

**September 24–25, 2010
Leipzig**

8th Interventional MRI Symposium

The Westin Leipzig

Program

Department of Diagnostic and
Interventional Radiology
University of Leipzig, Germany

Department of Radiology
Brigham and Women's Hospital
Harvard Medical School, Boston, USA

Department of Radiology and
Radiological Science
Johns Hopkins University, School of
Medicine, Baltimore, USA

ESMRMB

European Society for Magnetic Resonance in Medicine and Biology

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Dear colleagues,

It is our pleasure to invite you to the 8th Interventional MRI Symposium, organized by the Department of Diagnostic and Interventional Radiology at the University of Leipzig, Germany, in cooperation with the Department of Radiology at the Brigham and Women's Hospital, Harvard Medical School, Boston, and the Department of Radiology and Radiological Science at Johns Hopkins University in Baltimore. The meeting is endorsed by the International Society for Magnetic Resonance in Medicine (ISMRM) and the European Society for Magnetic Resonance in Medicine and Biology (ESMRMB).

Following our call for abstracts we have received numerous submissions for oral and poster presentations covering a wide range of interventional MR topics. After a peer review process by the scientific program committee, we have constructed a balanced program of 62 oral and 58 poster presentations.

The city of Leipzig has a rich heritage in music and the performing arts. Names like Johann Sebastian Bach and Felix Mendelssohn Bartholdy are inseparably linked to the city. The new Gewandhaus Concert Hall is home to the famous Gewandhaus Orchestra which is known for its excellence in classical music performance and currently conducted by Maestro Riccardo Chailly, the 19th "Gewandhauskapellmeister" since 1781. The Thomanerchor, the Boys Choir of St. Thomas's Church, emerged over 800 years ago from church services organized by the Augustinian Canons. Its most famous choirmaster from 1723 to 1750 was Bach himself. With a history of more than 300 years, the Leipzig Opera features ballet and opera performances on an international level.

Leipzig is also linked to early developments in the field of nuclear magnetic resonance. After graduation, Felix Bloch continued his physics studies at the University of Leipzig and finished his doctoral thesis under the advice of Werner Heisenberg. Only last year, the University celebrated its 600th anniversary.

We are looking forward to seeing you in Leipzig!

F. A. Jolesz

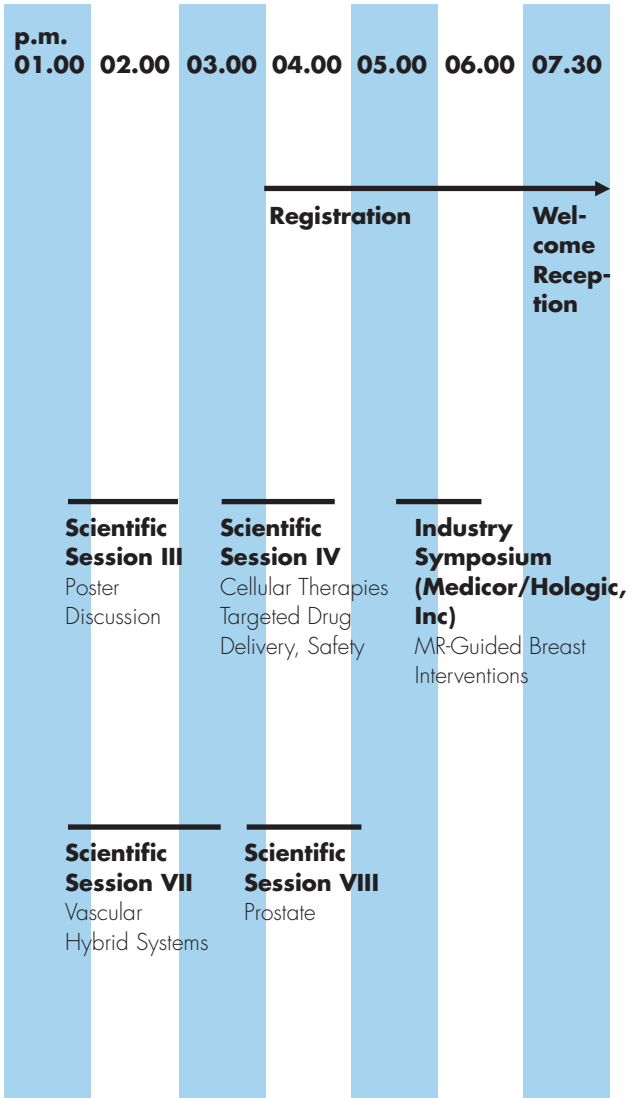
Th. Kahn

J. S. Lewin

Schedule

	a.m.	08.00	09.00	10.00	11.00	12.00	
Thursday September 23							
Friday September 24		Scientific Session I General Issues Intraoperative Thermometry			Scientific Session II Laser/RF Cryoablation Brachytherapy		Lunch
Saturday September 25		Scientific Session V HIFU Navigation			Scientific Session VI Biopsy Robotics Vascular		Lunch

Schedule



Faculty

Symposium Chairman

Thomas Kahn, Leipzig, Germany

Co-Chairs

Ferenc A. Jolesz, Boston, USA

Jonathan S. Lewin, Baltimore, USA

Faculty

Harald Busse, Leipzig, Germany

Jeffrey L. Duerk, Cleveland, USA

Wladislaw Gedroyc, London, GB

Matthias Gutberlet, Leipzig, Germany

Nobuhiko Hata, Boston, USA

Norbert Hosten, Greifswald, Germany

Steve Hushek, Milwaukee, USA

Dara L. Kraitchman, Baltimore, USA

Gabriele Krombach, Gießen, Germany

Christine Kuhl, Aachen, Germany

Michael Moche, Leipzig, Germany

Chrit Moonen, Bordeaux, France

Philippe L. Pereira, Heilbronn, Germany

Reza Razavi, London, GB

Jens Ricke, Magdeburg, Germany

Gregor Schaefer, Gelsenkirchen, Germany

Ulf Teichgräber, Berlin, Germany

Robert Turner, Leipzig, Germany

Clare M.C. Tempny, Boston, USA

Chip Truwit, Minneapolis, USA

Kemal Tuncali, Boston, USA

Frank Wacker, Baltimore, USA

Clifford Weiss, Baltimore, USA

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Topics

Friday, September 24

- Session I** 08:15 a.m.–10:20 a.m.
General Issues, Intraoperative MRI,
Thermometry
- Session II** 10:45 a.m.–12:50 p.m.
Laser, RF, Cryoablation, Brachytherapy
- Session III** 01:45 p.m.–03:00 p.m.
Poster Discussion Session
- Session IV** 03:30 p.m.–04:45 p.m.
Cellular Therapies, Targeted Drug Delivery,
Safety
- 05:30 p.m.–06:30 p.m.
Industry Symposium –
MR-guided Breast Interventions
sponsored by Medicor / Hologic, Inc

