PROGRAM

13th Interventional MRI Symposium 2022

October 14 - 15, 2022

Leipzig, Germany

www.imri2020.org

Universitätsklinikum Leipzig
Medizin ist unsere Berufung

Hannover Medical School

JOHNS HOPKINS MEDICINE

HARVARD MEDICAL SCHOOL

OTTO VON GUERICKE UNIVERSITÄT MAGDEBURG

Akademie für Radiologie

NATIONAL CENTER FOR IMAGE GUIDED THERAPY

EMORY HEALTHCARE

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European Society for Magnetic Resonance in Medicine and Biology

Venue

The Westin Leipzig
Gerberstrasse 15
04105 Leipzig
Germany
www.westinleipzig.com

Congress Agency

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Dear colleagues and friends,

After two postponements due to the Covid-19 pandemic, we are eagerly looking forward to the October 2022 on-site iMRI Symposium in Leipzig. After the last gathering in 2018 in Boston, this will mark the reunion of the interventional MRI community with opportunities to interact with opinion leaders and innovators in the field, meet old friends or find new ones. This event is jointly organized by the University of Leipzig, the Department of Radiology at Brigham and Women's Hospital, Harvard Medical School in Boston, and the Department of Radiology and Radiological Science at Johns Hopkins University in Baltimore – in close cooperation with Hannover Medical School, University of Magdeburg and Emory Healthcare, Atlanta.

The iMRI Symposium provides an ideal platform for researchers, clinicians and healthcare professionals alike to present their latest results. Sessions with both technical and clinical topics are composed of lectures by invited speakers and proffered scientific papers. The meeting is endorsed by the ISMRM (International Society for Magnetic Resonance in Medicine) and the ESMRMB (European Society for Magnetic Resonance in Medicine and Biology) and supported by the Ferenc Jolesz National Center for Advanced Technologies Image Guided Therapy (NCIGT) at Harvard Medical School and the Innovation Center for Computer Assisted Surgery (ICCAS) at University of Leipzig.

We are hoping to see you soon in Leipzig!

