We would like to celebrate the passing of another exciting ESMRMB Meeting with a Farewell Party at the Centro de Congressos de Lisboa!

Saturday, October 6 at 19:30
Centro de Congressos de Lisboa
Restaurant on Level 1

At 19:00 the Closing and Award Ceremony will take place in Auditorium I.

At 19:30 we will then move to the restaurant area and give three cheers to our hosting country Portugal.

Our MR Enterprise Members have prepared two questions, the answer to which can be found at their booth and/or lunch symposium!

The questionnaire is available at the registration desk!

Make sure to answer all questions and to hand in your completed questionnaire at the registration desk until Saturday, October 6, 18:00 and **win a free registration to the ESMRMB 2013 congress in Toulouse/FR or to a course of ESMRMB’s educational programmes!**

The winner of the quiz will be announced during the Closing Ceremony on Saturday, October 6 at 19:00 in Auditorium I.
Join us at ESMRMB’s 2012 WELCOME RECEPTION

Thursday, October 4
19:00h
Centro de Congressos de Lisboa
Pavillon 3, entrance level

Please present your congress badge at the entrance!

Kindly sponsored by
GE Healthcare

PHILIPS
TOSHIBA
Leading Innovation
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Room 5A</th>
<th>Room 5B</th>
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<tbody>
<tr>
<td>08:00-09:00</td>
<td>Mini-Categorical Course Artifacts in MSK MRI</td>
<td>Mini-Categorical Course Neuro-Imaging</td>
<td>Mini-Categorical Course Quality Control</td>
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<tr>
<td>09:10-10:20</td>
<td>Plenary Session, Honorary + Fellowship Awards Sir Peter Mansfield Lecture</td>
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<td>10:30-12:00</td>
<td>Plenary Session, CEST si bon!</td>
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<td>12:30-13:30</td>
<td>Industry Symposium, Siemens</td>
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<tr>
<td>15:30-17:00</td>
<td>Teaching Session, Parallel transmission in MRI</td>
<td>Scientific Session – Clinical Applications prostate: MR Imaging and Spectroscopy</td>
<td>Scientific Session – Preclinical Studies &amp; Basic Science Non CEST nor PARACEST contrast agents</td>
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<td>Plenary Session, Defining the human connectome</td>
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<td>Industry Symposium, Philips</td>
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<td>17:50-18:50</td>
<td>Hot Topic Debate, Hyperpolarisation, will it make it to the clinic?</td>
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<tr>
<td>09:10-10:40</td>
<td>Plenary Session, MR in personalised medicine</td>
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<tr>
<td>10:50-12:20</td>
<td>Teaching Session, Advances in stroke MR Imaging</td>
<td>Scientific Session – Preclinical Studies &amp; Basic Science Pushing the boundaries of IMRI</td>
<td>Scientific Session – Clinical Applications Rectal and liver MRI: the challenges</td>
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<td>12:30-14:00</td>
<td>Industry Symposium, GE Healthcare</td>
<td>ESMRMB Annual Business Meeting</td>
<td>Industry Symposium, Toshiba</td>
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<tr>
<td>16:10-17:40</td>
<td>Teaching Session, Spine imaging</td>
<td>Scientific Session – Preclinical Studies &amp; Basic Science Ultra-short echo time: techniques and insights</td>
<td>Euro-Biomaging Session Update on the European Research Infrastructure for Imaging Technologies</td>
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<tr>
<td>17:50-18:50</td>
<td>Round Table Discussion, Does MR-PET really make sense from a clinical &amp; technical point of view?</td>
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<td>19:00</td>
<td>Closing Ceremony &amp; Awards</td>
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The tracks are suggestions made by the Scientific Programme Committee, thus not compulsory to follow.

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<tr>
<th>ROOM 5C</th>
<th>AUDITORIUM III</th>
<th>AUDITORIUM IV</th>
<th>Meet the Authors</th>
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<tr>
<td>Mini-Categorical Course Cardiac Technological advances</td>
<td>ENCITE Mini-Categorical Course Contrast enhanced cellular labelling Alternative intrinsic and extrinsic cell traces</td>
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<td>Radiographers’ Session Everything you always wanted to know, but never dared to ask I</td>
<td>Scientific Session – Preclinical Studies &amp; Basic Science Novel Methods in Quantitative Brain Imaging</td>
<td>Poster Highlights Session Highlights in diffusion imaging</td>
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<td>Scientific Session – Preclinical Studies &amp; Basic Science Novel Methods in Quantitative Brain Imaging</td>
<td>Preclinical Studies &amp; Basic Science MRS in the human liver, skeletal muscle &amp; adipose tissue</td>
<td>Poster Highlights Session MRI applications and methods</td>
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<td>Scientific Session – Preclinical Studies &amp; Basic Science New tools</td>
<td>Scientific Session – Preclinical Studies &amp; Basic Science The power of spectroscopy in animal models of brain pathology</td>
<td>Poster Highlights Session MRI and MRS in paediatric problem solving</td>
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<td>Mini-Categorical Course Cardiac Ischemic heart disease</td>
<td>ENCITE Mini-Categorical Course Contrast enhanced cellular labelling Cellular labelling: new challenges</td>
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<td>Scientific Session – Preclinical Studies &amp; Basic Science Safety and Bioeffects</td>
<td>Scientific Session – Preclinical Studies &amp; Basic Science Motion correction – Body</td>
<td>Poster Highlights Session MR insights in the human brain</td>
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<td>Scientific Session – Preclinical Studies &amp; Basic Science MRS data acquisition</td>
<td>Scientific Session – Preclinical Studies &amp; Basic Science Dynamic shims, fluctuating fields</td>
<td>Poster Highlights Session Exploring new channels in flow and perfusion</td>
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<td>ENCITE Mini-Categorical Course Contrast enhanced cellular labelling Cell labelling &amp; tracking; clinical context</td>
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<td>Scientific Session – Preclinical Studies &amp; Basic Science RF Arrays – Transmit and Receive</td>
<td>Preclinical Studies &amp; Basic Science 1H MRS in human brain and spine – technical issues</td>
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You benefit from a patient-focused, cost-effective 1.5T MR system, featuring a 74cm oval bore and an extra-wide patient table combined with superior imaging capabilities.

Your patients experience a comfortable, calming and spacious environment in an MR system built around the shape of the human body.

Echelon Oval
The human shape

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www.hitachi-medical-systems.com
Dear Colleagues, Friends and MR Enthusiasts,

On behalf of the Executive Board, the Scientific Programme Committee and the Local Organising Committee, it is our great pleasure to welcome you to the city of Lisbon for the 29th Annual Scientific Meeting of the European Society for Magnetic Resonance in Medicine and Biology. Researchers and users with a multitude of educational and scientific background gather at this meeting to take advantage of the interdisciplinary and interactive flavour. This is reflected in a well-balanced scientific programme that is attractive to clinicians, basic scientists and MR engineers alike. This year for the first time, this scope is extended to include sessions targeted towards radiographers.

Our scientific meeting is steadily growing with a record number of abstract submissions. ‘Meet the Author’ time slots and Poster Highlight Sessions will provide opportunities for direct interaction between attendees and poster presenters. In addition, watch out for our most popular Hot Topic Debate, Round Table Discussion and Young Investigator Award Finals. Attendees will also encounter a wide range of educational options – five Mini-Categorical Courses will be held in the early morning hours and eight Teaching Sessions will take place in parallel with the Scientific Sessions. The popular Educational Quiz will again offer attractive prizes. The meeting will feature industry-sponsored Lunch Symposia and an extensive technical exhibition displaying the latest products from major industrial and pharmaceutical companies involved in MRI. We encourage you to also exchange information with our industry partners. Be sure to participate in the MR Enterprise Quiz.

The Local Organising Committee cordially invites you to the Welcome Party on the night of Thursday, October 4. You are also welcome to join us at the Farewell Reception on Saturday, October 6.

Lisbon is a beautiful and vibrant city with a long history, strategically located on the banks of the Tagus river, with delightful beaches close by. It has many beautiful spots, great attractions, wonderful night life, fantastic food and nice weather, which means a lot to offer to all attendees.

We thank you all for your contributions and efforts to make this meeting a success. Once again, the ESMRMB is proud to welcome you as part of the worldwide MR community to its 29th Annual Scientific Meeting in Lisbon. We sincerely hope that you will have a wonderful time in Lisbon!

Prof. Dr. Oliver Speck  
ESMRMB President

Prof. Stefan Sunaert  
Chairperson, Scientific Programme Committee

Prof. Dr. Mário Forjaz Secca  
Chairperson, Local Organising Committee
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Steinbrich, Wolfgang, Basel/CH

Director, Lectures on MR
Scheffler, Klaus, Tübingen/DE

Director, Hands-On MRI
Van der Lugt, Aad, Rotterdam/NL

Chairperson of the SPC 2012
Sunaert, Stefan, Leuven/BE

Chairperson of the LOC 2012
Forjaz Secca, Mario, Lisbon/PT

Chairperson of the SPC 2013
Golay, Xavier, London/UK

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F. Caseiro Alves, Coimbra/PT
P. Figueiredo, Lisbon/PT
C. Geraldes, Coimbra/PT
A. Goulão, Lisbon/PT
R. Manaças, Lisbon/PT
N.J. Tavares, Lisbon/PT

Scientific Programme Committee

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R. Beets-Tan, Maastricht/NL
J.L. Bloem, Leiden/NL
M.A. Cova Triest/IT
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Ch. Segebarth, Grenoble/FR
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- GE Healthcare
- Hitachi Medical Systems
- Philips Healthcare
- Siemens Healthcare
- Toshiba

**Corporate Members**
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- GE Healthcare
- Philips Healthcare
- Siemens Healthcare
Delegates attending the Teaching Sessions are encouraged to participate in the teaching quiz!

Answer sheets are available at the registration desk as well as in front of Auditorium I. All quiz cases are displayed on the staircase from the entrance level to level 1. The winner of the quiz will be announced during the Closing Ceremony on Saturday, October 6, at 19:00 in Auditorium I.
List of Reviewers

E. Achten, Ghent/BE
M. Alecchi, L’Aquila/IT
P. Algra, Alkmaar/NL
C. Arus, Cerdanyola del Vall/ES
E. Atalar, Ankara/TR
C. Barillot, Rennes/FR
M. Barth, Nijmegen/NL
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I. Berry, Toulouse/FR
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V. Callot, Marseille/FR
A. Capdevila, Barcelona/ES
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W. Dreher, Bremen/DE
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S. Dymarkowski, Leuven/BE
C. Faber, Münster/DE
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J. Fütterer, Nijmegen/NL
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B. Giannesini, Marseille/FR
N. Girardini, Marseille/FR
X. Golay, London/UK
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P.M. Jakob, Würzburg/DE
J. Jovicich, Mattarello/IT
M. Julià-Sapé, Cerdanyola Del Valles/ES
T. Kahn, Leipzig/DE
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U. Klose, Tübingen/DE
L. Knutsson, Lund/SE
F. Kober, Marseille/FR
S. Kozerke, Zurich/CH
E.-M. Larsson, Uppsala/SE
D. Le Bihan, Gif-sur-Yvette/FR
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A. Leemans, Utrecht/NL
M. Lemot, Brussels/BE
M. Maas, Amsterdam/NL
J. Machann, Tübingen/DE
C. Matos, Brussels/BE
R. Méndez, Madrid/ES
D. Monleon, Burjassot/ES
E. Moser, Vienna/AT
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D. Norris, Nijmegen/NL
M. Noseworthy, Ontario/CA
B. Op de Beeck, Edegem/BE
R. Peeters, Leuven/BE
V. Positano, Pisa/IT
D. Prayer, Vienna/AT
K. Prüßmann, Zürich/CH
J.-P. Ranjeva, Marseille/FR
P. Reimer, Karlsruhe/DE
A. Rovira, Barcelona/ES
F. Saez, Bilbao/ES
D. Sappey-Marinier, Bron/FR
L. Schad, Mannheim/DE
F. Schick, Tübingen/DE
C. Segebarth, Grenoble/FR
J. Sijbers, Antwerp/BE
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A.M. Taylor, London/UK
M. Thiebaut de Schotten, Paris/FR
S. Trautnig, Vienna/AT
R. Turner, Leipzig/DE
S. Ulmer, Basel/CH
M. van Buchem, Leiden/NL
L. van den Hauwe, Brasschaat/BE
J. van der Grond, Leiden/NL
A. Van Der Linden, Antwerp/BE
A. van der Lugt, Rotterdam/ NL
M. Van Osch, Leiden/NL
F. Vanhoenacker, Antwerp/BE
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V. Vilgrain, Clichy/FR
M. von Kienlin, Basel/DE
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J. Wikström, Uppsala/SE
B.J. Wintersperger, Toronto/CA
R. Wirestam, Lund/SE
W. Zaaraoui, Marseille/FR
Abstracts
ESMRMB 2012 abstracts have been published as an electronic supplement to MAGMA, the official journal of the Society, accessible via the ESMRMB website. The electronic supplement has been published on springerlink.com. It is available on all Springer servers worldwide, and can thus reach a huge audience. The digital object identifier (DOI) ensures that all abstracts of the ESMRMB 2012 meeting are fully citable in literature.

Abstracts, Thursday, October 4, 2012
DOI: 10.1007/s10334-012-0321-z
Abstracts, Friday, October 5, 2012
DOI: 10.1007/s10334-012-0322-y
Abstracts, Saturday, October 6, 2012
DOI: 10.1007/s10334-012-0323-x
EPOS™ Poster, Paper Poster, Clinical Review Poster, Software Exhibits
DOI: 10.1007/s10334-012-0324-9
Author Index
DOI: 10.1007/s10334-012-0325-8

In addition, ESMRMB 2012 abstracts as well as information on all sessions and scientific exhibits including session date and location, can be accessed via the Online Programme Planner at www.esmrmb.org, which offers advanced search functions. For environmental reasons ESMRMB has decided not to produce CD-ROMs. Instead, the complete electronic Book of Abstracts, the syllabus of the Teaching Sessions, the Industry Symposia Programme and the Exhibition Guide are available to all ESMRMB 2012 Congress participants for download at the ESMRMB website under: ESMRMB 2012 Congress – Download Congress Documents.

Accreditation
The ‘ESMRMB – European Society for Magnetic Resonance in Medicine and Biology’ (or) ‘ESMRMB CONGRESS 2012’ is accredited by the European Accreditation Council for Continuing Medical Education (EACCME) to provide the following CME activity for medical specialists. The EACCME is an institution of the European Union of Medical Specialists (UEMS), www.uems.net.
The ‘ESMRMB CONGRESS 2012’ is designated for a maximum of (or ‘for up to’) 18 hours of European external CME credits. Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.
Through an agreement between the European Union of Medical Specialists and the American Medical Association, physicians may convert EACCME credits to an equivalent number of AMA PRA Category 1 Credits™. Information on the process to convert EACCME credit to AMA credit can be found at www.ama-assn.org/go/internationalcme.
Live educational activities, occurring outside of Canada, recognized by the UEMS-EACCME for ECMEC credits are deemed to be Accredited Group.
Learning Activities (Section 1) as defined by the Maintenance of Certification Program of The Royal College of Physicians and Surgeons of Canada.
General Information

**EFOMP accredits** the International Conference “ESMRMB 2012” to be held in Lisbon, 4 – 6 October 2012 as a Continuing Professional Development (CPD) event for Medical Physicists, **with a maximum of 23 hours**. According to the EFOMP recommendations, this is equivalent to 23 CPD credit-points. The Accreditation Code for the event is: CG0002/2012

**Badges**

It is obligatory for all participants to wear their badges visibly throughout the meeting. In case of loss, a replacement badge will only be provided on full payment of the applicable onsite registration fee. Forgotten badges will be replaced against a deposit of the full onsite registration fee.

**Confirmation of payment and attendance**

Any congress-related confirmation will be available during and after the congress in the MyUser Area (login with your last name and PersonaliD as printed on your badge) under MyConfirmations. Confirmations of attendance can also be printed at the registration desk onsite on the entrance level on Saturday, October 6.

**Congress Language**

The official congress language is English.

**EFOMP**

Following the success of the Joint ESMRMB/EFOMP Session in 2009 and 2011, this joint endeavour will be repeated in Lisbon. The session will focus on “Advanced MRI and MRS imaging for radiation planning”. Undoubtedly, this session will be of major interest to MRI and Medical Physics communities alike!

Joint ESMRMB/EFOMP Session on “Advanced MRI and MRS imaging for radiation planning”

Friday, October 5, 10:50–12:20

Room 5A

**EPOS™**

All oral presentations which are also available as an electronic Poster in the EPOS™ electronic submission system are highlighted with a blue circle as “also available in EPOS”.

You can search this presentation by the presentation number or the last name of the presenting author. EPOS™ posters without oral presentation are listed on pages 97 – 143.

**Hot Topic Debate**

The highly popular debate is continued also this year. Strong opponents have been selected for the Friday evening debate session on “Hyperpolarisation, will it make it to the clinic?”. After each opponent has given a 15-minute statement, the audience is strongly encouraged to actively participate in the debate.

Hot Topic Debate on “Hyperpolarisation, will it make it to the clinic?”

Friday, October 5, 17:50–18:50

Auditorium II
Internet
Wireless LAN will be available to delegates in Pavillon 4 (Technical Exhibition) and Foyer D. Furthermore, 6 computers with internet access are provided in Pavillon 4. This service is provided free of charge to delegates, thanks to our sponsor Bayer Pharma AG.

MR Enterprise Quiz – Participate and win a free registration!
Each MR Enterprise Member (see page 8) has prepared two questions, the answer to which can be found at their booth and/or lunch symposium! The questionnaire is available at the registration desk on the entrance level. Make sure to answer all questions and to hand in your completed questionnaire at the registration desk until Saturday, October 6, 18:00 and win a free registration to the ESMRMB 2013 congress in Toulouse/FR or to a course of ESMRMB’s educational programmes! The winner of the quiz will be announced during the Closing Ceremony on Saturday, October 6 at 19:00 in Auditorium I.

Opening Ceremony – Sir Peter Mansfield Lecture
The official opening will be on Thursday, October 4, 2012 at 09:10 in Auditorium I. The Sir Peter Mansfield Lecture entitled “Challenges and opportunities for MR – A scientists perspective” will be given by Professor Jürgen Hennig (DE) on Thursday 09:30–10:20 in Auditorium I.

Preview Centre
The Preview Centre is located in Room 1.13 on level 1. Speakers are requested to contact the Preview Centre and to hand in their Power Point presentation (on CD-ROM or USB flash drive) at least 90 minutes before the beginning of the session of their presentation.

Opening hours of the Preview Centre
Wednesday: 16:00–18:00
Thursday – Saturday: 07:45–18:30
General Information

Registration
Onsite registration fees in Euro (€)

**Full fee**
- Member*: € 410
- Senior Member*: € 205
- Non-Member: € 580

**Students, Residents in training**
- Member*: € 120
- Non-Member**: € 280

**Technologists/Radiographers**
- Member*: € 120
- Non-Member**: € 280

* Members of the equivalent membership type in good standing who have paid their 2012 membership fee.
** Registration as student, resident in training and MR technologist/radiographer non-member

Technologists/Radiographers: Attestation of the institution/head of department required.

Students/residents: A copy of the diploma (bachelor, masters, medical degree) has to be uploaded during online application or sent to the ESMRMB Office. The registration is limited to 6 years following the date of the diploma! Please note that this does not apply for PhD degrees.

Onsite registration hours
- Wednesday, October 3: 15:00-18:00
- Thursday-Friday, October 4–5: 07:00-19:00
- Saturday, October 6: 07:00-15:00

Payment
Onsite, payment can be made by credit card (Visa and Eurocard/Mastercard), cash card or in cash (only €). Please note that cheques will not be accepted.

Terms of cancellation
The ESMRMB offered the option of taking out a cancellation policy with our partner ‘Europäische Reiseversicherung’ during the online pre-registration. The insurance fee depends on the selected ticket and can only be booked during online registration. After finalisation of registration and/or payment, insurance can no longer be selected.

The refunding of registration fees due to a change of ticket type or cancellation of participation is only possible with a valid insurance.

The ESMRMB itself will not refund any registration fees. All requests must be issued to the ‘Europäische Reiseversicherung’ directly. Refunds will be given according to the terms and conditions of the ‘Europäische Reiseversicherung’; the ESMRMB is not responsible for any refunds of registration fees. Replacement participants will be treated as new registrations and are thus requested to register anew.
Rooms

Entrance Level
Registration
Coat Check

Level 1
Foyer D         Science Support Desk, Coffee Area
Auditorium I    Plenary Session Room
Auditorium II   Lecture Room
Auditorium III  Lecture Room
Auditorium IV   Lecture Room
Room 5A         Lecture Room
Room 5B         Lecture Room
Room 5C         Lecture Room
Room 1.05 & 1.06 Software Exhibits
Room 1.07 – 1.09 EPOS™ Poster Exhibition
Room 1.10       Board Meeting Room
Room 1.13       Preview Centre (Slide Centre)

Pavillon 4      Technical Exhibition, Internet Corner
Pavillon 5      Paper Poster and Clinical Review Poster Exhibition

Please proceed to page 190 for the floorplan of the congress venue!

Round Table Discussion
On Saturday, October 6, 2012 from 17:50 to 18:50, there will be a Round Table Discussion on “Does MR-PET really make sense from a clinical and technical point-of-view?” (Auditorium II).

Science Support Desk
For any questions regarding your presentation or poster (EPOS™ or traditional poster), please contact the Science Support Desk in Foyer D.

Scientific Poster Exhibition
ESMRMB 2012 will again stage an electronic scientific exhibition, using EPOS™, the Electronic Presentation Online System. In addition to the electronic Posters, there will also be a scientific poster exhibition of 94 traditional paper posters and 40 clinical review posters, which will be mentioned in the respective abstract section of the Meeting Guide.

Social Events
The Welcome Reception will be held in Pavillon 3 on the entrance level of the congress centre, the Centro de Congressos de Lisboa (CCL), on Thursday, October 4 at 19:00.
The Farewell Party will take place in the restaurant area of the congress centre, the Centro de Congressos de Lisboa (CCL), on Saturday, October 6 at 19:30 (see page 205).
Software Exhibits
Successfully introduced in 2008, this exhibit (formerly Info-RESO) is aimed to demonstrate computer applications in information management of magnetic resonance data. It is focused mainly on non-commercial computer-based demonstrations of software programs that manage magnetic resonance data. The Software Exhibit Computer Demonstration with 16 exhibits will be open from Thursday-Saturday in Rooms 1.05 and 1.06.

You can meet the presenters of the exhibit during the following time slots:
Thursday, October 4:  17:15-18:15
Friday, October 5:    10:50-11:50
Saturday, October 6: 10:50-11:50

Teaching Syllabus
The syllabus of the Teaching Sessions is available online at www.esmrmb.org.

Teaching Quiz
Delegates attending the Teaching Sessions are encouraged to participate in the teaching quiz! Answer sheets are available at the registration desk as well as in front of Auditorium I. All quiz cases are displayed on the staircase from the entrance level to level 1. The winner of the quiz will be announced during the Closing Ceremony on Saturday, October 6, at 19:00 in Auditorium I.

Technical Exhibition
Opening hours of the technical exhibition:
Thursday:      08:30-17:45
Friday:        08:30-18:15
Saturday:      08:30-16:30
For information on ESMRMB 2012 exhibitors, please refer to page 191.

Wireless LAN – kindly sponsored by Bayer Pharma AG
Wireless LAN will be available to delegates in Pavillon 4 (Technical Exhibition) and Foyer D. This service is provided free of charge to delegates, thanks to our sponsor Bayer Pharma AG.

Bayer HealthCare
EPOS™ at ESMRMB 2012

EPOS™ – Fully digital scientific exhibition
At ESMRMB 2012, the electronic format of the scientific exhibition is continued, using EPOS™, the Electronic Presentation Online System developed by the European Congress of Radiology (ECR). In consideration of requests received at previous annual meetings, ESMRMB also offers a traditional paper poster area and a clinical review poster exhibition.

EPOS™ Onsite
Individual workstations
30 computer workstations have been installed in the EPOS™ area in Rooms 1.07, 1.08 and 1.09 on level 1, at which over 500 electronic exhibits can be viewed by delegates throughout the duration of the congress. Trained staff will explain how to use the system and its advanced search functions.

Poster Highlights Sessions
Selected scientific exhibits will be presented and their authors will be asked to give a brief explanation and answer audience questions. The Poster Highlights Sessions will take place in Auditorium IV from Thursday to Saturday.

Poster Award Session
All electronic exhibits and pdf files of paper posters received until August 22 were reviewed by the Scientific Exhibition Jury, who selected the winners of the following awards:
1 Magna Cum Laude, 2 Cum Laude, 7 Certificates of Merit.
The Poster Award Ceremony will take place on Saturday, October 6 at 19:00 in Auditorium I. The winning posters have been marked with a special sign.
Mini-Categorical Courses will be organised in five parallel sessions, scheduled from 08:00–09:00, prior to the regular Scientific Sessions, on each day of the congress!

We are pleased to inform you that three out of the five Mini-Categorical Courses were organised with the kind support of the ESMRMB MSK working group, the European Society of Neuroradiology (ESNR) as well as ENCITE, the European Network for Cell Imaging and Tracking Expertise:

**Artifacts in MSK MRI – How to optimise our imaging**  
(in collaboration with the MSK working group)  
Auditorium II

With this course the MSK Working Group of ESMRMB wants to support physicists, technicians and clinical radiologists in jointly approaching the process of optimising MR images for daily clinical routine use in MSK MRI. To this purpose the MSK Working Group wants to pair the enormous technical and MRI physics experience of the society with our clinical needs in daily practice. The goal is to discuss MRI physics and related technical aspects of MRI in a digestible manner and to link theory to practical examples in order to create understanding that can be actively applied in our practice. We sincerely hope that you are enjoying the course! The MSK Working Group.

**Neuro-Imaging**  
(in collaboration with the European Society of Neuroradiology)  
Room 5A

The Mini-Categorical Course on Neuro-Imaging is organised in collaboration with the European Society of Neuroradiology (ESNR) this year. ESNR has a well-established tradition in teaching Neuro-Imaging, formalised in the European Course of Neuroradiology programme. It is through a collaboration with ESNR that prominent speakers from this successful teaching programme participate in this year’s Mini-Categorical Course. The topics that have been selected are currently of great interest, such as fetal neuro-imaging, imaging of brain connectivity and perfusion. Each topic is presented both by a physicist and a neuroradiologist, in order for both the physical and technical background on the imaging techniques as well as the clinical application and relevance to be addressed.

**Contrast enhanced cellular labelling**  
(in collaboration with the European Network for Cell Imaging and Tracking Expertise)  
Auditorium III

With this course, the scientists of the European Network for Cell Imaging and Tracking Expertise (ENCITE) will inform the ESMRMB audience about recent research in the field of molecular imaging, mainly about the application of MR imaging for cell labelling, cell tracking and theranostics. A high number of these experts being members of ESMRMB prepared three morning sessions demonstrating the latest developments in this field. All presentations will show ENCITE’s research results and challenges based on basic explanations of molecular imaging principles. Thus, the Mini-Categorical Course will be highly interesting to junior and senior specialists in the field of molecular imaging. Be there and enjoy the course! The ENCITE scientists.
magma
Magnetic Resonance Materials In
Physics, Biology And Medicine

Editor in Chief:
Patrick J. Cozzone

• 2010 Impact Factor: 2,373
• 2011 Impact Factor: 1,883

• Reviewing cycle (first answer to authors): 5 weeks
• Time to publication on-line after acceptance: 3 weeks
• Fulltext downloads in 2012: more than 120 articles / day

• 2012 MAGMA special issues:

MR Thermometry with Robert Turner
as Guest-editor (February 2012)

Arterial Spin Labeling MRI with David Alsop
as Guest-editor (April 2012)

• Forthcoming MAGMA special issues:

MRI and PET together: friends or foes (March 2013):
Guest-editors: Thomas Beyer, Ewald Moser

X-Nucleus Magnetic Resonance Imaging (2014)
Guest-editors: Lothar Schad, Stefan Kirsch

Hyperpolarized Nuclei for MR
Guest-editor: Axel Haase

Editor in Chief:
Patrick J. Cozzone

Online manuscript submission
and peer-review process via
http://mc.manuscriptcentral.com/magma
Thursday, October 4
12:30–13:30

Siemens  
*Auditorium I*

**Leading. With MAGNETOM.**

*Advanced MR Imaging in Tumoral Brain Lesions*
Prof. Alex Rovira  
*Hospital Universitari Vall d’Hebron, Barcelona, Spain*

*Integrated PET/MR in the Clinics*
Dr. Ambros J. Beer  
*Technische Universität München, Munich, Germany*

Friday, October 5
12:30–13:30

Philips  
*Auditorium II*

**Unlocking the Power of MR**
Mr. J. van den Heuvel  
*Business Line Director MR, Philips Healthcare, Eindhoven, The Netherlands*

*Advanced Upper Abdominal Imaging Using Ingenia 3.0T*
Prof. J. M. Lee  
*Seoul National University Hospital, Seoul, South-Korea*

*MRI Guided Prostate Intervention and Imaging – New Insights*
PD Dr. med. A. Malich  
*Südharz-Krankenhaus, Nordhausen, Germany*
Bringing MRI to patient needs

Opportunities and challenges of the MRI of the future
Joseph Stancanello
GE Healthcare

The first 7T GE MR system in Europe: where are we heading?
Michela Tosetti
University of Pisa, Italy

Motion correction in clinical routine
Stefan Skare
Karolinska Institute Stockholm, Sweden

First pass contrast agents for MRA
Tim Leiner
Utrecht University Medical Center, The Netherlands

UNIQUE TOSHIBA MR TECHNOLOGY

Acoustic Noise Reduction in 3T MRI – Pianissimo Technology
Yoshinori Hamamura, PhD
Toshiba Medical Research Institute USA, Vernon Hills, Illinois, USA

Advanced Neuro Imaging at 3T with a 32ch head coil
Tomohisa Okada, MD, PhD
Diagnostic Imaging and Nuclear Medicine
Kyoto University Graduate School of Medicine, Kyoto, Japan

Fully Automatic ECG-Delay Detection for Optimal Image Quality in Non Contrast MRA
Mitsue Miyazaki, PhD
Toshiba Medical Research Institute USA, Vernon Hills, Illinois, USA
### Scientific Programme

**Thursday, October 4, 2012**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Title</th>
<th>Moderators</th>
<th>Presenters</th>
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<tbody>
<tr>
<td>8:00–9:00</td>
<td><strong>1</strong> Mini-Categorical Course</td>
<td>Auditorium II</td>
<td><strong>Artifacts in MSK MRI – How to optimise our imaging I</strong></td>
<td>Moderators: M.A. Cova, Triest/IT</td>
<td>I. Nöbauer-Huhmann, Vienna/AT</td>
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<td></td>
<td>1 8:00</td>
<td></td>
<td>**What do we expect from our MSK MRIs in view of imaging time and</td>
<td></td>
<td>D. Wilson; Department of Radiology, Oxford University Hospitals, Oxford/</td>
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<td></td>
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<td>quality – the radiologists’ expectations. Setting the stage from an</td>
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<td>UNITED KINGDOM</td>
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<td>academic and a private centre’s perspective</td>
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<td></td>
<td>2 8:30</td>
<td></td>
<td><strong>Physical principles relevant to artifacts and field strength</strong></td>
<td></td>
<td>J.G. Raya; Radiology, New York University Langone Medical Center, New York/NY/</td>
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<td>UNITED STATES OF AMERICA</td>
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<tr>
<td>8:00–9:00</td>
<td><strong>2</strong> Mini-Categorical Course</td>
<td>Room 5A</td>
<td><strong>Neuro Imaging – Fetal MR Neuro-Imaging</strong></td>
<td>Moderators: I. Berry, Toulouse/FR</td>
<td>P. Sundgren, Lund/SE</td>
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<td></td>
<td>3 8:00</td>
<td></td>
<td><strong>MR Neuro-Imaging of the fetus: problems and solutions</strong></td>
<td></td>
<td>P.D. Griffiths; Academic Radiology, University of Sheffield, Sheffield/UNITED KINGDOM</td>
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<tr>
<td></td>
<td>4 8:30</td>
<td></td>
<td><strong>Clinical indications and applications of foetal MRI</strong></td>
<td></td>
<td>N. Canto Moreira; NeurorontgenBild och funktionsmedicinskt centrum, Uppsala</td>
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<td>University, Uppsala/SWEDEN</td>
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<td>8:00–9:00</td>
<td><strong>3</strong> Mini-Categorical Course</td>
<td>Room 5B</td>
<td><strong>Quality Control – General Quality Control</strong></td>
<td>Moderators: X. Golay, London/UK</td>
<td>F. Stahlberg, Lund/SE</td>
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<tr>
<td></td>
<td>5 8:00</td>
<td></td>
<td><strong>Procedures for basic MRI QC</strong></td>
<td></td>
<td>R. O’ Gorman; Center for MR Research, University Children’s Hospital, Zürich/</td>
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<td>SWITZERLAND</td>
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<td></td>
<td>6 8:30</td>
<td></td>
<td><strong>QC for neuro-imaging research</strong></td>
<td></td>
<td>N. Weiskopf; Wellcome Trust Centre for Neuroimaging, UCL Institute of Neurology,</td>
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<td>University College London, London/UNITED KINGDOM</td>
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</tbody>
</table>
8:00–9:00  4 Mini-Categorical Course
Cardiac – Technological advances
Moderators:  J. Bogaert, Leuven/BE
            W. Steinbrich, Basel/CH

7  8:00  Cardiac MRI: high field vs. 1.5T
D. Thomas;  Department of Radiology, University of Bonn, Bonn/GERMANY

8  8:30  Towards quantitative cardiac MRI
M. Carlsson;  Department of Clinical Physiology and Nuclear Medicine, Skåne University
            Hospital and Lund University, Lund/SWEDE

8:00–9:00  5 Mini-Categorical Course
ENCITE – Contrast enhanced cellular labelling – Alternative
            intrinsic and extrinsic cell traces
Moderators:  M. Hajek, Prague/CZ
            U. Himmelreich, Leuven/BE

9  8:00  19F MRI: heaven or hell?
A. Heerschap, M. Srinivas, H. Amiri, J. De Vries;  Radiology, Radboud University
            Nijmegen Medical Center, Nijmegen/NETHERLANDS

10  8:30  Ferritin – an intrinsic contrast agent
M. Neeman;  Department of Biological Regulation, Weizmann Institute of Science, Rehovot/
            ISRAEL

9:10–10:20  6 Opening Ceremony
Sir Peter Mansfield Lecture

11  9:30  Challenges and opportunities for MR – A scientists perspective
J. Hennig;  Dept. of Radiology, University Medical Center Freiburg, Medical Physics,
            Freiburg/GERMANY

10:30–12:00  7 Plenary Session
CEST si bon!
Moderators:  X. Golay, London/UK
            S. Trattnig, Vienna/AT

12  10:30  CEST: A new contrast for new applications
P.C.M. Van Zijl1, 2; 1Russell H. Morgan Dept. of Radiology and Radiological Science,
            John Hopkins University, Baltimore, MD, United States; 2F.M. Kirby Research Center for
            Functional Brain Imaging Kennedy Krieger Institute, Baltimore/Maryland/UNITED STATES
            OF AMERICA

13  11:00  Exogenous CEST agents
E.J. Toth;  CNRS, Centre de Biophysique Moléculaire, Orléans/FRANCE

14  11:30  Clinical CEST applications
B. Schmitt;  Department of Radiology, Medical University of Vienna, Vienna/AUSTRIA
### 13:50–15:20 8  Teaching Session

**New sources of contrast in musculoskeletal MRI**

Moderators:  J.L. Bloem, Leiden/NL
F. Schick, Tübingen/DE

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
<th>Institution(s)</th>
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<tbody>
<tr>
<td>13:50</td>
<td>Relaxation mechanisms in articular cartilage</td>
<td>V. Mlynarik; Laboratory of Functional and Metabolic Imaging, Ecole Polytechnique Fédérale de Lausanne, Lausanne/SWITZERLAND</td>
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<tr>
<td>14:20</td>
<td>Instrumental and methodological issues of sodium imaging, and its applications in MSK</td>
<td>S. Zbyn; MR Centre-Highfield MR, Department of Radiology, Medical University of Vienna/ Vienna General Hospital, Vienna/AUSTRIA</td>
<td></td>
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<td>14:50</td>
<td>Magnetisation transfer and CEST, correction methods</td>
<td>M. Zaiss¹, P. Bachert²; ¹Department for Medical Physics in Radiology, German Cancer Research Center, Heidelberg/GERMANY, ²Dept. of Medical Physics in Radiology, German Cancer Research Center, Heidelberg/GERMANY</td>
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</tbody>
</table>

### 13:50–15:20 9  Scientific Session – Preclinical Studies & Basic Science

**Animal Models: Liver, Muscle, Diet**

Moderators:  O. Clement, Paris/FR
M. Krssak, Vienna/AT

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<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
<th>Institution(s)</th>
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<tr>
<td>13:50</td>
<td>Assessment of Nonalcoholic Fatty Liver Disease (NAFLD) Using Intravoxel Incoherent Motion (IVIM) MRI: Correlation with NAFLD activity score (NAS) -- An Experimental Study in a Rabbit model fed with high-fat, high-cholesterol diet</td>
<td>I. Joo, J.M. Lee, J.K. Han, B.I. Choi; Radiology, Seoul National University Hospital, Seoul/KOREA</td>
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<tr>
<td>14:02</td>
<td>Improved lipid profiling of the mouse liver by 1H-NMR spectroscopy at 14.1T in vivo</td>
<td>A.F. Soares¹, H. Lei¹, ², R. Gruetter¹,³; ¹CIBM – Centre d’Imagerie Biomédicale, EPFL – École Polytechnique Fédérale de Lausanne, Lausanne/SWITZERLAND, ²Department of Radiology, University of Geneva and Lausanne, Lausanne/SWITZERLAND, ³Department of Radiology, Universities of Geneva and Lausanne, Lausanne/SWITZERLAND</td>
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</table>
Is choline/phosphocholine ratio a pertinent marker of liver steatosis? Study by 1H HRMAS spectroscopy of fructose effects on the rat submitted to different diets. M.-C. Beauvieux¹, C. Castain², D. Despas¹, E. Richard³, H. Gin⁴, P. Couzigou⁵, A.-K. Bouzier-Sore¹, J.-L. Gallis¹; ¹UMR5536 RMSB, CNRS Université Victor Segalen, Bordeaux/FRANCE, ²Laboratoire de Pathologie, Hôpital Pellegrin, Bordeaux/FRANCE, ³Laboratoire Biochimie, Hôpital Pellegrin, Bordeaux/FRANCE, ⁴Nutrition Diabétologie, Hôpital Haut-Lévêque, Pessac/FRANCE, ⁵Hépatologie, Hôpital Haut-Lévêque, Pessac/FRANCE

Topographical variation in metabolic profiling of the rat intestine membrane. Study by 1H HRMAS spectroscopy of the effects of ethanol and fructose diets. M.-C. Beauvieux¹, M. Urdaci², C. Ruppli¹, D. Despas¹, E. Richard³, H. Gin⁴, P. Couzigou⁵, A.-K. Bouzier-Sore¹, J.-L. Gallis¹; ¹UMR5536 RMSB, CNRS Université Victor Segalen, Bordeaux/FRANCE, ²Laboratoire Microbiologie, Bordeaux Sup Agro, Gradignan/FRANCE, ³Laboratoire Biochimie, Hôpital Pellegrin, Bordeaux/FRANCE, ⁴Nutrition Diabétologie, Hôpital Haut-Lévêque, Pessac/FRANCE, ⁵Hépatologie, Hôpital Haut-Lévêque, Pessac/FRANCE

In vivo substrate oxidation in mice skeletal muscle P. Nunes, S. Van Asten, C.J. Tack, A. Heerschap; Radiology, Radboud University Nijmegen Medical Centre, Nijmegen/NETHERLANDS

In vivo functional, anatomical and metabolic investigations of a nemaline myopathy mouse model carrying TPM3 mutation. C. Gineste, Y. Lefur, C. Vilmen, E. Pecchi, P.J. Cozzone, D. Bendahan, J. Gondin; Faculte de Medecine la Timone, CRMBM UMR CNRS 7339, Marseille/FRANCE

In vivo functional, anatomical and metabolic investigations of the Acta1 (H40Y) mouse model for severe nemaline myopathy C. Gineste¹, Y. Lefur², C. Vilmen², E. Pecchi², P.J. Cozzone², D. Bendahan², J. Gondin²; ¹Faculte de Medecine la Timone, CRMBM UMR CNRS 7339, Marseille/FRANCE, ²Faculte de Medecine la Timone, CRMBM UMR CNRS 7339, Marseille/FRANCE


Molecular and cellular imaging: CEST, PARACEST
Moderators: M. Bernsen, Rotterdam/NL
U. Himmelreich, Leuven/BE

NMR signal optimization of HyperCEST and PARACEST effects by exchange rate and RF power under clinical SAR limitations M. Zaiss¹, P. Bachert²; ¹Department for Medical Physics in Radiology, German Cancer Research Center, Heidelberg/GERMANY, ²Dept. of Medical Physics in Radiology, German Cancer Research Center, Heidelberg/GERMANY
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<th>Time</th>
<th>Title</th>
<th>Authors</th>
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<tr>
<td>14:02</td>
<td>Comparison of glucoCEST enhancement with [18F]FDG autoradiography</td>
<td>S. Walker-Samuel¹, R. Ramasawmy¹, F. Torrealdea², M. Rega², P. Johnson³, V. Rajkumar³, S. Richardson¹, M. Gonçalves¹, D. Thomas⁴, B. Pedley⁴, M. Lythgoe¹, X. Golay⁴; ¹Centre for Advanced Biomedical Imaging, University College London, London/UNITED KINGDOM, ²Institute of Neurology, UCL, London/UNITED KINGDOM, ³Institute of Cancer, University College London, London/UNITED KINGDOM, ⁴Institute of Neurology, University College London, London/UNITED KINGDOM</td>
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<tr>
<td>14:14</td>
<td>In vivo MRI visualization of different cell populations labelled with PARACEST agents</td>
<td>G. Ferrauto¹, D. Delli Castelli¹, E. Terreno², S. Aime³; ¹Chemistry-University of Turin, Molecular Imaging Center, Torino/ITALY, ²Chemistry- University of turin, Molecular &amp; Preclinical Imaging Center, Torino/ITALY, ³Department- University of Turin, Molecular Imaging Center, Torino/ITALY</td>
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<tr>
<td>14:26</td>
<td>Investigation of CEST effects in hexoses and pentoses of the glycolytic pathway</td>
<td>F. Torrealdea¹, ², M. Rega¹, ², M. Lythgoe¹, D. Thomas², S. Walker-Samuel¹, X. Golay²; ¹Centre for Advanced Biomedical Imaging, University College London, London/UNITED KINGDOM, ²Institute of Neurology, UCL, London/UNITED KINGDOM</td>
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<tr>
<td>14:38</td>
<td>Validating CEST Imaging in a Mouse Model of Neurodegenerative Disease</td>
<td>R.M. Bendell¹, ², M. Yanez Lopez¹, P. Geiszler², M.-C. Pardon², D.P. Auer¹, H. Faas¹; ¹Department of Radiological and Imaging Sciences, University of Nottingham, Nottingham/UNITED KINGDOM, ²Department of Translational Neurosciences, University of Nottingham, Nottingham/UNITED KINGDOM</td>
</tr>
<tr>
<td>14:50</td>
<td>Optimization of an Iopamidol-CEST-sequence for pH quantification on a clinical 3T MR scanner</td>
<td>A. Müller-Lutz¹, N. Khalili¹, B. Schmitt², V. Jellus³, G. Pentang¹, G. Oeltzschner¹, R.S. Lanzman¹, G. Antoch¹, H.J. Wittsack¹; ¹Institute of Diagnostic and Interventional Radiology, University Dusseldorf, Medical Faculty, Dusseldorf/GERMANY, ²Department of Radiology, Medical University of Vienna, Vienna/AUSTRIA, ³Imaging &amp; Therapy Division, Siemens AG, Healthcare Sector, Erlangen/GERMANY</td>
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<tr>
<td>15:02</td>
<td>Yb-HPDO3A, an outstanding MRI-CEST agent for in vivo pH mapping</td>
<td>D. Delli Castelli¹, G. Ferrauto¹, J.C. Cutrin², E. Terreno³, S. Aime¹; ¹Chemistry-University of Turin, Molecular Imaging Center, Torino/ITALY, ²Clinical and Biological Sciences, ININCA-CONICET, Torino/ITALY, ³Chemistry- University of turin, Molecular &amp; Preclinical Imaging Center, Torino/ITALY</td>
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</table>
**13:50–15:20  11 Scientific Session – Clinical Applications**

**Clinical (Resting State) fMRI**

Moderators: D. Prayer, Vienna/AT  
S. Trattnig, Vienna/AT

### 32  13:50

**Invariance of resting-state network patterns**  
K. Kollndorfer¹, F. Fischmeister², G. Kasprian³, D. Prayer⁴, V. Schöpf⁴;  
¹Department of Radiology, Division of Neuro- and Musculoskeletal Radiology, Medical University Vienna, Vienna/AUSTRIA, ²Department of Neurology, Study Group Clinical fMRI, Medical University Vienna, Vienna/AUSTRIA, ³Department of Radiology, Division of Neuro- and Musculoskeletal Radiology, Medical University Vienna, Vienna/AUSTRIA, ⁴Department of Radiology, Division of Neuro- and Musculoskeletal Radiology, Medical University of Vienna, Vienna/AUSTRIA

### 33  14:02

**uN-BIASED: A nearly model-free fMRI analysis method based on reproducible responses and applied to 7 T clinical fMRI**  
P. Cardoso¹, A. Geissler¹, ², F. Fischmeister¹, ², S. Trattnig¹, R. Beisteiner¹, ², S.D. Robinson¹; ¹MR Centre of Excellence, Department of Radiology, Medical University of Vienna, Vienna/AUSTRIA, ²Study Group Clinical fMRI, Department of Neurology, Medical University of Vienna, Vienna/AUSTRIA

### 34

WITHDRAWN

### 35  14:14

**Functional reorganization of the primary somatosensory cortex after anesthetic block: an fMRI study**  
S.E. Solis-Najera¹, R. Martin², L. Wagis-Weinberg³, B. De Rienzo³, K. Simon-Arce³, U. Coffen³, A.O. Rodriguez², F. Pellicer²; ¹Facultad de Ciencias, Departamento de Fisica, Universidad Nacional Autonoma de Mexico, DF/MEXICO, ²Dep. Ingenieria Electrica, UAM Iztapalapa, Mexico DF/MEXICO, ³Laboratorio de Neurofisiologia Integrativa, Instituto Nacional de Psiquiatria RdeF, Mexico DF/MEXICO

### 36  14:26

**Pathological patterns of functional and structural brain connectivity in high functioning autistic adults**  
A. Jakab¹, T. Spisák², A. Szeman-Nagy³, D. Dobrai¹, P. Molnár⁴, E.L. Berényi¹, M. Emri²; ¹Department of Biomedical Laboratory and Imaging Sciences, University of Debrecen, Debrecen/HUNGARY, ²Nuclear Medicine Institute, University of Debrecen, Debrecen/HUNGARY, ³Department of Personality and Clinical Psychology, Psychology Institute, University of Debrecen, Debrecen/HUNGARY, ⁴Department of Behavioural Sciences, University of Debrecen, Debrecen/HUNGARY

### 37  14:38

**Decreased regional homogeneity in left lingual gyrus and increased regional homogeneity in right cuneus of first-episode drug-naïve panic disorder patients**  
C.-H. Lai¹, Y.-T. Wu²; ¹Department of Psychiatry, Buddhist Tzu-Chi General Hospital, Taipei Branch, Xindian/TAIWAN, ²Institute of Brain Science, National Yang Ming University, Taipei City/TAIWAN