Saturday, September 25

- Session V** 08:15 a.m.–10:10 a.m.
HIFU, Navigation
- Session VI** 10:40 a.m.–12:35 p.m.
Biopsy, Robotics, Vascular
- Session VII** 01:45 p.m.–03:25 p.m.
Vascular, Hybrid Systems
- Session VIII** 03:50 p.m.–05:05 p.m.
Prostate

Scientific Program Objectives

Friday, September 24 – Saturday, September 25, 2010

Upon completion of the Scientific Meeting, participants should be able to:

- Identify new findings in interventional and intraoperative magnetic resonance imaging most relevant to their own fields;
- Explain the impact of newly developed methods in interventional MRI;
- Describe possible future trends and developments in interventional MRI and evaluate the possible impact of these trends and developments on their own clinical and scientific work in the future;
- Assess the state-of-the-art in interventional MRI

Friday, September 24, 08:15–10:20 a.m. General Issues, Intraoperative MRI, Thermometry

- Moderators:** J. S. Lewin (Baltimore, MD, USA)
Th. Kahn (Leipzig, Germany)
- 08:15** Welcoming address
J. Thiery, Dean of the Medical Faculty
Th. Kahn
- 08:30** Anticipated Highlights of the 8th IMRI Symposium- What to watch for (V-01)
J. Duerk
Cleveland, OH, USA
- 08:45** MR systems for MRI-guided interventions (V-02)
S. Hushek
Milwaukee, WI, USA
- 09:00** Intraoperative MRI in Neurosurgery (V-03)
Chip Truwit
Minneapolis, MN, USA
- 09:15** Optimal design for an intraoperative MRI-guided neurosurgical suite (V-04)
W. A. Hall, C. L. Truwit
Syracuse, NY, USA; Minneapolis, MN, USA
- 09:25** Update on open MRI (V-05)
U. Teichgräber
Berlin, Germany
- 09:40** Laser based laparoscopic liver resection in a 1.0 Tesla interventional open MRI (V-06)
G. Wiltberger, S. S. Chopra, U. Teichgräber,
P. Neuhaus, S. Jonas, G. Schumacher
Leipzig, Germany; Berlin, Germany
- 09:50** Hybrid PRF-thermometry in the myocardium (V-07)
V. Rieke, W. Grissom, A. B. Holbrook,
J. M. Santos, M.V. McConnell, K. Butts Pauly
Stanford, CA, USA; Munich, Germany;
Los Altos, CA, USA
- 10:00** Measurement of the temperature response of multiple intrinsic MR parameters using a rapid chemical shift imaging technique (V-08)
B. A. Taylor, J. Yung, A. M. Elliott, J. D. Hazle, R. J. Stafford
Houston, TX, USA

Session I

- 10:10 MRI guided cryoablation: in vivo assessment of measuring temperature adjacent to ablated tissue using the PRF method (V-09)
E. Rothgang, W. Gilson, S. Valdeig, L. Pan, A. Flammang, J. Roland, F. Wacker, B. Frericks
Erlangen, Germany; Baltimore, MD, USA; Berlin, Germany

10:20–10:45 **Coffee Break**

Session II

Friday, September 24, 10:45 a.m.–12:50 p.m.
Laser, RF, Cryoablation, Brachytherapy

Moderators: N. Hosten (Greifswald, Germany)
R. Turner (Leipzig, Germany)

- 10:45 Continuous real-time MR thermometry in moving organs – clinical routine during laser ablation of hepatic tumors (V-10)
N. Hosten, C. Rosenberg
Greifswald, Germany
- 11:00 Kalman-filtered velocity navigator triggering for motion compensated PRF thermometry (V-11)
F. Maier, A. J. Krafft, J. W. Jenne, R. Dillmann, W. Semmler, M. Bock
Heidelberg, Germany; Karlsruhe, Germany
- 11:10 Conformal laser irradiation of intracranial tumors: a clinical application (V-12)
M. G. Torchia, G. H. Barnett, A. E. Sloan, R. Tyc
Winnipeg, MB, Canada; Cleveland, OH, USA
- 11:20 MR guidance and thermal monitoring of interstitial laser ablation of osteoid osteomas in an open high-field scanner (V-13)
F. Streitparth, U. Teichgräber, J. Rump, M. de Bucourt, B. Gebauer
Berlin, Germany
- 11:30 MR-guided radiofrequency ablation (V-14)
P. L. Pereira, H. Rempp, S. Clasen, D. Schmidt, A. Boss, C. Schraml, C. D. Claussen
Heilbronn, Germany; Tübingen, Germany

- 11:45** Clinical experience in University Hospitals of Geneva with radiofrequency ablation of liver malignancies under magnetic resonance guidance (V-15)
S. Terraz, M. Viallon, A. Cernicanu, M. Lepetit-Coiffé, G. Mentha, R. Salomir, C. D. Becker
Geneva, Switzerland
- 11:55** Visualization of ablation lesions by dynamic contrast-enhanced MRI (V-16)
A. Shmatukha, X. Qi, S. Ghate, M. Pop, J. Barry, S. Oduneye, J. Stainsby, G. Wright, E. Crystal
Toronto, ON, Canada
- 12:05** Cryoablation: rational, technique and clinical applications (V-17)
K. Tuncali
Boston, MA, USA
- 12:20** MRI guided percutaneous cryoablation of hepatocellular carcinoma at special regions: an initial study (V-18)
B. Wu, Y. Xiao, L. Zhao, X. Zhang, J. Xu
Beijing, China; Boston, MA, USA; Langfang, China
- 12:30** MR image-guided percutaneous tumor cryoablation (V-19)
A. Gangi, X. Buy, H. Lang, J. Garnon, B. Dillmann, L. Barbé, M. de Mathelin
Strasbourg, France; Donostia – San Sebastián, Spain
- 12:40** MR-guided liver tumor ablation employing open high-field 1.0T MRI for image guided brachytherapy (V-20)
J. Ricke, M. Seidensticker, M. Ludewig, K. Jungnickel, M. Pech, O. Dudeck, J. Bunke, F. Fischbach
Magdeburg, Germany; Hamburg, Germany
- 12:50–01:45 Lunch Break**

Session III

Friday, September 24, 01:45–03:00 p.m.