Clare Tempany **Thomas Kahn** **Andreas Melzer** **Jonathan S. Lewin**

General Chairs

Clare Tempany, Boston, USA

Jonathan S. Lewin, Atlanta, USA

Thomas Kahn, Leipzig, Germany

Co-Directors

Harald Busse, Leipzig, Germany

Timm Denecke, Leipzig, Germany

Andreas Melzer, Leipzig, Germany

Michael Moche, Leipzig, Germany

Frank Wacker, Hannover, Germany

Scientific Program Committee

Harald Busse, Leipzig, Germany

Jan Fritz, Baltimore, USA

Nobuhiko Hata, Boston, USA

Thomas Kahn, Leipzig, Germany

Maciej Pech, Magdeburg, Germany

Georg Rose, Magdeburg, Germany

Oliver Speck, Magdeburg, Germany

Frank Wacker, Hannover, Germany

Clifford R. Weiss, Baltimore, USA

Faculty

Roberto Blanco Sequeiros, Turku, Finland

Jeff Bulte, Baltimore, USA

Harald Busse, Leipzig, Germany

Jan Fritz, Baltimore, USA

Jurgen Fütterer, Nijmegen, The Netherlands

Afshin Gangi, Strasbourg, France

Nobuhiko Hata, Boston, USA

Ron Kikinis, Boston, USA

Kagayaki Kuroda, Hiratsuka, Japan

Nathan McDannold, Boston, USA

Arya Nabavi, Hannover, Germany

Kuberan Pushparajah, London, UK

Jens Ricke, Munich, Germany

Alexander Schaudinn, Leipzig, Germany

Kemal Tuncali, Boston, USA

Arndt Vogel, Hannover, Germany

Frank Wacker, Hannover, Germany

Clifford R. Weiss, Baltimore, USA

Bradford Wood, Bethesda, USA

David Woodrum, Rochester, USA

FRIDAY, OCTOBER 14

WELCOME
08:00 am – 08:45 am
Ferenc Jolesz Memorial Lecture

SESSION I
08:45 am – 10:05 am
General Issues – Neuro

SESSION II
10:35 am – 12:35 pm
Prostate

12:35 pm – 01:05 pm
Lunch Symposium
Siemens Healthineers

SESSION III
01:45 pm – 03:00 pm
Poster Presentation

SESSION IV
03:30 pm – 05:35 pm
MR Thermometry – Technology

SATURDAY, OCTOBER 15

SESSION V
08:15 am – 10:10 am
Neuro – Ablation – Robotics

SESSION VI
10:40 am – 12:25 pm
Cardiovascular

SESSION VII
01:45 pm – 02:35 pm
Technology – Management

SESSION VIII
03:15 pm – 04:10 pm
Ablation

SESSION IX
04:10 pm – 05:20 pm
Focused Ultrasound

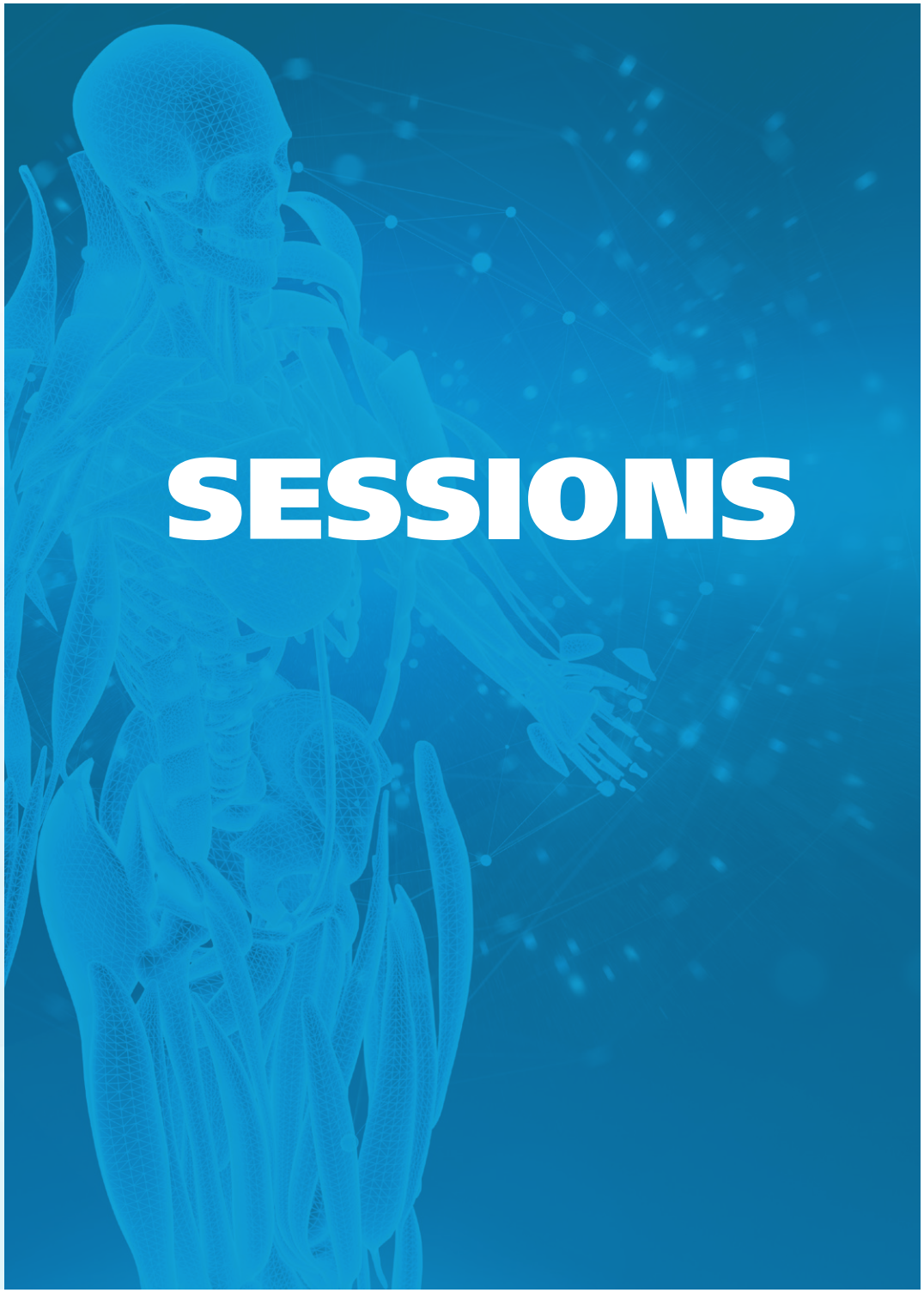
SCIENTIFIC PROGRAM OBJECTIVES

Friday, October 14 – Saturday, October 15, 2022

Upon completion of the scientific meeting, participants should be able to:

- Explain the underlying concepts and related methods in interventional and intraoperative MRI
- List specific indications and applications for different clinical questions
- Identify the advantages and limitations of interventional MRI approaches
- Describe key research areas and clinical findings
- Evaluate trends and developments within the field

This program is certified by the Saxonian medical association with 18 credit points category A



WELCOME

Friday, October 14, 08:00 am – 08:45 am

08:00 **Welcoming address**
C. Tempany, J. S. Lewin, Th. Kahn
C. Josten, Medical Director, University Hospital Leipzig

08:15 **Ferenc Jolesz Memorial Lecture**
The impact of artificial intelligence on iMRI
Ron Kikinis
Harvard Medical School
Boston, MA, USA

SESSION I

Friday, October 14, 08:45 am – 10:05 am

GENERAL ISSUES – NEURO

Moderators: A. Melzer, Leipzig, Germany
A. Nabavi, Hannover, Germany

08:45 **Why MRI for interventions? Cost effectiveness, workflow and treatment optimization (V-01)**
J. Ricke
Munich, Germany

09:00 **MR-guided neurosurgery – current status and future perspectives (V-02)**
A. Nabavi
Hannover, Germany

09:15 **Passive motor fMRI for intraoperative 3T MRI: first results (V-03)**
G. Hangel, J. Wais, M. Tomschick, P. Pruckner, C. Dorfer, G. Kasprian, K. Rössler
Vienna, Austria

09:25 **Transcranial MR-guided focused ultrasound surgery (V-04)**
N. McDannold
Boston, MA, USA

09:40 **MRI and MPI of intra-arterial stem cell administration (V-05)**
A. Shakeri-Zadeh, S. Kuddannaya, A. Bibic. P. Walczak, J. Bulte
Baltimore, MD, USA

09:55 **MR-guided vagal cryoablation for the treatment of obesity in a canine model (V-06)**
D. Kraitchman, T. Ehtiati, C. Rice, A. Khalil, Y. Fu, C. Weiss
Baltimore, MD, USA