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WITHDRAWN
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<th>Time</th>
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<th>Location</th>
<th>Title</th>
<th>Presenters</th>
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<tr>
<td>13:50</td>
<td>12 Radiographers’ Session</td>
<td>Room 5C</td>
<td>Everything you always wanted to know, but never dared to ask I</td>
<td>E.-M. Larsson, Uppsala/SE D. Sappey-Marinier, Bron/FR</td>
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<tr>
<td>13:50</td>
<td>Functional MRI</td>
<td></td>
<td>M. Smits; Radiology, Erasmus MC, Rotterdam/NETHERLANDS</td>
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<tr>
<td>14:20</td>
<td>Diffusion (tensor) MRI</td>
<td></td>
<td>S. Sunaert, L. Emsell, S. Van Cauter, S. Deprez, T. Billiet; Translational MRI, University of Leuven, Leuven/BELGIUM</td>
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<tr>
<td>14:50</td>
<td>Perfusion MRI</td>
<td></td>
<td>E.-M. Larsson; Department of Radiology, Uppsala University, Uppsala/SWEDEN</td>
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<tr>
<td>13:50</td>
<td>Quadratic background phase allows accelerated acquisitions without calibration</td>
<td></td>
<td>D. Gallichan¹, M. Zaitsev², R. Gruetter¹; ¹CIBM, EPFL, Lausanne/SWITZERLAND, ²Department of Radiology, Medical Physics, University Medical Center Freiburg, Freiburg/GERMANY</td>
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<td>14:02</td>
<td>A novel diffusion-weighted Arbitrary Spin Echo pulse sequence to customize diffusion gradient shapes</td>
<td></td>
<td>A. Lebois¹-², B. Schmitt³, D. Duclap², F. Poupon¹-², C. Poupon²; ¹DSV, NeuroSpin/CEA, Gif-Sur-Yvette/FRANCE, ²I2BM, CEA NeuroSpin, Gif-sur-Yvette/FRANCE</td>
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<td>14:14</td>
<td>Initial in vivo experiments with spatially selective RF excitation on a clinical 3T scanner</td>
<td></td>
<td>R. Mooiweer¹, A. Sbrizzi¹, C.A.T. Van Den Berg¹, F. Visser¹-², P. Luijten¹, M. Stoesz², P. Harvey², G. Mens², H. Hoogduin¹; ¹Imaging, UMC Utrecht, Utrecht/NETHERLANDS, ²Healthcare, Philips, Best/NETHERLANDS</td>
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<tr>
<td>14:26</td>
<td>MOET: Multiple Oscillating Efficient Trajectories</td>
<td></td>
<td>D. Neumann¹, F. Breuer¹, P. Jakob¹-², M. Griswold³,⁴; ‘Clinical MRI, MRB Research Center for Magnetic Resonance Bavaria e.V., Würzburg/GERMANY, ³Experimentelle Physik 5, Lehrstuhl für Physik, Würzburg/GERMANY, ⁴Biomedical Engineering, Case Western Reserve University, Cleveland/UNITED STATES OF AMERICA, ⁴Radiology, University Hospitals, Cleveland/UNITED STATES OF AMERICA</td>
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**A Model-Based Accelerated Parameter Mapping (MAP) algorithm for Saturation Prepared Radially Acquired Data**

**J. Tran-Gia**, D. Stäb, D. Hahn, H. Köstler; *Institute of Radiology, University of Würzburg, Würzburg/GERMANY*

**Simultaneous T1 and T2 quantification of the myocardium**

**F. Santini**, N. Kawel, J. Bremerich, O. Bieri; 1*Division of Radiological Physics, University of Basel Hospital, Basel/SWITZERLAND, 2*Cardio-thoracic Radiology, University of Basel Hospital, Basel/SWITZERLAND*

**Improvement in T2-weighted imaging at 7T by using kT-points**

**F. Eggenschwiler**, K. O’Brien, J. Marques, R. Gruetter; 1*Laboratory for Functional and Metabolic Imaging, EPFL, Lausanne/SWITZERLAND, 2*Department of Radiology, University of Geneva, Geneva/SWITZERLAND, 3*Department of Radiology, University of Lausanne, Lausanne/SWITZERLAND, 4*Department of Radiology, Universities of Geneva and Lausanne, Lausanne/SWITZERLAND*

**The assessment of the effect of fatigue on muscle architecture through Diffusion Tensor Imaging (DTI) parameters**


**Longitudinal MRI analysis of Tourette Syndrome reveals developmental changes from childhood to adolescence in the cortico-striato-thalamo-cortical pathways**

**S.S. Jeppesen**, N.M. Debes, E. Rostrup, L. Skov; *Diagnostic department, FIUnit, Glostrup University Hospital, Glostrup/DENMARK*

**b-values dependence of diffusional kurtosis imaging, mono-exponential and bi-exponential models of diffusion-weighted imaging (DWI) in healthy and cancerous prostate tissues**

**L.N. Mazzoni**, S. Lucarini, S. Chiti, S. Busoni, C. Gori, I. Menchi; 1*Health Physics Unit, Azienda Ospedaliero Universitaria Careggi (Florence University Hospital), Florence/ITALY, 2*Diagnostic Imaging, Azienda Ospedaliero Universitaria Careggi (Florence University Hospital), Florence/ITALY, 3*Diagnostic Imaging, Azienda Ospedaliero-Universitaria Careggi (Florence University Hospital), Florence/ITALY*
52  14:17  Investigation of contribution of myelin to MR diffusion parameters in healthy adult human brain white matter  
S. Rohani Rankouhi1, 2, E. Hernandez Torres2, M. Fan3, A. Mackay2, 3, 4, A. Rauscher2, 4; 1School of Technology and Health, Royal Institute of Technology, Stockholm/SWEDEN, 2UBC MRI Research Centre, University of British Columbia, Vancouver/BC/CANADA, 3Physics and Astronomy, University of British Columbia, Vancouver/BC/CANADA, 4Radiology, University of British Columbia, Vancouver/BC/CANADA

53  14:26  MR whole brain atlas on the basis of diffusion tensor and diffusion kurtosis data at 3T  
G. Pentang, R. Bastkowski, R.S. Lanzmann, P. Heusch, A. Müller-Lutz, G. Oeltzchner, D. Blondin, G. Antoch, H. Wittsack; University Dusseldorf, Medical Faculty, Institute of Diagnostic and Interventional Radiology, Dusseldorf/GERMANY

54  14:35  Functional Diffusion MRI with multiple b-values : measure of visual activation areas and their spatial correlation with SWI venography  
R. Nicolas, A. Ayala, N. Vaissière, L. Foltier, H. Gros-Dagnac, P. Celsis; U825, Inserm, Toulouse/FRANCE

55  14:44  Evaluation of DSI imaging with compressed sensing under the presence of different noise levels on a diffusion phantom  
T. Sprenger1, B. Fernandez2, M. Bach3, J.I. Sperl4, V. Golkov1, E.T. Tan5, L. Marinelli5, K.F. King7, C.J. Hardy6, Q. Zhu7, M. Czisch8, P. Sämann8, A. Haase9, M.I. Menzel9; 1Diagnostics & Biomedical Technologies Europe, GE Global Research, Garching n. Munich/GERMANY, 2Global Applied Science Laboratory, GE Healthcare, Muenchen/GERMANY, 3Quantitative Imaging-based Disease Characterization, German Cancer Research Center, Heidelberg/GERMANY, 4Diagnostics & Biomedical Technologies Europe, GE Global Research, Garching n. Munich/GERMANY, 5MRI Laboratory, GE Global Research, Niskayuna/UNITED STATES OF AMERICA, 6MRI Laboratory, GE Global Reseach, Niskayuna/NY/UNITED STATES OF AMERICA, 7MR Physics, GE Healthcare, Waukesha/WI/UNITED STATES OF AMERICA, 8RG Neuroimaging, Max Planck Institute of Psychiatry, Munich/GERMANY, 9IMETUM, TU München, Garching b. München/ GERMANY

56  14:53  IVIM, T2 and Time Dependent Diffusivity study of Nerve and Spinal cord  
Z.B. Mahbub, A. Peters, P. Glover, P. Gowland; Sir Peter Mansfield Magnetic Resonance Centre, University of Nottingham, School of Physics and Astronomy, Nottingham/UNITED KINGDOM

57  15:02  Development of a Perfusion Insensitive Measurement of the Apparent Diffusion Coefficient: a Simulation  
N.H.M. Hogg, J.M. Winfield, D.J. Collins, N.M. Desouza, M. Orton; Radiotherapy and Imaging, Institute of Cancer Research, Sutton/UNITED KINGDOM
**Visualisation of HARDI Data with Line Integral Convolution Using a Multiple Direction Kernel and Color Coding**

M. Hoeller¹, F. Thiel¹, U. Klose², K. Otto¹, H.-H. Ehricke¹; ¹IACS, University of Applied Sciences Stralsund, Stralsund/Germany, ²Department of Diagnostic and Interventional Neuroradiology, Magnetic Resonance Research Group, University Hospital Tübingen, Tübingen/Germany

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**15:30–17:00 15 Teaching Session**

**Parallel transmission in MRI**

Moderators: L. Darrasse, Orsay/FR
K. Pruessmann, Zurich/CH

**58 15:11 Basic principles and problems of parallel transmission**

P. Börnert; Research Hamburg, Philips, Hamburg/Germany

**59 15:30 Hardware design and B1 shimming applications**

M.E. Ladd; Erwin L. Hahn Institute for MRI, University of Duisburg-Essen, Essen/Germany

**60 16:00 Design of multiple channel RF pulses and SAR constraints**

D.O. Brunner; Institute for Biomedical Engineering, University and ETH Zurich, Zurich/Switzerland

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**15:30–17:00 16 Scientific Session – Clinical Applications**

**Prostate: MR Imaging and Spectroscopy**

Moderators: C. Boesch, Bern/CH
M.A. Cova, Triest/IT

**62 15:30 Variability of absolute and relative ADC values in patients with prostate cancer as a function of imaging equipment and computational parameters**

J. Otto, G. Thörner, N. Garnov, L.-C. Horn, M. Reiss-Zimmermann, T. Kahn, M. Moche, H. Busse; Diagnostic and Interventional Radiology, Leipzig University Hospital, Leipzig/Germany

**63 15:42 Correlation of apparent diffusion coefficients and intravoxel incoherent motion (IVIM) parameters with Gleason scores in prostate cancer**

L.J. Bains¹, D.G. Chong¹, M. Ith¹, M. Triantafyllou¹, J.M. Froehlich¹, A. Fleischmann², H.C. Thoeny¹; ¹Dept. of Diagnostic, Interventional and Pediatric Radiology (DIPR), University & Inselspital Bern, Bern/Switzerland, ²Institute of Pathology, University of Bern, Bern/Switzerland

**64 15:54 Prostate MR Diffusion Weighted Imaging (DWI): comparison between outcomes from mono-exponential and bi-exponential models.**

L.N. Mazzoni¹, S. Lucarini², S. Chiti³, S. Busoni³, C. Gori¹, I. Menchi²; ¹Health Physics Unit, Azienda Ospedaliero Universitaria Careggi (Florence University Hospital), Florence/Italy, ²Diagnostic Imaging, Azienda Ospedaliero Universitaria Careggi (Florence University Hospital), Florence/Italy, ³Diagnostic Imaging, Azienda Ospedaliero-Universitaria Careggi (Florence University Hospital), Florence/Italy
65 16:06  Prospective impact of the additional use of an endorectal coil for 3 T prostate MRI on image quality and cancer detection rate
J. Otto1, G. Thörmer2, M. Reiss-Zimmermann2, N. Garnov2, M. Moche2, T. Kahn2, H. Busse2; 1Diagnostic and Interventional Radiology, Leipzig University Hospital, Leipzig/GERMANY, 2Department of Diagnostic and Interventional Radiology, University Hospital, Leipzig/GERMANY

66 16:18  Non-invasive prediction of prostate cancer aggressiveness by combining diffusion-weighted MRI and proton MR spectroscopic imaging at 3.0 T
J. Otto1, G. Thörmer2, C. Schröder2, N. Garnov2, M. Moche2, T. Kahn2, H. Busse2; 1Diagnostic and Interventional Radiology, Leipzig University Hospital, Leipzig/GERMANY, 2Department of Diagnostic and Interventional Radiology, University Hospital, Leipzig/GERMANY

67 16:30  MR-spectroscopy is more sensitive than DW-MRI and DCE-MRI at 3-tesla for the non-invasive prediction of short-term radiation response for patients with localized prostate cancer
P. Walker1, G. Créhange2, M. Gauthier3, A. Cochet1, C. Mirjolet2, P. Maingon2, F. Brunotte1; 1Department of MR Spectroscopy, University Hospital, Dijon/FRANCE, 2Department of Radiation Oncology, CGFL, Dijon/FRANCE, 3Department of Biostatistics, CGFL, Dijon/FRANCE

68 16:42  Metabolic changes in citrate and spermine concentrations can predict prostate cancer aggressiveness
G.F. Giskeødegård1, 2, H. Bertilsson3, 4, K.M. Selnæs1, 2, A. Wright5, T.F. Bathen1, 2, T. Viset6, J. Halgunset3, 6, A. Angelsen4, I.S. Gribbestad1, 2, M.-B. Tessem1, 2; 1Trondheim University Hospital, St. Olavs Hospital, Trondheim/NORWAY, 2Department of Circulation and Medical imaging, Norwegian University of Science and Technology, Trondheim/NORWAY, 3Department of Laboratory Medicine and Children’s and Women’s Health, Norwegian University of Science and Technology, Trondheim/NORWAY, 4Department of Urology, St. Olavs Hospital, Trondheim/NORWAY, 5Department of Radiology, Radboud University Nijmegen Medical Center, Nijmegen/NETHERLANDS, 6Department of Pathology and Medical Genetics, St. Olavs Hospital, Trondheim/NORWAY

15:30–17:00  17 Scientific Session – Preclinical Studies & Basic Science

Non CEST nor PARACEST contrast agents
Moderators: S. Aime, Torin/IT
C. Geraldes, Coimbra/PT

69 15:30  Simulation and theory of longitudinal and transverse relaxation times induced by superparamagnetic particles
Q.L. Vuong, Y. Gossuin, P. Gillis, S. Delangre; Biological Physics Department, University of Mons, Mons/BELGIUM
70 15:42 Anisotropic MRI Relaxivity of magnetically aligned Carbon Nanotubes
D. Calle¹, A. Cerpa², V. Negri¹,³, E. Agostinelli⁴, S. Cerdán¹, S. Laureti⁴,
P. Ballesteros³, G. Varvaro⁴; ¹Laboratory of Imaging and Spectroscopy by
Magnetic Resonance Imaging, Instituto de Investigaciones Biomedicas, Madrid/SPAIN,
²Electromecánica y Materiales, Universidad Europea de Madrid, Madrid/SPAIN, ³Química
orgánica, Universidad Nacional de Educación a Distancia, Madrid/SPAIN, ⁴Consiglio
Nazionale delle Ricerche, Instituto di Struttura della Materia, Roma/ITALY

71 15:54 Novel Approach to Follow the Production of Iron Oxide Nanoparticles
Synthesized by Thermal Decomposition
S. Belaid¹, S. Laurent², M. Vermeesch³, L. Vander Elst², D. Pérez-Morga³,
R.N. Müller²; ¹Service de Chimie Générale, Organique et Biomédicale, University of
Mons, Mons/BELGIUM, ²NMR and Molecular Imaging Laboratory, University of Mons, Mons/
BELGIUM, ³Laboratory of Molecular Parasitology, Université libre de bruxelles, Gosselies/
BELGIUM

72 16:06 Tracking the Fate of SPIO-Labeled transplanted rat pancreatic islets: the
animal model matters
D. Jirak¹, K. Zacharova², Z. Berkova², V. Herynek³, E. Dovolilová⁴,
F. Saudek⁴, M. Hajek⁵; ¹MR unit, Institute for Clinical and Experimental Medicine,
Prague/CZECH REPUBLIC, ²Laboratory of Langerhans Islets, Institute for Clinical and
Experimental Medicine, Prague/CZECH REPUBLIC, ³MR-Unit, Department of Diagnostic and
Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH
REPUBLIC, ⁴MR unit, Institute for Clinical and Experimental Medicine, Prague/CZECH
REPUBLIC, ⁵MR-Unit, Department of Diagnostic and Interventional Radiology, Institute for
Clinical and Experimental Medicine, Prague/CZECH REPUBLIC

73 16:18 Quantification of USPIO uptake in mouse atherosclerotic plaque by T2
mapping MRI
R.P.M. Moonen, K. Nicolay, G.J. Strijkers; Biomedical Engineering/ Biomedical NMR,
Eindhoven University of Technology, Eindhoven/NETHERLANDS

74 16:30 GdD03A-PIB derivatives as potential non-invasive MRI markers for
Alzheimer’s disease
A.F. Martins¹,²,³, J.F. Morfin¹, A. Lazar⁴, C. Duyckaerts⁴, É. Tóth¹, C.F.G.C.
Geraldes³; ¹Centre de Biophysique Moléculaire, CNRS, Orléans Cedex/FRANCE,
²Department of Life Sciences, University of Coimbra, Coimbra/PORTUGAL, ³Biomedical
NMR, Center of Neurosciences and Cell Biology, Coimbra/PORTUGAL, ⁴Laboratoire de
Neuropathologie Raymond Escourrolle, CHU Paris – GH Pitié Salpêtrière-Charles Foix –
Hôpital Pitié-Salpêtrière, Paris Cedex 13/FRANCE

75 16:42 Characterization of 6 Gd-based contrast agents encapsulated in
thermosensitive liposomes for MRI assisted thermotherapies
M. Peller¹, M. Hossann², T. Wang², Z. Syunyaeva², R.D. Issels², M. Reiser¹,
L. Lindner²; ¹Institute for Clinical Radiology, Ludwig Maximian University of Munich,
Munich/GERMANY, ²Department of Internal Medicine III, Ludwig-Maximilians-University
Hospital Munich, Munich/GERMANY
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<td>15:30</td>
<td>18 Scientific Session –</td>
<td>Advanced Brain Tumor Imaging</td>
<td>E. Achten, Ghent/BE, S. Ulmer, Basel/CH</td>
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<td>Clinical Applications</td>
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<td>76</td>
<td>15:30</td>
<td>11C-Methionine-PET and MRI of suspected low-grade gliomas</td>
<td>S. Berntsson(^1), A. Godau(^2), I. Savitcheva(^2), M. Zetterling(^3), A. Falk(^2),</td>
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<td>G. Hesselager(^3), I. Alafuzoff(^4), A. Smits(^1), E.-M. Larsson(^2); (^1)Department of Neurology, Uppsala University, Uppsala/SWEDEN, (^2)Department of Radiology, Uppsala University, Uppsala/SWEDEN, (^3)Department of Neurosurgery, Uppsala University, Uppsala/SWEDEN, (^4)Department of Neuropathology, Uppsala University, Uppsala/SWEDEN</td>
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<td>77</td>
<td>15:42</td>
<td>Influence of CBV on MR based measures of hypoxia in healthy human</td>
<td>C. Preibisch(^1), N.M. Hirsch(^1), V. Toth(^1), H. Koolijman(^2), C. Zimmer(^1); (^1)Department of Neuroradiology, Klinikum rechts der Isar der TU Muenchen, Munich/GERMANY, (^2)Clinical Application, Philips Healthcare, Hamburg/GERMANY</td>
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<td>78</td>
<td>15:54</td>
<td>MR parameters for longitudinal assessment of glioblastoma: evaluation of lactate with MR spectroscopy and tumor perfusion with DSC-MRI as prognostic markers</td>
<td>A. Deviers(^1), S. Ken(^1), T. Filleron(^1), X. Franceries(^4), J.-A. Lotterie(^4), V. Lubrano(^5), G. Mogicato(^5), I. Berry(^5), M. Celsis(^6), E. Moyal Cohen-Jonathan(^1), A. Laprie(^1), (^1)Department of Radiation Oncology, Institut Claudius Regaud, Toulouse/FRANCE, (^2)Anatomie-Imagerie médicale, Ecole Nationale Vétérinaire de Toulouse, Toulouse/FRANCE, (^3)UMRS 825, INSERM, Toulouse/FRANCE, (^4)UMRS 825, INSERM, Toulouse/FRANCE, (^5)Toulouse III, Université Paul Sabatier, Toulouse/FRANCE, (^6)Rangueil, Centre Hospitalier Universitaire, Toulouse/FRANCE</td>
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<td>79</td>
<td>16:06</td>
<td>Multimodal MRI (Diffusion, Perfusion and Spectroscopy): Is it possible to predict oligodendrogial tumors grade and genotype in the pre-therapeutic diagnosis?</td>
<td>S. Fellah(^1), D. Caudal(^2), A. Maues De Paula(^3), P. Dory-Lautrec(^2), D. Figarella-Branger(^3), O. Chioù(^5), P. Metellus(^6), P.J. Cozzone(^1), S. Confort-Gouny(^1), V. Callot(^1), N. Girard(^1); (^1)Centre de Resonance Magnetique Biologique et Medicale, CNRS – UMR 7339, Marseille/FRANCE, (^2)Department of Neuroradiology, APHM, Hopital de la Timone, Marseille/FRANCE, (^3)Department of Pathology and Neuropathology, APHM, Hopital de la Timone, Marseille/FRANCE, (^4)UMR 911, INSERM, Center for Research in Oncobiology and Oncopharmacology (CRO2), Marseille/FRANCE, (^5)Department of Neurooncology, APHM, Hopital de la Timone, Marseille/FRANCE, (^6)Department of Neurosurgery, APHM, Hopital de la Timone, Marseille/FRANCE</td>
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80 16:18 Diffusion kurtosis imaging of peritumoral infiltration of gliomas grade II-III
E.-M. Larsson¹, A. Godau¹, D. Van Westen², S. Berntsson³, A. Smits³, J. Lätt², M. Nilsson⁴; ¹Department of Radiology, Uppsala University, Uppsala/SWEDEN, ²Center for Medical Imaging and Physiology, Lund University Hospital, Lund/SWEDEN, ³Department of Neurology, Uppsala University, Uppsala/SWEDEN, ⁴Lund University Bioimaging Center (LBIC), Lund University, Lund/SWEDEN

81 16:30 Diffusion tensor imaging to define the radiotherapy target volume for glioblastoma
J. Berberat¹, ², S. Khan², A. Meister², S. Bodis², L. Remonda¹, S. Rogers²; ¹Neuroradiology, Canton Hospital, Aarau/SWITZERLAND, ²Radiation Oncology, Canton Hospital, Aarau/SWITZERLAND

82 16:42 Iron deposition in the basal ganglia in patients with a brain tumor
V. Herynek¹, D. Wagnerova¹, A. Malucelli², J. Vymazal³, M. Hajek⁴; ¹MR-Unit, Department of Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, ²Department of Neurosurgery, JE Purkyne University and Masaryk Hospital, Usti nad Labem/CZECH REPUBLIC, ³Department of Radiology, Na Homolce Hospital, Prague/CZECH REPUBLIC, ⁴MR-Unit, Department of Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC

15:30–17:00 19 Scientific Session – Preclinical Studies & Basic Science

Novel Methods in Quantitative Brain Imaging

Moderators: R. Deichmann, Frankfurt/DE
W. Zaaraoui, Marseille/FR

83 15:30 Towards a full 3D MR parameter quantification by means of (demodulated) off-resonance insensitive balanced SSFP
M. Ott¹, P. Ehses², M. Blaimer¹, T. Benkert¹, P. Jakob¹, ², F. Breuer¹; ¹MR, MRB Forschungszentrum für Magnet-Resonanz-Bayern e.V., Würzburg/GERMANY, ²Max Planck Institute for Biological Cybernetics, Max Planck Institute for Biological Cybernetics, Tübingen/ GERMANY, ³Experimentelle Physik 5, Lehrstuhl für Physik, Würzburg/GERMANY

84 15:42 Segmentation of MR Images by k-space distance minimization: a proof of concept
H. Segers¹, W.J. Palenstijn¹, K.J. Batenburg², J. Sijbers³; ¹Physics: IBBT – Vision Lab, University of Antwerp, Antwerp/BELGIUM, ²Mathematics, Centrum Wiskunde & Informatica, Amsterdam/NETHERLANDS, ³IBBT – Vision Lab, University of Antwerp, Antwerp/BELGIUM

85 15:54 The importance of priors for l2 regularisation and total variation methods in quantitative susceptibility mapping
D. Khabipova¹, J.P. Marques², ³, G. Puy⁴, R. Gruetter³, ⁵, ⁶, Y. Wiaux⁴, ⁶; ¹CIBM-EPFL-LIFMET-SB, CIBM, Lausanne/SWITZERLAND, ²Department of Radiology, UNIL, Lausanne/SWITZERLAND, ³LIFMET, CIBM-EPFL-LIFMET-SB, Lausanne/SWITZERLAND, ⁴Institute of Electrical Engineering, EPFL, Lausanne/SWITZERLAND, ⁵Department of Radiology, University of Lausanne, Lausanne/SWITZERLAND, ⁶Department of Radiology, University of Geneva, Geneva/SWITZERLAND
High spatial resolution T1 maps – going beyond white grey matter segmentation
J.P. Marques1,2, F. Eggenschwiler3, T. Kober4, R. Gruetter2,5; 1Department of Radiology, UNIL, Lausanne/SWITZERLAND, 2LIFMET, CIBM-EPFL-LIFMET-SB, Lausanne/ SWITZERLAND, 3Laboratory for Functional and Metabolic Imaging, EPFL, Lausanne/ SWITZERLAND, 4Healthcare Sector IM&WS S, Siemens Schweiz AGE, Renens/ SWITZERLAND, 5Department of Radiology, University of Geneva and Lausanne, Geneva Lausanne/SWITZERLAND

Myelin Water Quantification by T2 Weighted UTE
T. Klasen1, L. Wachsmuth2, F. Schmid1, S. Kirsch3, C. Faber1; 1Department of Clinical Radiology, University of Münster, Münster/GERMANY, 2Department of Clinical Radiology, University of Münster, Münster/GERMANY, 3Computer Assisted Clinical Medicine, Medical Faculty Mannheim, Heidelberg University, Mannheim/GERMANY

Effect of white matter fiber orientation and fractional anisotropy on T2* in human brain
I. Lange1, N.M. Hirsch2, J. Shao1, C. Preibisch2; 1Neuroradiology, Klinikum rechts der Isar der TU München, Munich/GERMANY, 2Department of Neuroradiology, Klinikum rechts der Isar der TU Muenchen, Munich/GERMANY

Imaging of the Proton Density Contrast and Estimation of the tissue Water Content at 3 Tesla Field Strength

Applying 31P saturation and inversion transfer in human liver and skeletal muscle to measure ATP synthesis exchange rate constants
T. Buehler, R. Kreis, C. Boesch; Department Clinical Research/AMSM, University Bern, Bern/SWITZERLAND

1D-ISIS localized 31P magnetization transfer in liver at 7T
L. Valkovič1,2, W. Bogner2, M. Gajdošík2, I. Just Kukurová2, M. Krššák3, I. Frollo1, S. Trattnig2, M. Chmelík2; 1Department of Imaging Methods, Institute of Measurement Science, Slovak Academy of Sciences, Bratislava/SLOVAK REPUBLIC, 2MR Centre of Excellence, Department of Radiology, Medical University of Vienna, Vienna/ AUSTRIA, 3Department of Internal Medicine III, Medical University of Vienna, Vienna/ AUSTRIA
15:30–17:00 21 Poster Highlights Session

fMRI applications and methods

Moderators: J. Jovicich, Mattarelo/IT
            C. Segebarth, Grenoble/FR

15:30 1H Decoupled Liver Glycogen Detection by 13C MRS with a Clinical 3T Scanner
P. Begovatz¹, S. Link¹, B. Nowotny¹, M. Roden¹, ², J.-H. Hwang¹; ¹Institute of Clinical Diabetology, German Diabetes Center, Düsseldorf/GERMANY, ²Department of Metabolic Diseases, University Clinics, Heinrich Heine University, Düsseldorf/GERMANY

16:06 Relaxometry of J-coupled lipid resonances in the liver tissue at 7T
M. Gajdošík¹, M. Chmelík¹, W. Bogner¹, I. Just Kukurová¹, ², S. Trattnig¹, M. Krššák³; ¹MR Centre of Excellence, Department of Radiology, Medical University of Vienna, Vienna/AUSTRIA, ²Department of NMR and MS, Slovak University of Technology, Bratislava/SLOVAK REPUBLIC, ³Department of Internal Medicine III, Medical University of Vienna, Vienna/AUSTRIA

16:18 Cholesterol detection with J-refocused 1H PRESS DEPT by in vivo 13C MRS
X. Chen¹, P. Boesiger², A. Henning²; ¹Electrical Engineering Department, Institute for Biomedical Engineering, University and ETH Zurich, Zurich, Switzerland, Zurich/SWITZERLAND, ²Institute for Biomedical Engineering, University and ETH Zurich, Zurich/SWITZERLAND

16:30 MRS determination of n-3 fatty acid signal of adipose tissue triglycerides by J-difference editing. A pilot study.
A. Skoch¹, Z. Tosner², M. Hajek³; ¹MR-Unit, Department of Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, ²Chemistry Department, Charles University, Faculty of Science, Prague/CZECH REPUBLIC, ³MR Unit, Dept. Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC

16:42 2D CSI with FID and long echo time acquisition of IMCL at 7T
I. Just Kukurová¹, ², W. Bogner¹, L. Valkovič³, ², M. Gajdošík¹, M. Bittsansky⁴, M. Krššák⁵, S. Gruber¹, S. Trattnig¹, M. Chmelík¹; ¹MR Center—High Field MR, Department of Radiology, Medical University of Vienna/Vienna General Hospital, Vienna/AUSTRIA, ²Department of NMR and MS, Faculty of Chemical and Food Technology, Slovak University of Technology, Bratislava/SLOVAK REPUBLIC, ³Department of Imaging Methods, Institute of Measurement Science, Slovak Academy of Sciences, Bratislava/SLOVAK REPUBLIC, ⁴Department of Medical Biochemistry, Jessenius Faculty of Medicine, Comenius University, Martin/SLOVAK REPUBLIC, ⁵Department of Internal Medicine III, Medical University of Vienna, Vienna/AUSTRIA

15:30–17:00 21 Poster Highlights Session

fMRI applications and methods

Moderators: J. Jovicich, Mattarelo/IT
            C. Segebarth, Grenoble/FR

15:30 Repeated resting state fMRI measurements of a single subject
M. Erb; Biomedical Magnetic Resonance, University Hospital Tuebingen, Tübingen/GERMANY
Intra and cross-modal negative BOLD response to contrast-varying visual stimuli

J. Jorge¹,², P. Figueiredo², R. Gruetter¹, W. Van Der Zwaag¹; ¹CIBM-LIFMET, École Polytechnique Fédérale de Lausanne, Lausanne/SWITZERLAND, ²Department of Bioengineering, Institute for Systems and Robotics/ Instituto Superior Tecnico, Technical University of Lisbon, Lisbon/PORTUGAL

Anterior/posterior functional dichotomy in the hippocampus during spatial memory encoding and retrieval in a naturalistic 3D task

I.C. Duarte¹,², C. Ferreira¹, J. Marques¹, M. Castelo-Branco¹,²; ¹Coimbra, ANIFC, Coimbra/PORTUGAL, ²Visual Neuroscience Laboratory, IBILI, Coimbra/PORTUGAL

Localization of Speech Areas in Brain tumour patients using Hybrid PET/fMRI

J. Mauler, I. Neuner, F. Boers, H. Herzog, K.J. Langen, N.J. Shah; Institute of Neuroscience and Medicine, Jülich Research Center, Jülich/GERMANY

Cortical activation induced by electrical stimulation in patients with multiple sclerosis and foot drop

B.H. Aldebasi¹, X. Lin², P. Glover³, R. Bowtell³, C. Constantinescu⁴, S. Francis¹; ¹School of Physics and Astronomy, SPMMRC, Nottingham/UNITED KINGDOM, ²Royal Derby Hospital, Division of Rehabilitation and geing, Derby/UNITED KINGDOM, ³School of Physics and Astronomy, SPMMRC, Nottingham/UNITED KINGDOM, ⁴Neurology, Division of clinical Neurology, Nottingham/UNITED KINGDOM

BOLD MRI evaluation of the physiological changes of various leg muscles under intense exercise

A.R.J. Pereira¹, J.N. Alves¹, S.S. Alves¹, M.F. Secca¹,², F. João³, A. Veloso³, M.D. Noseworthy⁴,⁵, T. Nuno Jalles², C. Menezes²; ¹Departamento de Física, Faculdade de Ciências e Tecnologia – UNL, Caparica/PORTUGAL, ²Ressonancia Magnética, Ressonancia Magnética, Lisboa/PORTUGAL, ³Laboratório de Biomecânica, Faculdade de Motricidade Humana, Cruz Quebrada/PORTUGAL, ⁴Medical Physics and Applied Radiology Sciences, McMaster University, Hamilton/CANADA, ⁵Biomedical Engineering, McMaster University, Hamilton/ON/CANADA

Changes in Structural and Functional Connectivity in the Thalamo-Cortical Loop Correlate with Clinical Score in Essential Tremor

C. Gallea¹, T. Popa¹, L. Marais¹, S. Meunier², S. Lehericy¹,²,³, M. Vidalhnet²,⁴, R. Valabregue¹; ¹Centre de Neuroimagerie de Recherche (CENIR), Institut du Cerveau et de la Moelle (ICM), Paris/FRANCE, ²Centre d’Investigation Clinique (CIC, CR-ICM), Institut du Cerveau et de la Moelle (ICM), Paris/FRANCE, ³Groupe Hospitalier Pitié-Salpêtrière, CR-ICM/ AP-HP, Paris/FRANCE, ⁴Centre d’Investigation Clinique, Fédération des Maladies du Système Nerveux, Faculté de Médecine, AP-HP, Groupe Hospitalier Pitié-Salpêtrière, Paris/FRANCE
104 16:33  Spatiotemporal dynamics of the ASL CBF and BOLD responses to breath-holding
J. Pinto¹, J. Jorge¹,², P. Vilela³, P. Figueiredo¹; ¹Department of Bioengineering, Institute for Systems and Robotics/Instituto Superior Tecnico, Technical University of Lisbon, Lisbon/PORTUGAL, ²CIBM-LIFMET, École Polytechnique Fédérale de Lausanne, Lausanne/SWITZERLAND, ³Imaging Department, Hospital da Luz, Lisboa/PORTUGAL

105 16:42  Preliminary Results from Analysis of Default Mode Network Connectivity in Migraine Patients
B. Akin¹,², H. Bolay Belen³, D. Gokcay²; ¹Department of Electrical Engineering, UMRAM, National Magnetic Resonance Research Center, Ankara/TURKEY, ²Department of Biomedical Engineering, Middle East Technical University, Ankara/TURKEY, ³Neurology Department, Gazi University, Ankara/TURKEY

106 16:51  Multiscale entropy analysis of blood-oxygen level dependent brain signals
H.A. Ferreira¹, A.R. Rocha¹, P.M. Gonçalves-Pereira²,³, R.M. Manaças²,⁴, A. Andrade¹; ¹Instituto de Biofisica e Engenharia Biomedica, Faculdade de Ciencias da Universidade de Lisboa, Lisboa/PORTUGAL, ²Servicio de Radiologia, Hospital dos Lusiaidas, Lisboa/PORTUGAL, ³Escola Superior de Tecnologias da Saúde, Instituto Politécnico de Lisboa, Lisboa/PORTUGAL, ⁴Servicio de Neurorradiologia, Hospital dos Capuchos, Lisboa/PORTUGAL

17:15–18:45 22 Teaching Session
Advances in diffusion-weighted imaging
Moderators: M. Barth, Nijmegen/NL T. Metens, Brussels/BE

107 17:15  DTI and fiber tracking
P. Hagmann¹,²; ¹Signal Processing Laboratory (LTSS), Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne/SWITZERLAND, ²Department of Radiology, Lausanne University Hospital (CHUV) and University of Lausanne, Lausanne/SWITZERLAND

108 17:45  New perspectives on neuro-anatomy from diffusion MRI
V.J. Wedeen; Building 149, Room 2301, MD, Medicine, Albert Einstein College of Medicine, Charlestown/UNITED STATES OF AMERICA

109 18:15  Abdominal and whole body applications of DWI
A. Luciani¹, M. Chiaradia¹, A. Vignaud², F. Pigneur¹, C. Lin¹, A. Rahmouni¹; ¹Radiology Department, CHU Henri Mondor, Créteil/FRANCE, ²CEA, CEA, Orsay/FRANCE

17:15–18:45 23 Scientific Session – Preclinical Studies & Basic Science
Methods for brain perfusion measurements
Moderators: M. Günther, Bremen/DE L. Knutsson, Lund/SE

110 17:15  Partial Volume Correction in Model-Free Arterial Spin Labeling
A. Ahlgren¹, E.T. Petersen², F. Ståhlberg¹,³, R. Wiestam¹, L. Knutsson¹; ¹Department of Medical Radiation Physics, Lund University, Lund/SWEDEN, ²Department of Radiology, University Medical Centre Utrecht, Utrecht/NETHERLANDS, ³Department of Diagnostic Radiology, Lund University, Lund/SWEDEN
111 17:27  Improved partial volume correction for ASL using 3D kernels
R.A. Oliver¹, B. Thomas², D. Thomas¹, X. Golay¹; ¹Institute of Neurology, University College London, London/UNITED KINGDOM, ²Institute of Nuclear Medicine, University College London, London/UNITED KINGDOM

112 17:39  Pseudocontinuous ASL (pCASL) combined with EPI and RARE for High Resolution Multi-Orientation Mouse Brain Perfusion Imaging
G. Duhamel, V. Callot, P.J. Cozzone; Centre de Resonance Magnetique Biologique et Medicale, CNRS – UMR 7339, Marseille/FRANCE

113 17:51  PCASL well-adapted for large volume and repeated cerebral explorations compared to PASL PICORE Q2TPS and PASL FAIR QUIPPS II
A. Lecocq, G. Duhamel, S. Fellah, J.-P. Ranjeva, M. Bernard, P.J. Cozzone, V. Callot; Centre de Recherche Magnetique Biologique et Medical, CNRS – UMR 7339, Marseille/FRANCE

114 18:03  Cortical atrophy, perfusion and metabolic rate in Alzheimer Disease
P. García-Polo¹, J.A. Hernández-Tamames², F. Zelaya³, R. García-Álvarez⁴, E. Alfayate⁵, J. Álvarez-Linera⁶; ¹Biomedical Technology Centre, Technology University of Madrid, Madrid/SPAIN, ²Electronical Technology, Universidad Rey Juan Carlos, Móstoles/SPAIN, ³Centre for Neuroimaging Sciences, King’s College London, London/UNITED KINGDOM, ⁴Clinical Science Development Group, GE Healthcare, Madrid/SPAIN, ⁵Neuroimage, Fundación CIEN, Madrid/SPAIN, ⁶Radiology, Hospital Ruber Internacional, Madrid/SPAIN

115 18:15  Pharmacokinetic model for fractional blood volume quantification with the Rapid Steady State T1 MRI technique in tumors with Gd-DOTA permeable vasculature
T.-A. Perles-Barbacaru, M. Sarraf, R. Farion, M.F. Nissou, B. Van Der Sanden, F. Berger, H. Lahrech; Grenoble Institute of Neurosciences, INSERM U836, La Tronche/FRANCE

116 18:27  CBV quantification with DSC and VASO in areas of a disrupted blood-brain barrier
N.M. Hirsch¹, M. Bauer¹, H. Kooijman², C. Zimmer¹, C. Preibisch¹; ¹Department of Neuroradiology, Klinikum rechts der Isar der TU Muenchen, Munich/GERMANY, ²Clinical Application, Philips Healthcare, Hamburg/GERMANY
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<th>Time</th>
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<td>17:15</td>
<td>24 Scientific Session – Preclinical Studies &amp; Basic Science Room 5A</td>
<td>An MR-compatible Experimental Setup for the Characterization of Aortic Flow Dynamics</td>
<td>M. Khalifé, D. Rodríguez, L. De Rochefort, R.-M. Dubuisson, E. Durand; Campus d’Orsay, IR4M (Université Paris-Sud – CNRS UMR 8081), Orsay/FRANCE</td>
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<td>17:27</td>
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<td>Velocity mapping of tortuous vessels, 1D, 3D or 7D?</td>
<td>T. Schubert¹, M. Pansini¹, O. Bieri², F. Santini³; ¹Radiology and Nuclear Medicine, Basel University Hospital, Basel/SWITZERLAND, ²Division of Radiological Physics – Department of Radiology and Nuclear Medicine, University of Basel Hospital, Basel/SWITZERLAND, ³Division of Radiological Physics, University of Basel Hospital, Basel/SWITZERLAND</td>
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<td>17:39</td>
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<td>Pre-emphasis Compensation of Oscillatory Phase Offsets in Phase-Contrast Flow Measurements</td>
<td>J. Busch¹, S.J. Vannesjœ¹, D. Giesel¹-², C. Barmet¹, K.P. Pruessmann¹, S. Kozerke¹-²; ¹Institute for Biomedical Engineering, University and ETH Zurich, Zurich/SWITZERLAND, ²Division of Imaging Sciences and Biomedical Engineering, King’s College London, London/UNITED KINGDOM</td>
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<td>17:51</td>
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<td>Cyclic Variation of Myocardial Blood Flow Assessed with Cine-ASL</td>
<td>T. Troalen, T. Capron, P.J. Cozzone, M. Bernard, F. Kober; Centre de Résonance Magnétique Biologique et Médicale (’UMR 7339’), CNRS, Faculté de Médecine, Aix-Marseille Université, Marseille/FRANCE</td>
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<td>18:03</td>
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<td>Extraction of a radial k-space navigator during T1 relaxation</td>
<td>P. Winter¹, T. Kampf¹, X. Helluy¹, F.T. Gutjahr¹, W. Bauer², P. Jakob²; ¹Experimentelle Physik 5, Universität Würzburg, Würzburg/GERMANY, ²Medizinische Klinik und Poliklinik I, Universitätsklinikum Würzburg, Würzburg/GERMANY, ³Experimentelle Physik 5, Lehrstuhl für Physik, Würzburg/GERMANY</td>
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<td>18:15</td>
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<td>Myocardial First-Pass Perfusion MRI with High Resolution and Large Anatomic Coverage</td>
<td>D. Stäb¹-², F.A. Breuer³, A.M. Weng¹-², C.O. Ritter², D. Hahn², H. Köstler¹; ¹Comprehensive Heart Failure Center (CHFC), University of Würzburg, Würzburg/GERMANY, ²Institute of Radiology, University of Würzburg, Würzburg/GERMANY, ³Magnetic Resonance Bavaria (MRB), Research Center, Würzburg/GERMANY</td>
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<td>18:27</td>
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<td>Automatic evaluation of the peri-infarct area of myocardial infarction from delayed enhancement MRI</td>
<td>A. Lalande¹-², V. Valandria³, M. Angue¹, N. Vignon¹, A. Cochet¹-², F. Brunotte¹-²; ¹Department of MR Spectroscopy, University Hospital of Dijon, Dijon/FRANCE, ²LE21 (UMR CNRS 6306), University of Burgundy, Dijon/FRANCE</td>
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17:15–18:45 25 Scientific Session – Clinical Applications

**Fitness, vision and forensics**

Moderators: E.-M. Larsson, Uppsala/SE
S. Ulmer, Basel/CH

124 17:15

**A healthy mind in a healthy body – Associations between level and change in physical fitness and brain atrophy**

B.S. Aribisala¹, A. Gow², M.E. Bastin³, M.C. Valdes Hernandez¹, N.A. Royle¹,
S.M. Maniega¹, J.M. Starr⁴, I.J. Deary², J.M. Wardlaw¹; ¹Brain Research Imaging
Centre, Division of Clinical Neurosciences, University of Edinburgh, 2XU/UNITED KINGDOM,
²Department of Psychology, University of Edinburgh, 9JZ/UNITED KINGDOM, ³Brain Research
Imaging Centre, Division of Clinical Neurosciences, University of Edinburgh, 2XU/UNITED KINGDOM, ⁴Geriatric Medicine Unit, University of Edinburgh, 2DN/UNITED KINGDOM

125 17:27

**Changes in brain volume after hypoxic exposure and endurance exercise investigated by MRI**

T. Rupp¹, L. Lamalle², M. Jubeau¹, F. Esteve³, A. Krainik⁴, B. Wuyam¹,
S. Verges¹; ¹HP2 Laboratory, INSERM U1042 – Joseph Fourier University, Grenoble/FRANCE, ²Unité IRM 3 Tesla, IFR n° 1, GRENOBLE/FRANCE, ³U836, Research Center, INSERM, GRENOBLE/FRANCE, ⁴Department of NeuroRadiology, CHU Grenoble, GRENOBLE/FRANCE

126 17:39

**Reduced GABA levels in the Human Visual Cortex challenges the over-inhibition model in Neurofibromatosis type 1**

I.R. Violante¹, M.J. Ribeiro¹, R.A.E. Edden²,³, P. Guimarães¹, I. Bernardino¹,
J. Rebola¹, G. Cunha¹, E. Silva⁴, M. Castelo-Branco¹; ¹IBILI, Faculty of Medicine,
University of Coimbra, Coimbra/PORTUGAL, ²Russel H. Morgan Department of Radiology and Radiological Sciences, The Johns Hopkins University School of Medicine, Baltimore/MD/UNITED STATES OF AMERICA, ³F.M. Kirby Center for Functional Brain Imaging, Kennedy Krieger Institute, Baltimore/MD/UNITED STATES OF AMERICA, ⁴Centre for Hereditary Eye Diseases, Department of Ophthalmology, University Hospital Coimbra, Coimbra/PORTUGAL

127 17:51

**Evidence for neurodevelopmental plasticity of retinotopically-defined visual cortical representations in preclinical model of ganglion cell degeneration**

O. C. D’Almeida, C. Mateus, M. Castelo-Branco; Visual Neuroscience Laboratory,
Institute for Biomedical Research on Light and Image – Faculty of Medicine of University of Coimbra (IBILI – FMUC), Coimbra/PORTUGAL
High resolution magnetic resonance imaging of the neck in survivors of manual strangulation
T. Ehammer¹, S. Pivec¹, ², S. Grassegger¹, ², G. Komatz³, K. Yen³, 
E. Scheurer¹, ²; ¹Clinical Forensic Imaging, Ludwig Boltzmann Institute, Graz/AUSTRIA, 
²Med. Univ. Graz, Medical University Graz, Graz/AUSTRIA, ³MRI, H.Cross Sisters, Graz/ 
AUSTRIA, ⁴Institute for Forensic and Traffic Medicine Heidelberg, Medical University 
Heidelberg, Heidelberg/GERMANY

Optimization of MRI sequences for the assessment of dental age
A. Petrovic¹, ², R. Stollberger¹, E. Scheurer², ³; ¹Institute of Medical Engineering, Graz 
University of Technology, Graz/AUSTRIA, ²Clinical Forensic Imaging, Ludwig Boltzmann 
Institute, Graz/AUSTRIA, ³-, Medical University Graz, Graz/AUSTRIA

Temperature induced changes of MRI relaxation rates in the brain: An 
unfixed postmortem study
C. Birkl¹, C. Langkammer², J. Haybaeck³, C. Ernst³, R. Stollberger⁴, 
F. Fazekas², S. Ropele²; ¹Departement of Neurology, Medical University of Graz, 
Graz/AUSTRIA, ²Department of Neurology, Medical University of Graz, Graz/AUSTRIA, 
³Department of Neuropathology, Institute of Pathology, Medical University of Graz, Graz/ 
AUSTRIA, ⁴Institute of Medical Engineering, Graz University of Technology, Graz/AUSTRIA

Observation of Cardiovascular Magneto-Dynamics with a 16-channel NMR 
Field Probe Array
S. Gross¹, B.E. Dietrich², Y. Duerst², C. Barmet², K.P. Prüssmann²; ¹Institute for 
Biomedical Engineering, University and ETH Zurich, Zürich/SWITZERLAND, ²Institute for 
Biomedical Engineering, ETH Zurich, Zürich/SWITZERLAND

Impact of Imaging Sequence and RF Coil on Voxel Based Morphometry: 
Investigation of Age-Related Structural Brain Changes
D.-P. Streitbürger¹, H.E. Möller¹, A. Pampel¹, T. Kober², J. Lepsien¹, 
M.L. Schroeter¹, K. Mueller¹; ¹Nuclear Magnetic Resonance, Max Planck Institute for 
Human Cognitive and Brain Sciences, Leipzig/GERMANY, ²Healthcare Sector IM&WS S, 
Siemens Schweiz AGE, Renens/SWITZERLAND