Poster Discussion Session

01:45–03:00 Poster discussion with all authors present and prepared to discuss their work

03:00–03:30 **Coffee Break**

Session IV

Friday, September 24, 03:30–04:45 p.m.

Cellular Therapies, Targeted Drug Therapy, Safety

Moderators: D. Kraitchman (Baltimore, MD, USA)
U. Teichgräber (Berlin, Germany)

03:30 MR-guidance for cellular therapies: diabetes and islet cell transplantation (V-21)

C. Weiss,
Baltimore, MD, USA

03:45 Heart, cell therapy, and how to get there (V-22)

D. L. Kraitchman
Baltimore, MD, USA

04:00 Intra-cerebral administration of therapeutics via MR guided convection enhanced delivery (V-23)
A. J. Martin, R. M. Richardson, K. H. Rosenbluth,
A. P. Kells, J. R. Bringas, G. Bates, L. Tansey,
P. Piferi, P. A. Starr, P. S. Larson, K. S. Bankiewicz
San Francisco, CA, USA; Irvine, CA, USA

04:10 Guiding reporter probe injections using a novel X-ray-MRI fusion tool (V-24)

T. Ehtiati, D. Kedziorek, Y. Fu, P. Walczak,
N. Azene, S. Shea, F. Wacker, D. L. Kraitchman
Baltimore, MD, USA

04:20 MRI-guided robotic drug delivery for lung disease (V-25)

P. Vartholomeos, C. Mavroidis, N. Hata
Boston, MA, USA

04:30 Safety – MR system and MR interactions of medical devices (V-26)

G. Schaefer
Gelsenkirchen, Germany

04:45–05:30 **Break**

Session IV

05:30–06:30 Dinner Symposium – MR-Guided Breast Interventions
Sponsored by Medicor, Kerpen, Germany / Hologic Inc, Bedford, USA

05:30 Tips, tricks and materials
Overview technical equipment for MRI-guided breast intervention
M. Brown
Bedford, MA, USA

06:00 MR guided breast intervention
C. Kuhl
Aachen, Germany

06:30 Adjourn

10:00–04:30 Satellite Seminar for MRI Technologists MR Application and Safety (in German)
Organized by MR:comp GmbH, Gelsenkirchen, Germany
Information: www.mrcomp.com
Contact: info@mrcomp.com

Session V

Saturday, September 25, 08:15–10:10 a.m.
HIFU, Navigation

Moderators: F. A. Jolesz (Boston, MA, USA)
C. Moonen (Bordeaux, France)

08:15 HIFU of uterine fibroids (V-27)
W. Gedroyc
London, UK

08:30 MR-guided high intensity focused ultrasound of liver and kidney (V-28)
C. Moonen
Bordeaux, France

Session V

- 08:45 In vivo MR acoustic radiation force imaging in the porcine liver (V-29)
A. B. Holbrook, J. M. Santos, Y. Medan, K. Butts Pauly
Stanford, CA, USA; Los Altos, CA, USA; Tirat Carmel, Israel
- 08:55 Evaluation of vessel-based focal point tracking for focused ultrasound surgery of liver under free breathing (V-30)
D. Kokuryo, E. Kumamoto, Y. Takao, T. Kaihara, K. Kuroda
Chiba, Japan; Kobe, Japan; Kanagawa, Japan
- 09:05 MR-guided focused ultrasound: acoustic radiation force imaging simultaneous with PRFS thermal monitoring at 3T using a fast GRE-EPI sequence (V-31)
V. Auboiroux, J.-N. Hyacinthe, J. Roland, M. Viallon, L. Petruca, Th. Goget, P. Gross, C. D. Becker, R. Salomir
Geneva, Switzerland; Erlangen, Germany
- 09:15 Navigation techniques for MR-guided interventions (V-32)
H. Busse, N. Garnov, G. Thörmer, T. Kahn, M. Moche
Leipzig, Germany
- 09:30 Real-time scan plane selection with a novel hand-held device for needle guidance (V-33)
M. J. Riffe, S. R Yutzy, D. A. Nakamoto, D. P. Hsu, J. L. Sunshine, C. A. Flask, V. Gulani, J. L. Duerk, M. A. Griswold
Cleveland, OH, USA; Pittsburgh, PA, USA
- 09:40 Multi-touch enabled real time MRI interventions (V-34)
A. B. Holbrook, J. M. Santos, K. Butts Pauly
Stanford, CA, USA; Los Altos, CA, USA
- 09:50 Real-time MR imaging with automatic instrument tracking from arbitrary camera positions (V-35)
N. Garnov, G. Thörmer, J. Otto, T. Kahn, M. Moche, H. Busse
Leipzig, Germany
- 10:00 Preliminary experience with real-time multiplanar bSSFP sequence for MR-guided intervention (V-36)
R. J. Stafford, L. Pan, K. Ahrar
Houston, TX, USA; Baltimore, MD, USA