10:05 – 10:35 **Coffee Break**

SESSION II

Friday, October 14, 10:35 am – 12:35 pm

PROSTATE

Moderators: A. Gangi, Strasbourg, France
J. Ricke, Munich, Germany

10:35 **MR-guided prostate biopsies (V-07)**
A. Schaudinn
Leipzig, Germany

10:50 **Comparison of prostatic lesion conspicuity using a fast balanced SSFP sequence to shorten in-bore robotic transrectal MRI–guided biopsy: a feasibility study (V-08)**
J. C. Vilanova, J. Puig, A. Pérez de Tudela, M. Planas, S. Sala, S. ThióHenestrosa, J. Artazkoz
Girona, Spain

11:00 **MR-guided prostate interventions – update on focal therapy with MRgFUS (V-09)**
C. Tempany
Boston, MA, USA

11:15 **MR-guided focused ultrasound ablation for intermediate risk prostate cancer (V-10)**
S. Ghai, N. Perlis, K. Corr, R. Chan, S. McCluskey, T. van der Kwast, A. Finelli
Toronto, Canada

11:25 **MR-guided prostate interventions – the Mayo experience (V-11)**
D. Woodrum
Rochester, MN, USA

11:40 **MR-guided prostate interventions – the Nijmegen experience (V-12)**
J. Fütterer
Nijmegen, The Netherlands

11:55 **MR-guided cryoablation of oligo-metastatic prostate cancer to the obturator lymph nodes (V-13)**
D. Woodrum, S. Thompson, D. Adamo, D. Lomas, C. Favazza, A. Lu, L. Mynderse, E. Kwon, M. A. Tavallaei, M. K. Lavdas, M. Drangova
Rochester, MN, USA

12:05 **AI-based prediction of iceball boundaries in focal cryoablation of prostate cancer (V-14)**
P. Moreira, K. Tuncali, C. Tempany, J. Tokuda
Boston, MA, USA

12:15 **MRI-guided focal laser ablation (MRgFLA) for localized intermediate-risk prostate cancer – results of a phase II trial (V-15)**
S. Ghai, N. Perlis, K. Corr, A. Zisman, M. Gertner, R. Chan, S. McCluskey, T. van der Kwast, A. Finelli
Toronto, Canada

12:25	**Use of salvage MRI-guided focal or integrated boost high dose rate brachytherapy for recurrent prostate cancer (V-16)** I. Navarro-Domenech, C. Ménard, Z. Liu, L. Joseph, M. Barkati, A. Berlin, G. Delouya, D. Taussky, M.-C. Beauchemin, B. Nicolas, S. Kadoury, A. Rink, S. Raman, A. Sundaramurthy, R. Weersink, D. Beliveau-Nadeau, J. Helou, P. Chung Toronto, Canada
12:35 – 01:45	**Lunch Break**
12:35 – 01:05	**Lunch Symposium** **Siemens Healthineers** tba

SESSION III

Friday, October 14, 01:45 pm – 03:00 pm

01:45 – 03:00	**Poster Presentation** with presenters expected to remain with their posters throughout the session to engage in discussion with attendees
03:00 – 03:30	**Coffee Break**

SESSION IV

Friday, October 14, 03:30 pm – 05:35 pm

MR THERMOMETRY – TECHNOLOGY

Moderators: J. Fütterer, Nijmegen, The Netherlands
O. Speck, Magdeburg, Germany

03:30	**How accurate and reliable is MR-thermometry? (V-17)** K. Kuroda Hiratsuka, Japan
03:45	**Prospective phase correction – A novel approach to phase drift correction in proton-resonance-frequency-shift thermometry with non-cartesian sequences (V-18)** O. Belker, K. Meyer zu Hartlage, M. Gutberlet, C. Löning C., D. Reimert, F. Wacker, B. Hensen Hannover, Magdeburg, Germany
03:55	**Accuracy of MRI real-time 3D temperature mapping during microwave heating – in-vitro results in gel phantoms (V-19)** O. Dietrich, S. Lentini, O. Öcal, P. Bour, T. Faller, J. Ricke, M. Seidensticker Munich, Germany Pessac, France

04:05 **Susceptibility-corrected proton-resonance-frequency-shift (PRFS)-based magnetic resonance (MR) thermometry for monitoring microwave ablation (MWA) in the porcine liver (V-20)**

B. Hensen, S. Hellms, C. Werlein, D. Jonigk, P. A. Gronski, I. Bruesch, R. Rumpel, E.-M. Wittauer, F. W. R. Vondran, D. L. Parker, F. Wacker, M. Gutberlet

Hannover, Germany

Salt Lake City, UT, USA

04:15 **Using magnetic resonance fingerprinting for proton-resonance-frequency-shift-based temperature monitoring of microwave ablation (V-21)**

M. Gutt, J. J. Löning Caballero, D. Horstmann, F. Wacker, B. Hensen, M. Gutberlet

Hannover, Germany

04:25 **A robust motion compensation algorithm for volumetric MR-temperature monitoring during microwave ablation of liver tumor in patients (V-22)**

V. Ozenne, B. Quesson, P. Bour, T. Faller, O. Öcal, S. Lentini, M. Seidensticker, O. Dietrich

Bordeaux, Pessac, France

Munich, Germany

04:35 **Clinical experience of 3D MR thermometry for liver microwave ablation (V-23)**