A new computer model for the assessment of relaxation rate in 
assessment of trabecular bone: Is bone mass density geometrically 
distributed in cylinders or in walls? 
B.M. Müller-Bierl¹, O. Louis², Y. Fierens², R. Luypaert², J. De Mey²; ¹Radiology, 
Universitair Ziekenhuis, Brussel-Jette/BELGIUM, ²Radiology, Universitair Ziekenhuis Brussel, 
Brussel-Jette/BELGIUM
134 17:51  Sub-Voxel Micro-Architecture Assessment by Diffusion of Mechanical Shear Waves

S.A. Lambert¹, S. Chatelin², S.P. Nashölm³, L. Jugé², P. Garteiser², L. Ter Beek⁴, V. Vilgrain², B. Van Beers², L.E. Bilston⁵, B. Guzina⁶, S. Holm³, R. Sinkus²; ¹INSciM CRB3-U773, Univ Paris Diderot Sorbonne Paris Cité, Clichy/FRANCE, ²INSciM CRB3-U773, Université Paris Diderot Sorbonne Paris Cité, Clichy/FRANCE, ³Informatic, University of Oslo, Oslo/NORWAY, ⁴Philips Medical System, Philips Healthcare, Best/NETHERLANDS, ⁵UNSW, Neuroscience Research Australia, Sydney/AUSTRALIA, ⁶Civil Engineering, University of Minnesota, Minneapolis/UNITED STATES OF AMERICA

135 18:03  In vivo Monitoring of laser-thermotherapy using MR Elastography in the rat brain

N. Salameh¹, E. Diguet², L. Souris¹, M. Sarracanie¹, M. Tardieu¹, R. Sinkus³, E. Brouillette², L. Darrasse¹, X. Maitre¹; ¹IR4M (Imagerie par Resonance Magnetique Medicale et Multi-Modalites), UMR8081 CNRS, Université Paris Sud 11, Orsay/FRANCE, ²I2BM – CNRS2210, CEA – MIRCen, Fontenay-aux-Roses/FRANCE

136 18:15  Towards MRI-guided tracked radiation delivery on an MRI-linac

S.P.M. Crijns, B.W. Raaymakers, J.J.W. Lagendijk; Imaging division, Department of radiotherapy, University Medical Center Utrecht, Utrecht/NETHERLANDS

137 18:27  Identification of High Intensity Focused Ultrasound treated tumor tissue using a multiparametric MRI protocol and ISODATA analysis

S.J.C.G. Hectors, I. Jacobs, G.J. Strijkers, K. Nicolay; Biomedical NMR, Department of Biomedical Engineering, Eindhoven University of Technology, Eindhoven/NETHERLANDS

17:15–18:45 27 Scientific Session – Preclinical Studies & Basic Science  Auditorium III

The power of spectroscopy in animal models of brain pathology

Moderators: A. Heerschap, Nijmegen/NL
A. Viola, Marseille/FR

138 17:15  Detection of protein accumulation by Amide Proton Transfer (APT) in the spinal cord of SOD1 mice using exchange-modulated Laser sequence (EX-L)

M. Rega¹,², F. Torrealdea¹,², A. Gray¹, J. Dick¹, P. Smethurst¹, L. Greensmith¹, K. Siddle¹, S.W. Samuel², D. Thomas¹, X. Golay¹; ¹Institute of Neurology, UCL, London/UNITED KINGDOM, ²Centre for Advanced Biomedical Imaging, UCL, London/UNITED KINGDOM
Therapy-Response Biomarkers in GL261 Glioblastoma Using Metabolome-Based MRSI.
T. Delgado-Goñi¹,², M. Julià-Sapé¹,²,³, C. Arús¹,²,³; ¹Department de Bioquímica i Biologia Molecular, Universitat Autònoma de Barcelona, Cerdanyola del Vallès/SPAIN, ²Centro de Investigación Biomédica en Red en Bioingeniería, Biomateriales y Nanomedicina, CIBER-BBN, Cerdanyola del Vallès/SPAIN, ³Institut de Biotecnologia i Biomedicina, Universitat Autònoma de Barcelona, Cerdanyola del Vallès/SPAIN

Metabolic profile analysis in a rat model of stroke by in vivo magnetic resonance spectroscopy (MRS) and ex vivo high resolution magic angle spinning (HRMAS), using the focused microwave fixation system (FMW) to prevent post-mortem changes
E. Jiménez-Xarrié¹,², M. Davila³,⁴, A.P. Candiota³,⁴, R. Delgado-Mederos², J. Martí-Fàbregas¹,², C. Arús³,⁴; ¹Red Española Neurovascular, RETICS-RENEVAS, Barcelona/SPAIN, ²Neurology Department, Hospital de la Santa Creu i Sant Pau, Barcelona/SPAIN, ³Departament de Bioquímica i Biologia Molecular, Unitat de Bioquímica de Biociències, Edifici Cs, Universitat Autònoma de Barcelona, Cerdanyola del Vallès/SPAIN, ⁴Centro de Investigación Biomédica en Red en Bioingeniería, Biomateriales y Nanomedicina, CIBER-BBN, Cerdanyola del Vallès/SPAIN

Acquisitions of 1H NMR localized spectra during high frequency stimulation of the subthalamic nucleus in the rat.
C. Chassain; MRI service, CHU Gabriel Montpied, Clermont-Ferrand/FRANCE

1H MRS and perfusion MRI studies of GLUT2 knockout mice at 9.4T
H. Lei¹, F. Preitner², B. Thorens², R. Gruetter¹,³; ¹CIBM, École Polytechnique Fédérale de Lausanne, Lausanne/SWITZERLAND, ²CIG, University of Lausanne, Lausanne/SWITZERLAND, ³Department of Radiology, University of Geneva and Lausanne, Geneva Lausanne/SWITZERLAND

In-vivo PRESS spectroscopy reveals changes in osmolite and phospholipid turnover anticipating those observed by MRI in a model of LPS-induced cerebral inflammation.
A.B. Martin-Recuero¹, A. Krzyzanowska², P. Lopez-Larrubia¹, C. Avendaño², S. Cerdan¹; ¹Alberto Sols, Consejo de Investigaciones Científicas, Madrid/SPAIN, ²Histology & Neuroscience, Medical School, Autonoma Univ. of Madrid, Madrid/SPAIN

Assessing Mitochondrial and Oxidative Metabolism During Hypoxia-Ischemia Using Combined Phosphorus MR Spectroscopy and Near Infra-Red Spectroscopy
A. Bainbridge¹, I. Tachtsidis², S. Faulkner³, D.L. Price¹, D. Thomas⁴, E. Cady¹, N. Robertson³, X. Golay⁴; ¹Medical Physics & Bioengineering, UCLH NHS Foundation Trust, London/UNITED KINGDOM, ²Medical Physics and Bioengineering, University College London, London/UNITED KINGDOM, ³Institute for Women’s Health, University College London, London/UNITED KINGDOM, ⁴Institute of Neurology, University College London, London/UNITED KINGDOM
Scientific Programme
Thursday, October 4, 2012

17:15–18:45  28 Poster Highlights Session

**MRI and MRS in paediatric problem solving**

*Auditorium IV*

Moderators:  C. Boesch, Bern/CH
G. Bongartz, Basel/CH

**145 17:15**

**Tract Based Spatial Statistics analysis of White Matter Fractional Anisotropy in Neonatal Encephalopathy – Correlations with MRI findings, Perinatal sepsis, Early Neurological Outcome and Therapeutic Hypothermia**

*D.L. Price¹, H. Eyles², A. Bainbridge², S. Shankaran³, F. Cowan⁴, E. Cady¹, N. Robertson⁵, B. Guhan⁶, S. Thayyil⁶; ¹Dept Medical Physics & Bioengineering, UCLH NHS Foundation Trust, London/UNITED KINGDOM, ²Medical Physics & Bioengineering, UCLH NHS Foundation Trust, London/UNITED KINGDOM, ³Neonatal-Perinatal Medicine, Wayne State University School of Medicine, Detroit/MI/UNITED STATES OF AMERICA, ⁴Neonatal Medicine, Imperial College, London/UNITED KINGDOM, ⁵Academic Neonatology, University College London, London/UNITED KINGDOM, ⁶Institute of Maternal and Child Health, Calicut Medical College, Calicut/INDIA*

**146 17:24**

**Evaluation of postoperative hemodynamics in patients with transposition 25 of the great arteries (D-TGA) by 4D MRI**

*J. Geiger¹, D. Hirtler², B. Jung¹, B. Stiller², M. Langer¹, M. Mark³; ¹Diagnostic Radiology and Medical Physics, University Hospital Freiburg, Freiburg/GERMANY, ²Pediatric Cardiology, University Hospital Freiburg, Freiburg/GERMANY, ³Radiology and Biomedical Engineering, Northwestern University, Chicago/UNITED STATES OF AMERICA*

**147 17:33**

**Metabolic feature selection for differentiating fetuses with congenital diaphragmatic hernia from normal pregnancies using high-resolution 1H NMR spectroscopy**

*A.R. Croitor Sava¹, V. Beck², J. Deprest², S. Van Huffel¹, U. Himmelreich⁴; ¹Dept of Electrical Engineering(ESAT-SCD) – Biomed, Katholieke Universiteit Leuven, Leuven/BELGIUM, ²Centre for Surgical Technologies, Faculty of Medicine, Katholieke Universiteit Leuven, Leuven/BELGIUM, ³Division Woman and Child, University Hospital Gasthuisberg, Leuven/BELGIUM, ⁴Department of Diagnostic and Pathology, KU Leuven, Leuven/BELGIUM*
Temporal versus spatial resolution in quantitative pulmonary perfusion imaging of 2-year old children after congenital diaphragmatic hernia (CDH) repair
F.G. Zöllner¹, K.W. Neff², M. Weidner³, K. Zahn³, T. Schaible⁴, S.O. Schoenberg², L.R. Schad¹; ¹Computer Assisted Clinical Medicine, Medical Faculty Mannheim, Heidelberg University, Mannheim/GERMANY, ²Institute of Clinical Radiology and Nuclear Medicine, University Medical Center Mannheim, Heidelberg University, Mannheim/GERMANY, ³Dept. of Pediatric Surgery, University Medical Center Mannheim, Heidelberg University, Mannheim/GERMANY, ⁴Dept. of Pediatrics, University Medical Center Mannheim, Heidelberg University, Mannheim/GERMANY

Adipose tissue distribution and insulin sensitivity in obese adolescents at increased risk for type 2 diabetes: changes during lifestyle intervention
F. Springer¹, V. Ballweg², S. Ehehalt³, G. Binder³, F. Schick¹; ¹Department of Diagnostic and Interventional Radiology, Section on Experimental Radiology, University Hospital, Tübingen/GERMANY, ²Department of Diagnostic and Interventional Radiology, Section on Experimental Radiology, University Hospital Tübingen, Tübingen/GERMANY, ³Pediatric Endocrinology and Diabetes, University Children’s Hospital, Tübingen/GERMANY

Combining MR diffusion measures to discriminate paediatric posterior fossa tumours.
D. Rodriguez Gutierrez¹, M. Manita¹, R.A. Dineen¹, T. Jaspan², R. Grundy³, D.P. Auer¹; ¹Radiological and Imaging Sciences, University of Nottingham, Nottingham/UNITED KINGDOM, ²Radiology, Nottingham University Hospital Trust, Nottingham/UNITED KINGDOM, ³The Children’s Brain Tumor Research Centre, University of Nottingham, Nottingham/UNITED KINGDOM

Proton magnetic resonance spectroscopy of ADHD children treated with atomoxetine and methylphenidate
M. Bittsansky¹, V. Husarova², I. Ondrejka³, H. Polacek⁴, D. Dobrota¹; ¹Department of Medical Biochemistry, Jessenius Faculty of Medicine, Comenius University, Martin/SLOVAK REPUBLIC, ²Institute of Physiology, Faculty of Medicine, Comenius University, Bratislava/SLOVAK REPUBLIC, ³Clinic of Psychiatry, Jessenius Faculty of Medicine, Comenius University, Martin/SLOVAK REPUBLIC, ⁴Clinic of Radiodiagnostics, Jessenius Faculty of Medicine, Comenius University, Martin/SLOVAK REPUBLIC

Proton Magnetic Resonance Spectroscopy of Orbital Frontal White Matter in Medication Naïve Children with OCD
A.M. Weber¹, N. Soreni², M.D. Noseworthy³; ¹Biomedical Engineering, McMaster University, Hamilton/ON/CANADA, ²Psychiatry and Behavioural Neuroscience, St. Joseph’s Healthcare, Hamilton/ON/CANADA, ³Imaging Research Centre, St. Joseph’s Healthcare, Hamilton/ON/CANADA

Developmental metabolic changes in normal young children’s brains
M. Kijonka¹, M. Sokół¹, E. Jamroz², J. Paprocka², A. Skorupa¹; ¹Department of Medical Physics, Maria Sklodowska-Curie Memorial Cancer Center and Institute of Oncology, Gliwice/POLAND, ²Child Neurology Department, Silesian Medical University, Katowice/POLAND
### 8:00–9:00  29 Mini-Categorical Course  
**Artifacts in MSK MRI – How to optimise our imaging II**  
**Moderators:** M.A. Cova, Triest/IT  
N.N.

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<th>Time</th>
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<tr>
<td>155 8:00</td>
<td>How do artifacts arise? A physicist’s perspective</td>
<td>R. Hodgson; NIHR Leeds Musculoskeletal Biomedical Research Unit, University of Leeds, Leeds/UNITED KINGDOM</td>
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<td>156 8:30</td>
<td>Specific sequence optimisation: how to implement the knowledge from MRI-physics on the scanner</td>
<td>M. Nittka; MR PLM-AW, Siemens AG, Erlangen/GERMANY</td>
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### 8:00–9:00  30 Mini-Categorical Course  
**Neuro Imaging – Brain Connectivity**  
**Moderators:** P. Sundgren, Lund/SE  
S. Ulmer, Basel/CH

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<td>157 8:00</td>
<td>Resting state fMRI: imaging the brain at rest</td>
<td>S.D. Roosendaal; Radiology, Medical Center Alkmaar/ VU medical center, Amsterdam/NETHERLANDS</td>
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<td>158 8:30</td>
<td>Multi-voxel pattern analysis: reading states of the mind in real-time</td>
<td>R. Goebel; Department of Cognitive Neuroscience, Universiteit Maastricht, Faculty of Psychology and Neuroscience, Maastricht/NETHERLANDS</td>
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### 8:00–9:00  31 Mini-Categorical Course  
**Quality Control – Quality control in therapy and quantitative MRI**  
**Moderators:** X. Golay, London/UK  
F. Stahlberg, Lund/SE

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<td>159 8:00</td>
<td>QC in MRI guided therapy: application to radiotherapy</td>
<td>S.P.M. Crijns; Imaging division, Department of radiotherapy, University Medical Center Utrecht, Utrecht/NETHERLANDS</td>
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<td>160 8:30</td>
<td>QC for diffusion-weighted imaging</td>
<td>C. Poupon; CEA I2BM NeuroSpin, Bat 145, LRMN (Nuclear Magnetic Resonance Laboratory), Gif-sur-Yvette/FRANCE</td>
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<td>8:00-9:00</td>
<td><strong>32 Mini-Categorical Course</strong></td>
<td>Room 5C</td>
<td>Cardiac – Ischemic heart disease&lt;br&gt;Moderators: J. Bogaert, Leuven/BE&lt;br&gt;N.O.</td>
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<td>161</td>
<td><strong>Imaging of acute myocardial infarction</strong></td>
<td></td>
<td>J. Bogaert; Department of Radiology, UZ LEuven, Leuven/BELGIUM</td>
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<td>162</td>
<td><strong>Can MRI predict outcome of revascularisation?</strong></td>
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<td>M. Francone, G. Campidoglio; Department of Radiological, Oncological and Pathological Sciences, Sapienza University of Rome, Roma/ITALY</td>
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<td>8:00-9:00</td>
<td><strong>33 Mini-Categorical Course</strong></td>
<td>Auditorium III</td>
<td>ENCITE – Contrast enhanced cellular labelling – Cellular labelling: new challenges&lt;br&gt;Moderators: U. Himmelreich, Leuven/BE&lt;br&gt;K. Nicolay, Eindhoven/NL</td>
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<td>163</td>
<td><strong>Magnetic cell labelling: does the magnetic field (strength) matter?</strong></td>
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<td>R.N. Muller; Department of General,Organic and Biomedical Chemistry, University of Mons, Mons/BELGIUM</td>
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<td>164</td>
<td><strong>Issues of cell labelling for brain applications</strong></td>
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<td>9:10-10:40</td>
<td><strong>34 Plenary Session</strong></td>
<td>Auditorium I</td>
<td>Defining the human connectome&lt;br&gt;Moderators: J.P. Ranjeva, Marseille/FR&lt;br&gt;S. Sunaert, Leuven/BE</td>
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<td>165</td>
<td><strong>Mapping the human connectome with DSI</strong></td>
<td></td>
<td>P. Hagmann¹,²; ¹Signal Processing Laboratory (LTS5), Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne/SWITZERLAND, ²Department of Radiology, Lausanne University Hospital (CHUV) and University of Lausanne, Lausanne/SWITZERLAND</td>
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<td>166</td>
<td><strong>Human connectome: hierarchical clustering</strong></td>
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<td>T. Knösche; Human Cognitive and Brain Sciences, Max Planck Institute, Leipzig/GERMANY</td>
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<td>167</td>
<td><strong>Clinical implications of connectomics</strong></td>
<td></td>
<td>M.P. Milham; Center for Advanced Brain Imaging, Nathan S. Kline Institute for Psychiatry, Orangeburg/NY/UNITED STATES OF AMERICA</td>
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10:50–12:20  35 Teaching Session

**New developments in fMRI**
Moderators:  P. Figueiredo, Lisbon/PT  
C. Segebarth, Grenoble/FR

168  10:50  **fMRI sequences**
P. Jezzard;  *FMRIB Centre, Dept of Clinical Neurosciences, University of Oxford, Oxford/UNITED KINGDOM*

169  11:20  **Paradigm design**
N.F. Ramsey;  *Dept of Neurology and Neurosurgery, Room G.03.124, UMC Utrecht, Utrecht/NETHERLANDS*

170  11:50  **fMRI in clinics**
K.-O. Lövblad;  *Departement de Radiologie, Service Neurdiagnostique et Neuro-interventionnel, Geneva/SWITZERLAND*

10:50–12:20  36 Scientific Session – Preclinical Studies & Basic Science  
**Animal models: ASL, tumours, dual contrast**
Moderators:  M. Bernsen, Rotterdam/NL  
V. Herynek, Prague/CZ

171  10:50  **Exploring the relationship between tumor interstitial fluid velocity and microvascular perfusion using convectionMRI and arterial spin labeling**
S. Walker-Samuel¹, J. Burrell², R. Ramasawmy¹, J. Wells¹, B. Siow¹,  
P. Johnson¹, B. Pedley¹, M. Lythgoe¹; ¹Centre for Advanced Biomedical Imaging, University College London, London/UNITED KINGDOM, ²CRUK and EPSRC Cancer Imaging Centre, The Institute of Cancer Research, Sutton/UNITED KINGDOM

172  11:02  **Combining low-resolution and high-resolution ASL images**
T. Honroth¹, ², F.C. Von Samson-Himmelstjerna²,³, J. Sobesky⁴, M. Günther¹, ²; ¹Department 1 – Physics and Electrical Engineering, MR Imaging and Spectroscopy, University of Bremen, Bremen/GERMANY, ²MR Physics, Fraunhofer Institute for Medical Image Computing (MEVIS), Bremen/GERMANY, ³Center for Stroke Research Berlin (CSB), Charité – Universitätsmedizin Berlin, Berlin/GERMANY, ⁴Department of Neurology and Center for Stroke Research Berlin (CSB), Charité – Universitätsmedizin Berlin, Berlin/GERMANY
173 11:14  In vivo MRI visualization of drug release induced by non focused Ultrasound in an experimental tumor model
S. Rizzitelli¹, P. Giustetto¹, C. Boffa¹, M. Ruzza¹, J.C. Cutrin¹, D. Delli Castelli², S. Aime³, E. Terreno⁴; ¹Chemistry I.F.M. and Molecular & Preclinical Imaging Centers, Universit, Torino/ITALY, ²Chemistry-University of Turin, Molecular Imaging Center, Torino/ITALY, ³Department of Inorganic and Physical Chemistry and Materials Research, University of Turin, Torino/ITALY, ⁴Chemistry- University of turin, Molecular & Preclinical Imaging Center, Torino/ITALY

174 11:26  Early Response Detection to Cyclophosphamide Treatment in a Myc-driven Lymphoma Model using 13C-Pyruvate and FDG-PET

175 11:38  Heteronuclear Proton MRI: In vivo detection of tumor cells using Tm-DOTMA
K. Strobel¹, R. Schmidt¹, O. Reifschneider², D. Delli Castelli³, S. Aime³, C. Bremer³, C. Faber⁵; ¹Department of Radiology, University Hospital Münster, Münster/GERMANY, ²Institute of Inorganic and Analytical Chemistry, University of Münster, Münster/GERMANY, ³Department of Inorganic and Physical Chemistry and Materials Research, University of Turin, Torino/ITALY, ⁴Clinic for Radiology, St. Franziskus Hospital, Münster/GERMANY, ⁵Department of Clinical Radiology, University Hospital Münster, Münster/GERMANY

176 11:50  Amplification of EGFR in human glioma brain tumors correlates to tissue levels of glutamine and glutamate assessed by HRMAS.
J.J. Van Asten¹, A. Idema², A. Heerschap¹; ¹Radiology, Radboud University Nijmegen Medical Center, Nijmegen/NETHERLANDS, ²Neurosurgery, Radboud University Nijmegen Medical Center, Nijmegen/NETHERLANDS

177 12:02  In vivo visualization of cells labeled with superparamagnetic iron oxide by a variable echo time double contrast spoiled gradient echo sequence in diabetic patients
X. Deligianni¹, D. Jirak², K. Scheffler³, ⁴, Z. Berkova², M. Hajek⁵, ⁶, O. Bieri¹; ¹Division of Radiological Physics – Department of Radiology and Nuclear Medicine, University of Basel Hospital, Basel/SWITZERLAND, ²MR-Unit, Department of Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, ³Biomedical Magnetic Resonance, University Tübingen, Tübingen/GERMANY, ⁴MRC Department, MPI for Biological Cybernetics, Tübingen/GERMANY, ⁵MR-Unit, Department of Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, ⁶MR Unit, Dept. Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC
## 10:50–12:20 37 Joint ESMRMB/EFOMP Session

**Room 5A**

**Advanced MRI and MRS imaging for radiation planning**

Moderators: F. Schick, Tübingen/DE
A. Torresin, Milan/IT

### 178 10:50

**Requirements to MRI and MRS data to be applicable for radiation treatment**

A. Torresin, M. Minella, A. Moscato, P.E. Colombo; *Med. Physics Department, Niguarda Ca’ Granda Hospital, Milano/ITALY*

### 179 11:35

**The role of MRI for clinical definition of target volume and organs of risk**

F. Lohr, M.A. Brockmann, D. Dinter, L.R. Schad; *Radiation Oncology, University Medical Center Mannheim, Mannheim/GERMANY, Neuroradiology, University Medical Center Mannheim, Mannheim/GERMANY, Radiology, University Medical Center Mannheim, Mannheim/GERMANY, Computer Assisted Clinical Medicine, Medical Faculty Mannheim, Mannheim/GERMANY*

## 10:50–12:20 38 Scientific Session – Clinical Applications

**Room 5B**

**MR Imaging of kidney, uterus and adnexa**

Moderators: T. Kahn, Leipzig/DE
N.N.

### 180 10:50

**Evaluation of Renal Masses with Diffusion weighted MR Imaging: Benign-Malignant Characterization and Subtype Differentiation of RCC**

A. Kadıoğlu, S. Keskin, D. Karadağ, Ö. Yüzer; *Radiology Dept., Uluk University, Ankara/TURKEY*

### 181 11:02

**Follow-up of the Renal Size by MRI of the Remaining and the Donated Kidney in Living Renal Allograft Donation**

P. Vermathen, A. Rusch Kölbener, T. Buehler, C. Boesch, U. Eisenberger; *DRNN & DKF/ AMSM, University Bern, Bern/SWITZERLAND*

### 182 11:14

**Histogram Analysis of Renal ASL Perfusion Data in mild Chronic Kidney Disease**

C. Rossi, F. Artunc, P. Martirosian, H.-P. Schlemmer, F. Schick, A. Boss; *Department of Diagnostic and Interventional Radiology, University Hospital of Zurich, Zurich/SWITZERLAND, Department of Internal Medicine, University Hospital Tubingen, Tubingen/GERMANY, Section of Experimental Radiology, University Hospital of Tubingen, Tubingen/GERMANY, Radiology, German Cancer Research Center (DKFZ), Heidelberg/GERMANY*
Perfusion and Permeability DCE-MRI measurements in renal cell carcinoma and metastases: effect of ROI size and positioning on inter- and intraobserver variability
M. Braunagel¹, E. Radler¹, M. Ingrisch¹, M. Staehler², K. Nikolaou¹, M. Reiser¹, M. Notohamiprodjo¹; ¹Department of Clinical Radiology, University Hospital Grosshadern, Munich/GERMANY, ²Urology, University Hospitals Munich Grosshadern, Munich/GERMANY

Myometrial invasion in endometrial cancer: diagnostic value of DWI at 3T.
A. Bianek-Bodzak¹, S. Sawicki², D. Wydra², M. Liro², M. Dubaniewicz-Wybieralska¹, A. Sabisz¹, M. Studniarek¹; ¹Radiology, Medical University of Gdansk, Gdansk/POLAND, ²GYnaecology, Medical University of Gdansk, Gdansk/POLAND

Can quantitative dynamic contrast-enhanced MRI improve prediction of malignancy in complex adnexal masses.
P. Dilks, L. Bernardin, A. Sahdev, A. Rockall; Diagnostic Imaging, St Bartholomew’s Hospital, London/UNITED KINGDOM

Detection of Peritoneal Metastases Using Amide Proton Transfer MR Imaging: An Initial Experience
X. Yu¹, E.Y.P. Lee¹, Q. Chan², M. Kim¹; ¹Diagnostic Radiology, The University of Hong Kong, Hong Kong/HONG KONG, ²Philips Healthcare, Hong Kong/HONG KONG

Behaviour of B1+ and SAR under model scaling for the “Virtual Family”
A. Kuehne¹, F. Seifert¹, B. Ittermann²; ¹Medical Physics, Physikalisch-Technische Bundesanstalt (PTB), Berlin/GERMANY, ²Medical Physics, Physikalisch-Technische Bundesanstalt, Berlin/GERMANY

Pressure calculations in the vestibular system due to ionic currents in a static magnetic field
A. Antunes¹, P. Glover¹, Y. Li¹, O. Mian², B.L. Day²; ¹Physics and Astronomy, Sir Peter Mansfield Magnetic Resonance Centre, Nottingham/UNITED KINGDOM, ²Sobell Department of Motor Neuroscience and Movement Disorders, University College London, London/UNITED KINGDOM

RF heating reduction associated to an MR endoluminal coil at 3T
J.-M. Verret¹, F. Pilleul², C. Rabrait³, O. Beuf¹; ¹CNRS UMR 5220; Inserm U630, Université de Lyon, CREATIS, GEHC, Villeurbanne/FRANCE, ²CNRS UMR 5220; Inserm U630, Université de Lyon, CREATIS, Hospices Civils de Lyon, Villeurbanne/FRANCE, ³Clinical Science Development Group, GEHC, Buc/FRANCE
190 11:26  MR-safety assessment of aneurysm clips at 7T: Effects of polarization on SAR
Y. Noureddine1,2, O. Kraff2,3, M.E. Ladd3,4, G. Schaefers1, K.H. Wrede5, A.K. Bitz2,3; 1R&D, MR:comp GmbH, MR safety Testing Laboratory, Gelsenkirchen/GERMANY, 2Erwin L. Hahn Institute for Magnetic Resonance Imaging, University Duisburg-Essen, Essen/GERMANY, 3Department of Diagnostic and Interventional Radiology and Neuroradiology, University Hospital Essen, Essen/GERMANY, 4Erwin L. Hahn Institute for MRI, University of Duisburg-Essen, Essen/GERMANY, 5Clinic for Neurosurgery, University Hospital Essen, Essen/GERMANY

191 11:38  Local investigation of RF induced pacemaker heating in MRI at 1.5T and 3T
G. Fiedler1,2, E. Moser2,3, A.I. Schmid2,3; 1MR Center of Excellence, Medical University of Vienna, vienna/AUSTRIA, 2Center for Medical Physics and Biomedical Engineering, Medical University of Vienna, Vienna/AUSTRIA, 3MR Center of Excellence, Medical University of Vienna, Vienna/AUSTRIA

192 11:50  Effect of Implantable Pulse Generator (IPG) Cases on Implant Tip Heating
V. Acikel1, A. Uslubas2, E. Atalar1; 1Electrical and Electronics, National Research Center for Magnetic Resonance(UMRAM) and Department of Electrical and Electronics Engineering, Bilkent University, Ankara/TURKEY, 2MR Safety Testing Laboratory, MR:comp GmbH, Gelsenkirchen/GERMANY

193 12:02  Ultra-Fast Subject-Specific Safety Assessment for 7 T Parallel Transmission
S. Wang; Electrical and Computer Engineering, Auburn University, Auburn/UNITED STATES OF AMERICA

10:50–12:20 40 Scientific Session – Preclinical Studies & Basic Science Motion correction – Body
Auditorium III
Moderators: F. Kober, Marseille/FR
O. Speck, Magdeburg/DE

194 10:50  Towards Clinical Robustness in Abdominal Water-Fat Imaging
N. Gdaniec1, P. Börnert6, H. Eggers3, M. Doneva2, A. Mertins1; 1Institute for Signal Processing, University of Luebeck, Lübeck/GERMANY, 2Research Laboratories, Philips Healthcare, Hamburg/GERMANY, 3Research Laboratories, Philips Technologie GmbH, Hamburg/GERMANY
Potential improvements in body MRI at 3T by multi-slice adaptive RF shimming utilizing ultrafast B1 mapping
A.M. Sprinkart¹,², G. Schmitz², F. Träber¹, W. Block¹, J. Gieseke¹,³; W.A. Willinek¹, H. Schmid¹, P. Börnert⁴, K. Nehrke⁴; ¹Dept. of Radiology, University of Bonn, Bonn/GERMANY, ²Institute of Medical Engineering, Ruhr-University Bochum, Bochum/GERMANY, ³Clinical Science, Philips Healthcare, Hamburg/GERMANY, ⁴Research Laboratories, Philips Healthcare, Hamburg/GERMANY

Image co-registration for triggered and non-triggered DTI of the human kidney: Reduced variability of diffusion parameter estimation
M. Seif¹, H. Lu², M. Reyes², C. Boesch³, P. Vermathen³; ¹DRNN & DKF/ AMSM, University of Bern, Bern/SWITZERLAND, ²Institute for surgical technology and biomechanics, University of Bern, Bern/SWITZERLAND, ³DRNN & DKF/ AMSM, University Bern, Bern/SWITZERLAND

Supporting Higher Acceleration with a 16 Channel Coil: Quantification of the PILS-effect with 8 and 16 Channel Knee Coils
H. Al Saleh¹, R. Kijowski², W.F. Block³,⁴; ¹Medical Physics, University of Wisconsin, Madison/WI/UNITED STATES OF AMERICA, ²Department of Radiology, University of Wisconsin, Madison, Madison/WI/UNITED STATES OF AMERICA, ³Department of Biomedical Engineering, University of Wisconsin, Madison/WI/UNITED STATES OF AMERICA, ⁴Department of Medical Physics, University of Wisconsin, Madison/WI/UNITED STATES OF AMERICA

Concurrent Magnetic Field Monitoring of EPI Time Series on Different Time Scales: Intra-session, Inter-session and Inter-day Differences Confounding Image Reconstruction
S. Klein¹, L. Kasper², S.J. Vannesjo³, K.P. Prüssmann³; ¹Institute for Biomedical Engineering, ETH and University of Zurich, Zurich/SWITZERLAND, ²University and ETH Zurich, Institute for Biomedical Engineering, Zurich/SWITZERLAND, ³Institute for Biomedical Engineering, University and ETH Zurich, Zurich/SWITZERLAND

Effect of miscalibration of gradient fields and RF coil sensitivities in PatLoc imaging
S. Kroboth¹, D. Gallichan², F. Knoll¹, C.A. Cocosco³, G. Schultz³, M. Zaitsev³, R. Stollberger¹; ¹Institute of Medical Engineering, Graz University of Technology, Graz/AUSTRIA, ²CIBM, EPFL, Lausanne/SWITZERLAND, ³Department of Radiology, Medical Physics, University Medical Center Freiburg, Freiburg/GERMANY

Index of array coils Sensitivity Reproducibility(ISR) for Magnetic Resonance Imaging(MRI) quality control(QC)
A. Sewonu¹,²,³, G. Hossu¹,⁴, F. Carbillot⁶, J. Felblinger¹,³,⁴,⁵, R. Anxionnat⁶; ¹CIC-IT (Inserm CIT801), CHU Nancy, Nancy/FRANCE, ²Innovation Recherche, ALARA Solutions, Strasbourg/FRANCE, ³IADI, Université de Lorraine, Nancy/FRANCE, ⁴IADI, U947, INSERM, Nancy/FRANCE, ⁵Pôle Imagerie, CHU Nancy, Nancy/FRANCE, ⁶IADI, CHU Nancy, Vandoeuvre-Les-Nancy/FRANCE
10:50–12:20  41 Poster Highlights Session

**MR insights in the human brain**

**Moderators:** U. Klose, Tübingen/DE  
S. Ulmer, Basel/CH

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**S. Mangia**¹, A. Carpenter², ³, A. Tyan¹, M. Garwood¹, S. Michaeli¹; ¹CMRR – Dept. of Radiology, University of Minnesota, Minneapolis/MN/UNITED STATES OF AMERICA, ²Dept. of Neurology, University of Minnesota, Minneapolis/MN/UNITED STATES OF AMERICA, ³Brain Sciences Center (11B), VA Medical Center, Minneapolis/MN/UNITED STATES OF AMERICA

**Quantitative Magnetization Transfer reveals abnormalities in normally appearing white matter of subjects with multiple sclerosis**

10:50

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**C. Langkammer**¹, T. Liu², M. Khalili¹, C. Enzinger¹, M. Jehna³, S. Fuchs¹, F. Fazekas¹, Y. Wang², S. Ropele¹; ¹Department of Neurology, Medical University of Graz, Graz/AUSTRIA, ²Department of Radiology, Cornell Medical College, New York/UNITED STATES OF AMERICA, ³Department of Radiology, Medical University of Graz, Graz/AUSTRIA

**Quantitative susceptibility mapping in the basal ganglia of multiple sclerosis patients**

10:59

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**B.S. Aribisala**¹, M.C. Valdes Hernandez¹, N.A. Royle¹, Z. Morris¹, S.M. Maniega¹, M.E. Bastin¹, I.J. Deary², J. Wardlaw¹; ¹Brain Research Imaging Centre, Division of Clinical Neurosciences, University of Edinburgh, 2XU/UNITED KINGDOM, ²Department of Psychology, University of Edinburgh, 9JZ/UNITED KINGDOM

**Are white matter lesions associated with deep or superficial brain atrophy or both?**

11:08

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**L.O. Iheme**¹, S.M. Tepe², M. Kandemir³, T. Kahraman², G. Ünal⁴, B.Z. Yalçınler³, D. Ünay¹; ¹Electrical and Electronics Engineering, Bahçeşehir University, Istanbul/TURKEY, ²Radiology, Bayindir Hospital, Istanbul/TURKEY, ³Neurology, Bayindir Hospital, Istanbul/TURKEY, ⁴Faculty of Engineering and Natural Sciences, Sabancı University, Istanbul/TURKEY

**Automatic Grading of Periventricular White Matter Hyperintensities using FLAIR MRI**

11:17

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**S. Kulikova**, V. Bryukhov, A. Peresedova, O. Trifonova, M. Krotenkova, I. Zavalishin; Neuroradiology, Research Center of Neurology RAMS, Moscow/RUSSIAN FEDERATION

**Diffusion-tensor imaging and clinical data matching in patients with relapse-remitting multiple sclerosis with motor disorders during the follow-up.**

11:26
206 11:35  Spatial analysis of diffusion tensor tractography statistics along the inferior fronto-occipital fasciculus (IFO) with application in progressive supranuclear palsy (PSP)

J. Mårtensson¹, M. Nilsson², F. Ståhlberg³, P. Sundgren⁴, ⁵, C. Nilsson⁶, D. Van Westen⁷, ⁸, E.-M. Larsson⁹, J. Lätt¹; ¹Faculty of medicine and pharmacy, Radiology, Oncology and Radiation Sciences, section for radiology, Uppsala/SWEDEN, ²Medical Radiation Physics, Lund University, Lund/SWEDEN, ³Department of Medical Radiation Physics, Lund University, Lund/SWEDEN, ⁴Center for Medical Imaging and Physiology, SUS, Lund University, Lund/SWEDEN, ⁵Diagnostic Radiology, Lund University, Lund/SWEDEN, ⁶department of clinical sciences, geriatric Psychiatry, Lund/SWEDEN, ⁷Center for Medical Imaging and Physiology, Lund University Hospital, Lund/SWEDEN, ⁸Image and Function, University Hospital Lund, Lund/SWEDEN, ⁹Department of Radiology, Uppsala University, Uppsala/SWEDEN

207 11:44  Correlation of MR Measures of Multiple Sclerosis used in Clinical Routine

C. Capela¹, P.M. Gonçalves-Pereira², R. Manaças², R. Pedrosa¹, A. Sena¹; ¹Neurology dept, Hospital dos Capuchos, Lisboa/PORTUGAL, ²Radiology dept, Hospital dos Lusiadas, Lisboa/PORTUGAL

208 11:53  The correlation between corpus callosum index (CCI) in MRI and severity of Multiple sclerosis

S. Naghibi, A. Nourian; Radiology, Mashad/IRAN

209 12:02  Metabolic features of dorsolateral prefrontal cortex in remitted first-episode patients with schizophrenia.

I. Melnikov¹, S. Sidorin², V. Kaleda³, I. Lebedeva³, T. Akhadov², N. Semenova²; ¹Radiology Department, Children's Clinical and Research Institute of Emergency Surgery and Trauma, Moscow/RUSSIAN FEDERATION, ²Radiology Department, Children’s Clinical and Research Institute of Emergency Surgery and Trauma, Moscow/RUSSIAN FEDERATION, ³Laboratory of neurophysiology, National Mental Health Research Center, Moscow/RUSSIAN FEDERATION

210 12:11  ADC Mapping of White-Matter in Multiple Sclerosis is inversely associated with T2 lesion volume

P.M. Gonçalves-Pereira¹, R. Manaças¹, ², C. Capela³, R. Pedrosa³, A. Sena²; ¹Radiology dept, Hospital dos Lusiadas, Lisboa/PORTUGAL, ²Neuroradiology dept, Hospital dos Capuchos, Lisboa/PORTUGAL, ³Neurology dept, Hospital dos Capuchos, Lisboa/PORTUGAL

14:20–15:50 42 Scientific Session – Clinical Applications

Imaging Neurodegeneration

Moderators: P. Figueiredo, Lisbon/PT
D. Sappey-Marinier, Bron/FR

211 14:20  Analysis of abnormal sulco-gyral patterns in type2 focal cortical dysplasia located in the central area

P. Roca¹, C. Mellerio¹, F. Chassoux², D. Rivière³, A. Cachia⁴, J.-F. Mangin³, B. Devaux², C. Oppenheim¹; ¹Department of Neuroradiology, Sainte-Anne Hospital, Paris/FRANCE, ²Department of Neurosurgery, Sainte-Anne Hospital, Paris/FRANCE, ³LNAO, Neurospin, CEA Saclay, Gil-sur-Yvette/FRANCE, ⁴Center for Psychiatry & Neurosciences, Sainte-Anne Hospital, Paris/FRANCE
212 14:32  Automated Method for Parcellation of Structural Brain Connectivity: application to Epilepsy and to the accurate delineation of the optic radiation

L. Lacerda¹,², H.A. Ferreira², F.D. Acqua¹; ¹Neuroimaging, NATBRAINLAB, Center for Neuroimaging Sciences, Institute of Psychiatry – King’s College, London/UNITED KINGDOM, ²Instituto de Biofísica e Engenharia Biomedica, Faculdade de Ci, Lisboa/PORTUGAL

213 14:44  Evidence of decreased connectivity of the pedunculopontine nucleus in progressive supranuclear palsy patients assessed by high field (7T) T2* weighted images and high angular resolution diffusion-weighted MRI

C. Longo Dos Santos¹,², O. Riff¹, C. Ewenczyk³,⁴, J. Yelnik⁵, C. Francois⁴,⁵, E. Bardinet²,⁶, S. Fernandez Vidal²,⁶, C. Gaudebout³,⁴, L. Marrakchi-Kacem¹,⁴, D. Duclap¹, S. Lecomte¹, S. Mesmoudi⁵, C. Gallea²,⁴, M.-L. Welter³,⁴, B. Gaymard³,⁴, H. Benali³, S. Lehericy²,⁴, M. Vidailhet³,⁴, C. Poupon¹; ¹CEA l2BM NeuroSpin, Bat 145, LRMN (Nuclear Magnetic Resonance Laboratory), Gif-sur-Yvette/FRANCE, ²CR-ICM, CENIR, Paris/FRANCE, ³Centre d’Investigation Clinique, Fédération des Maladies du Système Nerveux, Faculté de Médecine, AP-HP, Groupe Hospitalier Pitié-Salpêtrière, Paris/FRANCE, ⁴Groupe Hospitalier Pitié-Salpêtrière, CR-ICM/ AP-HP, Paris/FRANCE, ⁵INSERM, INSERM, Paris/FRANCE, ⁶UMR7225, CNRS, Paris/FRANCE

214 14:56  Impact of Generalized Seizures on Hippocampal Sclerosis Associated White Matter Changes Assessed by Diffusion Tensor Imaging – Tract-Based-Spatial-Statistics

A.C. Has¹, B. Akin², I. Tezer³, S. Saygi³, K.K. Oguz¹,⁴; ¹National MR REsearch Centre (UMRAM), Bilkent University, Ankara/TURKEY, ²Biomedical ENGINEERING, NATIONAL MR RESEARCH CENTER/UMRAM, Ankara/TURKEY, ³Neurology, Hacettepe University, Ankara/TURKEY, ⁴Radiology, Hacettepe University, School of Medicine, Ankara/TURKEY

215 15:08  Altered brain rhythms and resting-state functional network disruptions involved in patients with generalized Fixation-off epilepsy

A.B. Solana¹, J.A. Hernández-Tamames¹, E. Molina¹, K. Martinez², J.Á. Pineda¹, R. Bruña³, R. Toledano⁴, V. San Antonio⁵, I. García-Morales⁴, A. Gil-Nagel⁴, E. Alfayate⁵, J. Álvarez-Linera⁶, F. Del Pozo¹; ¹Neuroimaging Lab., Center for Biomedical Technology, Pozuelo de Alarcón/SPAIN, ²Psicología Biológica y Salud, Universidad Autónoma de Madrid, Madrid/SPAIN, ³Cognitive and Computational Neuroscience Lab., Center for Biomedical Technology, Pozuelo de Alarcón/SPAIN, ⁴Epilepsy, Hospital Ruber Internacional, Madrid/SPAIN, ⁵Neuroimage, Fundación CIEN, Madrid/SPAIN, ⁶Radiology, Hospital Ruber Internacional, Madrid/SPAIN
216 15:20 Structural brain signature of FTLD driven by granulin mutation
V. Battistoni¹, B. Borroni², G. Giulietti³, A. Alberici², E. Premi², C. Cerini², S. Archetti⁴, R. Gasparotti⁵, C. Caltagirone⁶,⁷, A. Padovani², M. Bozzali⁶;
¹Neuroimaging Laboratory, Santa Lucia Foundation IRCCS, Rome/ITALY, ²Centre for Aging Brain and Neurodegenerative Disorder, Neurology Unit, Brescia/ITALY, ³Neuroimaging Laboratory, Fondazione Santa Lucia, Rome/ITALY, ⁴Brescia Hospital, Laboratories of Analysis, Brescia/ITALY, ⁵U.O. Neuroradiologia, Spedali Civili di Brescia, Brescia/ITALY, ⁶Department of Clinical and Behavioural Neurology, Santa Lucia Foundation, Rome/ITALY, ⁷Department of Neuroscience, University of Rome ‘Tor Vergata’, Rome/ITALY, ⁸Neuroimaging laboratory, Santa Lucia Foundation, Rome/ITALY

217 15:32 Quantitative magnetization transfer imaging in normal aging, amnesic MCI and Alzheimer’s disease
G. Giulietti¹, M. Bozzali¹, V. Battistoni¹, L. Serra¹, B. Spanò¹, R. Perri², M. Cercignani³;
¹Neuroimaging Laboratory, Fondazione Santa Lucia, Rome/ITALY, ²Clinical and Behavioural Neurology, Fondazione Santa Lucia, Rome/ITALY, ³Clinical Imaging Sciences Centre, Brighton and Sussex Medical School, Brighton/UNITED KINGDOM

14:20–15:20 43 Young Investigator Award Finals
Young Investigator Award Finals
Moderators: X. Golay, London/UK
M. Smits, Rotterdam/NL
O. Speck, Magdeburg/DE
S. Sunaert, Leuven/BE

218 14:20 Eddy Current Compensation for Delta Relaxation Enhanced MR by Dynamic Reference Phase Modulation – eDREAM
U.C. Hoelscher¹, P. Jakob¹;²;¹MRI, Research Center for Magnetic Resonance Bavaria, Würzburg/GERMANY, ²Experimentelle Physik 5, Lehrstuhl für Physik, Würzburg/GERMANY

219 14:40 Magnetization Transfer for the Assessment of Bowel Fibrosis in Patients with Crohn’s Disease: Initial Experience
S. Pazahr¹, I. Blume¹, P. Frei², N. Chuck¹, D. Nanz¹, G. Rogler², M. Patak¹, A. Boss¹;¹Department of Diagnostic and Interventional Radiology, University Hospital Zurich, Zurich/SWITZERLAND, ²Department of Gastroenterology, University Hospital Zurich, Zurich/SWITZERLAND

220 15:00 Magnetic resonance imaging in patients with granulomatosis with polyangiitis (Wegener’s) and subglottic stenosis
T. Klink¹, J. Holle², M. Laudien³, F.O. Henes¹, F. Moosig², C. Platzek², G. Adam¹, W.L. Gross², T.A. Bley¹;¹Diagnostic and Interventional Radiology, University Medical Center Hamburg Eppendorf, Hamburg/GERMANY, ²Dept. of Rheumatology and Clinical Immunology, Klinikum Bad Bramstedt, University of Luebeck, Bad Bramstedt/GERMANY, ³Otolarryngeology, University Hospital Schleswig Holstein, Kiel/GERMANY
14:20–15:50  44 Scientific Session – Preclinical Studies & Basic Science

Hyperpolarised nuclei
Moderators: R. Muller, Mons/BE
M. von Kienlin, Basel/CH

221 14:20 Kinetic analysis of acetylCoA synthetase activity in skeletal muscle
J.A.M. Bastiaansen¹, T. Cheng², J.M.N. Duarte¹, M. Mishkovsky¹,³, A. Comment², R. Gruetter¹,⁴; ¹Laboratory of Functional and Metabolic Imaging, EPFL, Lausanne/SWITZERLAND, ²Institute of Physics of Biological Systems, EPFL, Lausanne/SWITZERLAND, ³Radiology, UNIL, Lausanne/SWITZERLAND, ⁴Department of Radiology, Universities of Geneva and Lausanne, Lausanne/SWITZERLAND

222 14:32 New strategy to hyperpolarize biological relevant molecules containing free amino-groups
M. Plaumann¹, J. Bernarding¹, D. Lego², T. Trantzschel¹, C. Köhn¹, S. Dillenberger³, T. Gutmann², T. Ratajczyk³, J. Bargon⁴, G. Buntkowsky³, U. Bommerich²; ¹Dept. of Biometry and Medical Informatics, University Magdeburg, Magdeburg/GERMANY, ²Non-Invasive Brain Imaging, Leibniz Institute for Neurobiology, Magdeburg/GERMANY, ³Technical University Darmstadt, Eduard-Zintl-Institute for Inorganic and Physical Chemistry, Darmstadt/GERMANY, ⁴Institute of Physical and Theoretical Chemistry, University of Bonn, Bonn/GERMANY

223 14:44 Optimized Polarization Transfer Sequence Timing for 13C MRI via Parahydrogen Induced Polarization
D. Graafen¹, M.R. Hansen¹, L.M. Schreiber², K. Münnewann¹; ¹Section of Polymer Spectroscopy, Max Planck Institute for Polymer Research, Mainz/GERMANY, ²Section of Medical Physics, Department of Radiology, Johannes Gutenberg University Medical Center, Mainz/GERMANY

224 14:56 PHIP hyperpolarized ethanol – overcoming keto–enol tautomerism
T. Trantzschel¹, M. Plaumann¹, D. Lego², T. Ratajczyk³, S. Dillenberger³, G. Buntkowsky³, J. Bargon⁴, U. Bommerich², J. Bernarding¹; ¹Dept. of Biometry and Medical Informatics, University Magdeburg, Magdeburg/GERMANY, ²Non-Invasive Brain Imaging, Leibniz Institute for Neurobiology, Magdeburg/GERMANY, ³Technical University Darmstadt, Eduard-Zintl-Institute for Inorganic and Physical Chemistry, Darmstadt/GERMANY, ⁴Institute of Physical and Theoretical Chemistry, University of Bonn, Bonn/GERMANY
Method to minimize the polarization losses in hyperpolarized biomolecules prior to in vivo MR experiments

T. Cheng1, M. Mishkovsky2,3, J.A.M. Bastiaansen4, O. Ouari4, P. Hautle5, P. Tordo4, B. Van Den Brandt6, A. Comment1; 1SB IPSB GR-CO, Ecole Polytechnique Fédérale de Lausanne Lausanne, Lausanne/SWITZERLAND, 2Center for Biomedical Imaging, Ecole Polytechnique Fédérale de Lausanne Lausanne, Lausanne/SWITZERLAND, 3Radiology, UNIL, Lausanne/SWITZERLAND, 4Laboratoire LCP, Université d’Aix-Marseille I, II, III et CNRS, Marseille Cedex 20/FRANCE, 5Sample Environment and Polarised Targets Group, Paul Scherrer Institute, Villigen/SWITZERLAND

[1-13C] pyruvate hyperpolarisation for metabolism study in the rodent brain using MRS

M. Gallopin1,2, L. Mazuel1,2, C. Chassain2, R. Schulte3, C. Rabrait4, B. Jean2, F. Durif1,2; 1Univ. Clermont 1, UFR Medecine, EA 3845, Clermont Ferrand/FRANCE, 2IRM, CHU Gabriel Montpied, Clermont Ferrand Cedex/FRANCE, 3GE, Global Research, München/ GERMANY, 4Clinical Science Development Group, GE Healthcare, Buc/FRANCE

T1 relaxation of hyperpolarized 6Li in oxygenated and deoxygenated blood

R. Balzan1, M. Mishkovsky2, Y. Simonenko3, R.B. Van Heeswijk2, R. Gruetter4,5, G. Navon3, A. Comment6; 1IPSB, EPFL, Lausanne/SWITZERLAND, 2Radiology, UNIL, Lausanne/SWITZERLAND, 3School of chemistry, Tel-Aviv University, Tel Aviv/ISRAEL, 4Department of Radiology, University of Geneva and Lausanne, Geneva Lausanne/SWITZERLAND, 5EPFL-SB-IPSB-LIFMET, Functional and Metabolic Imaging Laboratory, Lausanne/SWITZERLAND, 6SB IPSB GR-CO, Ecole Polytechnique Fédérale de Lausanne Lausanne, Lausanne/SWITZERLAND

Abdominal MR Imaging: what’s new?