10:10–10:40 **Coffee Break**

Saturday, September 25, 10:40–12:35 a.m. Biopsy, Robotics, Vascular

- Moderators:** G. Krombach (Gießen, Germany)
H. Busse (Leipzig, Germany)
- 10:40** Update on MR-guided biopsies (V-37)
M. Moche
Leipzig, Germany
- 10:55** Biopsy of liver lesions with MR fluoroscopy using an high field open MRI scanner (V-38)
F. Fischbach, J. Bunke, M. Thormann,
M. Ludewig, G. Gaffke, K. Jungnickel, J. Ricke
Magdeburg, Germany; Hamburg, Germany
- 11:05** MR-guided percutaneous retrograde drilling of osteochondritis dissecans of the knee (V-39)
R. Ojala, P. Kerimaa, M. Lakovaara, P. Hyvönen,
J. Korhonen, P. Lehenkari, O. Tervonen,
R. Blanco Sequeiros
Oulu, Finland
- 11:15** Evaluation of a gradient based needle tracking system for MR-guided interventions: phantom study and in-vivo evaluations (V-40)
S. Valdeig, B. Fetics, L. Pan, M. Philip,
C. R. Weiss, E. Nevo, D. L. Kraitichman,
F. K. Wacker
Baltimore, MD, USA
- 11:25** Diagnostic accuracy, usability, and workflow of a navigation solution for MRI-guided simulated biopsies outside the bore (V-41)
T. Riedel, N. Garnov, G. Thörmer, T. Kahn,
M. Moche, H. Busse
Leipzig, Germany
- 11:35** Introduction of a new device for MR guided bone biopsies (V-42)
M. Maybody, J. Kleimeyer, A. Winkel,
S. B. Solomon
New York, NY, USA; Schwerin, Germany
- 11:45** Robotics (V-43)
N. Hata
Boston, MA, USA

Session VI

- 12:00 Vascular applications (V-44)
G. Krombach
Gießen, Germany
- 12:15 Developing guidelines for successfully interleaving active tracking of catheters with steady-state imaging sequences (V-45)
E. K. Brodsky, O. Unal, W. F. Block
Madison, WI, USA
- 12:25 Percutaneous portal vein access based on electromagnetic field needle tracking navigation and MR-DynaCT fusion (V-46)
T. Ehtiati, F. Wacker, S. Valdeig, D. L. Kraitchman, C. Weiss
Baltimore, MD, USA
- 12:35–01:45 **Lunch Break**

Session VII

Saturday, September 25, 01:45–03:25 p.m. Vascular, Hybrid Systems

- Moderators:** R. Razavi (London, UK)
M. Gutberlet (Leipzig, Germany)
- 01:45 Cardiac applications (V-47)
R. Razavi
London, UK
- 02:00 Initial evaluation of a novel MR-EP RF ablation catheter (V-48)
S. Weiss, B. David, O. Lips, S. Krueger, K. M. Luedek, P. Koken, T. Schaeffter, J. Gill, R. Razavi
Hamburg, Germany; London, UK
- 02:10 Towards real-time MR-guided transarterial aortic valve implantation (TAVI): in vivo evaluation in swine (V-49)
H. H. Quick, P. Kahlert, H. Eggebrecht, G. M. Kaiser, N. Parohl, J. Albert, I. McDougall, R. Erbel, M. E. Ladd
Erlangen, Germany; Essen, Germany; Vancouver, BC, Canada

Session VII

- 02:20** TrueFISP based catheter tracking using a transmit array system (V-50)
H. Celik, I. D. Mahcicek, E. Atalar
Ankara, Turkey
- 02:30** Real-time MRI at high spatial and temporal resolution (V-51)
S. Zhang, M. Uecker, D. Voit, J. Frahm
Göttingen, Germany
- 02:40** Real-time intravascular-coil based MRI endoscopy at 3T (V-52)
P. A. Bottomley, S. Sathyanarayana, M. Schär, D. L. Kraitchman
Baltimore, MD USA; Cleveland, OH, USA; Bangalore, India
- 02:50** Augmented reality based MR image guided navigation system for flexible endoscope (V-53)
H. Haque, S. Morikawa, S. Naka, Y. Kurumi, H. Murayama, T. Tani, T. Tetsuji
Tokyo, Japan; Ohtsu, Japan
- 03:00** Hybrid C-arm/iMRI systems: Valuable contribution or unnecessary overkill (V-54)
F. Wacker
Baltimore, MD, USA
- 03:15** Simultaneous ultrasound/MRI motion monitoring in the abdomen (V-55)
L. Petruca, P. Arnold, Th. Goget, Z. Celicanin, V. Auboiroux, M. Viallon, F. Santini, V. De Luca, S. Terraz, C. Tanner, K. Scheffler, C. D. Becker, P. Cattin, R. Salomir
Geneva, Switzerland; Basel, Switzerland; Zurich, Switzerland

03:25–03:50 Coffee Break

Session VIII

**Saturday, September 25, 03:50–05:05 p.m.
Prostate**

Moderators: J. Ricke (Magdeburg, Germany)
F. Wacker (Baltimore, MD, USA)

- 03:50** Prostate MR guided interventions (V-56)
C. Tempany
Boston, MA, USA

Session VIII

- 04:05 Role of 3D imaging with SPACE in MR guided prostate biopsy. Sequence strategies (V-57)
M. Garmer, S. Mateiescu, M. Busch, D.H.W. Grönemeyer
Bochum, Germany
- 04:15 Clinical feasibility and initial results of targeted prostate biopsy in a wide-bore 3-Tesla MRI (V-58)
K. Tuncali, N. Hata, J. Tokuda, A. Fedorov, F. M. Fennessy, D. Kacher, I. Iordachita, S. Oguro, S. Song, Y. Tang, C. M. C. Tempany
Boston, MA, USA; Baltimore, MD, USA
- 04:25 Improved prostate-cancer staging with an integrated endo-rectal/tracking coil assembly (V-59)
L. Qin, E. J. Schmidt, W. S. Hoge, J. Santos, C. Tempany-Afdbal, K. Butts-Pauly, C. L. Dumoulin
Boston, MA, USA; Stanford, CA, USA; Cincinnati, OH, USA
- 04:35 Initial experience using 3.0T MRI guided laser ablation for a prostate cancer recurrence in the post-surgical prostate bed (V-60)
D. A. Woodrum, L. A. Mynderse, A. Kawashima, K. R. Gorny, T. D. Atwell, E. F. McPhail, K. K. Amrami, H. Bjarnason, M. R. Callstrom
Rochester, MN, USA
- 04:45 Preliminary experience with a supine MR guided transrectal needle guidance system for prostate cancer targeted radiotherapy (V-61)
C. Ménard, D. Iupati, J. Thoms, M. Haider, A. Bayley, P. Chung, J. Abed, A. Simeonov, J. Publicover, W. Foltz, C. Elliott, D. Gallop, A. Krieger, M. Milosevic, P. Warde, R. Bristow
Toronto, ON, Canada
- 04:55 Online guidance of tumor targeted brachytherapy using histologically referenced MRI (V-62)
D. Iupati, M. Haider, P. Chung, J. Abed, A. Simeonov, J. Publicover, J. Lee, K. Brock, W. Foltz, G. O'Leary, C. Elliott, A. Krieger, D. Gallop, M. Milosevic, R. Bristow, G. Morton, P. Warde, C. Ménard
Toronto, ON, Canada