J. Tokuda, V. M. Levesque, M. C. Bernardes, R. Seethamraju, K. Tuncali

Boston, MA, USA

04:45 **Performance of advanced DWI and MR thermometry near interventional needle-like devices (V-24)**

J. H. Holmes, C. J. Buelo, R. Geng, M. Tarasek, D. T. Yeo, C. L. Brace, D. Hernando, A. Faacks, S. A. Wells

Iowa City, IA, USA,

Madison, WI, USA,

Niskayuna, NY, USA

04:55 **Real-time automatic temperature regulation during in-vivo MRI-guided laser-induced thermotherapy (MR-LITT) (V-25)**

M. Desclides, V. Ozenne, P. Bour, G. Machinet, C. Pierre, S. Chemouny, B. Quesson

Bordeaux, Pessac, Talence, France

05:05 **Feasibility of PRF thermometry at 0.55 T (V-26)**

W. Majeed, A. Krafft, H. Odéen, D. Parker, J. Pang, H. Bhat

Malvern, PA, USA

Salt Lake City, UT, USA

Erlangen, Germany

05:15 **Implementation of a real-time 3D-thermometry pipeline in Gadgetron for hepatic thermal ablation (V-27, Video)**

D. Horstmann, K. Meyer zu Hartlage, D. Reimert, J. J. Löning, C. Othmar Belker, F. Wacker, B. Hensen, M. Gutberlet

Hannover, Germany

05:25 **A new versatile MR-guided high-intensity focused ultrasound (MRgHIFU) device: System performance assessment and clinical feasibility (V-28)**

P. Cabras, P. Auloge, E. Dumont, B. Wach, E. Breton, A. Gangi, J. Vappou

Strasbourg, Pessac, France

SESSION V

Saturday, October 15, 08:15 am – 10:10 am

NEURO – ABLATION - ROBOTICS

Moderators: R. Blanco-Sequeiros, Turku, Finland
N. Hata, Boston, USA

08:15 **Interventional MR neurography – applied precision medicine (V-29)**

J. Fritz

New York, NY, USA

08:30 **Retroperitoneal lateral femoral cutaneous nerve blocks in the workup of thigh pain: performance analysis of a new technique (V-30)**

D. Dalili, S. Ahlawat, D. Shakoor, A. Rashidi, A. Isaac, J. Fritz

London, United Kingdom

Baltimore, MD, USA

New Haven, CT, USA

New York, NY, USA

08:40 **Accurate targeting in lumbar and sacral nerve root infiltrations using MRI guidance, with 5-month follow-up (V-31)**

P. C. Guillemin, R. Salomir, O. Lorton, E. Maturana, A. Stöckli, P.A. Poletti, N. Lauper, D. Dominguez, S. Boudabbous, M. Scheffler

Geneva, Switzerland

08:50 **3-Tesla MR neurography guided nerve blocks for the treatment of pudendal neuralgia (V-32)**

D. Dalili, S. Ahlawat, D. A. Isaac, A. Rashidi, A. Haj-Mirzaian, J. Fritz

London, United Kingdom

New York, NY, USA

09:00 **MR-guided ablations in high-field strength MRI (V-33)**

K. Tuncali

Boston, MA, USA

09:15 **MRI-guided radiofrequency ablation of small HCC nodules (d ≤ 12 mm) in pretreated livers – use of the gadoxetic-acid plateau phase (V-34)**

S. Ebel, H. J. Meyer, G. Prasse, D. Seehofer, T. Berg, H. Busse, A. Hofmann, H. Gößmann, T. Denecke

Leipzig, Germany

09:25 **MRI-guided robotic interventions - pathway to autonomous and AI-assisted approach (V-35)**

N. Hata

Boston, MA, USA

09:40 **Demonstration of versatile anatomically designed instrument alignment units for the remote operated µRIGS instrument micropositioning system (V-36)**

R. Odenbach, I. Fomin, N. Thoma, B. Hensen, F. Wacker, G. Rose

Magdeburg, Hannover, Germany

09:50 **MRI-compatible low profile robots for in-bore interventions (V-37)**

K. Cleary, K. Sharma, E. Fischer, C. Dumoulin, G. Li, J. Fritz, A. Gunderman, Y. Chen, R. Monfaredi, D. Stoianovici, I. Iordachita

Washington, DC, USA
Cincinnati, OH, USA
New York, NY, USA
Atlanta, GA, USA
Baltimore, MD, USA

10:00 **A piezo-driven MR-compatible assistance system for image-guided interventions (eGantryMate) (V-38)**

A. Reichert, A. Caglar Özen, S. Reiss, T. Lottner, N. Verloh, S. Milosavljevic, M. Vogele, M. Bock

Freiburg, Germany
Kitzbühel, Austria

10:10 – 10:40 **Coffee Break**

SESSION VI

Saturday, October 15, 10:40 am – 12:25 pm

CARDIOVASCULAR

Moderators: F. Wacker, Hannover, Germany
C. Weiss, Baltimore, USA

10:40 **MR-guided cardiac interventions (V-39)**
K. Pushparajah
London, Great Britain

10:55 **Tissue characterization of the acute ablation lesion directly after CMR-guided atrial flutter ablation (V-40)**
G. P. Bijvoet, H. M. J. M. Nies, R. J. Holtackers, V. M. Smit-Fun, J. Smink, D. Linz, K. Vernooy, J. E. Wildberger, R. Nijveldt, S. M. Chaldoupi, C. Mihl
Maastricht, Best, Nijmegen, The Netherlands