Moderators: R. Beets-Tan, Maastricht/NL
T. Metens, Brussels/BE

Comparison of abdominal MRI with diffusion-weighted imaging to 68Ga-DOTATATE PET/CT in detection of neuroendocrine tumors of the pancreas

C.M. Schmid-Tannwald1, C. Schmid-Tannwald2, M. Reiser2, K. Nikolaou2, C. Rist2; 1Institute of Clinical Radiology, Ludwig-Maximilians-University Munich, Munich/ GERMANY, 2Ludwig-Maximilians-University Munich, Institute of Clinical Radiology, Munich/ GERMANY

Relationship between MR viscoelastic parameters in liver fibrosis and steatosis, inflammation, iron and water diffusivity

H. Leitao1,2, S. Doblas3, P. Garteiser2, G. D’Assignies3, F. Mouri3, V. Vilgrain2, R. Sinkus3, C.F.G.C. Geraldes4, B. Van Beers2; 1Department of radiology, Hospital de Universidade de Coimbra, Coimbra/PORTUGAL, 2INSERM CRB3-U773, Université Paris Diderot Sorbonne Paris Cité, Clichy/FRANCE, 3Department of Hepatology, Hôpital Beaujon, Clichy/FRANCE, 4Department of Biochemistry, Faculty of Sciences and Technology, NMR Laboratory, Center for Neurociences and Cell Biology of Coimbra, 3001-401 Coimbra/ PORTUGAL
230 14:44  Gd-EOB-DTPA-Enhanced MRI: Estimation of Liver Function Using T1 Mapping
N. Verloh¹, C. Fellner¹, C. Nießen¹, M. Haimerl¹, M. Scherer², C. Stroszczynski¹, P. Wiggermann¹; ¹Radiologie, Uniklinik Regensburg, Regensburg/GERMANY, ²Chirurgie, Uniklinik Regensburg, Regensburg/GERMANY

231 14:56  Evaluation of Flexible TE Dixon for Liver MRI at 3.0T
C. Lin¹, F. Akisik¹, T. Tirkes¹, K. Sandrasegaran¹, Y. Le¹, M.D. Nickel², B. Dale³, B. Kiefer³; ¹Department of Radiology and Imaging Science, Indiana University School of Medicine, Indianapolis/UNITED STATES OF AMERICA, ²Imaging & Therapy Division, Siemens AG, Healthcare Sector, Erlangen/GERMANY, ³Physics and IDEA, Siemens Medical Solutions, Cary/UNITED STATES OF AMERICA

232 15:08  Liver and muscle MR spectroscopy in diabetic patients during hypocaloric diet
M. Dezortova¹, D. Wagnerova¹, L. Belinova², H. Kahleova², T. Pelikanova², M. Hajek³; ¹MR-Unit, Dept. Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, ²Diabetes Centre, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, ³MR-Unit, Dept. Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC

233 15:20  MR signal changes of tumor and lymph nodes in rectal malignancies before and after chemoradiotherapy
M.S. Aygun¹, F. Mutlu Aygun², S. Iren², I. Tolu¹; ¹Radiology, Konya Education and Research Hospital, Konya/TURKEY, ²Radiology, Konya National Hospital, Konya/TURKEY, ³Radiation Oncology, Konya Education and Research Hospital, Konya/TURKEY

234 15:32  Dynamic contrast-enhanced MRI in determining disease activity in perianal fistulizing Crohn’s disease: a pilot study
M. Ziech¹, C. Lavini¹, S. Bipat¹, C.Y. Ponsioen², A.M. Spijkerboer¹, P.C.F. Stokkers², A.J. Nederveen¹, J. Stoker¹; ¹Radiology, Academic Medical Center, Amsterdam/NETHERLANDS, ²Gastroenterology, Academic Medical Center, Amsterdam/NETHERLANDS

14:20–15:50  46 Radiographers’ Session
Everything you always wanted to know, but never dared to ask II
Moderators: E. Danielsen, Copenhagen/DK
N.N.

235 14:20  Whole body diffusion
B. Kennedy; MRI, Qscan Radiology Clinics, Brisbane/AUSTRALIA
14:20–15:50 47 Scientific Session – Preclinical Studies & Basic Science

Motion correction – head
Moderators: J. Felbinger, Vandoeuvre/FR
J. Jovicich, Mattarello/IT

238 14:20 Improved attenuation correction for PET-MR using ultrashort echo time (UTE) MR and magnetic field monitoring
A.P. Aitken¹, D. Giese¹, P. Schleyer¹, P.K. Marsden¹, S. Kozerke¹,², C. Prieto¹, T. Schaeffter¹; ¹Division of Imaging Sciences and Biomedical Engineering, King’s College London, London/UNITED KINGDOM, ²Institute for Biomedical Engineering, University and ETH Zurich, Zurich/SWITZERLAND

239 14:32 Motion Correction in Quantitative T2* Mapping
U. Noeth, S. Volz, R. Deichmann; Brain Imaging Center (BIC), University of Frankfurt, Frankfurt/Main/GERMANY

240 14:44 How reliable are findings from Track Density Imaging?
T. Dholander, L. Emsell, W. Van Hecke, F. Maes, S. Sunaert, P. Suetens; Medical Imaging Research Center (MIRC), KU Leuven, Leuven/BELGIUM

241 14:56 Investigation of Motion Artifacts Prevented by Prospective Motion Correction
M. Herbst¹, J. Maclaren¹, J. Korvink²,³, M. Zaitsev¹; ¹Dept. of Radiology, University Medical Center Freiburg, Freiburg/GERMANY, ²Freiburg Institute of Advanced Studies (FRIAS), University Freiburg, Freiburg/GERMANY, ³Dept. of Microsystem Engineering, IMTEK, University Freiburg, Freiburg/GERMANY

242 15:08 MoCoLoCo: 3D MR-based High-Resolution Motion Correction
A.J. Hopfgartner¹, F. Fidler², E. Munz¹, P. Jakob¹; ¹Dept. of Experimental Physics 5, University of Würzburg, Würzburg/GERMANY, ²Research Center Magnetic-Resonance-Bavaria, University of Würzburg, Würzburg/GERMANY

243 15:20 Quality assurance of multi-echo data used for myelin water mapping through residual bootstrapping.
T. Billiet¹,², T. Dholander¹,³, R. Peeters¹,², S. Deprez¹, B. Mädler⁵, S. Sunaert²,³, L. Emsell¹,²; ¹Medical Imaging Research Center, University of Leuven, Leuven/BELGIUM, ²Translational MRI, University of Leuven, Leuven/BELGIUM, ³Electrical Engineering, KU Leuven, Leuven/BELGIUM, ⁴Radiology, University Hospital, LEUVEN/BELGIUM, ⁵Neurosurgery, University of Bonn, Bonn/GERMANY, ⁶Radiology, UZ Leuven, Campus Gasthuisberg, Leuven/BELGIUM
244 15:32  Accuracy of head motion detection using different marker fixation methods
I. Kadashevich, K.A. Danishad, O. Speck; Department Biomedical Magnetic Resonance, Otto-von-Guericke-University Magdeburg, Magdeburg/GERMANY

14:20–15:50 48 Poster Highlights Session

14:20  New modalities in head and neck cancer imaging: diffusion weighted imaging and 3D CUBE segmentation of cervical lymph nodes.
P. Jansen, P.A. Wielopolski, A. Van Der Lugt; Radiology, Erasmus Medical Center, Rotterdam/NETHERLANDS

14:29  Simultaneous MR/PET Head-Neck Cancer imaging: Preliminary Clinical Experience
S.M. Cianelli¹, M. Aiello², M. Covello³, E. Nicola³; ¹Dipartimento di Scienze Biomorfológiche e Funzionali, Università di Napoli “Federico II”, Napoli/ITALY, ²Nuclear Medicine, IRCCS Fondazione SDN, Napoli/ITALY, ³IRCCS, Fondazione SDN, Napoli/ITALY

14:38  Assessment of the Spatial Variation of Signal-to-Noise Ratio in Breast MRI
J.A. Dean, M. Borri, R. Panek, M. Schmidt, E. Scurr, M. Leach; CR-UK and EPSRC Cancer Imaging Centre, Institute of Cancer Research and Royal Marsden Hospital, Sutton/UNITED KINGDOM

14:47  Evaluation of Resting State BOLD within Locally Advanced Breast Cancer
E. Mcnabb¹,², A. Jegatheesan¹,², M.D. Noseworthy¹,²,³,⁴; ¹School of Biomedical Engineering, McMaster University, Hamilton/CANADA, ²Imaging Research Centre, St. Joseph’s Healthcare, Hamilton/ON/CANADA, ³Electrical and Computer Engineering, McMaster University, Hamilton/ON/CANADA, ⁴Medical Physics and Applied Radiology Sciences, McMaster University, Hamilton/CANADA

14:56  Magnetic Resonance (MR): Morphological and Dynamics Correlations of Breast Lesions with Diffusion
C. Ribeiro Da Fonseca¹, A. Mesquita², A. Gaspar²,³, L.R. Orvalho³,⁴; ¹IMI, Imagens Medicas Integradas, Lisboa/PORTUGAL, ²Radiology, Hospital da Luz, Lisboa/PORTUGAL, ³Ressonancia Magnética, Ressonancia Magnética Caselas, Lisboa/PORTUGAL, ⁴Imagiology, Hospital da Luz, Lisboa/PORTUGAL
250 15:05  MR metabolomics as a clinical tool for separating breast cancer and non-involved tissue
G.F. Giskeødegård1, 2, B. Geurts3, B. Sitter4, H. Fjøsne5, S. Lundgren6, 7, L. Buylens3, G. Postma3, I.S. Gribbestad1, 8, T.F. Bathen1, 8; 1Trondheim University Hospital, St. Olavs Hospital, Trondheim/NORWAY, 2Department of Circulation and Medical imaging, Norwegian University of Science and Technology, Trondheim/NORWAY, 3Institute of Molecules and Materials, Radboud University Nijmegen Medical Center, Nijmegen/NETHERLANDS, 4Department of technology, Sør-Trøndelag University College, Trondheim/ NORWAY, 5Department of surgery, St. Olavs Hospital, Trondheim/NORWAY, 6Department of oncology, St. Olavs Hospital, Trondheim/NORWAY, 7Department of cancer research and molecular medicine, Norwegian university of science and technology, Trondheim/NORWAY, 8Department of Circulation and Medical Imaging, Norwegian University of Science and Technology, Trondheim/NORWAY

251 15:14  Optimization Framework for PCA Assessment of DCE-MRI of Prostate Cancer
A. Jegatheesan1, 2, M.D. Noseworthy1, 2, 3, C. Boylan4, G. Gohla5, B. Shayan6, J.F. Macgregor7; 1Imaging Research Centre, St. Joseph's Healthcare, Hamilton/ON/ CANADA, 2School of Biomedical Engineering, McMaster University, Hamilton/ON/CANADA, 3Electrical and Computer Engineering, McMaster University, Hamilton/ON/CANADA, 4Radiology, St. Joseph’s Healthcare, Hamilton/ON/CANADA, 5Pathology, St. Joseph’s Healthcare, Hamilton/ON/CANADA, 6Urology, St. Joseph’s Healthcare, Hamilton/ON/ CANADA, 7Chemical Engineering, McMaster University, Hamilton/ON/CANADA

252 15:23  Absolute Concentrations of Choline and Citrate in Prostate Cancer at 3T: Which is the better biomarker?
P. Walker1, G. Créhange2, A. Cochet1, P. Maingon2, L. Cormier3, F. Brunotte1; 1LE2I (UMR CNRS 6306), University of Burgundy, Dijon/FRANCE, 2Department of Radiation Oncology, CGFL, Dijon/FRANCE, 3Department of Urology, University Hospital, Dijon/ FRANCE

253 15:32  Comparison of routine clinical 1.5T and 3T MR Imaging findings in patients with histopathologically proved prostate carcinoma
Z. Ryznarova1, M. Dezortova2, A. Skoch1, F. Jiru2, M. Hajek3, V. Vik4, R. Zachoval4, F. Koukolik5; 1MR Unit, Dept. Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, 2MR-Unit, Dept. Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, 3MR-Unit, Department of Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, 4Urology Department, Thomayer Hospital, Prague/CZECH REPUBLIC, 5Dept. Pathology, Thomayer Hospital, Prague/CZECH REPUBLIC
Feasibility of virtual needle tracking for transrectal MRI biopsies of the prostate

H. Busse¹, G. Thörmer¹, J. Otto¹, N. Garnov¹, T. Riedel¹, A. Schmitgen², A. Winkel³, T. Kahn¹, M. Moche¹; ¹Diagnostic and Interventional Radiology, Leipzig University Hospital, Leipzig/GERMANY, ²Biomedical Visualization Systems, Localite GmbH, St. Augustin/GERMANY, ³Medical Technologies, Invivo Germany, Schwerin/GERMANY

16:10–17:40 49 Teaching Session
Advanced MR mammography
Moderators: M.A. Cova, Triest/IT
D. Klomp, Utrecht/NL

Contrast-enhanced studies (perfusion)
P.A.T. Baltzer; Zentrum für Radiologie, Uniklinikum Jena, Friedrich Schiller Universität Jena, Jena/GERMANY

Diffusion-weighted imaging
W. Bogner; MR Centre of Excellence, Department of Radiology, Medical University of Vienna, Vienna/AUSTRIA

MR spectroscopy in the breast
S. Gruber; MRCE, Dept. Radiology, Medical University Vienna, Vienna/AUSTRIA

16:10–17:40 50 Scientific Session – Preclinical Studies & Basic Science
Novel ideas for Neuro Imaging
Moderators: A.-K. Bouzier-Sore, Bordeaux/FR
R. Deichmann, Frankfurt/DE

Optimized Non-linear Stochastic Regularization for DSC-MRI
D. Benozzo¹, D. Peruzzo¹, M. Castellaro², G. Pillonetto¹, A. Bertoldo¹; ¹Department of Information Engineering, University of Padova, Padova/ITALY, ²Information Engineering, University of Padova, Padova/ITALY

Acute effects of Cannabinoïd treatment on Cerebral Blood Flow and mechanical properties in the juvenile rat brain
S. Chatelin¹, M. Humbert-Claude², P. Garteiser¹, V. Vilgrain¹, B. Van Beers¹, Z. Lenkei², R. Sinkus³; ¹INSERM CRB3-U773, Université Paris Diderot Sorbonne Paris Cité, Clichy/FRANCE, ²Laboratoire Neurobiologie et Diversité Cellulaire, ESPCI-CNRS, UMR7637, Paris/FRANCE, ³Department of Radiology – INSERM UMR773, Université Paris Diderot, Clichy/FRANCE
260 16:34 Phase based manganese quantification in MEMRI at 14.1T
R. Maddage\textsuperscript{1}, J.P. Marques\textsuperscript{1,2}, D. Khabipova\textsuperscript{1}, R. Gruetter\textsuperscript{1,2}; \textsuperscript{1}Functional and Metabolic Imaging, Ecole Polytechnique Fédérale de Lausanne, Lausanne/SWITZERLAND, \textsuperscript{2}Department of Radiology, University of Geneva and Lausanne, Geneva Lausanne/SWITZERLAND

261 16:46 Mapping Critical Voxel-Dimension-Echo-Time Products for Phase-Based Imaging Methods
P.S. Ozbay\textsuperscript{1,2}, C. Rossi\textsuperscript{3}, M. Redle\textsuperscript{4}, K.P. Prüssmann\textsuperscript{5}, D. Nanz\textsuperscript{1}; \textsuperscript{1}Department of Diagnostic and Interventional Radiology, University Hospital Zurich, Zurich/SWITZERLAND, \textsuperscript{2}Institute for Biomedical Engineering, ETH Zurich, Zürich/SWITZERLAND, \textsuperscript{3}Department of Diagnostic and Interventional Radiology, University Hospital of Zurich, Zurich/SWITZERLAND, \textsuperscript{4}Department of Mechanical and Process Engineering, ETH Zürich, Zürich/SWITZERLAND, \textsuperscript{5}Institute for Biomedical Engineering, University and ETH Zurich, Zurich/SWITZERLAND

262 16:58 Reproducibility Study of 3D SSFP Phase-Based Brain Conductivity Imaging
C. Stehning, U. Katscher, J. Keupp; Tomographic Imaging Group, Philips Research Europe, Hamburg/GERMANY

263 17:10 Single Acquisition Electrical Conductivity and Permittivity mapping based on relative coil sensitivities
J.P. Marques\textsuperscript{1,2}, A.W. Magill\textsuperscript{2,3}, R. Gruetter\textsuperscript{4,5}; \textsuperscript{1}Department of Radiology, UNIL, Lausanne/SWITZERLAND, \textsuperscript{2}LIFMET, CIBM-EPFL-LIFMET-SB, Lausanne/SWITZERLAND, \textsuperscript{3}Department of Radiology, University of Lausanne, Lausanne/SWITZERLAND, \textsuperscript{4}EPFL-IPSB-LIFMET, Functional and Metabolic Imaging Laboratory, Lausanne/SWITZERLAND, \textsuperscript{5}Department of Radiology, Universities of Geneva and Lausanne, Lausanne/SWITZERLAND

264 17:22 Mapping Areas of non-BOLD Signal Response to Hyperoxia in Human Brain
P.S. Ozbay\textsuperscript{1,2}, C. Rossi\textsuperscript{1}, M. Redle\textsuperscript{3}, K.P. Prüssmann\textsuperscript{2}, D. Nanz\textsuperscript{1}; \textsuperscript{1}Department of Diagnostic and Interventional Radiology, University Hospital Zurich, Zurich/SWITZERLAND, \textsuperscript{2}Institute for Biomedical Engineering, ETH Zurich, Zürich/SWITZERLAND, \textsuperscript{3}Department of Mechanical and Process Engineering, ETH Zürich, Zürich/SWITZERLAND

16:10–17:40 51 Scientific Session – Preclinical Studies & Basic Science Methodologic improvements in dMRI
Moderators: J. Veraart, Wilrijk/BE

265 16:10 Combination of Joint Image Reconstruction and q-Space Compressed Sensing in Accelerated Diffusion Spectrum Imaging
J.I. Sperl\textsuperscript{1}, E.T. Tan\textsuperscript{2}, M.I. Menzel\textsuperscript{1}, K.F. King\textsuperscript{3}, C.J. Hardy\textsuperscript{2}, L. Marinelli\textsuperscript{2}; \textsuperscript{1}Diagnostics & Biomedical Technologies Europe, GE Global Reseach, Garching n. Munich/GERMANY, \textsuperscript{2}MRI Laboratory, GE Global Reseach, Niskayuna/NY/UNITED STATES OF AMERICA, \textsuperscript{3}MR Physics, GE Healthcare, Waukesha/WI/UNITED STATES OF AMERICA
266 16:22  Diffusion MRI: Estimation of spatially variable Rician noise
J. Veraart¹, J. Rajan¹, R.R. Peeters², A. Leemans³, S. Sunaert³, J. Sijbers¹;
¹Vision Lab, University of Antwerp, Antwerp/BELGIUM, ²Radiology, University Hospitals of 
Leuven, Leuven/BELGIUM, ³Radiology, Images science institute, Utrecht/NETHERLANDS

267 16:34  In Vivo Diffusion-Weighted FSE Imaging Using Tailored RF Excitation 
Pulses to Correct for Non-Linear Phase Patterns
R.G. Nunes¹, ², ³, S.J. Malik², ³, J.V. Hajnal², ³; ¹Institute of Biophysics and Biomedical 
Engineering, Faculty of Sciences, University of Lisbon, Lisbon/PORTUGAL, ²Imaging 
Sciences Department, Imperial College London, London/UNITED KINGDOM, ³Division of 
Imaging Sciences and Biomedical Engineering, King’s College London, London/UNITED 
KINGDOM

268 16:46  Is There Any Effect of Repetition Time on Diffusion Tensor Imaging and 
Fractional Anisotropy Measurements in Partial FOV Sagittal Spinal 
Imaging?
A. Celik¹, M. Cihangiroglu², S. Naderi³, S. Koca²; ¹MRI, GE Healthcare, Antalya/ 
TURKEY, ²MRI, Medicana Hospital, Istanbul/TURKEY, ³Radiology, Umraniye Hospital, 
Istanbul/TURKEY

269 16:58  Organ-specific optimization of b-values for the simplified IVIM model of diffusion
J. Sénégas¹, T.G. Perkins², J. Keupp¹, C. Stehning¹, S. Hussain³; ¹Research 
Laboratories, Philips, Hamburg/GERMANY, ²Clinical Science, Philips Healthcare, Cleveland/ 
OH/UNITED STATES OF AMERICA, ³Radiology, University of Nebraska Medical Center, 
Omaha/NE/UNITED STATES OF AMERICA

270 17:10  Investigation of field and diffusion time dependency of the Diffusion- 
Weighted Signal at ultra-high magnetic fields
N. Kunz¹, P. Hüppi¹, R. Gruetter², ³, S. Sizovenko¹, Y. Van De Looij¹, ³; ¹Division of 
Child Growth & Development, University of Geneva, Genève/SWITZERLAND, ²Department 
of Radiology, University of Geneva and Lausanne, Geneva Lausanne/SWITZERLAND, 
³Laboratory for Functional and Metabolic Imaging, Ecole Polytechnique Fédérale de 
Lausanne, Lausanne/SWITZERLAND

271 17:22  Diffusion kurtosis imaging of the human kidney
G. Pentang, P. Heusch, R.S. Lanzmann, A. Müller-Lutz, D. Blonding, 
G. Antoch, H. Wittsack; University Dusseldorf, Medical Faculty, Institute of Diagnostic and 
Interventional Radiology, Dusseldorf/GERMANY
**16:10–17:40  52 Scientific Session – Clinical Applications**

**White matter imaging**

**Moderators:** J.-P. Ranjeva, Marseille/FR  
S. Trattnig, Vienna/AT

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**272 16:10**

**CONNECT/ARCHI: an open database to infer atlases of the human brain connectivity**


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**273 16:22**

**Brain sodium accumulation and spreading correlate with disability in multiple sclerosis**

**W. Zaaraoui**¹, B. Audoin¹, S. Konstandin², A.M. Nagel³, E. Soulier¹, I. Malikova¹, A. Rico¹, F. Reuter¹, P. Viout¹, S. Confort-Gouny¹, P.J. Cozzone¹, J. Pelletier¹, L.R. Schad², J.-P. Ranjeva¹; ¹-null-, CRMBM UMR CNRS 7339, Aix-Marseille Université, Marseille/FRANCE, ²Computer Assisted Clinical Medicine, Heidelberg University, Mannheim/GERMANY, ³Department of Medical Physics in Radiology, German Cancer Research Center (DKFZ), Heidelberg/GERMANY

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**274 16:34**

**Differentiating between primary progressive multiple sclerosis and primary lateral sclerosis using multi-component relaxation**

**S. Kolind**¹, A. Seddigh², N. Sibtain², S. Deoni³, G.J. Barker⁴, S.C.R. Williams⁴, A. Trabousee⁵, M.R. Turner⁵, P.A. Brex⁶; ¹Medicine, University of British Columbia, Vancouver/BC/CANADA, ²Neurology, King’s College Hospital, London/UNITED KINGDOM, ³Engineering, Brown University, Providence/Ri/UNITED STATES OF AMERICA, ⁴Neuroimaging, King’s College London, London/UNITED KINGDOM, ⁵Clinical Neurology, University of Oxford, Oxford/UNITED KINGDOM

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**275 16:46**

**Contribution of myelin to MR phase contrast in healthy adult human brain white matter**

**S. Rohani Rankouhi**¹, ², E. Hernandez Torres², M. Fan³, A. Mackay²,³,⁴, **A. Rauscher**², ⁴; ¹School of Technology and Health, Royal Institute of Technology, Stockholm/SWEDEN, ²UBC MRI Research Centre, University of British Columbia, Vancouver/BC/CANADA, ³Physics and Astronomy, University of British Columbia, Vancouver/BC/CANADA, ⁴Radiology, University of British Columbia, Vancouver/BC/CANADA

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**276 16:58**

**Intra-scan reproducibility of total white matter perfusion in dementia using pseudo-continuous arterial spin labeling**


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**277 17:10**

**Sensitive Detection of Caudate and Thalamic Alterations in Multiple Sclerosis Patients by Diffusion Tensor Imaging**

**D. Sappey-Marinier**¹, S. Hannoun², F. Durand_Dubief³, D. Ibarrola¹, C. Confavreux⁴, C.C.G. Guttmann², F. Cotton²; ¹CERMEP, CNRS, Bron/FRANCE, ²CREATIS, Université de Lyon, Bron/FRANCE, ³CREATIS, Hôpital Neurologique, Bron/FRANCE, ⁴Neurology, Hôpital Neurologique, Bron/FRANCE, ⁵Neurology & Radiology, Brigham & Womens Hospital, Harvard Medical School, Boston/MA/UNITED STATES OF AMERICA, ⁶CREATIS, CHLS, Bron/FRANCE
Regional volumetry of the central nervous system to detect differences between Neuromyelitis Optica and Multiple Sclerosis

R. Schneider¹, B. Bellenberg², I. Kleiter¹, R. Gold³, O. Köster², J. Klein⁴, C. Lukas²; ¹Neurology, St. Josef Hospital, Ruhr-Universität Bochum, Bochum/GERMANY, ²Radiology, St. Josef Hospital, Ruhr-University Bochum, Bochum/GERMANY, ³Neurology, St. Josef Hospital, Ruhr University Bochum, Bochum/GERMANY, ⁴Medical Image Computing Center, Fraunhofer MEVIS, Bremen/GERMANY

16:10–17:40 53 Scientific Session – Preclinical Studies & Basic Science MRS data acquisition

Moderators: W. Dreher, Bremen/DE
A. Heerschap, Nijmegen/NL

Fast spectroscopic imaging with short echo time using spectroscopic RARE with modified chemical shift encoding and prelocalization

W. Dreher; FB2 (Chemistry), University of Bremen, Bremen/GERMANY

Selective Spectral Modulation of Strongly Coupled Spins with an Echo Top Refocusing Pulse in PRESS Sequences

G. Gambarota¹, A. Bondon²,³, M. Le Floch⁴,⁵, R.V. Mulkern⁶, H. Saint-Jalmes¹,³,⁷; ¹LTSI, Université de Rennes 1, Rennes/FRANCE, ²SIM, UMR CNRS 6290, PRISM, Biosit., Université de Rennes 1, 35043/FRANCE, ³PRISM – Biogenouest – SFR Biosit UMS CNRS 3480 UMS, Université de Rennes 1, Rennes/FRANCE, ⁴CNRS – UMR “Sciences Chimiques de Rennes” – Verres et Céramiques, Université de Rennes 1, Rennes/FRANCE, ⁵-, Université Européenne de Bretagne, Rennes/FRANCE, ⁶Radiology, Children’s Hospital, Boston/UNITED STATES OF AMERICA, ⁷UMR 1099, INSERM, Rennes/FRANCE

Localization scheme for 2D arbitrarily shaped voxels in MRS using segmented spatially selective excitation (SSE) and two-shot inversion

P. Waxmann, F. Schubert, B. Ittermann, R. Mekle; Medical Physics, Physikalisch-Technische Bundesanstalt (PTB), Berlin/GERMANY

Voxel Based Transmit Gain Calibration using Bloch-Siegert Shift Method with Short Adiabatic Pulses for MR Spectroscopy

R. Noeske¹, R. Schulte², T. Schirmer²; ¹Applied Science Laboratory, GE Healthcare, Berlin/GERMANY, ²Diagnostics & Biomedical Tech Laboratory, GE Global Research, Munich/GERMANY

Wavelet Encoded Spectroscopic Imaging and Parallel Imaging Accelerated in Two Dimensions: In-vitro results.

Y. Fu¹, G. Thomas¹, H. Serrai¹,²; ¹Electrical and computer engineering, University of Manitoba, winnipeg/MB/CANADA, ²Magnetic Resonance department, King Abdullah International Medical Research Centre, Jeddah/SAUDI ARABIA
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<th>Time</th>
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<tr>
<td>17:10</td>
<td>Accelerated L-COSY by using Compressed Sensing</td>
<td>B.J. Geraghty¹, A. Jegatheesan², M.D. Noseworthy¹; ¹Electrical and Computer Engineering, McMaster University, Hamilton/ON/CANADA, ²Biomedical Engineering, McMaster University, Hamilton/ON/CANADA</td>
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<td>17:22</td>
<td>Reduction of the bandwidth of Radio Frequency pulses using cascaded RF Pulse approach in non-Fourier MR Spectroscopic Imaging.</td>
<td>Y. Fu¹, G. Thomas¹, H. Serrai¹,²; ¹Electrical and computer engineering, University of Manitoba, winnipeg/MB/CANADA, ²Magnetic Resonance department, King Abdullah International Medical Research Centre, Jeddah/SAUDI ARABIA</td>
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<td>16:10</td>
<td>Analytical approach towards time-dependent gradient eddy current calculation in cylindrical geometry</td>
<td>S.-K. Lee¹, J. Schenck¹, S. Lechner-Greite², J.-B. Mathieu³, B. Amm⁴; ¹MRI Laboratory, GE Global Research, Niskayuna/NY/UNITED STATES OF AMERICA, ²Diagnostics and Biomedical Technologies, GE Global Research Europe, Garching/GERMANY, ³Electromagnetics and Superconductivity, GE Global Research, Niskayuna/NY/UNITED STATES OF AMERICA, ⁴Biomedical and Electronic Systems, GE Global Research, Niskayuna/NY/UNITED STATES OF AMERICA</td>
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<td>16:22</td>
<td>Concurrent Gradient and RF Sequence Monitoring – The MRI Oscilloscope</td>
<td>B.E. Dietrich, D.O. Brunner, C. Barmet, B.J. Wilm, K.P. Pruessmann; Institute for Biomedical Engineering, University and ETH Zurich, Zurich/SWITZERLAND</td>
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<td>16:34</td>
<td>Design and Construction of a 0.2 T System for Whole-Body Field-Cycling MRI</td>
<td>K.J. Pine, G.R. Davies, D.J. Lurie; Aberdeen Biomedical Imaging Centre, University of Aberdeen, Scotland/UNITED KINGDOM</td>
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<td>16:46</td>
<td>Feedback Control to address Magnetic Field Drifts and Fluctuations</td>
<td>Y. Duerst, B.J. Wilm, B.E. Dietrich, S.J. Vannesjo, C. Barmet, K.P. Pruessmann; Institute for Biomedical Engineering, ETH Zurich, Zürich/SWITZERLAND</td>
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<td>16:58</td>
<td>Shim impulse response measurements using frequency-swept pulses</td>
<td>S.J. Vannesjo, B.E. Dietrich, D.O. Brunner, B.J. Wilm, C. Barmet, K.P. Pruessmann; Institute for Biomedical Engineering, University and ETH Zurich, Zurich/SWITZERLAND</td>
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<td>17:10</td>
<td>Full Eddy-Current Compensated (ECC) Dynamic Shim Updated (DSU) Echo Planar Imaging (EPI)</td>
<td>A. Fillmer, S.J. Vannesjo, M. Pavan, K.P. Pruessmann, P. Boesiger, A. Henning; Institute for Biomedical Engineering, University and ETH Zurich, Zurich/SWITZERLAND</td>
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### Scientific Programme

**Friday, October 5, 2012**

| 292 17:22 | **Volume-by-volume shim updating: an approach towards optimized shimming on the rat brain at 9.4 T**  
I. Dragonu, N. Baxan, A. Merkle, J. Hennig, D. Von Elverfeldt, M. Zaitsev; Dept. of Radiology, Medical Physics, University Medical Center Freiburg, Freiburg/GERMANY |

| 16:10–17:40 | **55 Poster Highlights Session**  
**Exploring new channels in flow and perfusion**  
Moderators: X. Golay, London/UK  
L. Schad, Mannheim/DE |

| 293 16:10 | **Dynamic hepatospecific contrast enhanced MRI of liver cirrhosis in rats. Correlations with hepatocyte transporter expression**  

| 294 16:19 | **Cerebral Blood Flow Measurements in Neonates using Look-Locker Arterial Spin Labelling with Subject-Specific Parameters**  
M. Varela¹,², E.T. Petersen³, X. Golay⁴, J.V. Hajnal¹; ¹Imaging Sciences Department, Imperial College London, London/UNITED KINGDOM, ²Department of Medical Physics and Bioengineering, University College London, London/UNITED KINGDOM, ³Department of Radiology, University Medical Centre Utrecht, Utrecht/NETHERLANDS, ⁴Institute of Neurology, University College London, London/UNITED KINGDOM, ⁵Division of Imaging Sciences and Biomedical Engineering, King’s College London, London/UNITED KINGDOM |

| 295 16:28 | **Dynamic Lung Registration Using Residual Complexity**  
Å. Kjørstad¹, D.M.R. Corteville¹, F.G. Zöllner⁴, E. Hodneland², L.R. Schad¹; ¹Computer assisted clinical medicine, Heidelberg University, Mannheim/GERMANY, ²Department of Mathematics, University of Bergen, Bergen/NORWAY |

| 296 16:37 | **Quantitative Pulmonary Perfusion MRI: Breath-Hold vs. Free Breathing**  
M. Ingrisch, D. Maxien, F. Meinel, M. Reiser, K. Nikolaou, O. Dietrich; Institute for Clinical Radiology, Ludwig-Maximilians-University Hospital Munich, Munich/GERMANY |

| 297 16:46 | **Real time correction of extended segmented Arterial Spin Labeling protocols using stereoscopic optical head motion tracking**  
J. Gregori¹;², M. Hoßbach³, R. Kern⁴, M. Günther¹; ¹MEVIS, Fraunhofer, Bremen/GERMANY, ²medical imaging research institute, mediri GmbH, Heidelberg/GERMANY, ³Cognitive Computing & Medical Imaging, Fraunhofer IGD, Darmstadt/GERMANY, ⁴Neurologische Klinik, Universitätsmedizin Mannheim, Universität Heidelberg, Mannheim/GERMANY |
High Resolution pCASL Perfusion Using Multi-Shot EPI
K. Zhang, R. Stirnberg, S. Yun, T. Okell, N.J. Shah;
Forschungszentrum Juelich GmbH, Institute of Neuroscience and Medicine 4, Medical Imaging Physics, Juelich/GERMANY, University of Oxford, FMRIB Centre, Oxford/UNITED KINGDOM, RWTH Aachen University, Department of Neurology, JARA, Aachen/GERMANY

Calculations of arterial transit time, total transit time and mean distribution time using pulsed time-resolved arterial spin labeling MRI
A. Bibic, L. Knutsson, A. Schmidt, S. Månsson, K. Abul-Kasim, J. Åkesson, F. Ståhlberg, R. Wirestam;
Department of Medical Radiation Physics, Lund University, Lund/SWEDEN, Department of Clinical Sciences Malmö, Anaesthesiology and Intensive Care, Lund University, Malmö/SWEDEN, Department of Medical Radiation Physics, Lund University, Malmö/SWEDEN, Diagnostic Centre for Imaging and Functional Medicine, Lund University, Lund/SWEDEN

Blind Parametric Multi-Channel Deconvolution for Estimation of Arterial Input Function in Dynamic Contrast-Enhanced MRI
J. Kratochvíla, R. Jiřík, M. Standara, M. Bartoš, T. Taxt, Z. Starčuk, Jr;
Department of Biomedical Engineering, Brno University of Technology, Brno/CZECH REPUBLIC, Institute of Scientific Instruments, Academy of Sciences of the Czech Republic, Brno/CZECH REPUBLIC, Dept. of Radiology, Masaryk Memorial Cancer Institute, Brno/CZECH REPUBLIC, Department of Biomedical Eng., Brno University of Technology, Brno/CZECH REPUBLIC, The Department of Biomedicine, University of Bergen, Bergen/NORWAY

Contrast-enhanced magnetic resonance microangiography reveals remodeling of the cerebral microvasculature in transgenic arcAbeta mice
J. Klohs, C. Baltes, F. Princz-Kranz, D. Ratering, R.M. Nitsch, I. Knuesel, M. Rudin;
Institute for Biomedical Engineering, University of Zurich and ETHZ, Zurich/SWITZERLAND, University of Zurich, Division of Psychiatry Research, Zurich/SWITZERLAND, Institute of Pharmacology and Toxicology, University of Zurich, Zurich/SWITZERLAND

Assessment of concentration in DSC-MRI using contrast-agent-induced pixel shifts of the superior sagittal sinus during the bolus passage
R. Wirestam, E. Lindgren, F. Ståhlberg, L. Knutsson;
Dept. of Medical Radiation Physics, Lund University, Lund/SWEDEN, Dept. of Diagnostic Radiology, Lund University, Lund/SWEDEN

Hyperpolarisation, will it make it to the clinic?
Moderator: R. Gruetter, Lausanne/CH

Proponent: K. Brindle, Cambridge/UK
Opponent: G. von Schulthess, Zurich/CH
Scientific Programme
Saturday, October 6, 2012

8:00–9:00  57 Mini-Categorical Course
Artifacts in MSK MRI – How to optimise our imaging III
Auditorium II

Moderators:  M.A. Cova, Triest/IT
            S. Trattnig, Vienna/AT

303 8:00  How can we optimise our imaging, part I: extremities – a radiologist’s perspective
        C. Glaser;  Radiology, Radiologisches Zentrum München, Muenchen/GERMANY

304 8:30  How can we optimise our imaging, part II: spine and hip – a radiologist’s perspective
        E. Llopis;  RADIOLOGY, HOSPITAL DE LA RIBERA, Alzira-Valencia/SPAIN

8:00–9:00  58 Mini-Categorical Course
Neuro Imaging – Brain perfusion MR Imaging
Room 5A

Moderators:  M. Smits, Rotterdam/NL
            S. Ulmer, Basel/CH

305 8:00  Perfusion imaging techniques: DSC, DCE and ASL
        L. Knutsson;  Department of Medical Radiation Physics, Lund University, Lund/SWEDEN

306 8:30  Clinical applications of brain perfusion MR imaging
        P. Sundgren;  Diagnostic Radiology, Lund University, Lund/SWEDEN

8:00–9:00  59 Mini-Categorical Course
Quality Control – Quality control in multicenter studies
Room 5B

Moderators:  B. Celda, Burjassot/ES
            J.P. Ranjeva, Marseille/FR

307 8:00  QC in multi center ASL studies
        X. Golay;  Institute of Neurology, University College London, London/UNITED KINGDOM

308 8:30  QC for multicenter fMRI studies
        J. Jovicich;  Center for Mind/Brain Sciences, University of Trento, Mattarello/ITALY

8:00–9:00  60 Mini-Categorical Course
Cardiac – Cardiomyopathies
Room 5C

Moderators:  A. Alberich-Bayarri, Valencia/ES
            M. Francone, Rome/IT

309 8:00  Dilated cardiomyopathies
        K.-F. Kreitner;  Radiology, Unimedizin Mainz, Mainz/GERMANY
310 8:30  Hypertrophic cardiomyopathies  
G. Lund; Innere Medizin/Kardiologie und Radiologie, Klinik und Poliklinik für Diagnostische und Interventionelle Radiologie, Hamburg/GERMANY

8:00–9:00  61 Mini-Categorical Course  
ENCITE – Contrast enhanced cellular labelling – Cell labelling & tracking: clinical context  
Moderators: M. Bernsen, Rotterdam/NL  
N.N.