05:05 **Poster Awards and Conclusions**
F. A. Jolesz, J. S. Lewin, Th. Kahn

05:15 **Adjourn**



Medicor

Besuchen Sie unser Dinner Symposium am Freitag, den 24.09.2010 um 17:30 Uhr



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Poster Discussion Session

- P-01** Efficacy of magnetic resonance image-guided liver surgery with a motorized manipulator
S. Naka, Y. Kurumi, H. Murayama, K. Murakami, H. Shiomi, T. Tani, S. Morikawa, J. Tokuda, N. Hata, H. A. Haque
Otsu, Japan; Boston, MA, USA; Tokyo, Japan
- P-02** High field DTI data in the setting of real time intraoperative low field MRI for millimeterscale guidance – effects of mechanical tissue distortion by surgical instruments
A. G. Filler
Santa Monica, CA, USA
- P-03** An optimized implantation system for MRI-guided neuro interventions: preliminary evaluation of targeting accuracy
A. J. Martin, P. A. Starr, G. Bates, L. Tansey, R. M. Richardson, P. S. Larson
San Francisco, CA, USA; Irvine, CA, USA
- P-04** Supine breast MRI: first steps towards image-aided breast-conserving surgery
P. Siegler, C. Holloway, P. Causer, G. Sela, G. Thevathasan, D. B. Plewes
Toronto, ON, Canada
- P-05** Real-time multi-baseline PRF-based MR thermometry for MR-guided RF ablation procedures
P. Wang, W. Block, O. Unal
Madison, WI, USA
- P-06** Fat temperature imaging based upon T1 of fatty acid species using multiple flip angle multipoint Dixon acquisitions
K. Kuroda, T. Iwabuchi, M. K. Lam, M. Obara, M. Honda, K. Saito, M. V. Cauteren, Y. Imai
Hiratsuka, Japan; Kobe, Japan; Utrecht, Netherlands; Tokyo, Japan; Isehara, Japan
- P-07** Reference-free PRFS MR-thermometry using quasi-harmonic 2D reconstruction of the background phase
R. Salomir, M. Viallon, A. Kickhefel, J. Roland, L. Petruca, V. Auboiron, Th. Goget, S. Terraz, D. Morel, C. D. Becker, P. Gross
Geneva, Switzerland; Erlangen, Germany
- P-08** MR temperature imaging validation of a bioheat transfer model for 3D prospective planning of LITT
D. Fuentes, A. Elliott, J. Hazle, R. J. Stafford
Houston, TX, USA

- P-09** MR-guided trans-perineal cryoablation of locally recurrent prostate adenocarcinoma following radical retropubic prostatectomy (RRP): case series
D. A. Woodrum, L. A. Mynderse, A. Kawashima, K. R. Gorny, T. D. Atwell, E. F. McPhail, B. Bolster, K. K. Amrami, H. Bjarnason, M. R. Callstrom
Rochester, MN, USA
- P-10** Chemical shift-compensated hybrid referenceless and multi-baseline subtraction thermometry
W. A. Grissom, V. Rieke, A. B. Holbrook, Y. Medan, K. Butts Pauly, C. Davis
Munich, Germany; Stanford, CA, USA; Tirat Carmel, Israel; Niskayuna, NY, USA
- P-11** Chemically selective asymmetric spin-echo EPI phase imaging for internally referenced MR thermometry
M. N. Streicher, D. Ivanov, D. Müller, A. Pampel, A. Schäfer, R. Turner
Leipzig, Germany
- P-12** Dual-echo pulse sequence for temperature mapping of intradiscal laser ablation in an 1.0T open MRI
U. Wonneberger, B. Schnackenburg, W. Włodarczyk, T. Walter, F. Streitparth, J. Rump, U. Teichgräber
Berlin, Germany; Hamburg, Germany
- P-13** Interference-free PRF-based MR thermometry – initial experience in 34 cases of hepatic laser ablation
C. Rosenberg, A. Kickhefel, J. Roland, R. Puls, N. Hosten
Greifswald, Germany; Erlangen, Germany
- P-14** Evaluation of the thermal dose concept during MR-guided RFA in a high field open system at 1.0 T
K. Jungnickel, K. Lohfink, J. Bunke, K. Will, M. Ludewig, A. Omar, J. Ricke, F. Fischbach
Magdeburg, Germany; Hamburg, Germany
- P-15** PRFS Thermometry during radiofrequency ablation is corrupted by cavitation's effects: observation with simultaneous US/MR imaging and first order correction
M. Viallon, S. Terraz, J. Roland, E. Dumont, C. D. Becker, R. Salomir
Geneva, Switzerland; Erlangen, Germany; Pessac-Bordeaux, France