11:05 **Towards MRI-guided cardiovascular interventions and focused ultrasound neuromodulation (V-41, Video)**
C. M. Reich, D. Gholami Bajestani, C. Mulik, G. Schäfers, V. Hammersen, S. Schauer, M. Schmid, A. Hegel, K. Hoeger, E. Pruy, M. Steinmetz, L. Landgraf, T. Jochimsen, O. Sabri, A. Melzer
Leipzig, Gelsenkirchen, Dettingen an der Ems, Pforzheim, Weßling, Göttingen, Germany

11:15 **Deep artifact suppression for in-line real-time reconstruction of accelerated complex MR data: Application to interventional cardiac MR thermometry (V-42)**
O. Jaubert, V. Ozenne, M. Yon, J. Montalt-Tordera, J. Steeden, V. Muthurangu, B. Quesson
London, Great Britain
Bordeaux, France

11:25 **MR-guided coronary catheterization in a porcine model at 3 T: success rate and learning curve (V-43)**
S. Reiss, T. Lottner, T. Heidt, A. Özen, C. von zur Mühlen, M. Bock
Freiburg, Germany

11:35 **MR-guided treatment of vascular malformations (V-44)**
C. Weiss
Baltimore, MD, USA

11:50 **Combined 3D printed and silicone moulded vascular phantoms to develop and train catheter based MRI-guided interventions (V-45)**
D. G. Bajestani, C. Martin Reich, C. Mulik, A. Melzer
Leipzig, Germany

12:00 **Artifact exploration of metallic and non-metallic guidewires at 0.55 T, 1.5 T, and 3 T MR systems (V-46)**
W. B. Buchenberg, K. Düring, M. Rube, A. J. Krafft
Krün, Erlangen, Germany

12:10 **MR-guided drug delivery (V-47)**
B. Wood
Bethesda, MD, USA

12:25 – 01:45 **Lunch Break**

SESSION VII

Saturday, October 15, 01:45 pm – 02:35 pm

TECHNOLOGY – MANAGEMENT

Moderators: G. Rose, Magdeburg, Germany
B. Wood, Bethesda, USA

01:45 **Techniques and devices for interventional MRI guidance (V-48)**
H. Busse
Leipzig, Germany

02:00 **Intensity-based tracking technique to register devices in MRI-guided procedures (V-49)**
I. Fomin, R. Kowal, M. Gutberlet, B. Hensen, F. Wacker, O. Speck, G. Rose
Magdeburg, Hannover, Germany

02:10 **Testing of a transperineal guide grid for MR guided prostate procedures using optical and fiducial fusion (V-50)**
D. Woodrum, S. Thompson, D. Adamo, C. Favazza, A. Lu, P. Foroughi, A. Demir, K. Harlan, L. Mynderse
Rochester, MN, USA

02:20 **Development of a clinical interventional MRI service at Mayo Clinic Rochester: 2009-2021 (V-51)**
S. M. Thompson, D. A. Adamo, E. M. Knavel Koepsel, B. T. Welch, D. Lomas, D. R. Barker, D. F. Ekrem, P. L. Hanson, W. S. Stenzel, K. J. Gehling, M. Eggert, L. M. Cranston, D. L. Howe-Clayton, D. Berg, P. Callahan, E. M. Hoffman, T. B. Curry, C. P. Favazza, A. Lu, K. R. Gorny, J. Felmlee, L. A. Mynderse, D. A. Woodrum
Rochester, MN, USA

02:35 – 03:15 **Coffee Break**

SESSION VIII

Saturday, October 15, 03:15 pm – 04:10 pm

ABLATION

Moderators: J. Fritz, New York, USA
D. Woodrum, Rochester, USA
(Session VIII and IX)

03:15 **MR-guided abdominal interventions (V-52)**
F. Wacker
Hannover, Germany

03:30 **Ablation and immunotherapy – a GI oncologists view (V-53)**
A. Vogel
Hannover, Germany

03:45 **MR-guided cryotherapy – state-of-the-art (V-54)**
A. Gangi
Strasbourg, France

04:00 **Extreme MR ablation cases: The power of MRI-guidance (V-55)**
D.A. Woodrum, S.M. Thompson, D.A. Adamo, D. Lomas, C.P. Favacca, A. Lu, L. Mynderse
Rochester, MN; USA

Session IX

Saturday, October 15, 04:10 – 05:20 pm

FOCUSED ULTRASOUND
JOINT SESSION WITH THE EUROPEAN FOCUSED ULTRASOUND CHARITABLE SOCIETY (EUFUS)

04:10 **MR-guided focused ultrasound in musculoskeletal diseases (V-56)**
R. Blanco-Sequeiros
Oulu, Finland

04:25 **Retrospective analysis of MR-guided high intensity focused ultrasound (MRgFUS) in 65 patients with symptomatic lumbosacral facet joint arthritis (V-57)**
D. Düx, M. Düx, C. Stroszczynski, L. Beyer
Hannover, Frankfurt, Regensburg, Potsdam, Germany

04:35 **Assessment of intercostal sonication capabilities of a dedicated transducer by MR-ARFI/thermometry (V-58)**
F. Dabrin, M. Guyot, V. Ozenne, S. Chemouny, P. Bour, B. Quesson
Pessac, Bordeaux, France