311 8:00  Labelling and transplantation of pancreatic islets: results and challenges  
M. Hajek; Department of Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, MR Spectroscopy, MR Unit, Prague/CZECH REPUBLIC

312 8:30  Alternative methods to magnetic nanoparticles for cellular labelling  
S. Aime; Dipartimento di Chimica & Centro di Imaging Molecolare, Univ. Torino, Torino/ITALY

9:10–10:40  62 Plenary Session  
MR in personalised medicine  
Moderators: M. Hajek, Prague/CZ  
R. Muller, Mons/BE

313 9:10  MR metabonomics and personalised medicine  
C. Luchinat; CERM, University of Florence, Centro Risonanze Magnetiche – CERM, Florence/ITALY

314 9:40  Socio-economic aspects of personalised medicine  
G.P. Krestin; Department of Radiology, Erasmus MC, University Medical Center  
Rotterdam, Rotterdam/NETHERLANDS

315 10:10  Personalised medicine applied to cardiac imaging  
R. Rienmüller; Radiology, Medical University Graz, Graz/AUSTRIA

10:50–12:20  63 Teaching Session  
Advances in stroke MR Imaging  
Moderators: E.-M. Larsson, Uppsala/SE  
A. van der Lugt, Rotterdam/NL

316 10:50  Imaging cerebrovascular reserve: how and why?  
P. Vilela; Neurorradiologia, Hospital da Luz, Lisboa/PORTUGAL

317 11:20  The penumbra: fact and fiction  
V. Thijs; Neurology, UZ Leuven, Leuven/BELGIUM

318 11:50  Atherosclerotic plaque imaging: ready for the clinic?  
T. Saam; Clinical Radiology, Ludwig-Maximilian University Hospital, Munich, München/GERMANY
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<th>Time</th>
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<tr>
<td>10:50</td>
<td>64 Scientific Session – Preclinical Studies &amp; Basic Science</td>
<td>Pushing the boundaries of fMRI</td>
<td>P. Figueiredo, Lisbon/PT W. Zaaraoui, Marseille/FR</td>
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<td>319</td>
<td>10:50</td>
<td>Multimodal functional imaging of the rat brain: Simultaneous Optical</td>
<td>A. Stroh1, F. Schmid2, L. Wachsmuth2, C. Faber2; 1Institute for Microscopic Anatomy</td>
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<td>Neuronal Calcium Recording and BOLD fMRI</td>
<td>and Neurobiology, Johannes Gutenberg-University Mainz, Mainz/GERMANY, 2Department of Clinical</td>
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<td>Radiology, University of Münster, Münster/GERMANY</td>
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<td>320</td>
<td>11:02</td>
<td>Group inference of high resolution 3D EPI BOLD fMRI at 7 Tesla</td>
<td>G. Grabner1, 2, B.A. Poser3, S. Trattnig2, M. Barth1; 1Donders Institute for Brain,</td>
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<td>Cognition and Behaviour, Radboud University Nijmegen, Nijmegen/NETHERLANDS, 2MR Centre of</td>
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<td>Excellence, Department of Radiology, Medical University of Vienna, Vienna/AUSTRIA, 3Department</td>
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<td>of Medicine, John A. Burns School of Medicine, University of Hawaii, Honolulu/HI/UNITED STATES</td>
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<td>321</td>
<td>11:14</td>
<td>Whole brain resting state fMRI with high resolution simultaneous</td>
<td>P.J. Koopmans1, R. Boyacioglu2, M. Barth1, D.G. Norris1; 1Donders Institute for Brain,</td>
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<td>multislice SE-EPI using PINS at 7 Tesla</td>
<td>Cognition and Behaviour, Radboud University Nijmegen, Nijmegen/NETHERLANDS, 2Donders Institute</td>
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<td>for Brain, Cognition and Behaviour, Radboud University Nijmegen, Nijmegen/NETHERLANDS</td>
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<td>322</td>
<td>11:26</td>
<td>PACEUP-3DEPI: A highly accelerated 3D-EPI sequence for fMRI at 7T</td>
<td>M. Narsude1, 2, J.P. Marques1, 2, W. Van Der Zwaag1, 2, T. Kober2, R. Gruetter1, 2, 3; 1</td>
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<td>Department of Radiology, University of Lausanne, Lausanne/SWITZERLAND, 2Functional and</td>
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<td>Metabolic Imaging, Ecole Polytechnique Fédérale de Lausanne, Lausanne/SWITZERLAND, 3Department</td>
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<td>of Radiology, University of Geneva, Geneva/SWITZERLAND</td>
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<td>323</td>
<td>11:38</td>
<td>Improved functional MRI (fMRI) by density weighted EPI acquisitions</td>
<td>M. Zeller1, A.J. Bartsch2, A. Müller1, M. Gutberlet3, D. Hahn1, H. Köstler1; 1Institute of</td>
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<td>Radiology, University of Würzburg, Würzburg/GERMANY, 2Department of Neuroradiology, University</td>
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<td>of Heidelberg, Heidelberg/GERMANY, 3Radiology, Hannover Medical School, Hannover/GERMANY</td>
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<td>324</td>
<td>11:50</td>
<td>Sensitivity mapping and comparison of T2*-weighted conventional and</td>
<td>S.W. Rieger, S. Pichon, P. Vuilleumier; Department of Fundamental Neuroscience,</td>
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<td>multiplexed MRI sequences using a hypercapnic challenge</td>
<td>University of Geneva, Geneva/SWITZERLAND</td>
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Auditory cortex stimulation by fMRI using cardiac gated measurements
M. Ryn¹, M. Erb², U. Klose³; ¹Department of Diagnostic and Interventional Neuroradiology, University Hospital of Tübingen, Tübingen/GERMANY, ²Biomedical Magnetic Resonance, University Hospital Tübingen, Tübingen/GERMANY, ³MR-Research Group, Department of Diagnostic and Interventional Neuroradiology, University Hospital Tübingen, Tübingen/GERMANY

Regional characterization of heart tissue from infarcted pigs by Magnetic Resonance Microscopy
J.M. Morales¹, A. Gonzalez-Segura², V. Bodi³, V. Gonzalez-Marracchelli², D. Monleón²; ¹Unidad Central de Investigación en Medicina, Universidad de Valencia, Valencia/SPAIN, ²Laboratorio Imagen Molecular y Metabolomica, Fundación para la Investigación del Hospital Clínico Universitario de Valencia, Valencia/SPAIN, ³Servicio de Cardiología, Hospital Clínico Universitario de Valencia, Valencia/SPAIN

Regional characterization of heart tissue from infarcted pigs by Magnetic Resonance Microscopy
J.M. Morales¹, A. Gonzalez-Segura², V. Bodi³, V. Gonzalez-Marracchelli², D. Monleón²; ¹Unidad Central de Investigación en Medicina, Universidad de Valencia, Valencia/SPAIN, ²Laboratorio Imagen Molecular y Metabolomica, Fundación para la Investigación del Hospital Clínico Universitario de Valencia, Valencia/SPAIN, ³Servicio de Cardiología, Hospital Clínico Universitario de Valencia, Valencia/SPAIN

Early exposure to high fat feeding increases susceptibility for cardiac lipid accumulation in mice
P.A. Van Ewijk¹–², S. Pagliualunga¹, J.M. Slenter², J.E. Wildberger², J.F. Glatz³, M.K.C. Hesselink⁴, P. Schrauwen⁵, M.E. Kooi⁶, V.B. Schrauwen-Hinderling¹–²; ¹Department of Human Biology, Maastricht University Medical Centre (MUMC+), Maastricht/NETHERLANDS, ²Department of Radiology, Maastricht University Medical Centre (MUMC+), Maastricht/NETHERLANDS, ³Department of Molecular Genetics, Maastricht University Medical Centre (MUMC+), Maastricht/NETHERLANDS, ⁴Department of Human Movement Sciences, Maastricht University Medical Centre (MUMC+), Maastricht/NETHERLANDS, ⁵Department of Human Biology, Maastricht University Medical Center (MUMC+), Maastricht/NETHERLANDS, ⁶Department of Radiology, Maastricht University Medical Center (MUMC+), Maastricht/NETHERLANDS

Myocardium at risk can be determined by ex vivo T2-weighted magnetic resonance imaging even in the presence of gadolinium: Comparison to myocardial perfusion SPECT
J. Ubachs¹, H. Engblom¹, S. Kouli², M. Kanski¹, P. Andersson², J. Van Der Pals², M. Carlsson¹, D. Erlinge², H. Arheden¹; ¹Department of Clinical Physiology, Skåne University Hospital and Lund University, Lund/SWEDEN, ²Department of Cardiology, Skåne University Hospital and Lund University, Lund/SWEDEN

Noninvasive real-time tracking of iron-labeled macrophage subpopulations in an inflammatory model using high resolution MRI
A. Al Faraj¹, N. Luciani², J. Kolosnjaj-Tabi², E. Mattar¹, C. Wilhelm², O. Clement³, F. Gazeau²; ¹Department of Radiological Sciences, King Saud University, Riyadh/SAUDI ARABIA, ²CNRS UMR 7057, University Paris Diderot, Paris/FRANCE, ³INSERM U970, Paris Cardiovascular Research Center, University Paris Descartes, Paris/FRANCE
330 11:38  Physiological correlates of cerebral blood flow measurements using arterial spin labeling and phase contrast mapping

O.M. Henriksen¹,², L.T. Jensen³, H.B.W. Larsson¹, K. Krabbe⁴, E. Rostrup¹;
¹Functional Imaging Unit, Dept. Diagnostics, Glostrup Hospital, Glostrup/DENMARK, ²Center for Healthy Aging, University of Copenhagen, Copenhagen/DENMARK, ³Dept. Diagnostics, Glostrup Hospital, Glostrup/DENMARK, ⁴Radiology Unit, Dept. Diagnostics, Glostrup Hospital, Glostrup/DENMARK

331 11:50  Early Pancreatic Cancers Detection with Anti-CA 19-9 Conjugated Magnetic Nanoparticles and Active Feedback Magnetic Resonance

Y.-H. Chen¹, X. Yi², C. Hsu¹, Z. Li³, R. Quiroz², L.-P. Hwang¹, Y.-Y. Lin²;
¹Department of Chemistry, National Taiwan University, Taipei/TAIWAN, ²Department of Chemistry & Biochemistry, UCLA, Los Angeles/UNITED STATES OF AMERICA

332 12:02  Non-invasive detection and quantification of acute reperfused myocardial infarction in rabbits using mono-[123] iodohypericin mediated SPECT-CT and 3.0T cardiac MRI

Y. Feng¹, M. Miranda Cona¹, K. Vunckx², Y. Li³, J. Nuyts², F. Chen¹, Y. Ni¹;
¹Department of Imaging and Pathology, UZLeuven, Leuven/BELGIUM, ²Department of Nuclear Medicine, UZLeuven, Leuven/BELGIUM, ³Lab of Translational Medicine, Jiangsu Province Academy of Traditional Chinese Medicine, Leuven/CHINA

10:50–12:20  66 Scientific Session – Clinical Applications

Rectal and liver MRI: the challenges

Moderators:  F. Caseiro Alves, Coimbra/PT
L. Curvo-Semedo, Coimbra/PT

333 10:50  Enhanced vascular structure and function in the tumor-surrounding mesorectum: potential risk factors for patients with rectal cancer

E. Kluza¹, J.-P. Kleijnen¹, M. Maas¹, M. Martens¹, C. Jeukens¹, W. Backes¹, G. Beets², R. Beets-Tan¹; ¹Department of Radiology, Maastricht University Medical Center, Maastricht/NETHERLANDS, ²Department of Surgery, Maastricht University Medical Center, Maastricht/NETHERLANDS

334 11:02  Preliminary experience in comparing Tumor Volume Change (TVC) among MRI Volumetry (MRV), DCE-MRI Volumetry (DCE-MRV) and DW-MRI Volumetry (DWIV) to evaluate response to neoadjuvant therapy (pCRT) in Locally Advanced Rectal Cancer (LARC).

M. Petrillo¹, R. Fusco², V. Granata², O. Catalano², A. Rotondo¹, A. Petrillo²;
¹Section of Radiology, Department “Magrassi-Lanzara,” Second University of Naples, Naples/ITALY, ²Radiology, INT IRCCS “Foundation G. Pascale”, Naples/ITALY
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<td>335 11:14</td>
<td>Intrinsic gradient of the vascular function in rectal tumors</td>
<td>E. Kluza¹, S. Subhani¹, M. Martens¹, M. Maas¹, C. Jeukens¹, G. Beets², R. Beets-Tan¹; ¹Department of Radiology, Maastricht University Medical Center, Maastricht/NETHERLANDS, ²Department of Surgery, Maastricht University Medical Center, Maastricht/NETHERLANDS</td>
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<td>336 11:26</td>
<td>Role of Diffusion-weighted MR-Imaging in detection of hepatic abscesses and their differentiation from non-infected fluid collections</td>
<td>C. Schmid-Tannwald¹, C.M. Schmid-Tannwald², A. Oto³, M. Reiser¹, C. Rist⁴, K. Nikolau²; ¹Ludwig-Maximilians-University Munich, Institute of Clinical Radiology, Munich/GERMANY, ²Institute of Clinical Radiology, Ludwig-Maximilians-University Munich, Munich/GERMANY, ³Department of Radiology, The University of Chicago, Chicago/UNITED STATES OF AMERICA, ⁴Institute for Clinical Radiology, Ludwig-Maximilians-University Munich, Munich/GERMANY</td>
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<td>337 11:38</td>
<td>Diffusion-weighted imaging of the liver: usefulness of ADC values in the differential diagnosis of focal lesions and effect of ROI methods on ADC measurements</td>
<td>J.P. Filipe¹, L. Curvo-Semedo², J. Casalta-Lopes³, C. Marques³, F. Caseiro-Alves³; ¹General Hospital, Centro Hospitalar Universitário de Coimbra, Coimbra/PORTUGAL, ²Radiology, Centro Hospitalar Universitário de Coimbra, Coimbra/PORTUGAL, ³Biophysics Unit, IBILI, Faculty of Medicine, University of Coimbra, Coimbra/PORTUGAL</td>
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<td>338 11:50</td>
<td>Hepatic parenchymal visibility in diffusion MRI at 3T: influence of age, gender and serum ferritin</td>
<td>T. Metens¹, K. Fanstone Ferraresi¹, C. Moreno², M.A. Bali¹, C. Matos¹; ¹Clinique de Résonance Magnétique, Université Libre de Bruxelles Hôpital Erasme, Bruxelles/BELGIUM, ²Gastroenterologie, Université Libre de Bruxelles Hôpital Erasme, Bruxelles/BELGIUM</td>
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<td>339 12:02</td>
<td>The influence of b values and ROIs size on the quantification of diffusion and perfusion in liver with diffusion weighted imaging.</td>
<td>M. Esposito¹, A. Ciccarone², S. Savelli², G. Zatelli¹, C. Fonda²; ¹S.C. Fisica Sanitaria, Azienda Sanitaria Firenze, Firenze/ITALY, ²S.C. Radiologia, Azienda Ospedaliero Universitaria Meyer, Firenze/ITALY</td>
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**10:50–12:20 67 Scientific Session – Clinical Applications**

*Breast: MR Imaging and Spectroscopy*

Moderators: D. Klomp, Utrecht/NL, N.N.

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<td>340 10:50</td>
<td>Diffusion-Weighted Imaging of Breast Cancer: evaluation of diffusion models and fractional anisotropy</td>
<td>R. Panek¹, M. Borri², E. O’Flynn³, V. Morgan¹, M. Orton¹, N.M. Desouza¹, M. Leach¹, M. Schmidt¹; ¹CR-UK and EPSRC Cancer Imaging Centre, Institute of Cancer Research and Royal Marsden NHS Foundation Trust, Sutton/UNITED KINGDOM, ²CR-UK and EPSRC Cancer Imaging Centre, Institute of Cancer Research and Royal Marsden Hospital, Sutton/UNITED KINGDOM</td>
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341 11:02 Multiparametric PET-MRI of breast tumors at 3T obviates unnecessary breast biopsies without missing cancers
K. Pinker-Domenig¹, H. Bickel¹, W. Bogner¹, S. Gruber¹, H. Magometschnigg¹, S. Trattnig², T. Helbich¹; ¹Department of Radiology, Medical University Vienna, Vienna/AUSTRIA, ²MR Centre of Excellence, Department of Radiology, Medical University of Vienna, Vienna/AUSTRIA

342 11:14 Breast imaging- comparison between MRI and Contrast Enhanced Spectral Mammography (CESM) – preliminary results
S. Heinze-Paluchowska¹, E. Luczynska², S. Dyczek²; ¹Department of Magnetic Resonance, H. Niewodniczanski Institute of Nuclear Physics – PAN, Krakow/POLAND, ²Department of Radiology, Oncology Center, Krakow/POLAND

343 11:26 Different MRI techniques as an early indicator of the response of locally advanced breast carcinoma (LABC) to chemotherapy
B. Jakovljević¹, O. Zarić¹, Z. Milošević¹, J. Mihailović¹, M. Daković², G.G. Bačić³; ¹Department of Radiologic diagnostics, National Cancer Research Center, Belgrade/SERBIA, ²Department of Biophysical Chemistry, Faculty of Physical Chemistry, Belgrade/SERBIA, ³Department of Radiochemistry, Faculty of Physical Chemistry, Belgrade/SERBIA

344 11:38 Metabolic characterization of triple negative breast cancers
G.F. Giskeødegård¹, ², S. Lamichhane³, B. Sitter⁴, S. Lundgren⁵, ⁶, A. Bofin⁷, H. Fjøsne⁸, I.S. Gribbestad¹, ³, T.F. Bathen¹, ³; ¹Trondheim University Hospital, St. Olavs Hospital, Trondheim/NORWAY, ²Department of Circulation and Medical imaging, Norwegian University of Science and Technology, Trondheim/NORWAY, ³Department of circulation and medical imaging, Norwegian university of science and technology, Trondheim/ NORWAY, ⁴Department of technology, Sør-Trøndelag University College, Trondheim/ NORWAY, ⁵Department of oncology, St. Olavs Hospital, Trondheim/NORWAY, ⁶Department of cancer research and molecular medicine, Norwegian university of science and technology, Trondheim/NORWAY, ⁷Department of Laboratory Medicine and Children’s and Women’s Health, Norwegian university of science and technology, Trondheim/NORWAY, ⁸Department of surgery, St. Olavs Hospital, Trondheim/NORWAY

345 11:50 A Study of Choline and Standard Uptake Value Correlation in Discriminating IDC from ILC
S. Nicolosi¹, A. Stefano¹, G. Russo², G. Borasi¹, V. Bravatà³, F. Cammarata³, L. Minafra³, S. Pulizzi⁴, I. D’Angelo⁵, C. Messa⁴, I. Castiglione⁶, M.C. Gilardi⁷; ¹Radiologia, CNR – LATO, Cefalù/ITALY, ²Fisica Sanitaria, CNR-IBFM, UOS Cefalù, Cefalù/ ITALY, ³Protogenomica, CNR – LATO, Cefalù/IBFM, ⁴Medicina Nucleare, HSR-Giglio, Cefalù/ ITALY, ⁵Radiologia, HSR-Giglio, Cefalù/ITALY, ⁶Medicina Nucleare, CNR – IBFM, Segrate Milano/ITALY, ⁷Medicina Nucleare, CNR – IBFM, Segrate, Milano/ITALY
Can 1H-NMR-based Metabonomics Identify Bad Prognosis Subpopulations in Breast Cancer Patients?

V. Richard¹, Y. Bouko¹, R. Conotte², J.-M.A. Colet³; ¹Oncology, Ambroise Paré Hospital, Mons/BELGIUM, ²Human biology & toxicology, UMONS, Mons/BELGIUM

10:50–12:20 68 Scientific Session – Preclinical Studies & Basic Science
Auditorium III
RF Arrays – Transmit and Receive
Moderators: R. Bammer, Stanford/USA
D. Brunner, Zurich/CH

Investigation of SNR behavior in a two channels receive coil array
M. Pavan, R. Lüchinger, K.P. Pruessmann; Institute for Biomedical Engineering, University and ETH Zurich, Zurich/SWITZERLAND

Inductive Decoupling of Monolithic Transmission Line Resonators
R. Kriegl¹, 2, 3, J.-C. Ginefri¹, M. Poirier-Quinot¹, L. Darras¹, E. Moser², 3, E. Laistler², 3; ¹IR4M (Imagerie par Resonance Magnetique Medicale et Multi-Modalites), UMR8081 CNRS, Université Paris Sud 11, Orsay/FRANCE, ²Center for Medical Physics and Biomedical Engineering, Medical University of Vienna, Vienna/AUSTRIA, ³MR Center of Excellence, Medical University of Vienna, Vienna/AUSTRIA

Analysis of Array Decoupling Mechanisms Using Magneto-Inductive Metamaterial Lenses at 1.5 Tesla
M.A. Lopez Terrones¹, J.M. Algarín¹, M.J. Freire¹, F. Breuer², R. Marques¹; ¹Electronics and Electromagnetism, University of Seville, Seville/SPAIN, ²Magnetic Resonance Bavaria (MRB), Research Center, Würzburg/GERMANY

Travelling-Wave Excitation for anatomical Primate MRI at 7T Whole Body MRI-System
J. Mallow¹, T. Herrrmann¹, J. Mylius², J. Starlader², J. Bernarding¹; ¹Department of Biometry and Medical Informatics, OVG University Magdeburg, Magdeburg/GERMANY, ²Special Lab Non-Invasive Brain Imaging, Leibniz-Institute for Neurobiology, Magdeburg/ GERMANY

A 31-Element Receive Array for Human Brain Imaging at 9.4T
G. Shajan¹, J. Hoffmann¹, K. Scheffler¹, 2, R. Pohmann¹; ¹High Field Magnetic Resonance Center, Max Planck Institute for Biological Cybernetics, Tuebingen/GERMANY, ²Biomedical Magnetic Resonance, University Hospital Tuebingen, Tuebingen/GERMANY

Design of an ultra-slim 7-channel receive-only phased-array head coil dedicated for combined TMS and fMRI experiments
L.I. Navarro De Lara¹, 2, C. Windischberger¹, 2, E. Moser¹, 2, E. Laistler¹, 2; ¹Center for Medical Physics and biomedical engineering, Medical University of Vienna, Vienna/ AUSTRIA, ²MR Center of Excellence, Medical University of Vienna, Vienna/AUSTRIA

A Dedicated 4-Channel Flexible Array Coil for Ocular Imaging
M.A. Lopez Terrones¹, M. Düring¹, 2, C. Caparros³, D. Gareis¹, M.J. Freire⁴, R. Marques⁴; ¹Research and Development, NORAS MRI products, Höchberg/GERMANY, ²Experimental Physics 5, University of Würzburg, Würzburg/GERMANY, ³Radiology, University Hospital Virgen Macarena, Sevilla/SPAIN, ⁴Electronics and Electromagnetism, University of Seville, Seville/SPAIN

**1H MRS in human brain and spine – technical issues**

Moderators: B. Celda, Burjassot/ES
A. Heerschap, Nijmegen/NL

**354 10:50**

**In-vivo Proton Chemical Shift Imaging at 9.4 T: initial results.**

G.L. Chadzynski¹,², G. Shajan², R. Kolb³, R. Pohmann², U. Klose³, K. Scheffler¹,²;¹ Biomedical Magnetic Resonance, University Hospital Tuebingen, Tuebingen/GERMANY, ²High-Field Magnetic Resonance, Max Planck Institute for Biological Cybernetics, Tuebingen/GERMANY, ³Diagnostic and Interventional Neuroradiology, University Hospital Tuebingen, Tuebingen/GERMANY

**355 11:02**

**A new approach to short-TE full-sensitivity MRSI of human brain at 7T**

L. Xin¹, R. Mekle², V. Mlynarik³, R. Gruetter⁴,⁵;¹-null-, University of Lausanne, Lausanne/SWITZERLAND, ²Medical Physics, Physikalisch-Technische Bundesanstalt, Berlin/GERMANY, ³Laboratory of Functional and Metabolic Imaging, Ecole Polytechnique Fédérale de Lausanne, Lausanne/SWITZERLAND, ⁴Department of Radiology, University of Geneva and Lausanne, Geneva Lausanne/SWITZERLAND, ⁵Laboratory for Functional and Metabolic Imaging, Ecole Polytechnique Fédérale de Lausanne, Lausanne/SWITZERLAND

**356 11:14**

**Pulse-cascaded Hadamard Spectroscopic Imaging with short acquisition delay in the brain at 7T**

G. Hangel, B. Strasser, M. Chmelík, S. Gruber, S. Trattnig, W. Bogner; MR Centre of Excellence, Medical University Vienna, Vienna/AUSTRIA

**357 11:26**

**Reproducibility of Short Echo Time Single Voxel 1H MRS of the Human Brain at 7T With Adiabatic Slice-Selective Refocusing Pulses**

B.L. Van De Bank¹, U.E. Emir², J.J.A. Van Asten¹, G. Öz², T.W.J. Scheenen¹,³;¹ Radiology, Radboud University Nijmegen Medical Center, Nijmegen/NETHERLANDS, ²Center for Magnetic Resonance Research, University of Minnesota, Minneapolis/MN/UNITED STATES OF AMERICA, ³University Duisburg-Essen, Erwin L. Hahn Institute for Magnetic Resonance Imaging, Essen/GERMANY

**358 11:38**

**31P Relaxation Times in Human Brain at 3T and 7T**

A.I. Schmid¹,², E. Moser¹,²;¹ Center for Medical Physics and Biomedical Engineering, Medical University of Vienna, Vienna/AUSTRIA, ²MR Center of Excellence, Medical University of Vienna, Vienna/AUSTRIA

**359 11:50**

**Real-time motion detection for MR spectroscopy in the spinal cord**

A. Hock, S.S. Kollias, P. Boesiger, A. Henning; Institute for Biomedical Engineering, University and ETH Zurich, Zuerich/SWITZERLAND
High spectral quality for a reliable detection of an extended metabolite profile in the human spinal cord

A. Hock¹, E.L. Macmillan¹,², R. Kreis², S.S. Kollias³, P. Boesiger¹, A. Henning¹;
¹Institute for Biomedical Engineering, University and ETH Zurich, Zuerich/SWITZERLAND,
²Depts of Clinical Research & Radiology, University Bern, Bern/SWITZERLAND, ³Institut für Neuroradiologie, Universitätsspital Zürich, Zurich/SWITZERLAND

14:20–15:50 70 Teaching Session
Diffusion tensor MR Imaging
Moderators: R. Bammer, Stanford/USA
F. Peeters, Brussels/BE

Diffusion tensor imaging: technique and pitfalls
G.J.M. Parker; Biomedical Imaging Institute, University of Manchester, Manchester/UNITED KINGDOM

Presurgical assessment of the white matter tracts
M. Smits; Radiology, Erasmus MC, Rotterdam/NETHERLANDS

The developing brain
S. Counsell; Centre for the Developing Brain, King’s College London, London/UNITED KINGDOM

14:20–15:50 71 Scientific Session – Clinical Applications
MSK – clinical impact of MR
Moderators: M.A. Cova, Triest/IT
I. Nöbauer-Huhmann, Vienna/AT

Contrast evaluation of artificial hematomas in different MRI sequences over time
E.M. Hassler¹,², B. Neumayer¹, A. Petrovic¹,³, T. Widek¹, K. Ogris¹, K. Yen⁴, E. Scheurer¹; ¹Ludwig Boltzmann Institute for Clinical Forensic Imaging, Graz/AUSTRIA,
²Institute for Forensic Medicine, Medical University Graz, Graz/AUSTRIA, ³Institute for Medical Engineering, University for Technology Graz, Graz/AUSTRIA, ⁴Institute for Forensic and Traffic Medicine Heidelberg, Medical University Heidelberg, Heidelberg/GERMANY

Whole-body MRI in sarcoidosis: prevalence of musculoskeletal disease manifestations and correlation with clinical data
V.A. Bratu¹, K.E. Hostettler², A. Fischmann¹, M. Tamm², U. Studler³; ¹Klinik für Radiologie und Nuklearmedizin, Universitätsspital Basel, Basel/SWITZERLAND, ²Klinik für Pneumologie, Universitätsspital Basel, Basel/SWITZERLAND, ³Klinik für Radiologie und Nuklearmedizin, Institut für Radiologie, Basel/SWITZERLAND

WITHDRAWN
The relationship between lumbar paraspinal muscle cross sectional area and the severity of low back pain
G.E. Jones, M.D. Noseworthy, D.A. Kumbhare; School of Biomedical Engineering, McMaster University, Hamilton/ON/CANADA, Electrical and Computer Engineering, McMaster University, Hamilton/ON/CANADA, Medical Physics and Applied Radiology Sciences, McMaster University, Hamilton/CANADA, Physical Rehabilitation, McMaster University, Hamilton/ON/CANADA

The reliability of PCr and NIRS measurements for assessing lumbar extensor muscle function in vivo.
J. Fulford, A. Liepa, A.R. Barker, J.R. Meakin; Peninsula Medical School, University of Exeter, Exeter/UNITED KINGDOM, Sport and Health Sciences, University of Exeter, Exeter/UNITED KINGDOM, Physics/Medical Imaging, University of Exeter, Exeter/UNITED KINGDOM

DWI and DCEI in Monitoring of the Tibial Tunnel healing after Anterior Cruciate Ligament Reconstruction with Intraoperatively Administered Platelet-Rich Plasma Gel
M. Rupreht, V. Jevtić, I. Serša, M. Vogrin, M. Jevšek; Radiology department, University Medical Center Maribor, Maribor/SLOVENIA, Radiology department, University of Ljubljana, Ljubljana/SLOVENIA, Solid state physics, Jozef Stefan, Ljubljana/SLOVENIA, Orthopaedics department, University medical center Maribor, Maribor/SLOVENIA

WITHDRAWN

Regional variations of vascular delays during cued deep breathing
I. Sousa, P. Vilela, P. Figueiredo; Department of Bioengineering, Institute for Systems and Robotics/Instituto Superior Tecnico, Technical University of Lisbon, Lisbon/PORTUGAL, Healthcare Sector, Siemens SA, Oporto/PORTUGAL, Imaging Department, Hospital da Luz, Lisbon/PORTUGAL

Comparing CBF and BOLD dynamics in response to cued deep breathing
I. Sousa, P. Vilela, P. Figueiredo; Department of Bioengineering, Institute for Systems and Robotics/Instituto Superior Tecnico, Technical University of Lisbon, Lisbon/PORTUGAL, Healthcare Sector, Siemens SA, Oporto/PORTUGAL, Imaging Department, Hospital da Luz, Lisbon/PORTUGAL
Introducing “Domain Gauges” – Quantitative Fingerprinting of Brain Activity Patterns
A. Bruns, T. Mueggler, C. Risterucci, B. Kuennecke, J. Wettstein, E. Borroni, M. Von Kienlin; Neuroscience, F. Hoffmann-La Roche AG, Basel/SWITZERLAND

see page 151 (Paper Poster)

Filtering of Physiological Signals for High Temporal Resolution (50 ms) Generalized Inverse Imaging (GIN) fMRI Data
R. Boyacioglu¹, M. Barth²; ¹Donders Institute, Radboud University, Nijmegen/NETHERLANDS, ²Donders Institute for Brain, Cognition and Behaviour, Radboud University Nijmegen, Nijmegen/NETHERLANDS

Temporal patterns of resting state networks using EEG-fMRI at 3 Tesla
M. Meyer, E. Van Oort, M. Barth; Donders Institute for Brain, Cognition and Behaviour, Radboud University Nijmegen, Nijmegen/NETHERLANDS

Effect of Exercise on the Brain: A Resting State fMRI Study
R. Hasswa¹, C. Dematteo², J. Connolly³, M.D. Noseworthy¹, 4, 5; ¹School of Biomedical Engineering, McMaster University, Hamilton/CANADA, ²School of Rehabilitation Science, McMaster University, Hamilton/ON/CANADA, ³Linguistics & Languages, McMaster University, Hamilton/ON/CANADA, ⁴Electrical and Computer Engineering, McMaster University, Hamilton/ON/CANADA, ⁵Medical Physics and Applied Radiology Sciences, McMaster University, Hamilton/CANADA

Prediction of acute heart transplant rejection with myocardial T2 quantification.
L. Bonnemains¹, 2, 3, T. Villermin¹, J.-M. Escanye⁴, G. Hossu², 3, 5, F. Odille², 3, F. Vanhuyse¹, J. Felblinger², 3, 6, 7, P.-Y. Marie⁷; ¹Department of Cardiology, CHU Nancy, Nancy/FRANCE, ²U947, INSERM, Nancy/FRANCE, ³IADI, Université de Lorraine, Nancy/FRANCE, ⁴CRM2, Université de Lorraine, Nancy/FRANCE, ⁵CIC-IT, CHU NANCY, Nancy/FRANCE, ⁶CIC-IT 810, INSERM, Nancy/FRANCE, ⁷Pôle Imagerie, CHU Nancy, Nancy/FRANCE

T1 cardiac mapping using multi-phase Phase Sensitive Inversion Recovery (mpPSIR)
J. Sánchez-González¹, J.G. Mirelis², O.M. Weber², A. Alberich-Bayarri³, V. Fúster², B. Ibañez²; ¹Healthcare, Philips Iberia, Madrid/SPAIN, ²Imagen en Cardiología Experimental, Centro Nacional Investigaciones Cardiovasculares (CNIC), Madrid/SPAIN, ³Radiology, Hospital Quirón Valencia, Valencia/SPAIN
Relationship of in vivo myocardium diffusion properties with delayed gadolinium enhanced MRI in patients with ischemic cardiomyopathy

A. Alberich-Bayarri¹, S. Uribe², J. Sánchez-González³, S. Costa¹, L. Martí-Bonmati⁴; ¹Radiology, Hospital Quiron Valencia, Valencia/SPAIN, ²Radiology, Universidad Católica de Chile, Santiago de Chile/CHILE, ³Healthcare, Philips Iberia, Madrid/SPAIN, ⁴Radiology, Universitat de Valencia, Valencia/SPAIN

Post-mortem quantitative cardiac diffusion imaging with double echo steady-state free precession

H.J.A. Crooijmans¹, T.D. Ruder², ³, ⁴, W.-D. Zech³, S. Mathier³, M.J. Thali⁴, O. Bieri¹; ¹Department of Radiology and Nuclear Medicine, Division of Radiological Physics, University of Basel Hospital, Basel/SWITZERLAND, ²University Hospital Bern, Institute of Diagnostic, Interventional and Pediatric Radiology, Bern/SWITZERLAND, ³Center of Forensic Imaging and Virtopsy, Institute of Forensic Medicine, University of Bern, Bern/SWITZERLAND, ⁴Department of Forensic Medicine and Imaging, Institute of Forensic Medicine, University of Zürich, Zürich/SWITZERLAND

Surface-Length Index (SLI): a novel index for rapid detection of Right Ventricle dysfunction by cardiac MRI.

L. Bonnemains¹, ², ³, D. Mandry⁴, A. Menini², ³, B. Stos⁵, F. Marcon¹, N. Sadoul¹, J. Felblinger², ³, ⁴, ⁷, P.-Y. Marie⁶, P.-A. Vuissoz², ³; ¹Department of Cardiology, CHU Nancy, Nancy/FRANCE, ²U947, INSERM, Nancy/FRANCE, ³IADI, Université de Lorraine, Nancy/FRANCE, ⁴Département de Radiothérapie, CHU Nancy, Nancy/FRANCE, ⁵Pediatric Cardiology, CCML, Le Plessis Robinson/FRANCE, ⁶Pôle Imagerie, CHU Nancy, Nancy/FRANCE, ⁷CIC-IT 810, INSERM, Nancy/FRANCE, ⁸Département de médecine nucléaire, CHU NANCY, Nancy/FRANCE

Motion-compensated reconstruction: impact of the sliding window width in cardiac cine GRICS

P.-A. Vuissoz¹, ², F. Odille¹, ², C. Meyer¹, ², A. Benhadid¹, ², M. Beaumont¹, ², ³, ⁴, J. Felblinger¹, ², ³, ⁴, D. Mandry¹, ², ³, ⁴; ¹IADI, Université de Lorraine, Nancy/FRANCE, ²IADI, U947, INSERM, Nancy/FRANCE, ³CIC-IT 801, INSERM, Nancy/FRANCE, ⁴Pôle Imagerie, CHU Nancy, Nancy/FRANCE

Myocardium Torsion Analysis by Automated Frequency Components Centroid Detection in tagging MRI

L. Aparici-Tortajada¹, A. Alberich-Bayarri¹, V. Naranjo², L. Martí-Bonmati³; ¹Radiology, Hospital Quiron Valencia, Valencia/SPAIN, ²Instituto Interuniversitario de Investigación en Bioingeniería y Tecnología Orientada al Ser Humano, Universidad Politécnica de Valencia, Valencia/SPAIN, ³Radiology, Universitat de Valencia, Valencia/SPAIN
14:20–16:00 74 Radiographers' Session
MR physics made easy
Moderators: C. Boesch, Bern/CH
D. Klomp, Utrecht/NL

385 14:20 How to adapt MRI protocols on GE
L. Willcox; Clinical Education MRI, GE Healthcare, 5EN/UNITED KINGDOM

386 14:40 How to adapt MRI protocols on Hitachi
R. Krawczyk; MR/CT, Hitachi Medical Systems Europe, Zug/SWITZERLAND

387 15:00 How to adapt MRI protocols on Philips
M. Van Meel; Philips Healthcare, Philips, Best/NETHERLANDS

388 15:20 How to adapt MRI protocols on Siemens
P.-A. Cuttat; Imaging & Therapy Division, Siemens Healthcare, Renens/SWITZERLAND

389 15:40 How to adapt MRI protocols on Toshiba
E. Blink, F. Admiraal-Behloul; MRI, Toshiba Medical Systems Europe, Zoetermeer/NETHERLANDS

14:20–15:50 75 Scientific Session – Preclinical Studies & Basic Science
1HMRS – processing and quantification issues
Auditorium III
Moderators: C. Arús, Cerdanyola del Vallés/ES
A. Heerschap, Nijmegen/NL

390 14:20 Retest reliability and systematic regional variations of Glu, Gln and GABA concentrations using STEAM with VERSE in a longitudinal multi-voxel study at 7Tesla
W. Dou¹, R. Yakupov¹, J. Kaufmann², M.J. Van Tol³, C. Yang³, O. Speck¹, M. Walter⁴; ¹Biomedical Magnetic Resonance, University of Magdeburg, Magdeburg/GERMANY, ²Department of Neurology, University of Magdeburg, Magdeburg/GERMANY, ³Clinical Affective Neuroimaging Laboratory, University of Magdeburg, Magdeburg/GERMANY

391 14:32 Overdiscrete Reconstruction for Highly Accelerated Parallel 1H MRSI at 7T with Efficient Control of Voxel Bleeding
T. Kirchner, A. Fillmer, P. Boesiger, K.P. Prüssmann, A. Henning; Institute for Biomedical Engineering, University and ETH Zurich, Zurich/SWITZERLAND

392 14:44 Metabolite quantification of MRSI data with an automatic correction for the chemical shift displacement artifact
D.M. Sima¹, S. Van Cauter², A.R. Croitor Sava¹, U. Himmelreich³, S. Van Huffel⁴; ¹Electrical Engineering – ESAT/SCD, KU Leuven, Leuven/BELGIUM, ²Radiology, University Hospitals Leuven, Leuven/BELGIUM, ³Biomedical MRI unit, KU leuven, Leuven/BELGIUM
393 14:56  B0 field Mapping to improve prior knowledge in quantitative 2D-MR Spectroscopy

D. Martel, T. Roussel, D. Friboulet, D. Grenier, H. Ratiney; Université de Lyon, CREATIS, CNRS UMR5220; Inserm U1044; INSA Lyon 1, Villeurbanne/FRANCE

394 15:08  Water Exchange (WEX) Spectroscopy on creatine model solutions

S. Görke¹, M. Zaiss², P. Bachert³; ¹Medical Physics in Radiology, German Cancer Research Center, Heidelberg/GERMANY, ²Department for Medical Physics in Radiology, German Cancer Research Center, Heidelberg/GERMANY, ³Dept. of Medical Physics in Radiology, German Cancer Research Center, Heidelberg/GERMANY

395 15:20  ERETIC with automatic phase adjustment and eddy current correction compensation

N. Zoelch¹, A. Fuchs¹, P. Boesiger², A. Henning²; ¹University and ETH Zurich, Institute for Biomedical Engineering, Zurich/SWITZERLAND, ²Institute for Biomedical Engineering, University and ETH Zurich, Zurich/SWITZERLAND

396 15:32  Unsupervised tumour area delimitation in glioblastoma multiforme using non-negative matrix factorisation of MRSI grids

S. Ortega-Martorell¹, P.J.G. Lisboa², A. Vellido³, R.V. Simoes⁴, M. Pumarola⁵, M. Julià-Sapé⁶, C. Arús¹; ¹Dept. de Bioquimica i Biologia Molecular, Universitat Autònoma de Barcelona, Cerdanyola del Vallès/SPAIN, ²Dept. of Mathematics and Statistics, Liverpool John Moores University, Liverpool/UNITED KINGDOM, ³Dept. Departament de Llenguatges i Sistemes Informàtics, Universitat Politècnica de Catalunya, Barcelona/SPAIN, ⁴Dept. of Medical Physics, Memorial Sloan-Kettering Cancer Center, New York/NY/UNITED STATES OF AMERICA, ⁵Dept. de Medicina i Cirurgia Animals, Universitat Autònoma de Barcelona, Cerdanyola del Vallès/SPAIN, ⁶CIBER-BBN, Centro de Investigación Biomédica en Red en Bioingeniería, Biomateriales y Nanomedicina, Cerdanyola del Vallès/SPAIN

14:20–15:50  76 Poster Highlights Session

Auditorium IV

Animal models of brain diseases

Moderators: R. Gruetter, Lausanne/CH

N.N.

397 14:20  Diffusion kurtosis imaging reveals amyloidosis in the brain of APP/PS1 mice

C. Bigot¹, G. Vanhoutte¹, M. Verhoye¹, S. Pereson², B. Asselberghs², J. Veraart³, J. Sijbers³, C. Vanbroeckhoven², A. Van Der Linden¹; ¹Biomedical sciences, Bio-Imaging Lab, University of Antwerp, Wilrijk/BELGIUM, ²Molecular genetics, VIB, University of Antwerp, Wilrijk/BELGIUM, ³Physics, Vision Lab, University of Antwerp, Antwerp/BELGIUM
Magnetization contrast profiling of APP/PS1 mouse brain indicates the presence of amyloid plaques
C. Bigot¹, G. Vanhoutte¹, M. Verhoye¹, S. Pereson², B. Asselberghs², C. Vanbroeckhoven², A. Van Der Linden¹; ¹Biomedical sciences, Bio-Imaging Lab, University of Antwerp, Wilrijk/BELGIUM, ²Molecular genetics, VIB, University of Antwerp, Wilrijk/BELGIUM

Quantitative susceptibility mapping applied to functionalized iron oxide nanoparticles in an Alzheimer’s disease model
H. Wang¹, L. De Rochefort¹, J.-S. Raynaud²; ¹Group 2: Structure and function, IR4M, Imagerie par Résonance Magnétique Médicale et Multi-Modalités, Orsay/FRANCE, ²Experimental Imaging, MRI unit, Research Division, Guerbet, Aulnay-sous-Bois/FRANCE

Absolute cerebral metabolite concentration changes in rat model of vascular dementia including simvastatin therapy measured by localized ¹H MR spectroscopy
S. Kasparova¹, K. Cerny², A. Gálisová¹, R. Tusková¹, I. Just Kukurová³, K. Ambrušová⁴, M. Jozefovicová¹, A. Kebis⁴, L. Bačíak¹; ¹Faculty of Food & Chemical Technology, Slovak University of Technology, Bratislava/SLOVAK REPUBLIC, ²Radiodiagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, ³MR Center—High Field MR, Department of Radiology, Medical University of Vienna/Vienna General Hospital, Vienna/AUSTRIA, ⁴Faculty of Public Health, Slovak Medical University, Bratislava/SLOVAK REPUBLIC

BOLD functional MRI of the sensorimotor network in the unilateral 6-hydroxydopamine rat model of Parkinson’s disease
S. Boussida¹, ², A.S. Traore¹, J.-P. Renou¹, F. Durif²; ¹CEPIA, INRA, Saint-Genès Champanelle/FRANCE, ²Neurologie-A, Hôpital Gabriel Montpied, Clermont-Ferrand/FRANCE

Multimodal imaging for the investigation of epileptogenesis in the intrahippocampal kainic acid model of epilepsy
P. Van Mierlo¹, V. Keereman¹, B. Descamps², I. Dauwe³, R. Van Holen¹, S. Vandenbergh¹, R. Raedt³, C. Vanhovê²; ¹ELIS/ MEDISIP, Ghent University – IBBT, Ghent/BELGIUM, ²Infinity lab – MEDISIP – IBBT, Ghent University, Ghent/BELGIUM, ³Laboratory for Clinical and Experimental Neurophysiology, Ghent University, Ghent/BELGIUM

Early functional and metabolic cerebral alterations in a traumatic brain injury rat model detected by Magnetic Resonance approaches
M. Martínez-Maestro, P. Lopez-Larrubia; Departamento de Modelos experimentales de enfermedades humanas, Instituto de Investigaciones Biomédicas, Madrid/SPAIN
404 15:23  The impact of anti-VEGF mAb antiangiogenic therapy on MRI biomarkers in a mouse model of HGG

405 15:32  Magnetic Resonance Imaging in a rat high-grade glioma model to predict the improvement in radiotherapy response by hyperoxic conditions
N. Arias-Ramos, J. Pacheco-Torres, P. Lopez-Larrubia; Experimental models of human diseases, Instituto de Investigaciones Biomedicas CSIC-UAM, Madrid/SPAIN

406 15:41  Diffusion MRI study for characterization of diffusive and slowly growing human glioma models at 14.1T
P. Porcari1,2, H. Lei3, V. Clement3, D. Marino3, I. Radovanovic3, S. Capuani2,4, R. Gruetter1,5,6, V. Mlynarik1; 1Laboratory of Functional and Metabolic Imaging, Ecole Polytechnique Fédérale de Lausanne, Lausanne/SWITZERLAND, 2Physics Department, Sapienza University of Rome, Rome/ITALY, 3Department of Clinical Neuroscience, University Hospital of Geneva, Geneva/SWITZERLAND, 4CNR-IPCF UOS Roma Sapienza, Physics Department, Sapienza University of Rome, Rome/ITALY, 5Department of Radiology, University of Geneva, Geneva/SWITZERLAND, 6Department of Radiology, University Hospital Center and University of Lausanne, Lausanne/SWITZERLAND

16:10–17:40 77 Teaching Session
Spine Imaging
Moderators: A. van der Lugt, Rotterdam/NL
N.N.

407 16:10  Degenerative disease – what is clinically relevant?
C.W.-A. Pfirrmann; Radiology, University Hospital Balgrist, Zürich/SWITZERLAND

408 16:40  Inflammatory disease
R. Lalam; Blank, Klinikum Mannheim Klinik f.Strahlentherapie u.Radioonkologie, Oswestry/UNITED KINGDOM

409 17:10  Tumorous lesions
I.-M. Nöbauer-Huhmann; Radiology, Medical University of Vienna, Vienna/AUSTRIA
Ultra-short echo time: techniques and insights

Moderators: C. Faber, Münster/DE
G. Navon, Tel Aviv/IL

ZTE Imaging in Humans: Implementation and Initial Results
M. Weiger, B.E. Dietrich, C.F. Müller, D.O. Brunner, K.P. Pruessmann; Institute for Biomedical Engineering, University and ETH Zurich, Zurich/SWITZERLAND

3D rotating rosette sequence for fast MR imaging with short TE
M. Salehi Ravesh1, L. Cao2; 1Institut for Clinical Diabetology, German Diabetes Center, Dusseldorf/GERMANY, 2Medical Physics in Radiology, German Cancer Research Center, Heidelberg/GERMANY

Image artifact comparison between ZTE MRI and Cone Beam CT for endodontic filling materials
B. Descamps1, K. Deblaere2, N. D’Hondt3, J.K.M. Aps4, C. Vanhove1,5; 1Infinity lab – MEDISIP – IBBT, Ghent University, Ghent/BELGIUM, 2Radiology, Ghent University, Ghent/BELGIUM, 3Operative Dentistry and Endodontology, Dental School, Ghent University, Ghent/BELGIUM, 4Dental & Maxillofacial Radiology, Ghent University Dental Hospital, Ghent/BELGIUM, 5GROUP-ID, Ghent University, Ghent/BELGIUM

High Contrast 3D IDEAL Ultrashort TE (UTE) Imaging
H. Al Saleh1, K. Johnson1, W.F. Block1,2,3, R. Kijowski3, D. Hernando4; 1Department of Medical Physics, University of Wisconsin, Madison/WI/UNITED STATES OF AMERICA, 2Department of Biomedical Engineering, University of Wisconsin, Madison/WI/UNITED STATES OF AMERICA, 3Department of Radiology, University of Wisconsin, Madison, Madison/WI/UNITED STATES OF AMERICA

Imaging the collagen properties in the spinal disc and vertebra by combining DQF NMR and UTE MRI
U. Eliav1, M.E. Komlosh2,3, P.J. Basser4, G. Navon1; 1School of Chemistry, Tel Aviv University, Tel Aviv/ISRAEL, 2STBB, NIH, Bethesda/UNITED STATES OF AMERICA, 3None, CNRM and Henry Jackson Foundation, Bethesda/MD/UNITED STATES OF AMERICA, 4STBB, NIH, Bethesda/MD/UNITED STATES OF AMERICA

Cardiac and Respiratory self-gated cine UTE for functional and structural characterization of the mouse heart
V. Hoerr1, N. Nagelmann1, A. Nauerth2, M. Kuhlmann3, J. Stypmann4, C. Faber1; 1Department of Clinical Radiology, University Hospital Münster, Münster/GERMANY, 2MR-Technologies, Bruker BioSpin MRI GmbH, Ettlingen/GERMANY, 3-, European Institute for Molecular Imaging-EIMI, Münster/GERMANY, 4Department of Cardiology and Angiology, University Hospital Münster, Münster/GERMANY

Bi-exponential 23Na T2* components analysis in the human brain
F. Riemer1,2, B.S. Solanky2, C.A.M. Wheeler-Kingshott2, X. Golay1; 1Institute of Neurology, Department of Brain Repair and Rehabilitation, University College London, London/UNITED KINGDOM, 2Institute of Neurology, Department of Neuroinflammation, University College London, London/UNITED KINGDOM
## Scientific Programme

### Saturday, October 6, 2012

### 16:10–17:40 80 Euro-BioImaging Session

**Room 5B**

**Update on the European Research Infrastructure for Imaging Technologies**

Moderators:  G. Krestin, Rotterdam/NL  
R.N. Muller, Mons/BE

<table>
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<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tr>
<td>16:10</td>
<td><strong>The EuroBioImaging Project</strong></td>
<td>M. Essig, Wiesloch/DE</td>
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<td>16:35</td>
<td><strong>WP8 Molecular Imaging</strong></td>
<td>S. Aime, Torin/IT</td>
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<td>16:55</td>
<td><strong>WP9 Medical Imaging –Access to Innovative Technologies</strong></td>
<td>J. Hennig, Freiburg/DE</td>
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<td>17:15</td>
<td><strong>WP10 Medical Imaging –Patient to Population</strong></td>
<td>L. Donoso, Barcelona/ES</td>
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<td>17:35</td>
<td><strong>Discussion</strong></td>
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### 16:10–17:40 81 Scientific Session – Preclinical Studies & Basic Science

**Room 5C**

**What’s new in preclinical brain diffusion MRI?**

Moderators:  C. Leuze, Leipzig/DE  
N.N.