Poster Discussion Session

- P-16** Echo time optimization in multi-point Dixon technique for component separation in fat temperature imaging
M. K Lam, T. Iwabuchi, K. Saito, K. Kuroda
Hiratsuka, Japan; Utrecht, Netherlands; Kobe, Japan
- P-17** Evaluation of reference-less PRF MR thermometry using LITT patient data
A. Kickhefel, C. Rosenberg, J. Roland, P. Gross, F. Schick, N. Hosten, R. Salomir
Erlangen, Germany; Tübingen, Germany; Greifswald, Germany; Geneva, Switzerland
- P-18** First clinical experience with navigated RF ablations in the liver using a closed-bore 1.5T MRI
D. Seider, H. Busse, N. Garnov, G. Thörmer, S. Heinig, T. Kahn, M. Moche
Leipzig, Germany
- P-19** High-power filter for online MR treatment monitoring during RF Ablation
K. Will, K. Jungnickel, F. Fischbach, J. Ricke, G. Rose, A. Omar
Magdeburg, Germany
- P-20** Laser-induced thermotherapy (LITT) of the liver in an open 1.0 T high-field MRI system – evaluation of a novel miniaturized closed cooling circuit applicator
G. Knobloch, F. Streitparth, D. Balmert, J. Rump, S. Chopra, U. Wonneberger, B. Hamm, U. Teichgräber
Berlin, Germany; Teltow, Germany
- P-21** Guidance and thermometry of laser diskectomies in open high-field MRI – a cadaveric and clinical feasibility study
F. Streitparth, T. Walter, B. Schnackenburg, U. Wonneberger, M. de Bucourt, J. Rum, U. Teichgräber
Berlin, Germany; Hamburg, Germany
- P-22** MRgHIFU thermal ablations in sheep's renal cortex: in vivo demonstration of focusing accuracy and safety considerations
L. Petruca, M. Viallon, Th. Goget, D. Morel, X. Montet, V. Auboiron, S. Terraz, C. D. Becker, R. Salomir
Geneva, Switzerland
- P-23** Three-dimensional motion analysis for local volume of hepatic tissue under sonication based on portal tree structure
Y. Takao, M. Hayashi, D. Kokuryo, E. Kumamoto, T. Kaihara, K. Kuroda
Kobe, Japan; Chiba, Japan; Hiratsuka, Japan

- P-24** Histological morphology of lesions in turkey breast produced by MR-guided high-intensity focused ultrasound (MR-HIFU)
A. Neumann, M. Karul, H. Merz, J. Barkhausen, P. Hunold
Lübeck, Germany
- P-25** High-resolution MRI of RF lesion temporal evolution
A. Shmatukha, X. Qi, S. Ghate, M. Pop, J. Barry,
S. Oduneye, J. Stainsby, G. Wright, E. Crystal
Toronto, ON, Canada
- P-26** Choice of the sonication pattern for rapid volumetric MRgHIFU ablation under spatio-temporal control of temperature: ex vivo and in vivo experimental studies
L. Petruca, M. Viallon, Th. Goget, D. Morel, V. Auboiroux,
S. Terraz, C. D. Becker, R. Salomir
Geneva, Switzerland
- P-27** Clinical experience with navigated liver biopsies in a closed-bore 1.5T scanner
M. Moche, G. Thörmer, N. Garnov, J. Fuchs, J. Otto,
S. Heinig, T. Kahn, H. Busse
Leipzig, Germany
- P-28** Interactive MR guided percutaneous nephrostomy using an open high field MR-scanner
F. Fischbach, M. Porsch, M. Pech, O. Dudeck, J. Bunke,
U.-B. Liehr, J. Ricke
Magdeburg, Germany; Hamburg, Germany
- P-29** Passive navigation method for MRI-assisted orthopedic interventions
C. J. Seebauer, H. J. Bail, J. C. Rump, F. Güttler, U. Teichgräber
Berlin, Germany; Nuremberg, Germany
- P-30** Step lightly! – MR imaging guided steroid injection of the sacroiliac joints in children with enthesitis-related arthritis: safety, technical efficiency and anti-inflammatory effectiveness
J. Fritz, N. Tzaribachev, A. J. M. Segundo, C. Thomas,
C. D. Claussen, J. A. Carrino, J. S. Lewin, P. L. Pereira
Baltimore, MD, USA; Tübingen, Germany; Bad Bramstedt, Germany; Heilbronn, Germany
- P-31** Tailored interactive sequences for continuous MR-image-guided freehand biopsies of different organs in an open system at 1.0 Tesla: preliminary results
M. de Bucourt, U. Teichgräber, F. Streitparth
Berlin, Germany

Poster Discussion Session

- P-32** Imaging speed for MR guided punctures
J. C. Rump, M. Jonczyk, C. J. Seebauer, F. Stretparth,
F. V. Güttler, U. K. M. Teichgräber
Berlin, Germany
- P-33** Localization accuracy and performance of cordless MR-
visible markers for 3T imaging
G. Thörmer, N. Garnov, J. Otto, J. Haase, T. Kahn,
M. Moche, H. Busse
Leipzig, Germany
- P-34** Phase only cross-correlation tracking of a passive marker
for MR-guided interventions
R. J. Stafford, F. Maier, A. J. Krafft, M. Bock, A. Winkel, K. Ahrar
Houston, TX, USA; Heidelberg, Germany;
Schwerin, Germany
- P-35** Advanced scan-geometry planning for MR-EP interventions
P. Koken, R. Holthuisen, J. Smink, S. Krueger, S. Weiss,
A. J. Wiethoff, T. Schaeffter
Hamburg, Germany; Best, Netherlands; London, UK
- P-36** MRI guided kyphoplasty – a new interventional approach
R. Schilling, F. Wichlas, J. Rump, U. Teichgräber
Berlin, Germany
- P-37** Online scan control using a standard footswitch during
interventional MRI in a high field open system at 1.0 T
M. Ludewig, K. Will, J. Smink, K. Jungnickel, J. Bunke,
A. Omar, J. Ricke, F. Fischbach
Magdeburg, Germany; Hamburg, Germany;
Best, Netherlands
- P-38** Construction of a MR compatible arthroscopic system and
its clinical application
C. J. Seebauer, H. J. Bail, J. C. Rump, F. Güttler,
U. Teichgräber
Berlin, Germany; Nuremberg, Germany
- P-39** Communication in intraoperative MRI: a low-cost wireless
multiuser solution
F. V. Güttler, J. Rump, P. Krauß, C. Seebauer, U. Teichgräber
Berlin, Germany