04:45 **MR-HIFU therapy of uterine fibroids – experience within an interdisciplinary fibroid center (V-59)**
H. Surup, J. Leonhardi, N. Bailis, C. Weisgerber, R. Handzel, S. Stark, B. Aktas, M. Martin, A. Melzer, H. Busse, S. Ebel, T. Denecke
Leipzig, Germany

04:55 **Combination of MRI-guided focused ultrasound and radiation therapy - experimental rodent study (V-60)**

X. Zhang, S. Greiser, F. Lange, R. van Gorkum, M. Fournelle, D. Speicher, S. Tretbar, A. Melzer, L. Landgraf

Leipzig, St. Ingbert, Germany

Zürich, Switzerland

05:05 **Validation of the accuracy of a new transcostal phased-array HIFU transducer dedicated to hepatic ablation (V-61)**

O. Lorton, P. C. Guillemin, Y. M'Rad, A. Peloso, S. Boudabbous, R. Holman, P. A. Poletti, A. Ricoeur, R. Salomir

Geneva, Switzerland

05:15 **Poster Awards and Conclusions**

C. Tempany, J. S. Lewin, Th. Kahn

05:20 **Adjourn**

POSTERS

GENERAL ISSUES

P-01

Towards a specialized software for interventional radiology

J. Alpers, S. Balakrishnan, M. J. Soloman, L. Polenz, J. S. Sánchez López, M. Becker, M. Pech, F. Wacker, B. Hensen

Magdeburg, Hannover, Germany

NEURO

P-02

Lateral femoral cutaneous nerve cryoablation for the treatment of meralgia paresthetica: first results of a pilot study

S. Walter, D. Dalili, J. Fritz

New York, NY, USA

London, United Kingdom

P-03

3 Tesla selective MR neurography-guided anterior femoral cutaneous nerve blocks for diagnosing anterior thigh neuralgia

D. Dalili, S. Ahlawat, A. Isaac, A. Rashidi, J. Fritz

London, United Kingdom

Baltimore, MD, USA

New York, NY, USA

P-04

One-stop-shop 3-Tesla MRI and MR-guided MR arthrography of the shoulder: A clinical practice evaluation with MSK fellows

D. Dalili, A. Isaac, J. Fritz

London, United Kingdom

New York, NY, USA

PROSTATE

P-05

Focal MR-guided high-dose-rate brachytherapy for localized prostate cancer: A prospective clinical trial

E. Gutierrez, M. Ramotar, J. Helou, S. Raman, R. Glicksman, A. Rink, R. Weersink, P. Chung, A. Berlin

Toronto, Canada

P-06

Comparison of preprocedural and intraprocedural distances of the urethra to the prostatic capsule when performing prostate ablation with the TULSA-PRO device

D. Sella, J. Legout, A. Montazeri, C. Dora, G. Frey

Jacksonville, FL, USA

MR THERMOMETRY

P-07
Estimating uncertainty of 3D ablation zones using MR thermometry

S. Schröer, M. Gutberlet, K. Meyer zu Hartlage, J. Löning Caballero,
F. Wacker, B. Hensen
Hannover, Germany

P-08
Higher resolution T1-weighted imaging of a liver lesion: a step to correlate thermal dose and lesion extent

T. Faller, D. El Hamrani, P. Bour, C. Marcelin, M. Guyot, V. Ozenne, B. Quesson
Pessac, Bordeaux, France

P-09
Rapid 3D post-ablation assessment of thermal ablation using accelerated wave-encoding MRI

Q. Lebret, P. Bour, V. Ozenne, B. Quesson
Bordeaux, France

P-10
Real time volumetric MR-temperature monitoring during microwave ablation of a patient with hepatocellular carcinoma

O. Öcal, S. Lentini, P. Bour, T. Faller, J. Ricke, O. Dietrich, M. Seidensticker
Munich, Germany
Pessac, France

P-11
Echo-time selection in PRFS MR thermometry to minimize errors in adipose tissues

A. Josset, J. Vappou, K. Choquet, O.Ishak, E. Breton
Strasbourg, France

FOCUSED ULTRASOUND

P-12
Assessment of MR compatibility of focused ultrasound systems

N. Evripidou, M. Giannakou, C. Damianou
Limassol, Cyprus

P-13
Design of a new MR-compatible HIFU device for intercostal sonication into the heart

M. Guyot, E. Dumont, B. Quesson
Pessac, Bordeaux, France

P-14
Combination of MRI-guided HIFU, bioluminescence imaging and transgenic mouse model to assess efficiency of noninvasive thermal therapies for solid tumors and their microenvironments

D. El Hamran, P. Jeanjean, C. Genevois, F. Couillaud, B. Quesson
Bordeaux, France

P-15

MR-guided high-intensity focused ultrasound therapy monitoring using transient supersonic shear wave MR elastography

O. Ishak, E. Breton, K. Choquet, A. Josset, P. Cabras, J. Vappou

Pessac, Strasbourg, France

P-16

MR-HIFU as treatment option for desmoid tumors in the abdominal wall: clinical setup and first results

J. Leonhardi, H. Surup, J. Donig, N. Bailis, A. Hoffmeister, T. Schönherr, S. Niebisch, I. Gockel, A. Melzer, M. Martin, S. Ebel, H. Gößmann, H. Busse, T. Denecke