<table>
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<th>Item</th>
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<tr>
<td>417</td>
<td>16:10 <strong>Cortical profiles of diffusion weighted imaging (DWI) data differ between cortical areas</strong></td>
<td>C.W. Leuze, P.-L. Bazin, A. Anwander, J. Dinse, M. Wänhert, T. Riffert, S. Geyer, R. Turner; Neurophysics, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig/GERMANY</td>
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<td>418</td>
<td>16:22 <strong>The characteristics of the language pathways differ with age in simultaneous bilingual and interpreters: DTI study</strong></td>
<td>S.G. Mohades; Radiology, Vrij Universiteit Brussel- UZ Brussel, Jette/BELGIUM</td>
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<tr>
<td>419</td>
<td>16:34 <strong>Effect of hormonal contraceptives on microstructural properties of white matter: A DTI tractography study</strong></td>
<td>T. De Bondt¹, W. Van Hecke¹, J. Veraart², A. Leemans³, J. Sijbers⁴, S. Sunaert⁵, Y. Jeacquemyn⁶, P. Parizel⁷; ¹Dept. of Radiology, Antwerp University Hospital, Antwerp/BELGIUM, ²Vision Lab, University of Antwerp, Antwerp/BELGIUM, ³Radiology, Images science institute, Utrecht/NETHERLANDS, ⁴Physics, University of Antwerp, Antwerp/BELGIUM, ⁵Radiology, University Hospitals of Leuven, Leuven/BELGIUM, ⁶Dept. of Obsetrics and Gynaecology, Antwerp University Hospital, Antwerp/BELGIUM</td>
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Diffusional Kurtosis appears as a potential sensitive marker of microstructure alterations of white matter in Alzheimer’s disease
R. Nicolas, L. Saint-Aubert, P. Payoux, X. Franceries, E. Barbeau, F. Aubry, L. Vanquin, F. Cholet, J. Pariente, P. Celsis; UMRS 825, INSERM, Toulouse/FRANCE

Microstructure informed fibre tracking via slow diffusion component

Microscopic damage to the left hemisphere contributes in determining neglect in patients with a right focal lesion
C. Mastropasqua¹, M. Bozzali², M. Cerignani²  ³, B. Basile², S. Bonni⁴, G. Koch⁴; ¹Neuroimaging, IRCCS Santa Lucia, Rome/ITALY, ²Neuroimaging Laboratory, Fondazione Santa Lucia, Rome/ITALY, ³Clinical Imaging Sciences Centre, Brighton and Sussex Medical School, Brighton/UNITED KINGDOM, ⁴Clinical and Behavioural Neurology Laboratory, Fondazione Santa Lucia, roma/ITALY

Assessment of Diffusion Anisotropy of White Matter in Areas of the Brain with Crossing Fibers
M. Jabari¹, H. Bagherebadian², S. P. Nejad-Davarani², R. Faghihi¹, Q. Jiang²; ¹Nuclear engineering in medicine, Shiraz University, Shiraz/IRAN, ²Neurology, Henry Ford Hospital, Detroit/MI/UNITED STATES OF AMERICA

16:10–17:40 82 Scientific Session – Clinical Applications
fMRI in neuroscience
Auditorium III
Moderators: J. Tintera, Prague/CZ
P. van Zijl, Baltimore/USA

A modified oddball paradigm for investigating of neural correlates of attention- a simultaneous ERP-fMRI study
M. Rusiniak¹ ², M. Lewandowska¹ ², T. Wolak¹ ², A. Pluta¹ ², R. Milner³ ⁴, M. Ganc³ ⁴, A. Wiodarczyk³, A. Senderski⁶, L. Sliwa¹ ², H. Skarzynski¹ ²; ¹Bioimaging Research Center, Institute of Physiology and Pathology of Hearing, Warsaw/ POLAND, ²Bioimaging Research Center, World Hearing Center, Nadarzyn/POLAND, ³Epidemiology and Screening Examinations,; World Hearing Center, Nadarzyn/POLAND, ⁴Epidemiology and Screening Examinations, Institute of Physiology and Pathology of Hearing, Warsaw/POLAND, ⁵Auditory Dpt., 3Children’s Memorial Health Institute, Warsaw/ POLAND

Topology and frequency characteristics of the auditory cortex during aging: fMRI study
J. Tintera¹, I. Ibrahim¹, A. Skoch¹, M. Jilek², Z. Balogova², O. Profant⁶, J. Syka²; ¹ZIRIR MR, IKEM, Prague/CZECH REPUBLIC, ²Auditory neuroscience, UEM AVCR, Prague/ CZECH REPUBLIC
426 16:34  **Visualization of auditory pathway by fMRI using chirp stimuli**  
M. Ryn¹, I. Nunes², M. Erb³, L. Rüttiger², U. Klose⁴; ¹Department of Diagnostic and Interventional Neuroradiology, University Hospital of Tübingen, Tübingen/GERMANY, ²Otorhinolaryngology, THRC – Tübingen Hearing Research Centre, University Hospital Tübingen, Tübingen/GERMANY, ³Biomedical Magnetic Resonance, University Hospital Tübingen, Tübingen/GERMANY, ⁴MR-Research Group, Department of Diagnostic and Interventional Neuroradiology, University Hospital Tübingen, Tübingen/GERMANY

427 16:46  **Demonstration of a fronto-parietal circuit for object manipulation in children: preliminary fMRI and DTI study**  
C. Ambrosi¹, L. Mascaro², G. Buccino³, A. Molinaro⁴, C. Pinardi², S. Cimolai², R. Gasparotti², E. Fazzi²; ¹U.O. Neuroradiologia, Spedali Civili di Brescia, Brescia/ITALY, ²U.O. Fisica Sanitaria, Spedali Civili di Brescia, Brescia/ITALY, ³Medicina e Chirurgia, Università degli studi “Magna Graecia” di Catanzaro, Catanzaro/ITALY, ⁴Neuropsichiatria Infantile, Università degli Studi di Brescia, Brescia/ITALY, ⁵Neuroradiologia, Università degli studi di Brescia, Brescia/ITALY

428 16:58  **The role of procedural memory in number processing – an fMRI study**  
W. Szeszkowski¹, M. Gut², P. Jaśkowski², A. Cieszanowski¹; ¹II Dept. of Clinical Radiology, Medical University of Warsaw, Warsaw/POLAND, ²1. Department of Cognitive Psychology, University of Finance and Management, Warszawa/POLAND

429 17:10  **F-MRI in the evaluation of olfactory system: cortical elaboration of four familiar aromas**  
M. Ukmar¹, L. Romoli², C. Cercato¹, M. Naccarato³, P.P. Battaglini², M.A. Cova¹; ¹Dept of Radiology, University of Trieste, Cattinara Hospital, Triest/ITALY, ²Dept of Life Science, University of Trieste, BRAIN Center, Triest/ITALY, ³Dept of Neurology, Cattinara Hospital, Triest/ITALY

430 17:22  **Functional MR spectroscopy reveals neurotransmitter changes in frontal cortex during Stroop task**  
F. Schubert¹, E. Wenger², R. Mekle¹, B. Ittermann¹, U. Lindenberger², J. Gallinat³, S. Kühn²; ¹Medical Physics, Physikalisch-Technische Bundesanstalt, Berlin/GERMANY, ²Lifespan Psychology, Max Planck Institute for Human Development, Berlin/GERMANY, ³Psychiatry and Psychotherapy, Charité University Medicine, Berlin/GERMANY
16:10–17:40 83 Poster Highlights Session
RF Coils: Novel concepts
Moderators: D. Brunner, Zurich/CH
R. Gruetter, Lausanne/CH

431 16:10 An embedded 4-channel receive-only array for fMRI of the somatosensory pathway in conscious awake marmosets at 7T
D. Papoti, C.C.-C. Yen, J. Mackel, H. Merkle, A.C. Silva; NINDS, National Institutes of Health, Bethesda/MD/UNITED STATES OF AMERICA

432 16:19 Validation of the predicted B1+ of a radiofrequency hyperthermia applicator using a 7T MR scanner
R.F. Verhaart¹, J.J. Bluemink², J.F. Bakker¹, P. Togni¹, A.J.E. Raaijmakers², G.C. Van Rhoo¹, C.A.T. Van Den Berg², M.M. Paulides¹; ¹Radiation Oncology, Hyperthermia Unit, Erasmus MC – Daniel den Hoed Cancer Center, Rotterdam/NETHERLANDS, ²Radiotherapy, University Medical Center Utrecht, Utrecht/NETHERLANDS

433 16:28 A homogeneity-optimized solenoid coil for 7T microimaging
E. Laistler, B. Dymerska, J. Sieg, E. Moser; CMPBMT, MR Center of Excellence, Medical University of Vienna, Vienna/AUSTRIA

434 16:37 An active 1H/19F transmit-receive switch connected to a scanner equipped only with passive T/R switches.
M. Burian¹, J. Zajicek², J. Rydlo¹, M. Hajek³; ¹MR-Unit, Department of Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, ²Institute of Experimental and Applied Physics, Czech Technical University, Prague/CZECH REPUBLIC, ³MR Unit, Dept. Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC

435 16:46 Monkey Brain Imaging Within a Large Vertical Bore 4.7T Magnet
C.C. Zhu¹, F.Q. Ye¹, D.A. Leopold¹, H. Merkle²; ¹Lab of Neuropsychology, National Institutes of Health, Bethesda/UNITED STATES OF AMERICA, ²NINDS, National Institutes of Health, Bethesda/UNITED STATES OF AMERICA

436 16:55 ²³Na Sodium MRI of whole-Spine at 3 Tesla: Feasibility and First Results
M. Malzacher¹, R. Kalayciyan¹, D. Hausmann², S. Haneder³, L.R. Schad¹; ¹Computer Assisted Clinical Medicine, Medical Faculty Mannheim, Mannheim/GERMANY, ²Institute of Clinical Radiology and Nuclear Medicine, Medical Faculty Mannheim, Mannheim/GERMANY, ³Medical Faculty Mannheim, Institute of Clinical Radiology and Nuclear Medicine, Mannheim/GERMANY

437 17:04 SAR Analysis for a 2-channel Parallel Transmit System at 3T
H. Homann¹, I. Graesslin¹, Z. Zhai², C. Possanzini³, P. Harvey³, P. Börnert¹; ¹Research Laboratories, Philips Healthcare, Hamburg/GERMANY, ²Medical systems, Philips Healthcare, Cleveland/OH/UNITED STATES OF AMERICA, ³Medical systems, Philips Healthcare, Best/NETHERLANDS

438 17:13 A New Catheter Based Intravascular Phased Array Coil for Implementation of Parallel MRI
H. Omer¹, R. Dickinson¹, M. Rea²; ¹Department of Bioengineering, Imperial College London, London/UNITED KINGDOM, ²Radiological Sciences Unit, NHS Trust, Imperial College London, London/UNITED KINGDOM
17:22  **Numerical comparison of three surface coils for waveguide MRI at 3T**
F. Vazquez, A.O. Rodriguez; Dep. Ingenieria Electrica, UAM Iztapalapa, Mexico DF/MEXICO

17:31  **Sensitivity analysis of multi-nuclear coils with proton traps**
M. Meyerspeer¹, ², ³, E. Serés Roig², E. Moser¹, ³, R. Gruetter², ⁴, ⁵, A.W. Magill², ⁴; ¹Center for Biomedical Engineering and Physics, MR Centre of Excellence, Vienna/AUSTRIA, ²Laboratory for Functional and Metabolic Imaging, Ecole Polytechnique Fédérale de Lausanne, Lausanne/SWITZERLAND, ³MR Center of Excellence, Medical University of Vienna, Vienna/AUSTRIA, ⁴Department of Radiology, University of Lausanne, Lausanne/SWITZERLAND, ⁵Department of Radiology, University of Geneva, Geneva/SWITZERLAND

**17:50–18:50  84 Round Table Discussion**
*Auditorium II*

*Does MR-PET really make sense from a clinical and technical point-of-view?*
Moderator: A. Lammertsma, Amsterdam/NL
Panellists:  
- Panellist 1: S. Stroobants, Antwerpen/BE
- Panellist 2: T. Beyer, Zurich/CH
- Panellist 3: R. Gunn, London/UK
- Panellist 4: F. Kuhn, Zurich/CH

**19:00  85 Closing Ceremony & Awards**
*Auditorium I*
Abdomen

441 WITHDRAWN

442 Estimation of liver function using liver parenchymal enhancement and volume on Gd-EOB-DTPA-enhanced MRI
T. Yoneyama, Y. Fukukura, K. Kamimura, K. Takumi, A. Tateyama, A. Umanodan, M. Nakajo; Radiology, Kagoshima University Graduate School of Medical and Dental Sciences, Kagoshima/JAPAN
MEET THE AUTHOR in the EPOS™ Area at PC#1, on Oct. 4, 12:30–13:00

443 WITHDRAWN

444 Quantitative evaluation of liver function with T1 mapping of Gd-EOB-DTPA MRI: comparison with signal intensity-based markers
K. Kamimura1, Y. Fukukura1, T. Yoneyama1, K. Takumi1, A. Tateyama1, A. Umanodan1, T. Shindo1, Y. Kumagae1, S. Ueno1, M. Nakajo1; 1Radiology, Kagoshima University Graduate School of Medical and Dental Sciences, Kagoshima/JAPAN
MEET THE AUTHOR in the EPOS™ Area at PC#3, on Oct. 4, 12:30–13:00

445 Bismuth classification of hilar cholangiocarcinoma: archaism according recent MRI findings?
O.N. Sergeeva1, V. Panov2, B. Dolgushin2; 1Interventional Oncology department, State Institution N.N.Blokhin Cancer Research Center RAMSci, Moscow/RUSSIAN FEDERATION, 2Radiology, N.N. Blokhin Cancer Research Center, Moscow/RUSSIAN FEDERATION
MEET THE AUTHOR in the EPOS™ Area at PC#4, on Oct. 4, 12:30–13:00

446 Multifrequency vs monofrequency MR elastography for the characterisation of liver fibrosis and inflammation
P. Garteiser1, G. D’Assignies1, H. Leitao1-2, R. Sahebjavaher3, S.A. Lambert1, F. Mouri1, V. Vilgrain1, B. Van Beers1, R. Sinkus1; 1INSERM CRB3-U773, Université Paris Diderot Sorbonne Paris Cité, Clichy/FRANCE, 2Department of radiology, Hospitalis de Universidade de Coimbra, Coimbra/PORTUGAL, 3Robotic and Control Lab, University of British Columbia, Vancouver/BC/CANADA
MEET THE AUTHOR in the EPOS™ Area at PC#5, on Oct. 4, 12:30–13:00

447 High diagnostic performance of the quantitative assessment of T2-weighted signal intensity evolution in the tumor for detection of complete response to neoadjuvant chemoradiotherapy in rectal cancer patients
E. Kluza1, E. Rozeboom1, M. Maas1, M. Martens1, D. Lambregts1, G. Beets2, J. Slenter1, R. Beets-Tan1; 1Department of Radiology, Maastricht University Medical Center, Maastricht/NETHERLANDS, 2Department of Surgery, Maastricht University Medical Center, Maastricht/NETHERLANDS
MEET THE AUTHOR in the EPOS™ Area at PC#6, on Oct. 4, 12:30–13:00
448 Preliminary experience: a novel DCE-MRI approach based on Functional Volumetric estimation (Standardized Index of Shape, SISV) to differentiate Responder by Not Responder after neo-adjuvant therapy in Locally Advanced Rectal Cancer (LARC).
M. Petrillo1, R. Fusco2, V. Granata2, O. Catalano2, A. Rotondo1, A. Petrillo2; 1Section of Radiology, Department “Magnaghi-Lanzara,”, Second University of Naples, Naples/ITALY, 2Radiology, INT IRCCS “Foundation G.Pascale”, Naples/ITALY
MEET THE AUTHOR in the EPOS™ Area at PC#7, on Oct. 4, 12:30–13:00

Angiography, blood flow and tissue perfusion

449 Monitoring perfusion during an alcohol infusion using pulsed arterial spin labeling
M. Marxen1, G. Gan2, D. Schwarz1, M. Pilhatsch1, U.S. Zimmermann1, M. Guenther3, M.N. Smolka1; 1Department of Psychiatry und Psychotherapy, Technische Universität Dresden, Dresden/GERMANY, 2Department of Psychiatry und Psychotherapy, Technische Universität Dresden, Dresden/GERMANY, 3Faculty of Physics and Electrical Engineering, Universität Bremen, Bremen/GERMANY
MEET THE AUTHOR in the EPOS™ Area at PC#8, on Oct. 4, 12:30–13:00

Animal models – brain pathologies

450 fMRI study of malnourished brain in rats
R. Martin, R. Godinez, A.O. Rodriguez; Dep. Ingenieria Electrica, UAM Iztapalapa, Mexico DF/MEXICO
MEET THE AUTHOR in the EPOS™ Area at PC#9, on Oct. 4, 12:30–13:00

451 Effect of Simvastatin on brain creatine kinase reaction in animal model of vascular dementia. The magnetization transfer 31P MRS study
R. Tusková1, A. Gálisová1, M. Jozefovicová1, A. Kebis2, K. Ambrušová2, I. Just Kukurová3, L. Bačiak1, S. Kasparova1; 1Faculty of Food & Chemical Technology, Slovak University of Technology, Bratislava/SLOVAK REPUBLIC, 2Faculty of Public Health, Slovak Medical University, Bratislava/SLOVAK REPUBLIC, 3MR Centre of Excellence, Department of Radiology, Medical University of Vienna, Vienna/AUSTRIA
MEET THE AUTHOR in the EPOS™ Area at PC#10, on Oct. 4, 12:30–13:00

452 Effects of fructose diet on brain: anatomical MRI and DTI study in the rat.
M.-C. Beauvieux1, G. Raffard1, A.-K. Bouzizier-Sore2, B. Hiba1, P. Machet-Maquat1, M. Urdaci3, E. Richard4, J.-L. Gallis1; 1UMR5536 RMSB, CNRS Université Victor Segalen, Bordeaux/FRANCE, 2CNRS/University, RMSB Center, Bordeaux/FRANCE, 3Laboratoire Microbiologie, Bordeaux Sup Agro, Gradignan/FRANCE, 4Laboratoire Biochimie, Hôpital Pellegrin, Bordeaux/FRANCE
MEET THE AUTHOR in the EPOS™ Area at PC#11, on Oct. 4, 12:30–13:00
453 **Longitudinal multi-parametric MRI of cerebral amyloidosis in transgenic arcAbeta mice**

J. Klohs¹, I. Wojtyna Politano¹, A. Deistung², J. Grandjean¹, A. Drewek², M. Dominietto¹, R. Keist⁴, F. Schweser², J.R. Reichenbach², I. Knuesel⁴, M. Rudin¹, ⁴; ¹Institute for Biomedical Engineering, University of Zurich and ETHZ, Zurich/SWITZERLAND, ²Medical Physics Group, Institute of Diagnostic and Interventional Radiology I, Jena University Hospital – Friedrich Schiller University Jena, Jena/GERMANY, ³Seminar für Statistik, ETH Zurich, Zurich/SWITZERLAND, ⁴Institute of Pharmacology and Toxicology, University of Zurich, Zurich/SWITZERLAND

**MEET THE AUTHOR in the EPOS™ Area at PC#12, on Oct. 4, 12:30–13:00**

454 **Correlations between MRI biomarkers and gene expression in a mouse model of high grade glioma**


**MEET THE AUTHOR in the EPOS™ Area at PC#13, on Oct. 4, 12:30–13:00**

455 **MRI tracking of human mesenchymal stem cells distribution and migration in rats with focal brain ischemia**

L. Gubski¹, D. Namestnikova², R. Tairova¹, K.N. Yarygin²; ¹Fundamental and Clinical Neurology, The Russian National Research Medical University named after N.I.Pirogov, Moscow/RUSSIAN FEDERATION, ²Center of Magnetic Tomography and Spectroscopy of Faculty of Basic Medicine, M.V.Lomonosov Moscow State University, Moscow/RUSSIAN FEDERATION, ³Cell Biology, The Russian National Research Medical University named after N.I.Pirogov, Moscow/RUSSIAN FEDERATION

**MEET THE AUTHOR in the EPOS™ Area at PC#14, on Oct. 4, 12:30–13:00**

456 **fDWI predicts obesity development in rats**

B. Lizarbe¹, P. Lopez-Larrubia¹, S. Cerdan¹, V. Caz², M. Tabernerò², E. De Miguel², C. Largo²; ¹Instituto Investigaciones Biomedicas “Alberto Sols” CSIC-UAM, Madrid/SPAIN, ²Cirugía Experimental, 2Instituto de Investigación Sanitaria La Paz IdiPaz, Madrid/SPAIN

**MEET THE AUTHOR in the EPOS™ Area at PC#15, on Oct. 4, 12:30–13:00**

457 **Effect of manganese chloride on rat hippocampus metabolism studied by proton HRMAS NMR**

A. Daoust¹, E. Barbier², S. Bohic³, S. Maunoir-Regimbal⁴, F. Fauvelle⁴; ¹NeuroImagerie Fonctionnelle et Perfusion Cérébrale, Inserm U 836, Institut des neurosciences de Grenoble, La Tronche/FRANCE, ²Neuroimagerie Fonctionnelle et perfusion cérébrale, INSERM U836, Institut des neurosciences de Grenoble, La Tronche/FRANCE, ³Rayonnement synchrotron et recherche médicale, European Synchrotron Radiation Facility (ESRF), Grenoble/FRANCE, ⁴NMR laboratory, IRBA-CRSSA, La Tronche/FRANCE

**MEET THE AUTHOR in the EPOS™ Area at PC#16, on Oct. 4, 12:30–13:00**
458 Comparison of different contrast agents in cerebral perfusion assessment by MRI studies at 7 T: Follow-up of a high-grade glioma rat model
E. Cañadillas-Cárdenas1, R. Pérez-Carro1, P. Lopez-Larrubia2; 1Departamento de Modelos experimentales de enfermedades humanas, Instituto de Investigaciones Biomédicas “Alberto Sols”, Madrid/SPAIN, 2Modelos experimentales de enfermedades humanas, Instituto Investigaciones Biomedicas “Alberto Sols” CSIC-UAM, Madrid/SPAIN
MEET THE AUTHOR in the EPOS™ Area at PC#17, on Oct. 4, 12:30–13:00

459 Functional proton MR spectroscopy of the rat barrel cortex
N. Just1, L. Xin1, R. Grutter2,3; 1LIFMET, CIBM-EPFL, Lausanne/SWITZERLAND, 2LIFMET, CIBM-EPFL-LIFMET-SB, Lausanne/SWITZERLAND, 3Department of Radiology, University of Geneva and Lausanne, Geneva Lausanne/SWITZERLAND
MEET THE AUTHOR in the EPOS™ Area at PC#18, on Oct. 4, 12:30–13:00

460 fDWI reveals reduced feeding impulse in NPY knockout mice
B. Lizarbe, P. Sánchez, P. Lopez-Larrubia, S. Cerdán; Instituto Investigaciones Biomédicas “Alberto Sols” CSIC-UAM, Madrid/SPAIN
MEET THE AUTHOR in the EPOS™ Area at PC#26, on Oct. 4, 13:00–13:30

461 The control of strong emotional reactions in response to affective pictures by high harm avoidand females during an fMRI experiment.
P. Van Schuerbeek1, C. Baeken2, R. Luypaert1, J. De Mey1; 1Radiology, UZ Brussel (VUB), Brussels/BELGIUM, 2Psychiatry and medical Psychology, UGent, Ghent/BELGIUM
MEET THE AUTHOR in the EPOS™ Area at PC#20, on Oct. 4, 12:30–13:00

462 Brain CSF distribution of gadolinium contrast agent with using simultaneous microdialysis & MRI methods
F. Noury1,2,3, N. Brandhonhneur1, P.-A. Eliat3, F. Chevanne4, P. Le Corré4, H. Saint-Jalmes1,2,3; 1Université de Rennes 1, LTSI, Rennes/FRANCE, 2INSERM, UMR 1099, Rennes/FRANCE, 3PRISM, Biosit, CNRS UMS 3480, INSERM UMS 018 – Biogenouest, Rennes/FRANCE, 4IRSET, TEAM 9, Rennes/FRANCE
MEET THE AUTHOR in the EPOS™ Area at PC#21, on Oct. 4, 12:30–13:00

463 MRI investigation of brain aging in rats
S. Tambalo1, E. Mosconi2, A. Daducci1, S. Fiorini1, P. Marzola1; 1Dept. Computer Science, University of Verona, Verona/ITALY, 2Dept. of Clinical Physioptahology, University of Florence, Florence/ITALY
MEET THE AUTHOR in the EPOS™ Area at PC#22, on Oct. 4, 12:30–13:00
464 functional MRI with specific frequency stimulations in mice
Y. Komaki\textsuperscript{1, 2}, K. Hikishima\textsuperscript{1, 2}, T. Konomi\textsuperscript{3}, S. Shibata\textsuperscript{1}, M. Yamada\textsuperscript{4}, N. Miyasaka\textsuperscript{5}, K. Fujiyoshi\textsuperscript{3}, K. Yagi\textsuperscript{6}, N. Tamaoki\textsuperscript{2}, M. Nakamura\textsuperscript{3}, H.J. Okano\textsuperscript{7}, H. Okano\textsuperscript{8}; \textsuperscript{1}Department of Physiology, Keio University, Tokyo/JAPAN, \textsuperscript{2}Pathology Research Department, Central Institute for Experimental Animals, Kanagawa/JAPAN, \textsuperscript{3}Department of Orthopaedics, Keio University, Tokyo/JAPAN, \textsuperscript{4}Faculty of Radiological Technology, Fujita Health University, Aichi/JAPAN, \textsuperscript{5}Department of Comprehensive Reproductive Medicine, Tokyo Medical and Dental University, Tokyo/JAPAN, \textsuperscript{6}Department of Radiological Sciences, Tokyo Metropolitan University, Tokyo/JAPAN, \textsuperscript{7}Institute of DNA Medicine, Jikei University School of Medicine, Tokyo/JAPAN

MEET THE AUTHOR in the EPOS™ Area at PC#23, on Oct. 4, 12:30–13:00

Animal models – other

465 Myostatin deficiency impairs both mechanical performance and metabolic efficiency of contracting mouse gastrocnemius muscle in vivo
B. Giannesini\textsuperscript{1}, E. Mousiel\textsuperscript{2}, C. Vilmen\textsuperscript{1}, C. Dalmasso\textsuperscript{1}, Y. Lefur\textsuperscript{1}, P.J. Cozzone\textsuperscript{1}, H. Amthor\textsuperscript{2}, D. Bendahan\textsuperscript{1}; \textsuperscript{1}CNRS – Aix-Marseille Université UMR 6612 CNRS Université de la Méditerranée, CRMBM UMR 7339, Marseille/FRANCE, \textsuperscript{2}UMR S974 UMR S 787, Institut de Myologie, Paris/FRANCE

MEET THE AUTHOR in the EPOS™ Area at PC#24, on Oct. 4, 12:30–13:00

466 In-vivo pH measurement by 1H MRS in HT-29 mice model
P.-A. Eliat\textsuperscript{1}, F. Noury\textsuperscript{1, 2, 3}, S. Jouan-Lanhouet\textsuperscript{4, 5, 6}, G. Gambarota\textsuperscript{1, 2, 3}, M.-T. Dimanche-Boitrel\textsuperscript{4, 5, 6}, H. Saint-Jalmes\textsuperscript{1, 2, 3}; \textsuperscript{1}PRISM, Biosit, CNRS UMS 3480, INSERM UMS 018 – Biogenouest, Rennes/FRANCE, \textsuperscript{2}Université de Rennes 1, LTSI, Rennes/FRANCE, \textsuperscript{3}INSERM, UMR 1099, Rennes/FRANCE, \textsuperscript{4}UMR 1085, INSERM, Rennes/FRANCE, \textsuperscript{5}IRSET, Université de Rennes 1, Rennes/FRANCE, \textsuperscript{6}CNRS UMS 3480, INSERM UMS 018, Biosit, Rennes/FRANCE

MEET THE AUTHOR in the EPOS™ Area at PC#25, on Oct. 4, 12:30–13:00

467 Improving the evaluation of cardiac function in rats at 7T by using non-local means filtering
B. Tricot\textsuperscript{1, 2}, M. Descoteaux\textsuperscript{2}, M. Lepage\textsuperscript{1}, O. Lesur\textsuperscript{3}, L. Tremblay\textsuperscript{1}, F. Chagnon\textsuperscript{3}, A. Lalande\textsuperscript{4}; \textsuperscript{1}Centre d’Imagerie Moléculaire de Sherbrooke, Université de Sherbrooke, Sherbrooke/QC/CANADA, \textsuperscript{2}Sherbrooke Connectivity Imaging Lab, Université de Sherbrooke, Sherbrooke/QC/CANADA, \textsuperscript{3}Centre de Recherche Clinique Etienne-LeBel, Université de Sherbrooke, Sherbrooke/QC/CANADA, \textsuperscript{4}LE2I (UMR CNRS 6306), University of Burgundy, Dijon/FRANCE

MEET THE AUTHOR in the EPOS™ Area at PC#26, on Oct. 4, 12:30–13:00

468 Optimisation of Diffusion Weighted MRI in mouse liver in vivo at 9.4T
W.P. Węglarz, K. Jasinski, T. Skorka; Department of Magnetic Resonance Imaging, Institute of Nuclear Physics PAN, Kraków/POLAND

MEET THE AUTHOR in the EPOS™ Area at PC#27, on Oct. 4, 12:30–13:00
Animal models – pathologies

469 MRI characterization of a novel mouse model of Staphylococcus aureus chronic osteomyelitis
V. Hoerr¹, S. Horst², C. Kreis³, L. Tuchscherer⁴, J. Kalinka⁴, B. Löffler⁴, E. Medina², C. Faber¹; ¹Department of Clinical Radiology, University Hospital Münster, Münster/GERMANY, ²Infection Immunology Research Group, Helmholtz Centre for Infection Research, Braunschweig/GERMANY, ³Clinic of Trauma-, Hand-, and Reconstructive Surgery, University Hospital Münster, Münster/GERMANY, ⁴Institute of Medical Microbiology, University Hospital Münster, Münster/GERMANY
MEET THE AUTHOR in the EPOS™ Area at PC#28, on Oct. 4, 12:30–13:00

470 Preclinical evaluation of diffuse changes in operated liver with a cold plasma hemostasis, in rat: morphofunctional study, MRI with Gd-EOB-DTPA
O.Y. Borodin¹, E. Semichev², M. Belyanin³, V. Ussov¹, V. Filimonov⁴, M. Sannikov⁴, P. Bushlanov², A. Baikov², G. Dambaev⁵; ¹Tomography Research Lab, Institute of Cardiology of the Siberian Branch of the Russian Academy of Medical Sciences, Tomsk/RUSSIAN FEDERATION, ²Central research laboratory, Siberian State Medical University, Tomsk/RUSSIAN FEDERATION, ³Biotechnology and organic chemistry, Tomsk Polytechnic University, Tomsk/RUSSIAN FEDERATION, ⁴MRI facility, Siberian State Medical University, Tomsk/RUSSIAN FEDERATION, ⁵Department of Hospital Surgery, Siberian State Medical University, Tomsk/RUSSIAN FEDERATION
MEET THE AUTHOR in the EPOS™ Area at PC#29, on Oct. 4, 12:30–13:00

471 Visualizing lung infection with retrospectively gated MRI in a mouse model for cryptococcosis
G. Vande Velde¹, T. Dresselaers¹, E. Verbeken², K. Lagrou³, U. Himmelreich¹; ¹Biomedical MRI unit, KU leuven, Leuven/BELGIUM, ²Imaging & Pathology, KU Leuven, Leuven/BELGIUM, ³Laboratory of Clinical Bacteriology and Mycology, KU Leuven, Leuven/BELGIUM
MEET THE AUTHOR in the EPOS™ Area at PC#1, on Oct. 4, 13:00–13:30

472 Correlation of late gadolinium enhancement in cardiac Magnetic Resonance Imaging with wall thickness, heart mass and histopathological examinations in a rat model of autoimmune myocarditis
W. Kromen¹, H.K. Korkusuz², S. Lindemayr¹, R.W. Bauer¹, T.J. Vogl¹; ¹Dept. of Diagnostic and Interventional Radiology, J.W. Goethe University Hospital Frankfurt am Main, Frankfurt am Main/GERMANY, ²Clinic of Nuclear Medicine, J.W. Goethe University Hospital Frankfurt am Main, Frankfurt am Main/GERMANY
MEET THE AUTHOR in the EPOS™ Area at PC#2, on Oct. 4, 13:00–13:30

473 Functional MRI for Assessment of Novel Chemokine-Directed Therapy of Renal Allograft Rejection in a Murine Animal Model
M. Notohamiprodjo¹, A. Kalnins², M. Kolb¹, A. Tischer², M. Reiser¹, K. Nikolau¹, J. Andrassy²; ¹Department of Radiology, University Hospitals Munich, Munich/GERMANY, ²Surgery, University Hospitals Munich, Munich/GERMANY
MEET THE AUTHOR in the EPOS™ Area at PC#30, on Oct. 6, 12:30–13:00
474 A non-invasive 23Na MRI study revealing that Nitroglycerin may be a synergistic factor for apoptotic propagation in tumors after photodynamic therapy.
C.D. Thomas¹, F. Poyer¹, M. Lupu¹, P. Maillard², J. Mispelter¹; ¹Imagerie Intégrative, Inserm U759/ Institut Curie/Université Paris XI, Orsay/FRANCE, ²UMR 176, Institut Curie/ UMR176 CNRS/Université Paris XI, Orsay/FRANCE
MEET THE AUTHOR in the EPOS™ Area at PC#4, on Oct. 4, 13:00–13:30

475 VO(dmpp)2 reverts pre-diabetic features in fatty Zucker rats: MRI/MRS techniques as non-invasive powerful tools in drug development
A.M. Martins Metelo¹, R. Pérez-Carro², M. Castro³, P. Lopez-Larrubia¹; ¹Experimental models of human disease, Instituto de Investigaciones Biomédicas, CSIC/UAM, Madrid/SPAIN,
²Departamento de Modelos experimentales de enfermedades humanas, Instituto de Investigaciones Biomédicas “Alberto Sols”, Madrid/SPAIN, ³Life Sciences, University of Coimbra, Coimbra/PORTUGAL
MEET THE AUTHOR in the EPOS™ Area at PC#5, on Oct. 4, 13:00–13:30

476 Lipomatous Metaplasia in Rabbits with Chronic Myocardial Infarction: 3.0T MRI and Histopathological Findings
Y. Feng¹, F. Chen², Y. Xie³, M. Miranda Cona¹, Y. Ni¹; ¹Radiology, UZLeuven, Leuven/BELGIUM, ²Radiology, KULeuven, Leuven/BELGIUM, ³ELIS, Ghent University, Ghent/BELGIUM
MEET THE AUTHOR in the EPOS™ Area at PC#6, on Oct. 4, 13:00–13:30

477 MRI Monitored Myocardial Therapy: High Dose of Mononuclear Cells in Myocardium after Injection Predicts Improved Recovery after Acute Myocardial Infarction
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478 Lung sodium-23 MRI using ultra-short echo time sequence at 9.4 Tesla
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Brain – functional

479 Neuroanatomy associated with emotional distractor during working memory task in patients with generalized anxiety disorder
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MEET THE AUTHOR in the EPOS™ Area at PC#9, on Oct. 4, 13:00–13:30
480 Patterns of cortical activations during visual tasks of emotional faces in subjects with depression: a coordinate-based meta-analysis
C.-H. Lai; Department of Psychiatry, Buddhist Tzu-Chi General Hospital, Taipei Branch, Xindian/TAIWAN
MEET THE AUTHOR in the EPOS™ Area at PC#10, on Oct. 4, 13:00–13:30

481 Glutamatergic metabolism in the pre-genual cortex and cognitive performance – a pilot study in multiple sclerosis patients and healthy volunteers
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MEET THE AUTHOR in the EPOS™ Area at PC#11, on Oct. 4, 13:00–13:30

Brain – ischemia and angiography

482 Ultra-High-Field MRI of stroke at 7T: first experiences
F.C. Von Samson-Himmelstjerna1, 2, V.I. Madai2, E. Tovar-Martinez1, K. Stengl2, M. Bauer2, J. Wuerfel1.3,4, J. Sobesky2, T. Niendorf1, 3,4; 1Berlin Ultrahigh Field Facility (BUFF), Max Delbrueck Centre for Molecular Medicine (MDC), Berlin/GERMANY, 2Centre for Stroke Research (CSB), Charite Universitätsmedizin Berlin, Berlin/GERMANY, 3Institute of Neurology, University Medicine Göttingen, Göttingen/GERMANY, 4Experimental and Clinical Research Center (ECRC), Charité Universitätsmedizin Berlin and Max Delbrück Center for Molecular Medicine (MDC), Berlin/GERMANY
MEET THE AUTHOR in the EPOS™ Area at PC#12, on Oct. 4, 13:00–13:30

483 Effect of echo time and spatial resolution on delineation of aneurysm remnant with 3D time-of-flight magnetic resonance angiography
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484 Cardiovascular risk factors associated with recognized and silent brain infarcts on magnetic resonance imaging in an elderly population
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MEET THE AUTHOR in the EPOS™ Area at PC#18, on Oct. 5, 12:30–13:00
Brain – neurodegenerative diseases and epilepsy

486 A Magnetic Resonance Signal-Based Approach to deal with Partial Volume Effects
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Correlating motor and cognitive function to voxelwise myelin water measurements across whole multiple sclerosis brain
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MEET THE AUTHOR in the EPOS™ Area at PC#17, on Oct. 4, 13:00–13:30

Cortical atrophy in advanced stage of parkinson disease
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MEET THE AUTHOR in the EPOS™ Area at PC#18, on Oct. 4, 13:00–13:30

Cortical And Whole Brain Volume Assesment And Diffusion Tensor Imaging Findings In Alzheimer’s Disease And Mild Cognitive Impairment
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MEET THE AUTHOR in the EPOS™ Area at PC#19, on Oct. 4, 13:00–13:30

1H-magnetic resonance spectroscopy reveals increased Glutamate levels in the nucleus accumbens after acute detoxification in alcohol dependent patients
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MEET THE AUTHOR in the EPOS™ Area at PC#20, on Oct. 4, 13:00–13:30
491 Pharmacog: Multi-site MRI calibration to study the progression of Alzheimer’s disease using brain morphometry

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MEET THE AUTHOR in the EPOS™ Area at PC#21, on Oct. 4, 13:00–13:30

492 Differentiation between idiopathic Parkinson’s disease, atypical Parkinsonian syndromes and other neurodegenerative diseases with similar symptoms using 3D-MRSI

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MEET THE AUTHOR in the EPOS™ Area at PC#22, on Oct. 4, 13:00–13:30

493 Comparison of visual assessment of medial temporal lobe atrophy (MTA) on MRI, automatic hippocampal volume measurement and cognitive performance in a 75-year-old population

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Pharmacog: Multi-site MRI calibration to study the progression of Alzheimer’s disease using brain diffusion data

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MEET THE AUTHOR in the EPOS™ Area at PC#30, on Oct. 5, 13:00–13:30

Diffusion tensor tractography of the posterior cingulate gyrus and corpus callosum does not identify MCI-patients at high risk for conversion to Alzheimer’s disease in a heterogeneous MCI cohort

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MEET THE AUTHOR in the EPOS™ Area at PC#27, on Oct. 4, 13:00–13:30

Longitudinal test-retest reproducibility of cortical thickness measurements

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MEET THE AUTHOR in the EPOS™ Area at PC#29, on Oct. 4, 13:00–13:30

Identification of the ventrointermediate thalamic nucleus using Q-ball calculation

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MEET THE AUTHOR in the EPOS™ Area at PC#1, on Oct. 4, 13:30–14:00
Brain – other

501 Cerebral perfusion changes in preterm infants during early brain development
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MEET THE AUTHOR in the EPOS™ Area at PC#2, on Oct. 4, 13:30–14:00

502 Fractional cerebral blood volume quantification with the Rapid Steady State T1
MRI technique in humans
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MEET THE AUTHOR in the EPOS™ Area at PC#3, on Oct. 4, 13:30–14:00

503 Impact of Diffusion Tensor Imaging in surgical planning of patients with intra-axial
eloquent region brain lesions
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504 Does skull thickening have any effect on the association between cognition and
brain in older adults?
B.S. Aribisala¹, N.A. Royle¹, M.C. Valdes Hernandez¹, C. Murray², L. Penke², A. Gow²,
S. Maniega¹, J.M. Starr³, M.E. Bastin¹, I.J. Deary⁴, J.M. Wardlaw¹; ¹Brain Research
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MEET THE AUTHOR in the EPOS™ Area at PC#5, on Oct. 4, 13:30–14:00
505 Towards the differentiation between calcified regions and iron deposits in ageing brains on conventional structural MRI
M.C. Valdes Hernandez1, A.J. Kiker2, D.A. Dickie1, A. Glatz1, N.A. Royle1, B.S. Aribisala1, S. Munoz Maniega1, M.E. Bastin3, I.J. Deary4, J.M. Wardlaw1; ‘Clinical Neurosciences, University of Edinburgh, Edinburgh/UNITED KINGDOM, 2Medicine and Veterinary Medicine, University of Edinburgh, Edinburgh/UNITED KINGDOM, 3Medical and Radiological Sciences, University of Edinburgh, Edinburgh/UNITED KINGDOM, 4Psychology, University of Edinburgh, Edinburgh/UNITED KINGDOM
MEET THE AUTHOR in the EPOS™ Area at PC#6, on Oct. 4, 13:30–14:00

506 Post Partum Convulsions a Mystery to Solve: Value of Brain MRI Study
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MEET THE AUTHOR in the EPOS™ Area at PC#7, on Oct. 4, 13:30–14:00

507 Measuring brain stiffness using MRE: Are we there yet?
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MEET THE AUTHOR in the EPOS™ Area at PC#8, on Oct. 4, 13:30–14:00

508 The callosal angle measured on MRI of the brain as a prognostic imaging biomarker in iNPH
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MEET THE AUTHOR in the EPOS™ Area at PC#8, on Oct. 5, 13:00–13:30

509 PET/MR quantification of cerebral metabolic rate with an image derived input function
N.A. Da Silva1, H. Herzog2, C. Weirich2, L. Tellmann2, E. Rota Kops2, H. Hautzel3, P. Almeida1; 1Faculty of Sciences of the University of Lisbon, Institute of Biophysics and Biomedical Engineering, Lisboa/PORTUGAL, 2Institute of Neuroscience and Medicine, Forschungszentrum Jülich, Jülich/GERMANY, 3Department of Nuclear Medicine, University of Düsseldorf, Jülich/GERMANY
MEET THE AUTHOR in the EPOS™ Area at PC#10, on Oct. 4, 13:30–14:00

510 Synthetic MRI compared with conventional MRI of the brain in a clinical setting
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MEET THE AUTHOR in the EPOS™ Area at PC#30, on Oct. 5, 13:30–14:00
511 High-energy metabolism in the human brain: Initial results of a 31P magnetic resonance spectroscopy study with LCModel quantitation
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MEET THE AUTHOR in the EPOS™ Area at PC#12, on Oct. 4, 13:30–14:00

512 Comparison of shim quality in spectroscopy acquired in patients with intraaxial metastatic process examined with and without stereotactic frame. Technical note.
M. Horak¹, J. Vymazal¹, R. Zacek¹, P. Kozubikova², A. Rulseh¹, R. Liscak³; ¹Radiology, Homolka hospital, Prague/CZECH REPUBLIC, ²Clinical Physics, Homolka hospital, Prague/CZECH REPUBLIC, ³stereotactic neurosurgery, Homolka hospital, Prague/CZECH REPUBLIC
MEET THE AUTHOR in the EPOS™ Area at PC#13, on Oct. 4, 13:30–14:00

513 Characteristic appearance of basal ganglia iron deposits of healthy, elderly subjects on clinical MRI volumes
A. Glatz¹, M.C. Valdes Hernandez¹, A.J. Kiker², M.E. Bastin¹, S. Munoz Maniega¹, I.J. Deary³, J.M. Wardlaw¹; ¹BRIC, Division of Clinical Neurosciences, University of Edinburgh, Edinburgh/UNITED KINGDOM, ²College of Medicine and Veterinary Medicine, University of Edinburgh, Edinburgh/UNITED KINGDOM, ³School of Philosophy, Psychology and Language Sciences, University of Edinburgh, Edinburgh/UNITED KINGDOM
MEET THE AUTHOR in the EPOS™ Area at PC#14, on Oct. 4, 13:30–14:00

Brain tumours

514 Inter-observer and Intra-observer Agreement of rCBV Measurements in Glial Tumour Using Different Proprietary Software Analysis Tool
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MEET THE AUTHOR in the EPOS™ Area at PC#15, on Oct. 4, 13:30–14:00

515 Monitoring of Glioblastoma response with resting-state Functional and Structural Magnetic Resonance Imaging
H. Wang¹, E.R. Gerstner², S. Stufflebeam¹, D. Jennings¹, B.R. Rosen¹; ¹Department of Radiology, Massachusetts General Hospital, Charlestown/MA/UNITED STATES OF AMERICA, ²Department of Neurology, Massachusetts General Hospital, Boston/MA/UNITED STATES OF AMERICA
MEET THE AUTHOR in the EPOS™ Area at PC#16, on Oct. 4, 13:30–14:00
516 Segmentation-based estimation of relative Cerebral Blood Volume in Dynamic Susceptibility Contrast (DSC) enhanced MR images of brain tumors
A. Fathi Kazerooni\textsuperscript{1}, M. Mohseni\textsuperscript{2}, M. Miri\textsuperscript{1}, K. Firouznia\textsuperscript{3}, H. Saligheh Rad\textsuperscript{4, 5}; \textsuperscript{1}Medical Physics and Biomedical Engineering Department, Tehran University of Medical Sciences, Medical School, Tehran/IRAN, \textsuperscript{2}Neurosurgery Department, Tehran University of Medical Sciences, Tehran/IRAN, \textsuperscript{3}Department of Radiology, Tehran University of Medical Sciences, School of Medicine, Tehran/IRAN, \textsuperscript{4}Laboratory for Advanced MR Imaging and Spectroscopy (LAMIS), Research Center for Science and Technology (RCSTIM), Tehran/IRAN, \textsuperscript{5}Medical Physics and Biomedical Engineering Department, Tehran University of Medical Sciences, School of Medicine, Tehran/IRAN
MEET THE AUTHOR in the EPOS™ Area at PC#17, on Oct. 4, 13:30–14:00

517 Imaging of recurrent medulloblastomas and mimickers
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MEET THE AUTHOR in the EPOS™ Area at PC#18, on Oct. 4, 13:30–14:00

518 Feasibility and reproducibility of resting state fMRI in the presurgical patient with a primary brain malignancy.
T. De Beule\textsuperscript{1}, S. Van Cauter\textsuperscript{1}, F. D’Arco\textsuperscript{1}, R.R. Peeters\textsuperscript{2}, S. Sunaert\textsuperscript{1}; \textsuperscript{1}Radiology, UZLeuven, Leuven/BELGIUM, \textsuperscript{2}Radiology, University Hospitals of Leuven, Leuven/BELGIUM
MEET THE AUTHOR in the EPOS™ Area at PC#30, on Oct. 4, 13:00–13:30

519 Investigation of the necessity of pre-contrast T1-determination in DCE-MRI; simulations and clinical data
C. Larsson\textsuperscript{1}, M.M. Kleppestø\textsuperscript{2}, A. Bjørnerud\textsuperscript{1}; \textsuperscript{1}Intervention centre, Rikshospitalet, Oslo University Hospital, Oslo/NORWAY, \textsuperscript{2}The Intervention Centre, Oslo University Hospital, Oslo/NORWAY
MEET THE AUTHOR in the EPOS™ Area at PC#20, on Oct. 4, 13:30–14:00

520 Surgical proven location of the Facial Nerve in the vicinity of Cerebellopontine Angle Tumours depicted pre-operatively by Tractography
P.M. Gonçalves-Pereira\textsuperscript{1}, G. Neto D’almeida\textsuperscript{2}, R. Manaças\textsuperscript{3}, P. Escada\textsuperscript{4}, T. Taoka\textsuperscript{5}; \textsuperscript{1}Serviço de Radiologia, Hospital dos Lusíadas, Lisboa/PORTUGAL, \textsuperscript{2}Neurosurgery dept, Hospital Egas Moniz, Lisboa/PORTUGAL, \textsuperscript{3}Neuroradiology dept, Hospital dos Capuchos, Lisboa/PORTUGAL, \textsuperscript{4}ENT dept, Hospital Egas Moniz, Lisboa/PORTUGAL, \textsuperscript{5}Radiology dept, Nara University Hospital, Nara/JAPAN
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521 Application of clusterization techniques to dynamic susceptibility-weighted MR quantitative parameters: relationship with survival time in high grade gliomas
R. Sanz-Requena\textsuperscript{1}, A. Revert-Ventura\textsuperscript{2}, L. Marti-Bonmati\textsuperscript{3}, A. Alberich-Bayarri\textsuperscript{1}, G. Garcia-Martí\textsuperscript{1}; \textsuperscript{1}Radiology, Hospital Quiron Valencia, Valencia/SPAIN, \textsuperscript{2}Radiology, Hospital de Manises, Manises/SPAIN, \textsuperscript{3}Radiology, Universitat de Valencia, Valencia/SPAIN
MEET THE AUTHOR in the EPOS™ Area at PC#22, on Oct. 4, 13:30–14:00
522 Contribution of Diffusion MRI for Glioblastoma Radiotherapy
MEET THE AUTHOR in the EPOS™ Area at PC#23, on Oct. 4, 13:30–14:00