Poster Discussion Session

- P-40** Development of a real-time interactively controllable MRI-guided therapy platform
L. Zhao, J. Xu, H. Liu
Langfang, China; Boston, MA, USA
- P-41** Evaluation of accuracy and clinical feasibility of the MR-compatible image overlay
P. U-Thainual, J. Fritz, N. Cho, T. Ungi, A. J. M. Segundo, J. A. Carrino, G. Fichtinger, J. S. Lewin, I. Iordachita
Kingston, ON, Canada; Baltimore, MD, USA
- P-42** Toward a new approach for automatic device tracking inside a closed-bore MRI
G. Thörmer, N. Garnov, J. Haase, T. Kahn, M. Moche, H. Busse
Leipzig, Germany
- P-43** Esophageal imaging in vivo using intraluminal RF coil for integrated MR-endoscope system
Y. Matsuoka, M. Matsumoto, S. Aizawa, H. Yoshinaka, M. Takenaka, Y. Morita, H. Kutsumi, T. Azuma, K. Kuroda
Kobe, Japan; Osaka, Japan; Hiratsuka, Japan
- P-44** Microsystems technology fabrication process for resonant iMRI markers
K. Will, S. Schimpf, A. Brose, F. Fischbach, J. Ricke, B. Schmidt, G. Rose
Magdeburg, Germany
- P-45** Development of a visualization software for MR-endoscope tracked by a magnetic field sensor
S. Aizawa, M. Matsumoto, Y. Matsuoka, K. Kuroda, E. Kumamoto
Kobe, Japan; Hiratsuka, Japan
- P-46** Image-based correction of tracking sensor measurements for fusion display in MR-endoscope
M. Matsumoto, S. Aizawa, Y. Matsuoka, E. Kumamoto, K. Kagayaki, T. Kaihara
Kobe, Japan; Hiratsuka, Japan
- P-47** XIP Software for XFM (X-ray fused with MRI)
E. Özdal, A. Yazıcı, C. Öztürk
Istanbul, Turkey

Poster Discussion Session

- P-48** Automatic scan plane adjustment in intraoperative MRI: let the image follow the instrument – preliminary results
F. V. Güttler, J. Rump, U. Teichgräber, C. Seebauer, P. Krauß, B. Hamm
Berlin, Germany
- P-49** Physiological saline as a contrast agent for MR-guided epidural pain therapy
D. H. W. Grönemeyer, J. Becker, S. Mateiescu, M. Deli, M. Busch
Bochum, Germany
- P-50** Comparison of MR imaging characteristics of a novel polymer-based bio-absorbable stent and a conventional metallic stent
S. Paul, G. S. Sandhu, P. Ehses, V. Gulani, J. L. Duerk, J. L. Sunshine, M. A. Griswold
Cleveland, OH, USA, Würzburg, Germany
- P-51** Integrated system for electrophysiology and MR catheter tracking
S. O. Oduneye, A. Shmatukha, V. Verpakhovski, C. L. Dumoulin, E. Schmidt, E. Crystal, G. A. Wright
Toronto, ON, Canada; Niskayuna, NY, USA; Boston, MA, USA
- P-52** Catheter tracking in MRI guided interventions using resonant circuits in an open high field MR environment: simulations and experimental measurements
J. Krug, K. Will, G. Rose
Magdeburg, Germany
- P-53** Coronary sinus extraction for multimodality registration to guide transeptal puncture
F. Bourier, A. Brost, L. Yatziv, J. Hornegger, N. Strobel, K. Kurzidim
Regensburg, Germany; Erlangen, Germany; Mountain View, CA, USA; Forchheim, Germany

Poster Discussion Session

- P-54** MR imaging characteristics of stents and flow-diverters manufactured for intracranial use
A. Arat, O. Unal
Madison, WI, USA
- P-55** Interventional imaging using HEFEWEIZEN
K. Dara, J. J. Derakhshan, J. L. Duerk, J. L. Sunshine,
M. A. Griswold
Cleveland, OH, USA
- P-56** Procedural and technical aspects of MRI-guided prostate biopsy in a closed wide-bore 3-Tesla scanner
N. Hata, J. Tokuda, A. Fedorov, F. M. Fennessy, S. Gupta,
D. Kacher, I. Iordachita, S. Oguro, S. Song, Y. Tang,
C. M. C. Tempny, K. Tuncali
Boston, MA, USA; Baltimore, MD, USA
- P-57** Dependence of tip heating on device connection
O. Lips, B. David, S. Krüger, K. M. Lüdeke, S. Weiss
Hamburg, Germany
- P-58** Designing MRI-safe implantable leads
P. A. Bottomley, A. Kumar, W. A. Edelstein, J. M. Allen,
P. V. Karmarkar
Baltimore, MD, USA

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Information for Authors

Main Lectures

Lectures on the main scientific topics will be given by invited speakers.

Oral Presentations

The scientific sessions will include oral presentations of proffered papers. Speaking time will be 10 minutes including 2 minutes discussion. The time given is a maximum and includes the way to the desk. The time will be monitored by light signals. Yellow is the last minute, red indicates exceeding the time. Please provide your Powerpoint presentation (on CD-ROM or USB memory device) to a technical staff member at the Audiovisual Desk at least two hours prior to the start of the session.

Poster Presentations

A poster exhibition will be held throughout the meeting. The posters must remain displayed from Friday, September 24, 08:00 a.m. through Saturday, September 25, 05:15 p.m. The poster discussion session is scheduled for Friday, September 24, 01:45 p.m. – 03:00 p.m. All authors of posters must be present and prepared to discuss their work during the session.

Poster Awards

To appreciate the high level of scientific exhibits three poster awards will be donated. The scientific exhibits will be judged by members of the faculty on the basis of creative thought, significance to the field, thoroughness, technical skill and clarity of presentation.

Magna cum laude: EURO 500.–

Summa cum laude: EURO 300.–

Cum laude: EURO 200.–

Award recipients will be announced after SESSION VIII at the "Conclusions".

Conference Language

All lectures and presentations will be in English.

Abstracts

Every participant will receive a Symposium Syllabus containing all abstracts.

General Information

Conference Date

September 24–25, 2010

Venue

The Westin Leipzig
Gerberstrasse 15
04105 Leipzig, Germany
Phone: ++49-(0)341-988-0
Fax: ++49-(0)341-988-1229
E-Mail: info@westin-leipzig.com

Registration Fees

including Welcome Reception and all Lunch and Coffee Breaks

Regular (before September 1, 2010): EURO 250.–

On-site (after September 1, 2010): EURO 300.–

One Day Tickets

Friday, September 24, 2010: EURO 150.–

Saturday, September 25, 2010: EURO 150.–

All symposium registrations and hotel reservations must be sent to [akd congress & events](#).

Please send the enclosed filled registration form together with the registration fee ([akd congress & events](#) is able to handle forms together with payments only).