Leipzig, Germany

ROBOTICS – CARDIOVASCULAR – LYMPHANGIOGRAPHY

P-17

A simple MRI-guided robotic system for breast biopsy

A. Antonioua, M. Giannakoub, C. Damianoua

Limassol, Cyprus

P-18

Prospective observational study of pain severity and pain interference outcomes following percutaneous MRI-guided laser ablation or cryoablation for focal painful peripheral, soft tissue vascular malformations: 12-month outcomes

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P-19

MRI-guided conventional catheter ablation of isthmus-dependent atrial flutter using active catheter imaging

S. Ulbrich, Y. Huo, J. Tomala, M. Wagner, U. Richter, L. Pu, J. Mayer, A. Zedda, A. J. Krafft, K. Lindborg, C. Piorkowski, T. Gaspar

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P-20

MRI-driven endovascular thrombectomy

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Zurich, Switzerland

Istanbul, Turkey

P-21

Peripheral MR lymphangiography: Integration into clinical workflow in a hybrid MR-US interventional suite

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TECHNOLOGY

P-22

Hybrid deformable registration for motion compensation – a feasibility study with realtime 3D MRI-US

J. Mitra, C. Bhushan, S. Ghose, D. Mills, A. Patel, M. Tarasek, T. Foo, S. Wells, S. Jupitz, B. Bednarz, C. Brace, J. H. Holmes, D. Yeo

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Convection triggers MRI amplitude and phase signal changes during proton beam irradiation of liquid water phantoms

J. Peter, S. Gantz, L. Karsch, J. Pawelke, A. Hoffmann

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Improving accuracy of white marker contrast-based rapid 3D passive MR biopsy needle localization by utilizing a total variation-regularized image reconstruction

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Transfer function measurement setup for TRACRwire at 0.55 T

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MRI-visible pen for marking the entry point of an MRI-guided needle intervention

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CNN-based segmentation of multiple needles for magnetic resonance-guided interventions

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Interactive real-time MRI-guided needle tracking using scanner remote control

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Acousto-optics based active MRI markers for real-time device tracking

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Effects of device trajectory variations on RF-induced heating at low field MRI systems

A. C. Özen, M. Russe, T. Lottner, S. Reiss, I. Unal, S. Littin, M. Zaitsev, M. Bock
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Metamaterial inspired surface resonators as wireless coil

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P-32

Multi-channel receive coil for MRI-guided interventions

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P-33

Assessing MR compatible biopsy grids for interventional procedures

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P-34

Sensorless and cost-efficient force feedback signal acquisition for bowden cable-driven manipulators and robotics during image-guided procedures

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Multifunctional, elastic and non-metallic Bowden-cable coupling mechanism for the modularization and remote control of the µRIGS instrument micropositioning system

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Local MRI wireless RF coils to boost calibration reference signal prior to MRI guided interventional treatments

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Radiofrequency safety of external defibrillation electrodes at 1.5 T

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Disposable and intuitive needle-based interventions

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P-39

Coaxial needles: Optimizing visibility and operator confidence for MRI/US-guided intervention

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Simultaneous T2-weighted MRI of two orthogonal slices for real-time lesion tracking

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InGrid – Finding incision points the easy way

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Modularizable, MRI-compatible and elastic abdominal phantom to perform dynamic interventional experiments under simulated respiratory cycles

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ABLATION

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A new multi-source MR-LITT device for creating conformal ablations

M. Desclides, G. Machinet, C. Pierre, V. Ozenne, S. Chemouny, B. Quesson

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Investigation of microwave ablation using dual applicators with real-time MR thermometry

A. Lu, L. Ren, K. R. Gorny, J. P Felmlee, C. P. Favazza, D. A. Adamo,

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P-45
Feasibility of quantitative MR-based hypoxia measurements during MR-guided gynecological brachytherapy

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Investigation of thermal injury risks from high-pressure gas supply line (HPGSL) during MR guided cryoablation

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P-47
Free-breathing T1-weighted 3D sequence in MR-guided liver interventions: Evaluation of workflow and diagnostic quality

J. Glandorf, D. Horstmann, M. Gutberlet, D. M. Düx, F. Wacker, B. Hensen

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P-48
Reduction of electromagnetic interferences of a commercially available MR approved microwave generator

C. Löning, J. Joaquin, K. Meyer zu Hartlage, T. Gerlach, O. Speck, F. Wacker,

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Technical evaluation of motor evoked potential monitoring during MR-guided cryoablation of the shoulder

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MR guided cryoablation of renal masses

D. A. Adamo, S. M. Thompson, A. Lu, C. P. Favazza, E. Knavel Koepsel,

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Shaft heating risk mitigation during MRI-guided microwave ablation using non-actively cooled applicators

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Evaluation of cryoablation probe artifacts at 0.55 T

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Investigation of cryoneedle induced RF heating risk during MRI-guided cryoablation at 1.5 T

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Intraoperative neurophysiological monitoring with motor evoked potentials during MRI-guided cryoablation: Initial feasibility, safety and clinical experience

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P-55

MRI-guided high-dose-rate interstitial brachytherapy of small hepatic malignancies (d ≤ 12 mm) – use of the gadoxetic-acid plateau phase

S. Ebel, H. J. Meyer, G. Prasse, D. Seehofer, T. Berg, K. Hering, T. Kuhnt, H. Busse, A. Hofmann, H. Gößmann, T. Denecke
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MR-based volumetric assessment of thyroid nodule radiofrequency ablation in anthropomorphic phantoms

T. Boers, G. Wennemars, S. J. Braak, M. Versluis, S. Manohar, W.M. Brink
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GENERAL INFORMATION

CONFERENCE DATE

October 14 - 15, 2022

Venue

The Westin Leipzig
Gerberstr. 15, 04105 Leipzig, Germany
Phone / Fax: +49 (341) 988-0 / -1229

INFORMATION FOR AUTHORS

Main Lectures

Lectures on selected scientific topics will be given by invited speakers.

