinrui Zhang (Leipzig, Germany) TBC

10.05 – 10.30 Coffee Break at Industry Exhibition

10.30 – 10.45 SPECIAL LECTURE

Neuromodulation: State of the art, is there any space for FUS/HIFU?

speaker: Arno Villringer, Max Planck Institute for Neurocognitive Science (Leipzig, Germany)

10.45 – 11.00 SPECIAL LECTURE

Overview of current Ultrasound induced Neurostimulation Methods

speaker: Jean-Francois Aubry, Institute Langevin (Paris, France)

11.00 – 12.00 Breast Cancer and Benign Lesions		
Chaired by: Chrit Moonen & David Brenin TBC		
Time	Topics	Speakers
11.00	Keynote: State of the art and research FUS/HIFU in Breast Cancer	Chrit Moonen (Utrecht, The Netherlands) (ISTU)
11.15	Thyroid adenoma	Christian Vorländer (Frankfurt/Main, Germany) TBC
11.25 (8 min. + 2 min.)	Breast Fibroadenoma	Markus Hahn (Tübingen, Germany)
11.35 (8 min. + 2 min.)	US-guided HIFU of breast fibroadenoma - a perspective for long-term disease control	Roussanka Kovatcheva (Sofia, Bulgaria)
Speed Scientific Presentations (3 min. + 2 min. discussion)		
11.45	Ultrasound Guided High Intensity Focused Ultrasound Ablation of Breast Fibroadenoma: Early Report from the United States Pilot Study (abstract 2)	David Brenin (Charlottesville, USA)
11.50	Volume reduction after circumferential High Intensity Focused Ultrasound of breast fibroadenoma (abstract 32)	Mirjam Peek (London, UK) TBC
11.55	Hot topic	

12.00 – 13.00 Lunch Break at Industry Exhibition

13.00 – 14.15 Abdomen Panel		
Chaired by: Joan Vidal-Jové & Thomas Vogl		
Time	Topics	Speakers
13.00	Short Keynote: What is needed for FUS/HiFU to compete with existing image guided techniques?	Thomas Vogl (Frankfurt/Main, Germany) TBC
13.10	Short Keynote: MR-guided FUS/HiFU of Abdominal Organs	Wady Gedroyc (London, UK)
13.20 (8 min. + 2 min.)	Technology update: FUS/HiFU on moving organs	Chrit Moonen ISTU
13.30 (8 min. + 2 min.)	Novel Technology for Liver MRgFUS TransFusimo EU FP7 Project	Tobias Preusser (Bremen, Germany) for the Consortium
13.40	Short Keynote: Treatment Options of Ultrasound guided FUS/HIFU for Pancreatic Cancer and Liver Cancer, 7 year follow up. (abstracts 28, 29)	Joan Vidal-Jové (Barcelona, Spain)

Speed Scientific Presentations (3 min. + 2 min. discussion)		
13.50	An experimental demonstration of HIFU self-scanning treatment in moving tissue (abstract 11)	Orane Lorton (Geneva, Switzerland) TBC
13.55	Magnetic Resonance guided High Intensity Focused Ultrasound (MRgHIFU) treatment planning of abdominal neuroblastoma utilizing diagnostic 3D CT images – a retrospective analysis (abstract 15)	Stephanie Tung (Toronto, Canada) TBC
14.00	Cavitation threshold in murine model of pancreatic cancer (abstract 50)	Lorenzo Francesco Guiliani (Rome, Italy) TBC
14.05	3D ultrasound based motion tracking with MR-thermometry (abstract 45)	Pierre Bour (Bordeaux, France) TBC
14.10	In silico First-stage Evaluation of a Focused Ultrasound Treatment System for Moving Targets (abstract 44)	Michael Schwenke (Bremen, Germany) TBC
14.15	Translation of Research for MR guided Focused Ultrasound Application for Moving Target Tumor Ablation in Abdominal Area: Coil Selection Criteria (abstract 3)	Andreas Melzer (Leipzig, Germany) TBC

14.20 – 14.45	SPECIAL LECTURE Where are we with FUS/HIFU mediated Drug Delivery? speaker: Edwin Heijman, University Cologne, Germany
14.45 – 15.05	EUFUS Horizon Lecture I Hot topic: Focused Ultrasound Immunotherapy speaker: Gosse J. Adema (Nijmegen, The Netherlands)
15.05 – 15.15	Selected Abstract Pulsed Focused Ultrasound Modulation of Tumor Microenvironments: Implications for Immunotherapy. (abstract 9) speaker: Omer Aydin (Michigan, USA) TBC

15.15 – 15.45 Coffee Break at Industry Exhibition

15.45 – 17.00	Special Focus Session EU FP7 project IPACT (Image guided Pancreatic Cancer Therapy) Organised by Holger Gröll for the IPACT Consortium Room: TBC
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15.45 – 17.00 Reimbursement, clinical trial and registry Discussion Panel Chaired by: Thomas Kahn & Jaron Rabinovici TBC		
Time	Topics	Speakers
15.45 (8 min. + 2 min.)	Germany: Status of current GBA Study on Uterus applications Germany, Launch (§137e MR-HIFU Uterusmyome)	Michael Weisser (Lörrach, Germany)
15.55 (8 min. + 2 min.)	Exemplary reimbursement strategies in Europe: “Forfait Innovation” France	Michel Nuta (Paris, France)

16.05 (8 min. + 2 min.)	Exemplary reimbursement strategies in Europe: HMO Israel	Jaron Rabinovici (Tel Aviv, Israel)
16.15 (8 min. + 2 min.)	Exemplary reimbursement strategies in Europe: Finland	Roberto Blanco (Turku, Finland)
16.25 (8 min. + 2 min.)	Exemplary reimbursement strategies in Europe: Poland	Thomas Lozinski (Rzeszów, Poland)
16.35 (8 min. + 2 min.)	Exemplary reimbursement strategies in Europe: NHS UK	Wady Gedroyc (London, UK)
16.45 (8 min. + 2 min.)	Exemplary reimbursement strategies in Europe: NHS UK	TBC
Optional panel discussion, all speakers		

17.00 – 17.50 How to set up a Center for FUS/HIFU?		
Short reports 5 min. and discussion of requirements and procedures		
Chaired by: Pejman Ghanouni & Matthias Matzko TBC		
Time	Topics	Speakers
17.00	United States: MRgFUS	Pejman Ghanouni (San Francisco, USA)
17.05	Germany: MRgFUS	Matthias Matzko (Munich, Germany)
17.10	Germany: MR HIFU (Abstract:)	Leifels Leipzig Team (Germany)
17.15	Italy: MRgFUS	Alessandro Napoli (Rome, Italy)
17.20	United Kingdom: MRgFUS	Wady Gedroyc (London, UK)
17.25	Finland: MR HIFU	Roberto Blanco (Turku, Finland)
17.30	Establishing an MRI guided HIFU treatment centre: key challenges and strategies for implementation (abstract 27)	Imogen Ptacek (London, UK) TBC
17.35 Panel Discussion		

17.50 Closing session
Awards & Announcement of EUFUS 2019 and ISTU and FUS Foundation 2018

Call for abstracts hot topics: deadline September 1st 2017

Registration fees for all delegates include two year membership fees of EUFUS (European Focused Ultrasound Charitable Society)

EARLY BIRD RATE	UNTIL August 31st, 2017	AFTER September 1th, 2017	ONSITE
MD	€ 400	€ 500	€ 600
Students* / Residents**	€ 60/120	€ 80/180	€ 100/200
Ultrasound Researchers	€ 170	€ 250	€ 300

* Student ID card required

** Letter from Head of Department required