Congress Office

Thursday, September 23, 2010:

04:00 p.m. – 08:30 p.m.

Friday, September 24, 2010:

07:30 a.m. – 06:00 p.m.

Saturday, September 25, 2010:

08:00 a.m. – 06:00 p.m.

Welcome Reception

Thursday, September 23, 2010 at 7:30 pm in the congress centre with dinner and entertainment. All registrants and accompanying persons are cordially invited.

For further information please contact

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www.uni-leipzig.de/radiologie

Local Organizing Committee

Harald Busse

Jochen Fuchs

Nikita Garnov

Michael Moche

Gregor Thörmer

Industrial Exhibition

In the foyer of the conference center an industrial exhibition will take place. For information please contact akd congress & events.

Congress Agency

akd congress & events

Elsterstrasse 4

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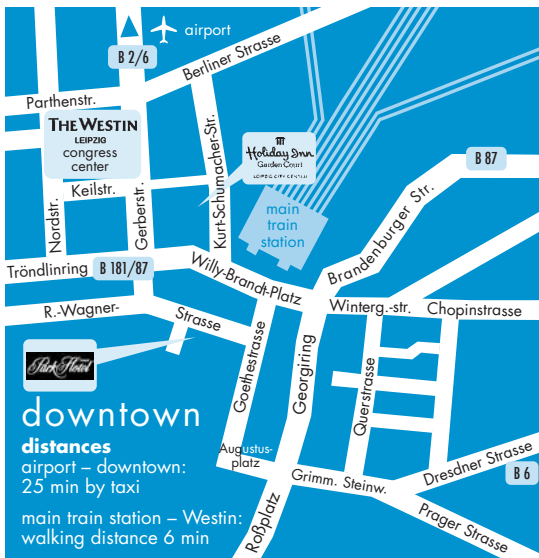
Hotel Reservation

Hotel reservations will be handled by akd congress & events. Requests for accommodation should be made on the enclosed official registration form only.

Hotel	Single Room	Double Room
The Westin Leipzig (congress center)	EURO 152,00	EURO 172,00
Seaside Park Hotel (10 minutes walking distance to congress center)	EURO 110,00	EURO 130,00
Holiday Inn Garden Court (5 minutes walking distance to congress center)	EURO 79,00	EURO 89,00

The rates are per night and include breakfast, service charge and VAT.

The costs for accommodation have to be paid directly in the hotel before departure.



Method

Please transfer the registration fee to the below mentioned bank account.

- Bank transfer to
Acc. no. 119778901
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Deutsche Bank AG
IBAN: DE 74 860 700 240 1197789 01
BIC (SWIFT): DEUT DE DBLEG
- Check
- Credit Card (Visa, Eurocard/Mastercard,
American Express)

The payment must be in EURO.
Per each transfer a bank/credit card fee of EURO 16,00
will be charged.

Exception

Bank transfer within Germany.

Cancellations

Cancellation is possible in writing or by telefax only.

Symposium

For cancellation received before August 31, 2010, a fee of EURO 100,00 will be charged. No refunds will be made after September 1, 2010.

Hotel

For cancellations until August 5, 2010 the cancellation fee is EURO 50.00 per room. Later on, you will have to pay the relevant no show fee for each cancelled night (for cancellations until 8 days before arrival min. 50 % of the price, up from 7 days before arrival 90 % of the price).



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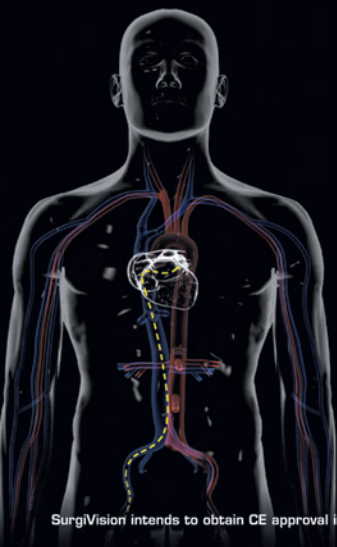
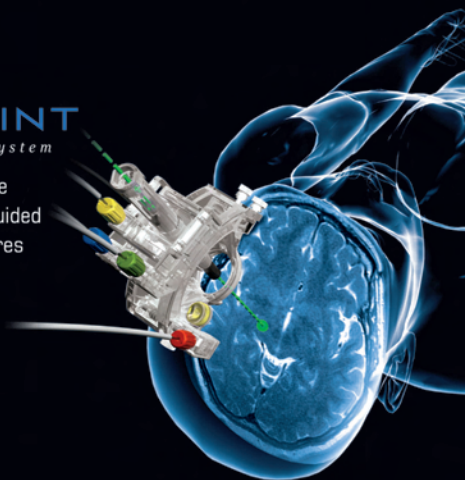
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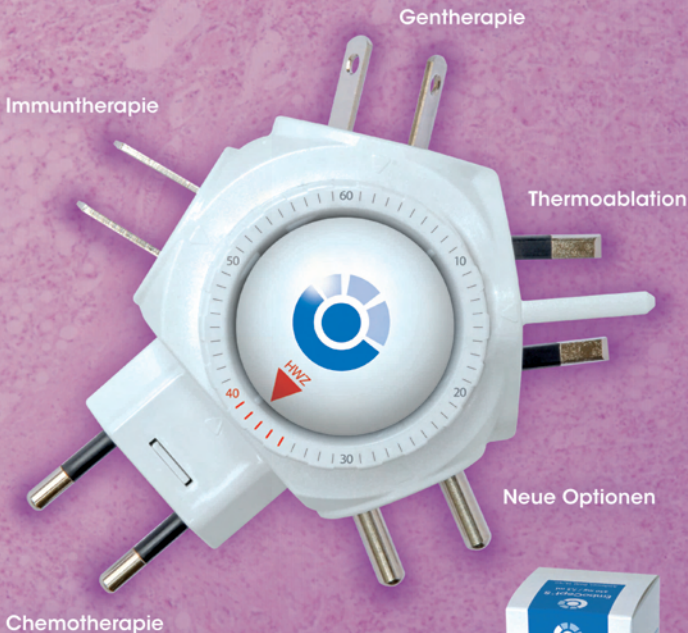
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