Oral Presentations

Proffered papers will be formally presented in topical oral sessions. Your total time will be restricted to 10 minutes with 8 minutes for speaking and 2 more minutes for a short discussion. We kindly ask all speakers to strictly respect this time limit. Please prepare your presentation in PPT(X) format, copy it to either a USB medium or CD-ROM and hand it in to one of our technical staff members in the speaker ready room at least one hour before the start of your session.

Poster Presentations

Posters will be exhibited throughout the meeting. A dedicated poster discussion session will be organized on Friday, October 14, 01:45 – 03:00 pm, and poster authors are expected to be present throughout that time to engage in discussion with attendees.

Video Presentations

Cases may illustrate a particular setup, indication, procedure, workflow or result. Your total time will be restricted to 8 minutes for speaking and 2 more minutes for a short discussion. Please prepare your digital presentation in a standard movie file format (AVI, MOV, MPG, MP4) and check proper play-back with one of our technical staff members in the speaker ready room at least one hour before the start of the session.

Poster Award

Three poster prizes will be awarded to appreciate the high level of the scientific exhibits.

Conference Language

All lectures and presentations will be in English.

CONFERENCE FEES

Conference fee includes lunch and coffee breaks on Oct 14 - 15. All fees are in EURO (€).

Reduced fees by September 15, 2022 (On-site fees after that date in parentheses)

- Physicians and Scientists € 300,- (350,-)
- Residents*, Fellows*, Medical Technologists* € 250,- (300,-)
- Students* € 150,- (200,-)
- Social Event – Gondwanaland Zoo Leipzig € 60,-

*proper validation document required

One-day tickets for either October 14 or 15 are available for 50% of the fees listed above and include lunch and coffee breaks on the respective date.

All symposium registrations and hotel reservation must be send to akd congress & events.
Please understand that registration can only be completed when full payment has been received.

You can also register online:
Follow the link on the iMRI website
www.imri2020.org

SOCIAL EVENT

Gondwanaland at Zoo Leipzig
Friday, October 14, 2022, 07:15 pm

Gondwanaland at Zoo Leipzig will appeal to all of your senses as you experience the tropical rainforests of Africa, Asia and South America. Gondwanaland is home to about 300 exotic animals and 17,000 tropical plants.

Enjoy a welcome cocktail before entering the impressive tropical complex. You will then have time to follow the jungle paths or treetop trail and drift along in a boat on the jungle river Gamanile before having dinner and drinks at Restaurant Patakan.

This event can be booked for a fee of 60 Euro for registered iMRI participants and accompanying persons.

The entrance to this event is located at Pfaffendorfer Str. 29, 04105 Leipzig, about 150 m to the right from the main entrance of the zoo, and a 5-minute walk from the conference venue (Westin Hotel Leipzig).

CONGRESS OFFICE

Thursday, October 13, 2022	5.00 pm - 8.30 pm
Friday, October 14, 2022	7.30 am - 6.00 pm
Saturday, October 15, 2022	8.00 am - 6.00 pm

INDUSTRIAL EXHIBITION

Friday, October 14, and Saturday, October 15, 2022 in the foyer of the Conference Center. For more information please contact akd congress & events.

CONGRESS AGENCY

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Waldstr. 57
04105 Leipzig
Germany
Phone / Fax: +49 (341) 268276-35 / -36
Email: info@akd-congress.de

HOTEL RESERVATION

Hotel Reservation will be handled by **akd congress & events**. Requests for accommodation should be made on the enclosed official registration form or via online registration.

Hotel	Single Room	Double Room
The Westin Leipzig (Congress Center)	€ 145,-	€ 165,-
InterCityHotel Leipzig (2-minute walking distance)	€ 99,-	€ 119,-
H2 Hotel Leipzig City (8-minute walking distance)	€ 79,-	€ 89,-
Seaside Park Hotel (5-minute walking distance)	€ 99,-	€ 119,-

Above rates are per room and night (in €) and include breakfast, service charge and VAT.

Payments will be made directly at the hotel.

PAYMENT

You will receive a confirmation/invoice once you have registered for the symposium.

Payment is possible via bank transfer or credit card (Visa, Eurocard, Mastercard, American Express).

All payments must be in EURO.

CANCELLATIONS

Cancellation is possible in writing or by fax only.

Symposium

Until September 15, 2022, the cancellation fee will be € 100,-
No refunds will be made after September 15, 2022.

Hotel

After September 15, 2022, the hotel may charge you the applicable no-show fee for each night cancelled.

Distances

Airport (Leipzig/Halle) – Congress Center (The Westin): 20 min by taxi

Airport – Main train station: 13 min by rail (S-Bahn, every 30 min)

Main train station – Congress Center: 6 min by foot

InterCityHotel – Congress Center: 2 min by foot

H2 Hotel Leipzig City – Congress Center: 8 min by foot

Seaside Park Hotel Leipzig – Congress Center: 5 min by foot

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NOTES

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