523 Spatial Relationship Between Subventricular zone, Cortex Proximity and Progression Free Survival Time
F. Tensaouti1, V. Lubrano1, 2, 3, J.-A. Lotterie1, 2, 3, I. Berry1, 2, 3, P. Celsis1, 2, E. Moyal Cohen-Jonathan1, 2, 4; 1Université Paul Sabatier Toulouse III, INSERM UMR 825, Toulouse/FRANCE, 2UMRS 825, INSERM, Toulouse/FRANCE, 3Rangueil, Centre Hospitalier Universitaire, Toulouse/FRANCE, 4Department of Radiation Oncology, Institut Claudius Regaud, Toulouse/FRANCE
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524 Assessment of Progression In Glioblastoma Using Multimodality Imaging and the Response Assessment in Neurology Oncology Criteria
F. Tensaouti1, V. Lubrano1, 2, 3, J.-A. Lotterie1, 2, 3, I. Berry1, 2, 3, P. Celsis1, 2, E. Moyal Cohen-Jonathan1, 2, 3, 4; 1Université Paul Sabatier Toulouse III, INSERM UMR 825, Toulouse/FRANCE, 2UMRS 825, INSERM, Toulouse/FRANCE, 3Rangueil, Centre Hospitalier Universitaire, Toulouse/FRANCE, 4Department of Radiation Oncology, Institut Claudius Regaud, Toulouse/FRANCE
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525 Diffusion-weighted MR imaging findings of the intracerebral metastasis of breast cancer
S. Kavak, N. Ciledag, K. Arda, B. Savran, E. Aktas, B. Gulpinar, H. Kaygusuz; Radiology, Ankara Oncology Research and Education Hospital, Ankara/TURKEY
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526 Combining Diffusion Kurtosis Imaging, Dynamic Susceptibility Contrast-Enhanced Perfusion MR and Short Echo time Chemical Shift Imaging in the grading of gliomas.
MEET THE AUTHOR in the EPOS™ Area at PC#27, on Oct. 4, 13:30–14:00
527 Artificial neural networks and 1H in vivo MRS in classification of posterior fossa tumors progression or recurrence
Ł. Boguszewicz¹, M. Sokół¹, S. Blamek², M. Kijonka¹; ¹Department of Medical Physics, Maria Skłodowska-Curie Memorial Cancer Center and Institute of Oncology, Gliwice/Poland, ²Department of Radiotherapy, Maria Skłodowska-Curie Memorial Cancer Center and Institute of Oncology, Gliwice/Poland
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528 Usefulness of MR spectroscopy in differentiation between recurrent/residual brain glioma and post-therapeutic changes
A. Bieza, G. Krumina; Department of Radiology, Riga Stradins University, Riga/Latvia
MEET THE AUTHOR in the EPOS™ Area at PC#29, on Oct. 4, 13:30–14:00

529 Differentiating diffuse WHO grade II and IV Astrocytomas using ex vivo MR Spectroscopy
R. Vettukattil¹, M. Gulati¹, T.E. Sjøbakk¹, A.S. Jakola²,³, S.H. Torp⁴,⁵, N.A.M. Kvernmo², T.F. Bathen¹, S. Gulati²,³, I.S. Gribbestad¹; ¹Department of Circulation and Medical Imaging, Norwegian University of Science and Technology, Trondheim/Norway, ²Department of Neurosurgery, St. Olav University Hospital, Trondheim/Norway, ³Department of Neuroscience, St. Olav University Hospital, Trondheim/Norway, ⁴Department of Pathology and Medical Genetics, St. Olav University Hospital, Trondheim/Norway, ⁵Department of Laboratory Medicine, St. Olav University Hospital, Trondheim/Norway
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530 Brain tumour classification using quantitative MR imaging and spectroscopy
D. Wagnerova¹, V. Herynek¹, A. Malucelli², M. Dezortova¹, J. Vymazal³, D. Urgosik⁴, M. Syrucek⁵, F. Jiru¹, A. Skoch¹, R. Bartos², M. Sames², M. Hajek⁶; ¹MR-Unit, Department of Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/Czech Republic, ²Department of Neurosurgery, JE Purkyne University and Masaryk Hospital, Usti nad Labem/Czech Republic, ³Department of Radiology, Na Homolce Hospital, Prague/Czech Republic, ⁴Stereotactic and radiation neurosurgery, Na Homolce Hospital, Prague/Czech Republic, ⁵Department of Pathology, Na Homolce Hospital, Prague/Czech Republic, ⁶MR-Unit, Department of Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/Czech Republic
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531 Diffusion weighted imaging and magnetic resonance spectroscopy in assessment of methylation status of glioblastoma multiforme
M. Daković¹, T. Petrović², J. Mihailović³, T. Stošić-Opinčal⁴, G.G. Bašić⁵, D. Grujičić⁶; ¹Department of Biophysical Chemistry, Faculty of Physical Chemistry, Belgrade/Serbia, ²Department of biophysical chemistry, Faculty of Physical Chemistry, Belgrade/Serbia, ³Magnetic resonance department, National Cancer Research Center, Belgrade/Serbia, ⁴Center for Radiology and Magnetic Resonance, Clinical Center of Serbia, Belgrade/Serbia, ⁵Department of Radiochemistry, Faculty of Physical Chemistry, Belgrade/Serbia, ⁶Neurosurgery Clinic, Clinical Center of Serbia, Belgrade/Serbia
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Brain – white matter

A. Sokolov, V. Fokin, A. Efimtcev, G. Trufanov; Radiology, Medical Military Academy, Saint-Petersburg/ RUSSIAN FEDERATION
MEET THE AUTHOR in the EPOS™ Area at PC#4, on Oct. 5, 12:30–13:00

Breast

533 Effects of motion correction on pharmacokinetic parameters of dynamic contrast-enhanced magnetic resonance imaging (DCE MRI) of breast cancer
L.B. Nilsen¹, T. Seierstad², A. Fangberget², D.R. Olsen³, O. Engebråten¹, O.M. Geier⁴;
¹Institute for Cancer Research, Oslo University Hospital, Oslo/NORWAY, ²Department of Radiology and Nuclear Medicine, Oslo University Hospital, Oslo/NORWAY, ³Faculty of Mathematics and Natural Sciences, University of Bergen, Bergen/NORWAY, ⁴The Intervention Centre, Oslo University Hospital, Oslo/NORWAY
MEET THE AUTHOR in the EPOS™ Area at PC#5, on Oct. 5, 12:30–13:00

534 DCE-MRI transfer coefficient Ktrans as a surrogate marker for neoadjuvant treatment in breast cancer patients: Comparison of manual versus automatic segmentation of region of interest
S. Drisis, K. Stathopoulos, S.-L. Chao, M.R. Capelan, M. Lemort; Radiology, Institut Jules Bordet, Bruxelles/BELGIUM
MEET THE AUTHOR in the EPOS™ Area at PC#6, on Oct. 5, 12:30–13:00

535 Value of MR-spectroscopy in differential diagnosis of breast lesions
S. Ternovoy, N. Meladze, A. Solopova, A. Abduraimov; Tomography, I. M. Sechenov State Medical University, Moscow/ RUSSIAN FEDERATION
MEET THE AUTHOR in the EPOS™ Area at PC#7, on Oct. 5, 12:30–13:00

536 Improving MRI Sensitivity, Specificity and Accuracy in Breast Cancer Diagnosis by 1H-MRS
G. Russo¹, S. Nicolosi², I. D’Angelo³, G. Vicari³, M.C. Gilardi⁴, G. Borasi²; ¹Fisica Sanitaria, CNR-IBFM, UOS Cefalù, Cefalù/ITALY, ²Radiologia, CNR – LATO, Cefalù/ITALY, ³Radiologia, San Raffaele G. Giglio, Cefalù/ITALY, ⁴Medicina Nucleare, CNR – IBFM, Segrate, Milano/ITALY
MEET THE AUTHOR in the EPOS™ Area at PC#8, on Oct. 5, 12:30–13:00
Cardiac and coronaries

537 Comparison of Models for the Quantification of Myocardial Perfusion using MRI
F. Schwab¹, R. Marcus¹, K. Hildebrand¹, D. Theisen¹, F. Bamberg¹, M. Reiser¹, M. Ingrisch²; ¹Department of Clinical Radiology, University Hospital Grosshadern, Munich/GERMANY, ²Institute for Clinical Radiology, Ludwig-Maximilians-University Hospital Munich, Munich/GERMANY
MEET THE AUTHOR in the EPOS™ Area at PC#9, on Oct. 5, 12:30–13:00

538 Influence of the Spatial Resolution in Functional Cardiac Cine Imaging
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MEET THE AUTHOR in the EPOS™ Area at PC#10, on Oct. 5, 12:30–13:00

539 Left ventricular diastolic dysfunction in patients with the metabolic syndrome
K. Nyman¹, ², M. Granér³, ⁴, M.O. Pentikäinen³, ⁴, R. Siren⁵, M.S. Nieminen³, ⁴, M.-R. Taskinen³, ⁴, N. Lundbom¹, ², K. Lauerma¹, ²; ¹Department of Radiology, HUS Radiology, HUS, Helsinki/FINLAND, ²Department of Radiology, University of Helsinki, University of Helsinki/FINLAND, ³Department of Medicine, University of Helsinki, University of Helsinki/FINLAND, ⁴Department of Medicine, Helsinki University Central Hospital, HUS, Helsinki/FINLAND, ⁵Department of General Practice, University of Helsinki, University of Helsinki/FINLAND
MEET THE AUTHOR in the EPOS™ Area at PC#11, on Oct. 5, 12:30–13:00

540 Prognostic role of contrast-enhanced MRI of the heart in patients after transmural myocardial infarction
A.A. Bogunetsky¹, T.A. Shelkovnikova¹, V.E. Babokin¹, R.V. Aimanov², W.Y. Ussov¹; ¹Lab. of Tomography, Institute of Cardiology, Tomsk/RUSSIAN FEDERATION, ²Cardiac Surgery, Institute of Cardiology, Tomsk/RUSSIAN FEDERATION
MEET THE AUTHOR in the EPOS™ Area at PC#12, on Oct. 5, 12:30–13:00

Contrast agents (excluding molecular and cellular imaging)

541 A study of acute brain penetration of Omniscan after blood-brain barrier disruption by ultrasound in mice
N.G. Spencer¹, B. Austen¹, E. Stride², F.A. Howe³; ¹Basic Medical Sciences, St. George’s University, London/UNITED KINGDOM, ²Institute of Biomedical Engineering, University of Oxford, Oxford/UNITED KINGDOM, ³Clinical Sciences, St. George’s University, London/UNITED KINGDOM
MEET THE AUTHOR in the EPOS™ Area at PC#13, on Oct. 5, 12:30–13:00

542 MRI monitored USPIO-labelled intracardial cell therapy in acute myocardial infarct, imaging features with pathologic correlation in porcine model
R.M. Korpi¹, K. Alestalo², R. Borra³, F. Yannopoulos², S. Lehtonen⁴, E. Lappi-Blanco⁵, V. Anttila³, P. Lehenkari⁴, T. Juvonen², R. Blanco Sequeiros⁶; ¹University of Oulu, Department of radiology, 90029 Oulu/FINLAND, ²Department of Surgery, Clinical Research Center., University of Oulu and Oulu University Hospital, Oulu/FINLAND, ³General Hospital, A.A.. Martins Center for Biomedical Imaging, MA/MA/UNITED STATES OF AMERICA, ⁴Department of Biomedicine, Division of Anatomy and Cell Biology, University of Oulu., Oulu/FINLAND, ⁵Institute of Diagnostics, Department of Pathology, University of Oulu, Oulu/FINLAND, ⁶Department of Radiology, University of Oulu, Institute of Diagnostics, Oulu/FINLAND
MEET THE AUTHOR in the EPOS™ Area at PC#14, on Oct. 5, 12:30–13:00
543 Physiological Effect of Caffeine on Susceptibility Weighted Imaging (SWI)
A.R. Caseiro¹, P. Sousa¹, R. Manaças²,³, P.M. Gonçalves-Pereira²; ¹Radiology, Higher School of Health Technology of Lisbon – ESTeSL, Lisboa/PORTUGAL, ²Radiology dept, Hospital dos Lusíadas, Lisboa/PORTUGAL, ³Neuroradiology dept, Hospital dos Capuchos, Lisboa/PORTUGAL
MEET THE AUTHOR in the EPOS™ Area at PC#15, on Oct. 5, 12:30–13:00

544 T1 and T2* Mapping of Magnetic Nanoparticles for the Detection of Breast and Pancreatic Cancer Cells
D. Krueger¹, G. Salas², M. Calero², S. Lorrio Gonzalez³, M.D.P. Morales⁴, R. Botnar³; ¹Division of Imaging Sciences & Biomedical Engineering, King’s College London, London/UNITED KINGDOM, ²Facultad de Ciencias Módulo C-IX, 3ª planta, Instituto IMDEA Nanociencia, Madrid/SPAIN, ³Division of Imaging Sciences and Biomedical Engineering, King’s College London, London/UNITED KINGDOM, ⁴Biomaterials and Bioinspired Materials, Instituto de Ciencia de Materiales de Madrid, Madrid/SPAIN
MEET THE AUTHOR in the EPOS™ Area at PC#16, on Oct. 5, 12:30–13:00

545 In vivo imaging of mouse pancreatic volume using manganese-enhanced MRI (MEMRI)
J. Jung¹, S. Lamprianou², L. Vinet², P. Meda², R. Gruetter³, H. Lei⁴; ¹Physics, Imperial College London, London/UNITED KINGDOM, ²PHYME, Medical School Geneva, Geneva/SWITZERLAND, ³Department of Radiology, University of Geneva and Lausanne, Geneva Lausanne/SWITZERLAND, ⁴CIBM – Centre d’Imagerie Biomédicale, EPFL – École Polytechnique Fédérale de Lausanne, Lausanne/SWITZERLAND
MEET THE AUTHOR in the EPOS™ Area at PC#17, on Oct. 5, 12:30–13:00

546 Imaging of intracranial extra- and intraaxial tumors using non-gadolinium paramagnetic contrast agent Mn-DCTA pre-clinical and clinical study
W.Y. Ussov¹, A.I. Bezlepkin¹, M. Belyanin², A.A. Churin², V. Filimonov²; ¹Lab. of Tomography, Institute of Cardiology, Tomsk/RUSSIAN FEDERATION, ²Biotechnology and organic chemistry, Tomsk Polytechnic University, Tomsk/RUSSIAN FEDERATION
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547 Preclinical evaluation of GDOF-Mn-DTPA as liver specific contrast media, in rat
O.Y. Borodin¹, M. Belyanin², V. Ussov¹, V. Filimonov², E. Semichev³, P. Bushlanov³, M. Sannikov⁴; ¹Tomography Research Lab, Institute of Cardiology of the Siberian Branch of the Russian Academy of Medical Sciences, Tomsk/RUSSIAN FEDERATION, ²Biotechnology and organic chemistry, Tomsk Polytechnic University, Tomsk/RUSSIAN FEDERATION, ³Central research laboratory, Siberian State Medical University, Tomsk/RUSSIAN FEDERATION, ⁴MRI facility, Siberian State Medical University, Tomsk/RUSSIAN FEDERATION
MEET THE AUTHOR in the EPOS™ Area at PC#19, on Oct. 5, 12:30–13:00
548 In-vitro study of Gadoxetate uptake and inhibition in rat hepatocytes
L. Georgiou1, J. Naish1, P. Hubbard1, J. Penny2, N. Woodhouse3, G. Nicholls4; 1School of Cancer and Enabling Sciences, University of Manchester, Manchester/UNITED KINGDOM, 2School of Pharmacy and Pharmaceutical Sciences, University of Manchester, Manchester/UNITED KINGDOM, 3Biomarker Imaging Group, AstraZeneca, Macclesfield/UNITED KINGDOM, 4DMPK, AstraZeneca, Macclesfield/UNITED KINGDOM
MEET THE AUTHOR in the EPOS™ Area at PC#20, on Oct. 5, 12:30–13:00

549 Highly Fluorescent and Paramagnetic Silica Nanoparticles as Multimodal Contrast Agent: Synthesis and Characterization
E. Lipani, L. Vander Elst, R.N. Muller, S. Laurent; NMR and Molecular Imaging Laboratory, UMONS, Mons/BELGIUM
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550 MRI Characterization of Mastocytoma Rejection in Mice: a Semi-Quantitative DCE Approach
S. Boutry1, M.-A. Bali2, J. Vanderlinden3, M. Roch1, N. Watthelet4, G. Rahir4, A. Hanoteau4, Q. Zhou3, S. Laurent3, L. Vander Elst3, M. Moser4, R.N. Muller1,3; 1University of Mons, Center for Microscopy and Molecular Imaging, Gosselies/BELGIUM, 2Erasme Hospital-Radiology, Université Libre de Bruxelles, Brussels/BELGIUM, 3NMR and Molecular Imaging Laboratory, University of Mons, Mons/BELGIUM, 4Laboratory of Immunobiology, Université Libre de Bruxelles, Gosselies/BELGIUM
MEET THE AUTHOR in the EPOS™ Area at PC#22, on Oct. 5, 12:30–13:00

551 MRI contrast agent for CD34+ stem cell isolation and post-transplantation monitoring
H.M. Huang1, H.-W. Tseng1, Y.S. Lin1, W.Y. Hsieh1, S.J. Wang2, W.C. Shyu3, C.H. Lin3, H.-H. Shen1; 1Biomedical Technology and Device Research Laboratories, Industrial technology research institute, Chutung, Hsinchu/TAIWAN, 2Material and Chemical Research Laboratories, Industrial technology research institute, Chutung, Hsinchu/TAIWAN, 3China Medical University, Graduate Institute of Immunology, Taichung/TAIWAN
MEET THE AUTHOR in the EPOS™ Area at PC#23, on Oct. 5, 12:30–13:00

552 In vivo relaxivities for gadodiamide in blood and cerebral tissue in pig
A. Morell1, F. Lennmyr2, O. Jonsson2, T. Tovedal2, J. Pettersson3, J. Bergquist3, V. Zemgulis2, G. Myrdal2, S. Thelin2, H. Ahlström1, A. Björnerud1,4,5; 1Radiology, Uppsala University, Uppsala/SWEDEN, 2Surgical sciences, Uppsala University, Uppsala/SWEDEN, 3Analytical chemistry, Uppsala University, Uppsala/SWEDEN, 4Physics, Oslo University, Oslo/NORWAY, 5The Intervention Centre, Oslo University Hospital, Oslo/NORWAY
MEET THE AUTHOR in the EPOS™ Area at PC#24, on Oct. 5, 12:30–13:00

Diffusion

553 Towards optimization of diffusion kurtosis imaging to study brain changes with age
R. Neto Henriques1, M. Morgado Correia2, C.A. Cam-Can3; 1Faculty of Sciences of the University of Lisbon, Institute of Biophysics and Biomedical Engineering, Lisboa/PORTUGAL, 2Medical Research Council, Cognition and Brain Sciences Unit, Cambridge/UNITED KINGDOM, 3Biotechnology and Biological Sciences Research Council, Cambridge Centre for Ageing and Neuroscience, Cambridge/UNITED KINGDOM
MEET THE AUTHOR in the EPOS™ Area at PC#25, on Oct. 5, 12:30–13:00
554 The influence of frontal glutathione levels on white matter connectivity in healthy and early psychosis subjects: a preliminary study
A. Griffa1, P. Baumann2, 3, L. Xin4, S. Crespi2, C. Ferrari3, R. Mekle5, R. Gruetter6, 7, J.-P. Thiran1, 8, K.Q. Do3, P. Conus2, P. Hagmann1, 8; 1Signal Processing Laboratory (LTS5), Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne/SWITZERLAND, 2Department of Psychiatry, Lausanne University Hospital (CHUV), Prilly – Lausanne/SWITZERLAND, 3Center for Psychiatric Neuroscience, Lausanne University Hospital (CHUV) and University of Lausanne, Prilly – Lausanne/SWITZERLAND, 4Laboratory for Functional and Metabolic Imaging, Ecole Polytechnique Fédérale de Lausanne, Lausanne/SWITZERLAND, 5Medical Physics, Physikalisch-Technische Bundesanstalt, Berlin/GERMANY, 6EPFL-SB-IPSB-LIFMET, Functional and Metabolic Imaging Laboratory, Lausanne/SWITZERLAND, 7Department of Radiology, University of Lausanne, Lausanne/SWITZERLAND, 8Department of Radiology, Lausanne University Hospital (CHUV) and University of Lausanne, Lausanne/SWITZERLAND
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555 Investigation of phase and diffusion tensor imaging correlations at ultra-high magnetic field
Y. Van De Looij1, 2, N. Kunz1, 2, R. Maddage2, P. Hüppi1, R. Gruetter6, 3, S. Sizonenko1; 1Division of Child Growth & Development, University of Geneva, Geneva/SWITZERLAND, 2EPFL-SB-IPSB-LIFMET, Functional and Metabolic Imaging Laboratory, Lausanne/SWITZERLAND
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556 Extensive follow-up of biexponential diffusion coefficients in ischemic rat brain
M. Pitkonen1, U. Abo-Ramadan1, 2, I. Marinkovic1, 2, D. Strbian1, 2, A. Durukan1, 2, T. Tatlisumak1, 2; 1Experimental MRI Laboratory, Biomedicum Helsinki, Helsinki/FINLAND, 2Dept of Neurology, Helsinki University Central Hospital, Helsinki/FINLAND
MEET THE AUTHOR in the EPOS™ Area at PC#28, on Oct. 5, 12:30–13:00

557 Tract-Based Spatial Statistical analysis of diffusion tensor imaging in patients with relapsing-remitting multiple sclerosis
I. Ibrahim1, A. Skoch2, J. Tintera1, K. Rasova2; 1MR Unit, Department of Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, 2MR-Unit, Department of Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, 3Department of Rehabilitation, 3rd Faculty of Medicine, Charles University in Prague and Faculty Hospital Královské Vinohrady, Prague/CZECH REPUBLIC
MEET THE AUTHOR in the EPOS™ Area at PC#29, on Oct. 5, 12:30–13:00
558 FREBAS Transform for q-Space Compressed Sensing in Accelerated Diffusion Spectrum Imaging
J.I. Sperl¹, E.T. Tan², M.I. Menzel¹, K.F. King³, C.J. Hardy², L. Marinelli²; ¹Diagnostics & Biomedical Technologies Europe, GE Global Reseach, Garching n. Munich/GERMANY, ²MRI Laboratory, GE Global Reseach, Niskayuna/NY/UNITED STATES OF AMERICA, ³MR Physics, GE Healthcare, Waukesha/WI/UNITED STATES OF AMERICA
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559 Influence of intravoxel incoherent motion (IVIM) effects on diffusional kurtosis measurements
O. Dietrich¹, A. Graser², M. Karpitschka², M. D’Anastasi², M. Reiser²; ¹Josef Lissner Laboratory for Biomedical Imaging, Institute for Clinical Radiology, Ludwig-Maximilians-University Hospital Munich, Munich/GERMANY, ²Institute for Clinical Radiology, Ludwig-Maximilians-University Hospital Munich, Munich/GERMANY
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560 Comparison of Diffusion Kurtosis Tensor Estimation Methods in an Advanced Quality Assessment Framework
V. Golkov¹, J.I. Sperl², T. Sprenger¹, H.-J. Bungartz³, M. Sedlacek³, E.T. Tan⁴, L. Marinelli⁴, C.J. Hardy⁴, K.F. King⁵, M.I. Menzel²; ¹Diagnostics & Biomedical Technologies Europe, GE Global Research, Garching N. Munich/GERMANY, ²Diagnostics & Biomedical Technologies Europe, GE Global Research, Garching N. Munich/GERMANY, ³Department of Informatics, Technische Universität München, Garching N. Munich/GERMANY, ⁴MRI Laboratory, GE Global Reseach, Niskayuna/NY/UNITED STATES OF AMERICA, ⁵MR Physics, GE Healthcare, Waukesha/WI/UNITED STATES OF AMERICA
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561 Flow dependency of diffusion coefficients of the human brain measured by ECG gated diffusion weighted imaging
A. Müller-Lutz¹, J. Gross², G. Pentang², R.S. Lanzman², H.J. Wittsack², G. Antoch²; ¹Institute of Diagnostic and Interventional Radiology, University Duesseldorf, Medical Faculty, Dusseldorf/GERMANY, ²Institute of Diagnostic and Interventional Radiology, University Dusseldorf, Medical Faculty, Dusseldorf/GERMANY
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562 Relaxation time corrected diffusion weighted imaging
D.G. Chong¹, L.J. Bains¹, D. Nanz², M. Ith³; ¹Dept. of Diagnostic, Interventional and Pediatric Radiology (DIPR), University & Inselspital Bern, Bern/SWITZERLAND, ²Institute für Diagnostische und Interventionelle Radiologie, Universitätsspital Zürich, Zürich/SWITZERLAND, ³Institute of Diagnostic Interventional and Pediatric Radiology, University Bern, Bern/SWITZERLAND
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563 Revised mono-exponential model for intra-voxel incoherent motion
D.G. Chong, L.J. Bains; Dept. of Diagnostic, Interventional and Pediatric Radiology (DIPR), University & Inselspital Bern, Bern/SWITZERLAND
MEET THE AUTHOR in the EPOS™ Area at PC#6, on Oct. 5, 13:00–13:30
564 Optimal ROI Size for IVIM Imaging parameter determination
M. Montelius¹, M. Ljungberg², E. Forssell-Aronsson³; ¹Department of Radiation Physics, Institution of Clinical Sciences, Gothenburg/SWEDEN, ²Sahlgrenska University Hospital, Department of Medical physics and Biomedical Engineering, Gothenburg/SWEDEN, ³Radiation Physics, Clinical sciences, Gothenburg/SWEDEN
MEET THE AUTHOR in the EPOS™ Area at PC#7, on Oct. 5, 13:00–13:30

565 WITHDRAWN

566 Quantitative analysis of the limits of the mono-exponential tensor model in DTI.
L. Squarcina¹, D. Peruzzo¹, F. Arrigoni², F.M. Trulitz³, A. Bertoldo¹; ¹Department of Information Engineering, University of Padova, Padova/ITALY, ²Neuroimaging Unit, Scientific Institute IRCCS Eugenio Medea, Bosisio Parini (LC)/ITALY, ³Neuroimaging Unit, Fondazione IRCCS Ca’ Granda, Ospedale Maggiore Policlinico, Milano/ITALY
MEET THE AUTHOR in the EPOS™ Area at PC#9, on Oct. 5, 13:00–13:30

567 Improved Signal-to-Noise Ratio in High-Resolution Diffusion-Weighted Imaging Offered by Center-out EPI
M. Shrestha, T. Mildner, T. Schlumm, H.E. Möller; Nuclear Magnetic Resonance (R&D Unit), Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig/GERMANY
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568 A new anisotropic multiple-fibre phantom for diffusion MRI
E. Farrher¹, A. Celik¹, F. Grinberg¹, N.J. Shah¹,²; ¹Institute of Neuroscience and Medicine – 4, Forschungszentrum Juelich GmbH, Juelich/GERMANY, ²Department of Neurology, Faculty of Medicine, RWTH Aachen University, JARA, Aachen/GERMANY
MEET THE AUTHOR in the EPOS™ Area at PC#11, on Oct. 5, 13:00–13:30

569 Probing micro-structural information using the CHARMED model in the non-myelinated human newborn brain at 3T
N. Kunz¹, H. Zhang², K. O’Brien³, Y. Assaf⁵, D. Alexander², F. Lazeyras⁴, P. Hüppi⁶; ¹Division of Child Growth & Development, University of Geneva, Genève/SWITZERLAND, ²Computer Science, University College London, London/UNITED KINGDOM, ³Advanced Clinical Imaging Technology, CIBM-Siemens Development group, University of Lausanne, Geneva and EPFL, Lausanne/SWITZERLAND, ⁴Radiology – CIBM, Geneva University Hospital, Genève/SWITZERLAND, ⁵Neurobiology, Tel Aviv University, Tel Aviv/ISRAEL, ⁶Division of Child Growth & Development, University of Geneva, Geneva/SWITZERLAND, ⁷Neurology, Geneva University Hospital, Genève/SWITZERLAND
MEET THE AUTHOR in the EPOS™ Area at PC#12, on Oct. 5, 13:00–13:30
Tumor cell migration as detected by microscopic 3D-DTI and two-photon microscopy in a novel mouse model of glioma.
MEET THE AUTHOR in the EPOS™ Area at PC#13, on Oct. 5, 13:00–13:30

White Matter Grid Tracking in Living Humans
C.M. Santos, R. Lavrador, N.F. Lori; IBILI, Faculty of Medicine – University of Coimbra, Coimbra/PORTUGAL
MEET THE AUTHOR in the EPOS™ Area at PC#14, on Oct. 5, 13:00–13:30

Detection of white matter fibers 2D planes in living humans using q-ball imaging
C.M. Santos, R. Lavrador, N.F. Lori; IBILI, Faculty of Medicine – University of Coimbra, Coimbra/PORTUGAL
MEET THE AUTHOR in the EPOS™ Area at PC#15, on Oct. 5, 13:00–13:30

Functional imaging (acquisition methods)

Turbulent Shear Stress Quantification using Phase Contrast MRI
C. Binter¹, V. Knobloch¹, A. Sigfridsson¹, S. Kozerke¹,²; ¹Institute for Biomedical Engineering, University and ETH Zürich, Zürich/SWITZERLAND, ²Division of Imaging Sciences and Biomedical Engineering, King’s College London, London/UNITED KINGDOM
MEET THE AUTHOR in the EPOS™ Area at PC#16, on Oct. 5, 13:00–13:30

Brain activity during bladder filling – synchronic study using fMRI and urodynamics
J. Tintera¹, J. Krhut², P. Holy³, P. Zvara³, R. Zachoval³; ¹ZRIR MR, IKEM, Prague/CZECH REPUBLIC, ²Department of Urology, University Hospital Ostrava, Ostrava/CZECH REPUBLIC, ³Department of Urology, Thomayer’s Hospital, Prague/CZECH REPUBLIC, ²Division of Urology, University of Vermont, Burlington/VT/UNITED STATES OF AMERICA
MEET THE AUTHOR in the EPOS™ Area at PC#17, on Oct. 5, 13:00–13:30

Functional imaging (data analysis)

ASL perfusion and structural MRI for computer aided diagnosis in dementia
M. Sousa¹, M. Silveira¹, P. Vilela², S. Nunes De Oliveira², P. Figueiredo¹; ¹Department of Bioengineering, Institute for Systems and Robotics/Instituto Superior Tecnico, Technical University of Lisbon, Lisbon/PORTUGAL, ²Imaging Department, Hospital da Luz, Lisboa/PORTUGAL
MEET THE AUTHOR in the EPOS™ Area at PC#18, on Oct. 5, 13:00–13:30
578 Correlation of SPECT and DCE-MRI in a neuroendocrine tumour model
K. Bol¹, J.C. Haeck², H.C. Groen³, W. Niessen¹, M.R. Bernsen⁴, M. De Jong⁵, J.F. Veenland¹; ¹Biomedical Imaging Group Rotterdam, Erasmus MC, Rotterdam/NETHERLANDS, ²Radiology, Erasmus MC, Rotterdam/NETHERLANDS, ³Nuclear Medicine, Erasmus MC, Rotterdam/NETHERLANDS, ⁴Radiology & Nuclear Medicine, Erasmus MC, Rotterdam/NETHERLANDS, ⁵Nuclear Medicine & Radiology, Erasmus MC, Rotterdam/NETHERLANDS
MEET THE AUTHOR in the EPOS™ Area at PC#3, on Oct. 4, 13:00–13:30

579 Comparing MELODIC and the conn toolbox and the impact of physiological artifact correction in resting state fMRI using DRIFTER
S. Bollmann¹, K. Payette¹, C. Ghisleni¹, S.S. Poil¹, R. O’Gorman¹, D. Brandeis², P. Klaver³, E. Martin¹; ¹Zentrum fuer MR Forschung, Kinderspital Zuerich, Zürich/SWITZERLAND, ²Department of Child and Adolescent Psychiatry, University of Zurich, Zürich/SWITZERLAND, ³Institute of Psychology, Division of Abnormal Psychology and Clinical Intervention, University of Zurich, Zürich/SWITZERLAND
MEET THE AUTHOR in the EPOS™ Area at PC#20, on Oct. 5, 13:00–13:30

580 FMRI oddball paradigm in the first-episode patients with schizophrenia
M. Ublinskiy¹, N. Semenova¹, I. Lebedeva², V. Kaleda², S. Sidorin³, A. Petryaykin¹, T. Akhadov³, A. Tyurneva¹; ¹Radiology, Children’s Clinical and Research Institute Emergency Surgery and Trauma, Moscow/RUSSIAN FEDERATION, ²Laboratory of neurophysiology, National Mental Health Research Center, Moscow/RUSSIAN FEDERATION, ³Radiology Department, Children’s Clinical and Research Institute of Emergency Surgery and Trauma, Moscow/RUSSIAN FEDERATION
MEET THE AUTHOR in the EPOS™ Area at PC#21, on Oct. 5, 13:00–13:30

581 Comparing PCA with model-free and compartment-model-based methods in DCE-MRI
K. Bol¹, L. Alic², J.C. Haeck³, M.R. Bernsen⁴, W. Niessen², J.F. Veenland²; ¹Biomedical Imaging Group Rotterdam, ErasmusMC, Rotterdam/NETHERLANDS, ²Biomedical Imaging Group Rotterdam, Erasmus MC, Rotterdam/NETHERLANDS, ³Radiology, Erasmus MC, Rotterdam/NETHERLANDS, ⁴Radiology & Nuclear Medicine, Erasmus MC, Rotterdam/NETHERLANDS
MEET THE AUTHOR in the EPOS™ Area at PC#22, on Oct. 5, 13:00–13:30

582 Volume definition in pancreatic cancer using Diffusion Weighted MRI and FDG PET
R. Haase¹, G. Wolf², T. Paulus³, C. Zimmermann⁴, R. Grützmann⁴, K. Zöphel⁵, N. Abolmaali²; ¹Biological and Molecular Imaging Group, OncoRay, TU Dresden, Dresden/GERMANY, ²Institut für Klinische Chemie und Labormedizin, University Hospital Carl Gustav Carus, TU Dresden, Dresden/GERMANY, ³Institute and Policlinic for Radiology, University Hospital Carl Gustav Carus, TU Dresden, Dresden/GERMANY, ⁴Klinik und Poliklinik für Viszeral-, Thorax- und Gefäßchirurgie, University Hospital Carl Gustav Carus, TU Dresden, Dresden/GERMANY, ⁵Clinic and Policlinic for Nuclear Medicine, University Hospital Carl Gustav Carus, TU Dresden, Dresden/GERMANY
MEET THE AUTHOR in the EPOS™ Area at PC#23, on Oct. 5, 13:00–13:30
583 EPI versus real-time fMRI autoregressive modeling
R. Mutihac¹, A. Braun², T. Balkin³; ¹Department of Physics, University of Bucharest, Bucharest/ROMANIA, ²Department of Intramural Research, NIH/ NIDCD, Bethesda/MD/UNITED STATES OF AMERICA, ³Psychiatry and Neuroscience, WRAIR, Silver Spring/MD/UNITED STATES OF AMERICA
MEET THE AUTHOR in the EPOS™ Area at PC#24, on Oct. 5, 13:00–13:30

584 Functional MR to monitoring cystic fibrosis (CF) lung disease
F. De Leo¹, S. Bertolo¹, P. Ciet², M. Ros³, G. Morana¹; ¹Radiology, Ca’ Foncello Hospital, Treviso/ITALY, ²of Radiology and Pediatrics Pulmonology, Erasmus-MC Rotterdam, Rotterdam/NETHERLANDS, ³Pediatrics, Ca’ Foncello, Treviso/ITALY
MEET THE AUTHOR in the EPOS™ Area at PC#25, on Oct. 5, 13:00–13:30

Head and Neck

585 Porous polyethylene reconstruction of orbital floor and roof defects- clinical and radiological evaluation
N.F. El Ameen¹, A.M. Mahrous², E.Z. Zahran³; ¹Radiology, El Minia univeristy hospital, El Minia/EGYPT, ²Plastic surgery unit, El Minia university, El Minia/EGYPT, ³Neurosurgery, El Minia university, El Minia/EGYPT
MEET THE AUTHOR in the EPOS™ Area at PC#26, on Oct. 5, 13:00–13:30

586 WITHDRAWN

Interventional – Safety, bioeffects

587 Spin-echo phase imaging allows differentiation between wattless and active currents in metallic needles surrounded by media with variable conductivity
F. Eibofner, H. Graf, F. Schick; Diagnostic and Interventional Radiology, University Hospital Tuebingen, Tübingen/GERMANY
MEET THE AUTHOR in the EPOS™ Area at PC#28, on Oct. 5, 13:00–13:30

588 Acoustic noise levels in an MR-conditional neonatal incubator during 3T MRI
D.L. Price¹, T. Burrows², G. Kendall³, E. Cady¹, N. Robertson³; ¹Medical Physics & Bioengineering, UCLH NHS Foundation Trust, London/UNITED KINGDOM, ²Dept Medical Physics & Bioengineering, UCLH NHS Foundation Trust, London/UNITED KINGDOM, ³Academic Neonatology, University College London, London/UNITED KINGDOM
MEET THE AUTHOR in the EPOS™ Area at PC#29, on Oct. 5, 13:00–13:30

589 13C spectroscopy in the human head at 7T: a feasibility study
A.W. Magill¹, ², E. Serés Roig¹, L. Xin¹,², M. Meyerspeer¹,³, R. Gruetter¹,²,⁴; ¹Laboratory for Functional and Metabolic Imaging, Ecole Polytechnique Fédérale de Lausanne, Lausanne/SWITZERLAND, ²Department of Radiology, University of Lausanne, Lausanne/SWITZERLAND, ³Center for Biomedical Engineering and Physics, MR Centre of Excellence, Vienna/AUSTRIA, ⁴Department of Radiology, University of Geneva, Geneva/SWITZERLAND
MEET THE AUTHOR in the EPOS™ Area at PC#1, on Oct. 5, 13:30–14:00
Interventional (including invasive MRA)

590 On exploiting the connectomics for thalamic nuclei localization: application of pattern recognition techniques
D. Bolis¹, A. Jakab², O. Goksel¹, G. Szekely¹; ¹Computer Vision Laboratory, ETH Zürich, Zürich/SWITZERLAND, ²Department of Biomedical Laboratory and Imaging Sciences, University of Debrecen, Debrecen/HUNGARY
MEET THE AUTHOR in the EPOS™ Area at PC#2, on Oct. 5, 13:30–14:00

591 Quantification of the targeting error in MRI-guided biopsy using Monte Carlo simulations
F. Galassi¹, D. Brujic¹, M. Rea², P. Ferreira¹, M. Ristic¹; ¹Mechanical Engineering, Imperial College, London/UNITED KINGDOM, ²Radiological Sciences Unit, NHS Trust, Imperial College London, London/UNITED KINGDOM
MEET THE AUTHOR in the EPOS™ Area at PC#3, on Oct. 5, 13:30–14:00

S.G. Nour¹, D.A. Kooby², C.A. Staley ³rd, H.D. Kitajima³, T.E. Powell³, M.A. Bowen³, A. Gowda⁴, B. Burrow⁵, W.C. Small⁶, W.E. Torres³; ¹Interventional MRI Program, Emory University Hospital, Atlanta/GA/UNITED STATES OF AMERICA, ²Surgical Oncology, Emory University Hospital, Atlanta/GA/UNITED STATES OF AMERICA, ³Radiology and Imaging Sciences, Emory University Hospital, Atlanta/GA/UNITED STATES OF AMERICA, ⁴Visualase Laser, Inc, Visualase Laser, Inc, Houston/TX/UNITED STATES OF AMERICA
MEET THE AUTHOR in the EPOS™ Area at PC#4, on Oct. 5, 13:30–14:00

593 Morphologic and metabolic changes in uterine fibroids after FUS treatment
Z. Ryznarova¹, M. Dezortova², D. Wagnerova², A. Skoch², Z. Fucikova³, M. Hajek⁴; ¹MR Unit, Dept. Diagnostic and Interventional Radiologz, Institute for Clinical and Experimentarl Medicine, Prague/CZECH REPUBLIC, ²MR-Unit, Dept. Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, ³Dept. Gynecology, Thomayer Hospital, Prague/CZECH REPUBLIC, ⁴MR-Unit, Dept. Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC
MEET THE AUTHOR in the EPOS™ Area at PC#5, on Oct. 5, 13:30–14:00
Magnets and gradients

594 Characterization of Concomitant fields of a PatLoc gradient coil
A.M. Welz1, H. Weber1, A. Dewdney2, F. Testud1, J. Korvink3, 4, J. Hennig1, M. Zaitsev4;
1Department of Radiology, Medical Physics, University Medical Center Freiburg, Freiburg i. Brsg./
GERMANY, 2Healthcare, Siemens, Erlangen/GERMANY, 3Freiburg Institute of Advanced Studies
(FRIAS), University Freiburg, Freiburg/GERMANY, 4Dept. of Microsystem Engineering, IMTEK,
University Freiburg, Freiburg/GERMANY
MEET THE AUTHOR in the EPOS™ Area at PC#6, on Oct. 5, 13:30–14:00

Microscopy

595 Toward in vivo functional neuroimaging of Aplysia using manganese enhanced MRI
G. Radecki1, I.O. Jelescu1, R. Nargeot2, D. Le Bihan3, L. Ciobanu1; 1I2BM NeuroSpin, CEA,
Gif-sur-Yvette/FRANCE, 2CNRS, Université Bordeaux 1, Bordeaux/FRANCE, 3DSV/I2BM/NeuroSpin,
CEA, Gif-sur-Yvette/FRANCE
MEET THE AUTHOR in the EPOS™ Area at PC#7, on Oct. 5, 13:30–14:00

596 Parameter selective MR-microimaging for non-invasive characterization of archaeological wet wood: A novel methodology for dendrochronology and a new approach in conservation science to assess wood species and condition?
A. Berg1, R. Fürhacker2, A.-K. Klatz2, M. Grabner3; 1Center for Medical Physics and Biomedical
Engineering, MR Center of Excellence – Medical University Vienna, Vienna/AUSTRIA, 2n/a, Fürhacker
& Klatz GesmbH, Gutenberg an der Raabklamm/AUSTRIA, 3Institute of Wood Science and Technology,
University of Natural Resources and Life Sciences, Vienna, Tulln/AUSTRIA
MEET THE AUTHOR in the EPOS™ Area at PC#8, on Oct. 5, 13:30–14:00

597 Ex vivo Assessment of Skin Hydration by High Resolution 2.35 T MRI
A. Galante1, 2, A. Rosa2, M. Alecci1, 2; 1Laboratori Nazionale Gran Sasso, INFN-LNGS, L’Aquila/
ITALY, 2Dipartimento di scienze della salute, Universita’ dell’Aquila, L’Aquila/ITALY
MEET THE AUTHOR in the EPOS™ Area at PC#9, on Oct. 5, 13:30–14:00

598 High-field high-resolution and microscopic T2-maps of a cartilage repair sheep model on a 7T human scanner: first results
J. Friske1, A. Berg2, G.H. Welsch1, 3, M. Pachowsky1, 3, K. Gelse4, S. Trattnig4; 1Department
of Radiology, MR Center of Excellence – Medical University of Vienna, Vienna/AUSTRIA, 2Center for
Medical Physics and Biomedical Engineering, MR Center of Excellence – Medical University Vienna,
Vienna/AUSTRIA, 3Department of Traumatic Surgery, Friedrich-Alexander Universität Erlangen-
Nuremberg, Erlangen/GERMANY, 4MR Centre of Excellence, Department of Radiology, Medical
University of Vienna, Vienna/AUSTRIA
MEET THE AUTHOR in the EPOS™ Area at PC#10, on Oct. 5, 13:30–14:00

Molecular and cellular imaging

599 Non-invasive iron quantification of magnetically labeled cells using Electron Paramagnetic Resonance
A. Ketkar- Atre1, P. Vaes2, J. Trekker1, S. Sharma1, S. Teughels2, U. Himmelreich1;
1Department of Diagnostic and Pathology, KU Leuven, Leuven/BELGIUM, 2Pepric NV, Pepric NV,
Leuven/BELGIUM
MEET THE AUTHOR in the EPOS™ Area at PC#11, on Oct. 5, 13:30–14:00
600 New gadolinium particles for high efficiency in MR-cell detection
P. Mowat¹, A. Mignot¹, W. Rima², R. Di Corato², C. Wilhelm⁴, S. Laurent⁵, L. Vander Elst⁶, R.N. Muller⁶, C. Louis⁶, P. Perriat², L. Sancey¹, F. Lux¹, O. Tillement¹; ¹LPCML, LPCM L CNRS UMR 5620 – University Lyon 1, Villeurbanne/France, ²MATEIS CNRS UMR 5510, INSA-Lyon, Villeurbanne/France, ³CNRS UMR 7057, University Paris Diderot, Paris/France, ⁴CNRS UMR 7057, University Paris Diderot, Paris/France, ⁵NMR and Molecular Imaging Laboratory, University of Mons, Mons/Belgium, ⁶Nano-H SAS, Nano-H SAS, Saint-Quentin Fallavier/France
MEET THE AUTHOR in the EPOS™ Area at PC#12, on Oct. 5, 13:30–14:00

601 Two Approaches to Stem Cell Magnetic Resonance Imaging: Advantages and Limitations
L. Ostrovska; The Russell H. Morgan Department of Radiology and Radiological Science, The Johns Hopkins University School of Medicine, Baltimore/MD/United States of America
MEET THE AUTHOR in the EPOS™ Area at PC#13, on Oct. 5, 13:30–14:00

602 Ferromagnetic nanoparticles for MR imaging and hyperthermic ablation
V. Herynek¹, P. Jendelová², E. Pollert³, K. Turnovcová², P. Veverka³, D. Jirak¹, M. Burian¹, M. Hajek¹, E. Syková²; ¹MR-Unit, Department of Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/Czech Republic, ²Department of Neuroscience, Institute of Experimental Medicine ASCR, Prague/Czech Republic, ³Department of Magnetics and Superconductors, Institute of Physics ASCR, Prague/Czech Republic, ⁴MR-Unit, Department of Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/Czech Republic
MEET THE AUTHOR in the EPOS™ Area at PC#14, on Oct. 5, 13:30–14:00

603 MRI artifacts in the ferric chloride thrombus animal model: an alternative solution
M. Wolters¹, ², R.H.M. Hoof¹, ², K. Douma², ³, M.A.M.J. Van Zandvoort², ³, T.M. Hackeng², ⁴, M.J. Post², ⁵, W.H. Backes¹, ², M.E. Kooi¹, ²; ¹Department of Radiology, Maastricht University Medical Center (MUMC+), Maastricht/Netherlands, ²Cardiovascular Research Institute Maastricht (CARIM), Maastricht University Medical Center (MUMC+), Maastricht/Netherlands, ³Department of Biomedical Engineering, Maastricht University Medical Centre (MUMC+), Maastricht/Netherlands, ⁴Department of Biochemistry, Maastricht University Medical Centre (MUMC+), Maastricht/Netherlands, ⁵Department of Physiology, Maastricht University Medical Centre (MUMC+), Maastricht/Netherlands
MEET THE AUTHOR in the EPOS™ Area at PC#15, on Oct. 5, 13:30–14:00
Evaluating the effect of ultra small superparamagnetic iron oxide nanoparticles for long-term magnetic cell labeling
S. Shanehsazzadeh¹, M.A. Oghabian¹, B.J. Allen², M. Amanlou³, A. Masoudi⁴, F. Johari Daha⁵; ¹Emam Hospital, Research Center for Sciences and Technology in Medicine, 14197/IRAN, ²St George Hospital, Centre for Experimental Radiation Oncology, NSW Sydney/AUSTRALIA, ³Faculty of Pharmacy and Drug Design and Development Research Center, Tehran University of Medical Sciences, Department of Medicinal Chemistry, 14197/IRAN, ⁴Sharif University of Technology, Department of Materials Science and Engineering, Tehran/IRAN, ⁵Nuclear Research Center, Radioisotope Division, Tehran/IRAN

The use of Apoferritin for the MRI guided delivery of curcumin for the treatment of acute hepatitis.
S. Geninatti Crich¹, J.C. Cutrin², D. Burghelea¹, S. Aime¹; ¹Dipartimento di Chimica & Centro di Imaging Molecolare, Univ. Torino, Torino/ITALY, ²Clinical and Biological Sciences, ININCA-CONICET, Torino/ITALY

Imaging pathogens by MR: Distribution of SPIO-labeled parasitic protozoan Entamoeba histolytica in the liver of a mouse model at 7T
T.M. Ernst¹, H. Bernin², E. Helk², M. Zaruba², M.G. Kau³, G. Adam¹, H. Lotter², H. Ittrich¹; ¹Department for Diagnostic and Interventional Radiology, University Medical Center Hamburg-Eppendorf, Hamburg/GERMANY, ²Molecular Parasitology Department, Bernhard Nocht Institute for Tropical Medicine, Hamburg/GERMANY, ³Department of Diagnostic and Interventional Radiology, University Medical Center Hamburg-Eppendorf, Hamburg/GERMANY

Amphiphilic Mn(II) complexes for incorporation into nanosized lipidic systems for MRI applications
G.A. Rolla¹, L. Tei¹, M. Botta¹, L.W.E. Starmans², G.B. Giovenzana³, V. De Biasio³, G. Mulas⁴, E. Terreno²; ¹DiSIT, Università del Piemonte Orientale “Amedeo Avogadro", Alessandria/ITALY, ²Department of Biomedical Engineering, Eindhoven University of Technology, Eindhoven/NETHERLANDS, ³Dipartimento di Scienze del Farmaco, Università del Piemonte Orientale “Amedeo Avogadro", Novara/ITALY, ⁴-, Porto Conte Ricerche Srl, Alghero/ITALY, ⁵Chemistry-University of Turin, Molecular Imaging Center, Torino/ITALY

The study of stimulus correlated motion fMRI artifacts using the computer controlled motion inducing device.
L. Budinsky¹, L.C. Konerth², A. Hess²; ¹MRI lab., Institute of Pharmacology FAU, Erlangen/GERMANY, ²Experimental and Clinical Pharmacology and Toxicology, University of Erlangen Nuremberg, Erlangen/GERMANY

The need for quality testing of multi-channel phased array coils
W. Nordhøy, T.E.D. Orheim; The Intervention Centre, Oslo University Hospital, Oslo/NORWAY

Motion, artefacts, quality control

The study of stimulus correlated motion fMRI artifacts using the computer controlled motion inducing device.
L. Budinsky¹, L.C. Konerth², A. Hess²; ¹MRI lab., Institute of Pharmacology FAU, Erlangen/GERMANY, ²Experimental and Clinical Pharmacology and Toxicology, University of Erlangen Nuremberg, Erlangen/GERMANY

The need for quality testing of multi-channel phased array coils
W. Nordhøy, T.E.D. Orheim; The Intervention Centre, Oslo University Hospital, Oslo/NORWAY
Musculoskeletal

610 Comparison of spinal cord markers on Magnetic Resonance Imaging (MRI) with surgical findings for accurate detection of intracanalicular space occupying lesions

M. Goldust; Student research committee, Tabriz university of medical sciences, Tabriz/IRAN
MEET THE AUTHOR in the EPOS™ Area at PC#22, on Oct. 5, 13:30–14:00

611 Optimizing the lesion-to-bone-marrow contrast of diffusion-weighted steady-state free-precession (DW-SSFP) acquisitions of the spine

O. Dietrich¹, A. Biffar¹, A. Baur-Melnyk², G. Schmidt², M. Reiser³; ¹Josef Lissner Laboratory for Biomedical Imaging, Institute for Clinical Radiology, Ludwig-Maximilians-University Hospital Munich, Munich/GERMANY, ²Institute for Clinical Radiology, Ludwig-Maximilians-University Hospital Munich, Munich/GERMANY
MEET THE AUTHOR in the EPOS™ Area at PC#23, on Oct. 5, 13:30–14:00

612 WITHDRAWN

613 Bilateral Magnetic Resonance Imaging of the Hand and Wrist in Early and Very Early Inflammatory Arthritis: Tenosynovitis is Associated with Progression to Rheumatoid Arthritis

M. Navalho¹, ², A.M. Rodrigues², J.E. Fonseca², H. Canhao²; ¹Radiology, Hospital dos Lusíadas, Lisboa/PORTUGAL, ²Rheumatology Research Unit, Instituto de Medicina Molecular, Lisboa/PORTUGAL
MEET THE AUTHOR in the EPOS™ Area at PC#25, on Oct. 5, 13:30–14:00

614 Quantitative Assessment of Fat Infiltration using MRI and correlation with clinical symptoms in the Rotator Cuff Muscles of the shoulder.

L. Nardo¹, D. Karampinos¹, J. Carballido-Gamio¹, D. Lansdown², H. Misung³, B. Ma², R. Maroldi⁴, T.M. Link¹, R. Krug³, A. Lai³; ¹Radiology, University of California San Francisco, San Francisco/CA/UNITED STATES OF AMERICA, ²Orthopedic Surgery, UCSF, San Francisco/UNITED STATES OF AMERICA, ³Radiology, UCSF, San Francisco/UNITED STATES OF AMERICA, ⁴Radiology, University Of Brixia, Brescia/ITALY
MEET THE AUTHOR in the EPOS™ Area at PC#26, on Oct. 5, 13:30–14:00

615 DTI of the lumbar multifidus in subjects with and without symptoms of low back pain at 3T

G.E. Jones¹, M.D. Noseworthy¹, ², ³, D.A. Kumbhare¹, ⁴; ¹School of Biomedical Engineering, McMaster University, Hamilton/ON/CANADA, ²Electrical and Computer Engineering, McMaster University, Hamilton/ON/CANADA, ³Medical Physics and Applied Radiology Sciences, McMaster University, Hamilton/ON/CANADA, ⁴Physical Rehabilitation, McMaster University, Hamilton/ON/CANADA
MEET THE AUTHOR in the EPOS™ Area at PC#27, on Oct. 5, 13:30–14:00
Magnetic resonance imaging in acute ankle inversion injuries

I.S. Pashnikova, I.G. Pchelin, G.E. Trufanov; The Roentgenology and Radiology, The Kirov Military Medical Academy, St. Petersburg/RUSSIAN FEDERATION

MEET THE AUTHOR in the EPOSTM Area at PC#28, on Oct. 5, 13:30–14:00

Muscle ‘mitochondrial capacity’ inferred from 31P MRS recovery kinetics compared with published invasive maximal-exercise measurements: implications for systems physiology

E.A. Ahmad1, 2, G.J. Kemp1, 2; 1MARIARC, University of Liverpool, Liverpool/UNITED KINGDOM, 2Department of Musculoskeletal Biology, University of Liverpool, Liverpool/UNITED KINGDOM

MEET THE AUTHOR in the EPOSTM Area at PC#29, on Oct. 5, 13:30–14:00

ATP turnover and the coupling of mitochondrial oxidative phosphorylation during dynamic exercise in humans: a study combining skeletal muscle 31P MRS and breath-by-breath gas exchange measurements

D.T. Cannon1, 2, T.S. Bowen1, S.R. Murgatroyd1, W.E. Bimson3, H.B. Rossiter1, 4, G.J. Kemp5; 1Institute of Membrane and Systems Biology, University of Leeds, Leeds/UNITED KINGDOM, 2Division of Respiratory & Critical Care Physiology & Medicine, Los Angeles Biomedical Research Institute at Harbor-UCLA Medical Center, Torrance/CA/UNITED STATES OF AMERICA, 3MARIARC, University of Liverpool, Liverpool/UNITED KINGDOM, 4Division of Respiratory & Critical Care Physiology & Medicine, Los Angeles Biomedical Research Institute at Harbor-UCLA Medical Center, Torrance/CA/UNITED STATES OF AMERICA, 5Department of Musculoskeletal Biology, University of Liverpool, Liverpool/UNITED KINGDOM

MEET THE AUTHOR in the EPOSTM Area at PC#1, on Oct. 6, 12:30–13:00

An alkaline Pi pool and other possible markers of Duchenne Muscle Dystrophy by 31P NMR spectroscopy of forearm at rest.

C. Wary1, 2, N. Azzabou1, 2, B. Matot1, 2, J.-Y. Hogrel1, L. Servais3, T. Voit4, P.G. Carlier1, 2; 1IdM NMR Laboratory, CEA, PBM, MIRCen, Paris/FRANCE, 2NMR Laboratory, Institute of Myology AIM CEA, Paris/FRANCE, 3Institute of Myology, AIM, Paris/FRANCE, 4Institute of Myology, UM76-UPMC/U974-Inserm/UMR7215-CNRS, Paris/FRANCE

MEET THE AUTHOR in the EPOSTM Area at PC#2, on Oct. 6, 12:30–13:00

Clinical Applications – Other

Advanced imaging processing supporting clinical practice: a description of an experience

A. Moscato1, M. Minella1, N. Colombo2, F. Cardinale3, A. Torresin1; 1Medical Physics, Niguarda Ca’ Granda Hospital, Milano/ITALY, 2Neuroradiology, Niguarda Ca’ Granda Hospital, Milano/ITALY, 3Epilepsy Surgery, Niguarda Ca’ Granda Hospital, Milano/ITALY

MEET THE AUTHOR in the EPOSTM Area at PC#3, on Oct. 6, 12:30–13:00

Preclinical Studies & Basic Science – Other

NMR-analysis of different galactocerebrosides in pig brain

S. Acikgöz, D. Leibfritz; Institute for Organic Chemistry, AK Leibfritz, University of Bremen, Bremen/GERMANY

MEET THE AUTHOR in the EPOSTM Area at PC#4, on Oct. 6, 12:30–13:00
622 Blood serum demonstrates antioxidantive mechanism: a Magnetic Resonance Relaxation Study
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MEET THE AUTHOR in the EPOS™ Area at PC#5, on Oct. 6, 12:30–13:00

623 WITHDRAWN

624 Imaging cold activated brown adipose tissue using functional MRI and 18F-FDG PET
B.D. Van Rooijen¹, A.A.J.J. Van Der Lans², B. Brans³, J.E. Wildberger², F.M. Mothagy³, P. Schrauwen², W.H. Backes¹, W.D. Van Marken Lichtenbelt²; ¹Radiology, Maastricht University Medical Center, Maastricht/NETHERLANDS, ²Human Biology, Maastricht University, Maastricht/NETHERLANDS, ³Nuclear Medicine, Maastricht University Medical Center, Maastricht/NETHERLANDS
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625 B1 improvement for travelling MRI using a parallel-plate waveguide at 3T
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626 A phantom based validation framework for EEG-fMRI acquisition methods
M. Andersen, L.G. Hanson; Danish Research Center for MR, Copenhagen University Hospital Hvidovre, Hvidovre/DENMARK
MEET THE AUTHOR in the EPOS™ Area at PC#9, on Oct. 6, 12:30–13:00

627 The effects of a finite RF transmit bandwidth on low-flip pTx pulse design
R. Gumbrecht¹,², H.-P. Fautz¹; ¹Healthcare MR, Siemens AG, Erlangen/GERMANY, ²Department of Physics, Friedrich-Alexander-University, Erlangen/GERMANY
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628 Validation of temperature monitoring for MRI-guided HIFU therapy on ex-vivo model
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629 Does the amygdala responds stronger to snakes appearing in the periphery? A fMRI study on visual detection systems.
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MEET THE AUTHOR in the EPOS™ Area at PC#12, on Oct. 6, 12:30–13:00
Paediatric

630 Central nervous system of children exposed to alcohol during the prenatal life.
A. Urbanik, M. Nardzewska-Szczepeanik, P. Karcz, J. Kozub, T. Jadczak-Szumiło;
Radiology, Jagiellonian University Collegium Medicum, Kraków/POLAND
MEET THE AUTHOR in the EPOS™ Area at PC#13, on Oct. 6, 12:30–13:00

631 Pixel-by-pixel analysis of DCE-MRI curve shapes in knees of juvenile idiopathic arthritis patients
R. Hemke1, C. Lavini1, M. Van Rossum2,3, C. Nusman1, M. Van Den Berg2,3, D. Schonenberg2, K. Dolman3,4, T. Kuijpers2, M. Maas1; 1Department of Radiology, Academic Medical Center, Amsterdam/NETHERLANDS, 2Department of Pediatric Rheumatology, Emma Children’s Hospital AMC, Amsterdam/NETHERLANDS, 3Department of Pediatric Rheumatology, Reade, Amsterdam/NETHERLANDS, 4Department of Pediatric Rheumatology, St. Lucas Andreas Hospital, Amsterdam/NETHERLANDS
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632 Magnetic Resonance Imaging in Pediatric Acute Hip Pain
M.R. Matos1, J. Raposo2, P. Alves2, R. Carneiro1, R.M. Marques2; 1Radiology, Hospital Dona Estefânia – Centro Hospitalar Lisboa Central, Lisboa/PORTUGAL, 2Radiology, Hospital São José – Centro Hospitalar Lisboa Central, Lisboa/PORTUGAL
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Pelvis, GU

633 Pelvic floor atrophy assessment using a 2-point Dixon technique to measure muscle fat fraction
D.L. Price1, D. Patel2, S.A. Taylor3, S. Halligan3, P. Lally1, A. Bainbridge1, E.B. Cady1, A. Emmanuel2; 1Medical Physics & Bioengineering, UCLH NHS Foundation Trust, London/UNITED KINGDOM, 2Department of Gastrointestinal Physiology, UCLH NHS Foundation Trust, London/UNITED KINGDOM, 3Department of Radiology, UCLH NHS Foundation Trust, London/UNITED KINGDOM
MEET THE AUTHOR in the EPOS™ Area at PC#16, on Oct. 6, 12:30–13:00

Perfused organs, biopsies, cells, fluids and extracts

634 Assessment of cell growth in biomaterial scaffolds designed for tissue engineering by means of magnetic resonance microscopy
J.M. Morales1, D. Monleón2, M. Salmerón-Sánchez3, D. Moratal3; 1Laboratorio Imagen Molecular y Metabolomica, Universitat de València UCIM, Valencia/SPAIN, 2Laboratorio Imagen Molecular y Metabolomica, Fundación para la Investigación del Hospital Clínico Universitario de Valencia, Valencia/SPAIN, 3Center for Biomaterials and Tissue Engineering, Universitat Politècnica de València, Valencia/SPAIN
MEET THE AUTHOR in the EPOS™ Area at PC#17, on Oct. 6, 12:30–13:00

635 Long life NMR metabolomics study of aging in mice
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MEET THE AUTHOR in the EPOS™ Area at PC#18, on Oct. 6, 12:30–13:00
636 NMR Metabolic Profiling In Blood from Umbilical Cords of Low Birth Weight Newborns
D. Monleón¹, J.M. Morales², V. Gonzalez-Marracchelli¹, C. Ivorra³, E. Lurbe³; ¹Laboratorio Imagen Molecular y Metabolomica, Fundación para la Investigación del Hospital Clínico Universitario de Valencia, Valencia/SPAIN, ²Unidad Central de Investigacion en Medicina, Universidad de Valencia, Valencia/SPAIN, ³Servicio de Pediatria, Hospital General Universitario de Valencia, Valencia/SPAIN
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637 Demyelination in epilepsy: MR tractography
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MEET THE AUTHOR in the EPOS™ Area at PC#20, on Oct. 6, 12:30–13:00

638 Differentiation of superficial (SSCAT) and deep subcutaneous adipose tissue (DSCAT) in a cohort at increased risk for type 2 diabetes – a retrospective cross-sectional analysis
J. Machann¹, J. Lang², N. Stefan³, H.-U. Häring⁴, C. Claussen⁵, A. Fritsche⁴, F. Schick⁶; ¹Section on Experimental Radiology, Institute for Diabetes Research and Metabolic Diseases (IDM) – Metabolic Imaging – of the Helmholtz Center Munich at the University of Tübingen, Tübingen/ GERMANY, ²Section on Experimental Radiology, University Hospital Tübingen, Tübingen/GERMANY, ³Department of Internal Medicine, Division of Endocrinology, Diabetology, Angiology, Nephrology and Clinical Chemistry, University Hospital Tübingen, Tübingen/GERMANY, ⁴Department of Endocrinology and Diabetology, Angiology, Nephrology and Clinical Chemistry, University Hospital Tübingen, Tübingen/GERMANY, ⁵Department of Diagnostic and Interventional Radiology, University Hospital Tübingen, Tübingen/GERMANY, ⁶Section on Experimental Radiology, Department of Diagnostic and Interventional Radiology, University Hospital Tübingen, Tübingen/GERMANY
MEET THE AUTHOR in the EPOS™ Area at PC#21, on Oct. 6, 12:30–13:00

639 A Multiple Classification System for classification of breast lesions using dynamic and morphological features in DCE-MRI
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MEET THE AUTHOR in the EPOS™ Area at PC#22, on Oct. 6, 12:30–13:00

640 Discrete algebraic reconstruction in MRI: a simulation study
Q. Collier, H. Segers, J. Sijbers; Physics: IBBT-Vision Lab, University of Antwerp, Antwerp/ BELGIUM
MEET THE AUTHOR in the EPOS™ Area at PC#23, on Oct. 6, 12:30–13:00
641 A New Compressed Sensing Technique by Iterative Truncation of Small Transformed Coefficients
C.B. Ahn; Electrical Engineering, Kwangwoon University, Seoul/KOREA
MEET THE AUTHOR in the EPOS™ Area at PC#24, on Oct. 6, 12:30–13:00

642 Variable Flip Angle T1 Mapping with Dixon Fat Suppression: Preliminary Study
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MEET THE AUTHOR in the EPOS™ Area at PC#25, on Oct. 6, 12:30–13:00

643 Modelling of Contrast Changes in Soft Tissue Hematomas
B. Neumayer1, E.M. Hassler2, T. Widek1, A. Petrovic3, E. Scheurer1; 1Clinical Forensic Imaging, Ludwig Boltzmann Institute, Graz/AUSTRIA, 2Ludwig Boltzmann Institute for Clinical Forensic Imaging, Graz/AUSTRIA, 3Institute of Medical Engineering, Graz University of Technology, Graz/AUSTRIA
MEET THE AUTHOR in the EPOS™ Area at PC#26, on Oct. 6, 12:30–13:00

644 Geometric and Intensity EPI Distortion Correction for 7T fMRI Using Simultaneous Classification and Registration
H. Lu1, W. Van Der Zwaag2, L.-P. Nolte1, M. Reyes1; 1Institute for surgical technology and biomechanics, University of Bern, Bern/SWITZERLAND, 2CIBM-LIFMET, École Polytechnique Fédérale de Lausanne, Lausanne/SWITZERLAND
MEET THE AUTHOR in the EPOS™ Area at PC#27, on Oct. 6, 12:30–13:00

645 Ex vivo measurements of sodium T1 and T2* relaxation times in human lumbar spine discs at 7 Tesla using vTE-GRE sequence
S. Zbyn1, S. Apprich1, V. Juras1, S. Walzer2, X. Deligianni3, O. Bieri3, S. Trattnig1; 1MR Centre-Highfield MR, Department of Radiology, Medical University of Vienna/Vienna General Hospital, Vienna/AUSTRIA, 2Department of Orthopedic Surgery, Medical University of Vienna/Vienna General Hospital, Vienna/AUSTRIA, 3Division of Radiological Physics – Department of Radiology and Nuclear Medicine, University of Basel Hospital, Basel/SWITZERLAND
MEET THE AUTHOR in the EPOS™ Area at PC#28, on Oct. 6, 12:30–13:00

646 A comparison of cortical thickness determination at 3T and 7T of the human brain using high resolution data
F. Lüsebrink, A. Wollrab, O. Speck; Biomedical Magnetic Resonance, Otto-von-Guericke University Magdeburg, Germany, Magdeburg/GERMANY
MEET THE AUTHOR in the EPOS™ Area at PC#29, on Oct. 6, 12:30–13:00

647 Principle component analysis of textural features based on contrast-enhanced MR images of liver with acute hepatitis in murine model.
K. Byk1, K. Jablonski1,2, W. Szczepanski2, B. Tomanek1,4, T. Skorka1; 1Department of Magnetic Resonance Imaging, Institute of Nuclear Physics PAN, Krakow/POLAND, 2Chair of Gastroenterology, Hepatology and Infectious Diseases, Jagiellonian University Medical College, Krakow/Poland, 3Chair of Pathomorphology, Jagiellonian University Medical College, Krakow/POLAND, 4Institute for Biodiagnostics, National Research Council, Calgary/Canada
MEET THE AUTHOR in the EPOS™ Area at PC#1, on Oct. 6, 13:00–13:30
648 A New Method for Receiver Profile Correction for Quantitative Proton Density Mapping

S. Volz1, U. Noeth1, A. Jurcoane2, U. Ziemann3, E. Hattingen2, R. Deichmann1;
1Brain Imaging Center (BIC), University of Frankfurt, Frankfurt/Main/GERMANY, 2Department of Neuroradiology, University Frankfurt, Frankfurt/Main/GERMANY, 3Department of Neurology, University Frankfurt, Frankfurt/Main/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#2, on Oct. 6, 13:00–13:30

649 A quantitative analysis of glioma response to antiangiogenic therapy using intelligent image processing


MEET THE AUTHOR in the EPOS™ Area at PC#3, on Oct. 6, 13:00–13:30

650 Volumetric Reconstruction of Post Mortem Human Brain Histological Sections using 7T MRI Volume as Guidance

S. Yang1, Z. Yang2, D. Reutens2, O. Speck1, M. Walter3; 1Biomedical Magnetic Resonance, Otto-von-Guericke-University, Magdeburg/GERMANY, 2the University of Queensland, Centre for Advanced Imaging, Brisbane/QLD/AUSTRALIA, 3Clinical Affective Neuroimaging Laboratory, University of Magdeburg, Magdeburg/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#4, on Oct. 6, 13:00–13:30

651 Correction of geometrical distortion in EPI sequences through a radial basis function expansion

R. Sghedoni1, M. Foracchia2, A. Nitrosi1, M. Iori1; 1Medical Physics Department, Arcispedale Santa Maria Nuova, Istituto di Ricoovero e Cura a Carattere Scientifico, Reggio Emilia/ITALY, 2Information Technology Department, Arcispedale Santa Maria Nuova, Istituto di Ricoovero e Cura a Carattere Scientifico, Reggio Emilia/ITALY

MEET THE AUTHOR in the EPOS™ Area at PC#5, on Oct. 6, 13:00–13:30

652 The comparison of mono- and bi-exponential fitting for T2* calculation of Achilles tendon using variable-echo-time sequence

V. Juras1, X. Deligianni2, S. Apprich3, O. Bieri4, S. Zbyn3, I. Frollo5, S. Trattnig6; 1MR Centre-Highfield MR, Department of Radiology, Medical University of Vienna/Vienna General Hospital, Vienna/AUSTRIA, 2Division of Radiological Physics – Department of Radiology and Nuclear Medicine, University of Basel Hospital, Basel/SWITZERLAND, 3MR Centre of Excellence, Medical University of Vienna, Vienna/AUSTRIA, 4Department of Radiology and Nuclear Medicine, Division of Radiological Physics, University of Basel Hospital, Basel/SWITZERLAND, 5Department of Imaging Methods, Institute of Measurement Science, Bratislava/SLOVAK REPUBLIC, 6Department of Radiology, MR Center of Excellence, Medical University of Vienna, Vienna/AUSTRIA

MEET THE AUTHOR in the EPOS™ Area at PC#6, on Oct. 6, 13:00–13:30
653 Comparison of quantitative and semi-quantitative cerebral distribution volume values from DCE- and DSC-based perfusion in glioblastoma multiforme.
M.I. Dujardin¹, M. Lowry², S. Sourbron³, Y. Fierens⁴, B. Neyns⁵, L. Turnbull¹;¹ Center for Magnetic Resonance Investigations, University of Hull in association with Hull York Medical School, Hull/UNITED KINGDOM, ²Centre for Magnetic Resonance Investigations, University of Hull in association with HYMS, Hull/UNITED KINGDOM, ³Division of Medical Physics, University of Leeds, Leeds/UNITED KINGDOM, ⁴Radiologie/Befy, UZBrussel, Brussels/BELGIUM, ⁵Medical Oncology, UZBrussel, Brussels/BELGIUM
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654 Combining fiber-tracking parameters with functional information into effective connectivity models
G. Garcia Marti¹, J. Sanjuan², L. Marti-Bonmati³;¹Neuroimaging, CIBERSAM, Valencia/SPAIN, ²Psychiatry, CIBERSAM, Valencia/SPAIN, ³Radiology, Universitat de Valencia, Valencia/SPAIN
MEET THE AUTHOR in the EPOS™ Area at PC#8, on Oct. 6, 13:00–13:30

655 A Novel Image Processing Pipeline for Quantitative Magnetic Resonance Elastography (MRE): Application in Dynamic Studies of Human Thigh Muscles
E. Barnhill¹, P. Kennedy¹, C. Brown², N. Roberts¹;¹Clinical Research Imaging Centre, The University of Edinburgh, Edinburgh/UNITED KINGDOM, ²Research and Development, The Mentholatum Company, Glasgow/UNITED KINGDOM
MEET THE AUTHOR in the EPOS™ Area at PC#9, on Oct. 6, 13:00–13:30

656 Model-based Magnetization Transfer Imaging Parameters and their impact on the differentiation of age matched MCI, Alzheimer and healthy patients
C. Kiefer, Y. Burren, M. Hauf, G. Schroth, J. Pruessner, M. Zbinden, K. Cattapan-Ludewig, R. Wiest; Institute of Diagnostic and Interventional Neuroradiology, Support Center for Advanced Neuroimaging (SCAN), University Hospital Bern, Bern/SWITZERLAND
MEET THE AUTHOR in the EPOS™ Area at PC#2, on Oct. 4, 12:30–13:00

657 A TGV-Rician based denoising model for DTI
A. Martin¹, ², J.A. Hernández-Tamames¹, ², E. Schiavi², ³;¹Electronical Technology, Universidad Rey Juan Carlos, Móstoles/SPAIN, ²Neuroimaging Lab., Center for Biomedical Technology, Pozuelo de Alarcón/SPAIN, ³Applied Mathematics, Universidad Rey Juan Carlos, Móstoles/SPAIN
MEET THE AUTHOR in the EPOS™ Area at PC#11, on Oct. 6, 13:00–13:30

658 A reference free approach for the comparative evaluation of eight segmentation methods for the estimation of the left ventricular ejection fraction in cardiac MRI.
A. Lalande¹, J. Leubenberg², ³, I. Buvat⁴, P. Clarysse⁵, C. Casta⁶, A. Cochet⁷, C. Constantinièse², ³, J. Cousty⁶, A. De Cesare², S. Jehan-Besson⁷, M. Lefort⁶, L. Najman⁶, E. Roullot³, L. Sarry⁶, C. Tilmant³, M. Garreau¹, F. Frouin²;¹LE2I (UMR CNRS 6306), University of Burgundy, Dijon/FRANCE, ²Laboratoire d’Imagerie Fonctionnelle, Inserm/UPMC, Paris/FRANCE, ³PRIAM, ESME-Sudria, Ivry sur Seine/FRANCE, ⁴IMNC (CNRS UMR 8165), Université de Paris Sud, Orsay/FRANCE, ⁵CREATIS (CNRS UMR 5220), Université de Lyon, Lyon/FRANCE, ⁶LIGM-A3SI (UMR 8049), Université de Paris Est, Marne la Vallée/FRANCE, ⁷LIMOS (CNRS UMR 6158), LIMOS, Aubière/FRANCE, ⁸ISIT (CNRS UMR 6284), Université d’Auvergne, Clermont-Ferrand/FRANCE, ⁹Institut Pasteur (CNRS UMR 6602), Université Blaise Pascal, Clermont-Ferrand/FRANCE, ¹⁰LSI (INSERM UMR 1099), Université Rennes 1, Rennes/FRANCE
MEET THE AUTHOR in the EPOS™ Area at PC#12, on Oct. 6, 13:00–13:30
659 Intra-CardiomyoCellular Lipid (ICCL) Levels Change in Healthy Lean Subjects During the Day and Between Days as Observed by In-Vivo 1H-MR Spectroscopy
R. Kreis¹, C. Stettler², J. Xu³, C. Boesch¹, M. Ith⁴; ‘Depts of Clinical Research & Radiology, University Bern, Bern/SWITZERLAND, ²Division of Endocrinology, Diabetes & University Bern, Bern/SWITZERLAND, ³-, Siemens Medical Solutions USA, New York/NY/UNITED STATES OF AMERICA, ⁴Institute of Diagnostic Interventional and Pediatric Radiology, University Bern, Bern/SWITZERLAND
MEET THE AUTHOR in the EPOS™ Area at PC#13, on Oct. 6, 13:00–13:30

660 Production of acetylcarnitine and utilization of IMCL at different exercise intensities – A pilot-study applying SVS and MRSI
A. Boss¹, R. Kreis¹, T. Züger², J. Bucher², C. Stettler³, C. Boesch¹, P. Vermathen¹; ‘Depts of Clinical Research & Radiology, University of Bern, Bern/SWITZERLAND, ²Division of Endocrinology, Diabetes and Clinical Nutrition, University Hospital and University of Bern, Bern/SWITZERLAND, ³Division of Endocrinology, Diabetes & University Bern, Bern/SWITZERLAND
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661 Post-exercise intramyocellular acetylcarnitine levels in endurance trained and sedentary subjects measured with 1H-MRS
L. Lindeboom¹,², B.M.W. Brouwers¹, T. Van De Weijer¹, C.I.H.C. Nabuurs²,³, M.E. Kooi², M.K.C. Hesselink³, P. Schrauwen¹, J. Wildberger², V.B. Schrauwen-Hinderling²; ¹Department of Human Biology, Maastricht University Medical Center (MUMC+), Maastricht/NETHERLANDS, ²Department of Radiology, Maastricht University Medical Center (MUMC+), Maastricht/NETHERLANDS, ³Department of Human Movement Sciences, Maastricht University Medical Center (MUMC+), Maastricht/NETHERLANDS
MEET THE AUTHOR in the EPOS™ Area at PC#15, on Oct. 6, 13:00–13:30

662 Fraction of unsaturated fatty acids in visceral adipose tissue (VAT) shows strong negative correlation to total VAT volume – a 1H spectroscopic study in male subjects
J. Machann¹, E. Schleicher², H.-U. Häring², C. Claussen³, A. Fritsche², F. Schick¹; ¹Section on Experimental Radiology, Institute for Diabetes Research and Metabolic Diseases (IDM) – Metabolic Imaging – of the Helmholtz Center Munich at the University of Tübingen, Tübingen/GERMANY, ²Department of Endocrinology and Diabetology, Angiology, Nephrology and Clinical Chemistry, University Hospital Tübingen, Tübingen/GERMANY, ³Department of Diagnostic and Interventional Radiology, University Hospital Tübingen, Tübingen/GERMANY, ⁴Section on Experimental Radiology, University Hospital Tübingen, Tübingen/GERMANY
MEET THE AUTHOR in the EPOS™ Area at PC#16, on Oct. 6, 13:00–13:30
663 Variations in lipid composition at different locations of the body – regional and interindividual variabilities assessed by 1H-MRS
J. Machann¹, A. Fritsche², C. Schabel³, H.-U. Häring², C. Claussen⁴, E. Schleicher², F. Schick³; ¹Section on Experimental Radiology, Institute for Diabetes Research and Metabolic Diseases (IDM) – Metabolic Imaging – of the Helmholtz Center Munich at the University of Tübingen, Tübingen/GERMANY, ²Department of Endocrinology and Diabetology, Angiology, Nephrology and Clinical Chemistry, University Hospital Tübingen, Tübingen/GERMANY, ³Section on Experimental Radiology, Department of Diagnostic and Interventional Radiology, University Hospital Tübingen, Tübingen/GERMANY, ⁴Department of Diagnostic and Interventional Radiology, University Hospital Tübingen, Tübingen/GERMANY
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664 Non-linear age-related metabolite changes observed with 1H MRS
G. Ende¹, N. Tunc-Skarka¹, M. Sack¹, A.-C. Reitz², E. Aufhaus¹, C. Schmahl², C. Diener¹, T. Schulze¹, W. Weber-Fahr¹; ¹Neuroimaging, Central Institute of Mental Health, Mannheim/GERMANY, ²Psychosomatic Medicine, Central Institute of Mental Health, Mannheim/GERMANY
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665 Quantitative identification of prostate cancer metabolomic markers using High Resolution Magic Angle Spinning 1H Magnetic Resonance Spectroscopy and Immunohistochemistry
F. Loebel, L.L. Cheng, C.-L. Wu, G. Mutter; Radiopathology, Massachusetts General Hospital, Harvard Medical School, Charlestown/UNITED STATES OF AMERICA
MEET THE AUTHOR in the EPOS™ Area at PC#19, on Oct. 6, 13:00–13:30

666 Quantification of Phosphorus MR Spectroscopic Imaging of Human Brain Using Time Domain Fitting versus Frequency Domain Analysis at 3T
B. Bulut¹, N.C. Askin¹, J.C. Crane², E. Ozturk-Isik¹; ¹Biomedical Engineering, Yeditepe University, Istanbul/TURKEY, ²Department of Radiology and Biomedical Imaging, University of California at San Francisco, San Francisco/CA/UNITED STATES OF AMERICA
MEET THE AUTHOR in the EPOS™ Area at PC#8, on Oct. 4, 13:00–13:30

667 Optimisation of the CMRS quantitation model
M.C. Sohlin¹,², S. Holmquist³, Å. Carlsson¹,², E. Forssell-Aronsson¹,², M. Ljungberg¹; ¹Sahlgrenska University Hospital, Department of Medical physics and Biomedical Engineering, Göteborg/SWEDEN, ²Department of Radiation Physics, University of Gothenburg, Göteborg/SWEDEN
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668 T2 relaxation measurements of brain tissue metabolites: effect of age, hearing state and processing methodology
A. Skoch¹,², J. Nahodilova²,³, F. Jiru¹, D. Wagnerova¹, M. Dezortova¹, J. Syka⁴, M. Hajek¹; ¹MR-Unit, Department of Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, ²St. Anne’s University Hospital, International Clinical Research Center, Brno/CZECH REPUBLIC, ³Department of Imaging Methods, St. Anne’s University Hospital, Brno/CZECH REPUBLIC, ⁴Department of Auditory Neuroscience, Institute of Experimental Medicine, Academy of Sciences of the Czech Republic, Prague/CZECH REPUBLIC
MEET THE AUTHOR in the EPOS™ Area at PC#22, on Oct. 6, 13:00–13:30
669 Comparison of spectra analysis methods for the quantification of mice liver fatty acid composition by MR spectroscopy
A. Coum1, 2, 3, F. Noury1, 2, 3, G. Gambarota1, 2, 3, K. Begriche4, B. Fromenty4, H. Saint-Jalmes1, 2, 3; 1INSERM, UMR 1099, Rennes/FRANCE, 2Université de Rennes 1, LTSI, Rennes/FRANCE, 3PRISM, Biosit, CNRS UMS 3480, INSERM UMS 018 – Biogenouest, Rennes/FRANCE, 4INSERM, U991, Rennes/FRANCE
MEET THE AUTHOR in the EPOS™ Area at PC#23, on Oct. 6, 13:00–13:30

670 Fat unsaturation in bone marrow, leg and deep abdominal subcutaneous adipose depots with long echo time 1H MRS at 3 Tesla.
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MEET THE AUTHOR in the EPOS™ Area at PC#24, on Oct. 6, 13:00–13:30

RF Systems

671 A multichannel ¹H/³¹P transmit-receive coil for spectroscopy in the human calf at 7T
S. Goluch1, 2, R. Krieg1, 2, 3, E. Moser1, 2, T. Herrmann4, J. Mallow4, J. Bernarding4, K.-N. Kim5, S.-M. Hong5, H.-B. Jeong5, Z.-H. Cho5, E. Laistler6; 1MR Center of Excellence, Medical University of Vienna, Vienna/AUSTRIA, 2Center for Medical Physics and Biomedical Engineering, Medical University of Vienna, Vienna/AUSTRIA, 3IR4M (Imagerie par Resonance Magnetique Medicale et Multi-Modalites), UMR8081 CNRS, Université Paris Sud 11, Orsay/FRANCE, 4Department of Biometry and Medical Informatics, OvG University Magdeburg, Magdeburg/GERMANY, 5Neuroscience Research Institute, Gachon University of Medicine and Science, Incheon/KOREA, 6CMPBMT, MR Center of Excellence, Medical University of Vienna, Vienna/AUSTRIA
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672 A short transmit array optimized for spectroscopy at high field
A.W. Magill1, R. Gruetter1, 2; 1Laboratory for Functional and Metabolic Imaging, Ecole Polytechnique Fédérale de Lausanne, Lausanne/SWITZERLAND, 2Department of Radiology, University of Geneva and Lausanne, Geneva Lausanne/SWITZERLAND
MEET THE AUTHOR in the EPOS™ Area at PC#26, on Oct. 6, 13:00–13:30
673 A quantitative comparison of electromagnetic computational methods for RF coil design
R. Stara¹, N. Fontana², G. Tiberi²,³, M. Tosetti¹,⁴,⁵, G. Manara¹,², A. Monorchio¹,², M. Alfonsetti⁶, A. Vitacolonna⁷, A. Galante⁷, M. Alecci¹,⁶, A. Retico¹; ¹INFN, Istituto Nazionale Fisica Nucleare, Pisa/ITALY, ² Dipartimento di scienze dell’informazione, Universita’ di Pisa, Pisa/ITALY, ³University of Pisa, Imago7, Pisa/ITALY, ⁴MR laboratory, IRCCS Stella Maris Scientific Institute, Pisa/ITALY, ⁵Physics Department, University of Pisa, Pisa/ITALY, ⁶Dip. SDS, Universita dell’Aquila, L’Aquila/ITALY, ⁷Dipartimento di scienze della salute, Universita’ dell’Aquila, L’Aquila/ITALY
MEET THE AUTHOR in the EPOS™ Area at PC#27, on Oct. 6, 13:00–13:30

674 A comparison of high-pass birdcage coils for small animal imaging at 9.4 and 14T
T. Cheng¹, J. Jung², A. Comment¹, R. Gruetter²,³, H. Lei²,⁴, A.W. Magill²,⁵; ¹SB IPSB GR-CO, Ecole Polytechnique Fédérale de Lausanne Lausanne, Lausanne/SWITZERLAND, ²Laboratory of Biomedical Imaging, École Polytechnique Fédérale de Lausanne, Lausanne/SWITZERLAND, ³Department of Radiology, University of Geneva and Lausanne, Geneva Lausanne/SWITZERLAND, ⁴Department of Radiology, University of Geneva, Lausanne/SWITZERLAND, ⁵Department of Radiology, University of Lausanne, Lausanne/SWITZERLAND
MEET THE AUTHOR in the EPOS™ Area at PC#28, on Oct. 6, 13:00–13:30

675 Double crossing volume coil for MRI of rodents at 7 Tesla
O. Marrufo¹, F. Vazquez², R. Martin³, A.O. Rodriguez³; ¹Dep Neuroimagen, Instituto Nacional de Neurologia y Neurocirugia MVS, Mexico DF/MEXICO, ²Dep Fisica, FC UNAM, Mexico DF/MEXICO, ³Dep. Ingenieria Electrica, UAM Iztapalapa, Mexico DF/MEXICO
MEET THE AUTHOR in the EPOS™ Area at PC#29, on Oct. 6, 13:00–13:30

Sequences and techniques

676 MRI of fibrous tissue with short T2 based on a modified Double Echo Steady State (DESS) sequence with adapted post-processing
P. Martirosian¹, C. Schraml², N.F. Schwenzer², F. Springer², C. Würslin¹, F. Schick¹, M. Deimling²; ¹Section on Experimental Radiology, University Hospital of Tübingen, Tübingen/GERMANY, ²Diagnostic and Interventional Radiology, University Hospital of Tübingen, Tübingen/GERMANY, ³Magnetic Resonance, Siemens Healthcare, Erlangen/GERMANY
MEET THE AUTHOR in the EPOS™ Area at PC#1, on Oct. 6, 13:30–14:00

677 Variable Flip Angle Schedules in bSSFP Imaging for Fourier Decomposition MRI
D.M.R. Corteville¹, Å. Kjørstad¹, F.G. Zöllner¹, C. Fink², L.R. Schad¹; ¹Computer Assisted Clinical Medicine, Heidelberg University, Mannheim/GERMANY, ²Institut für Klinische Radiologie und Nuklearmedizin, Heidelberg University, Mannheim/GERMANY
MEET THE AUTHOR in the EPOS™ Area at PC#2, on Oct. 6, 13:30–14:00

678 Active Feedback MR Imaging for Early Tumor Detection
Z. Li¹, C. Hsu², N. Dimitrov¹, L.-P. Hwang², Y.-Y. Lin¹; ¹Department of Chemistry and Biochemistry, University of California, Los Angeles, Los Angeles/CA/UNITED STATES OF AMERICA, ²Department of Chemistry, National Taiwan University, Taipei/TAIWAN
MEET THE AUTHOR in the EPOS™ Area at PC#3, on Oct. 6, 13:30–14:00
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<td>679</td>
<td>Globally optimal design of spatial selectivity for accelerated parallel transmit excitation</td>
<td>K. Vahedipour(^1), N.J. Shah(^1,2); (^1)INM-4 Medical Imaging Physics, Forschungszentrum Juelich, Juelich/GERMANY, (^2)Department of Neurology, RWTH Aachen University, JARA, Aachen/GERMANY</td>
<td>MEET THE AUTHOR in the EPOS™ Area at PC#4, on Oct. 6, 13:30–14:00</td>
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<td>680</td>
<td>Combining ZOOPPA and blipped CAIPIRINHA for Diffusion Weighted Imaging at 7T</td>
<td>C. Eichner(^1), K. Setsompop(^2), A. Anwander(^1), T. Feiweier(^3), S. Cauley(^2), H. Bhat(^4), R. Turner(^1), L.L. Wald(^2), R.M. Heidemann(^5); (^1)Neurophysics, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig/GERMANY, (^2)A. Martins Center for Biomedical Imaging, Massachusetts General Hospital, Charlestown/UNITED STATES OF AMERICA, (^3)Healthcare Sector, Siemens, Erlangen/ GERMANY, (^4)Healthcare Sector, Siemens, Malvern/PA/UNITED STATES OF AMERICA, (^5)Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig/GERMANY</td>
<td>MEET THE AUTHOR in the EPOS™ Area at PC#5, on Oct. 6, 13:30–14:00</td>
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<td>681</td>
<td>Density weighted echo planar imaging for optimized SNR and shortened effective echo time</td>
<td>M. Zeller(^1), A. Müller(^1), M. Gutberlet(^2), D. Stäb(^1), D. Hahn(^1), H. Köstler(^1); (^1)Institute of Radiology, University of Würzburg, Würzburg/GERMANY, (^2)Radiology, Hannover Medical School, Hannover/ GERMANY</td>
<td>MEET THE AUTHOR in the EPOS™ Area at PC#6, on Oct. 6, 13:30–14:00</td>
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<td>682</td>
<td>K-Space Weighted Acquisition for High-Resolution Imaging</td>
<td>R. Pohmann(^1), K. Scheffler(^2); (^1)Magnetic Resonance Center, Max-Planck-Institute for Biological Cybernetics, Tübingen/GERMANY, (^2)Biomedical Magnetic Resonance, University Tübingen, Tübingen/ GERMANY</td>
<td>MEET THE AUTHOR in the EPOS™ Area at PC#7, on Oct. 6, 13:30–14:00</td>
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<td>683</td>
<td>Optimization of Compressed Sensing/RARE Combining Acquisition Schemes</td>
<td>M. Naeyaert(^1), J. Aelterman(^2), J. Van Audekerke(^1), K. Claes(^1), A. Van Der Linden(^1), J. Sijbers(^6), M. Verhoeye(^1); (^1)Biomedical sciences, Bio-Imaging Lab, University of Antwerp, Wilrijk/ BELGIUM, (^2)TELIN-IPI, Ghent University, Ghent/BELGIUM, (^3)IBBT – Vision Lab, University of Antwerp, Antwerp/BELGIUM</td>
<td>MEET THE AUTHOR in the EPOS™ Area at PC#8, on Oct. 6, 13:30–14:00</td>
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<td>684</td>
<td>Matched Filter Anatomical Brain Imaging</td>
<td>L. Kasper(^1), M. Haeberlin(^1), B.J. Wilm(^1), K.E. Stephan(^1), K.P. Pruessmann(^2); (^1)University and ETH Zurich, Institute for Biomedical Engineering, Zurich/SWITZERLAND, (^2)Institute for Biomedical Engineering, University and ETH Zurich, Zurich/SWITZERLAND</td>
<td>MEET THE AUTHOR in the EPOS™ Area at PC#9, on Oct. 6, 13:30–14:00</td>
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<td>685</td>
<td>Comparison of multi echo approaches in ASL T2 imaging</td>
<td>J. Kramme, J. Gregori, M. Günther; MEVIS, Fraunhofer MEVIS, Bremen/GERMANY</td>
<td>MEET THE AUTHOR in the EPOS™ Area at PC#10, on Oct. 6, 13:30–14:00</td>
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686 T1-corrected Rapid T2 Estimation Using Double Echo Steady State (DESS)
R. Heule, O. Bieri; Division of Radiological Physics – Department of Radiology and Nuclear Medicine, University of Basel Hospital, Basel/SWITZERLAND
MEET THE AUTHOR in the EPOS™ Area at PC#11, on Oct. 6, 13:30–14:00

687 High temporal resolution DCE-MRI with T2* compensation for evaluation of the effects of HIFU treatment
I. Jacobs, S.J.C.G. Hectors, G.J. Strijkers, K. Nicolay; Biomedical NMR, Department of Biomedical Engineering, Eindhoven University of Technology, Eindhoven/NETHERLANDS
MEET THE AUTHOR in the EPOS™ Area at PC#12, on Oct. 6, 13:30–14:00

688 Motion-corrected Single-sequence Single-quantum and Triple-quantum Filtered Imaging of 23Na at 9.4T in vivo
D.P. Fiege¹, S. Romanzetti¹, F.E. Boada², S.R. Yutzy², Y. Qian², J. Felder¹, N.J. Shah¹,³; ¹INM-4, Medical Imaging Physics, Forschungszentrum Jülich GmbH, Juelich/GERMANY, ²Radiology and Bioengineering, University of Pittsburgh, Pittsburgh/UNITED STATES OF AMERICA, ³Department of Neurology, RWTH Aachen University, JARA, Aachen/GERMANY
MEET THE AUTHOR in the EPOS™ Area at PC#17, on Oct. 6, 13:00–13:30

689 A novel respiratory triggering scheme for DCE-MRI of mouse liver at 9.4T.
K. Jasinski, T. Skorka, W.P. Weglarz; Magnetic Resonance Imaging, The Henryk Niewodniczanski Institute of Nuclear Physics Polish Academy of Sciences, Krakow/POLAND
MEET THE AUTHOR in the EPOS™ Area at PC#14, on Oct. 6, 13:30–14:00

690 Banding Artifact Removal in bSSFP Imaging using Model-Based Iterative Reconstruction
T. Benkert¹, M. Ott¹, M. Blaimer¹, P. Jakob¹,², F. Breuer¹; ¹Magnetic Resonance Bavaria (MRB), Research Center, Würzburg/GERMANY, ²Experimentelle Physik 5, Lehrstuhl für Physik, Würzburg/GERMANY
MEET THE AUTHOR in the EPOS™ Area at PC#15, on Oct. 6, 13:30–14:00

691 Image reconstruction in undersampled radial MRI by constrained total variation minimization
S. Wundrak¹, J. Schluttig², J. Ulrici², E. Hell², V. Rasche¹; ¹Internal Medicine II, University of Ulm, Ulm/GERMANY, ²GBE, Sirona Dental System, Bensheim/GERMANY
MEET THE AUTHOR in the EPOS™ Area at PC#16, on Oct. 6, 13:30–14:00

692 Ultra-low-field MRI: Imaging at frequencies below 1 kHz
R. Körber¹, I. Hilschenz², H.-J. Scheer¹, T. Fedele³, H.-H. Albrecht¹, A. Cassarà¹, S. Hartwig¹, L. Trahms¹, M. Burghoff¹; ¹Biosignals, Physikalisch-Technische Bundesanstalt, Berlin, Berlin/GERMANY, ²Department MQF, University of Leipzig, Leipzig/GERMANY, ³Neurology, Charité Campus Benjamin Franklin, Berlin/GERMANY, ¹Centro Fermi, Roma/ITALY
MEET THE AUTHOR in the EPOS™ Area at PC#17, on Oct. 6, 13:30–14:00

693 Multi-Tissue Quantitative T2*-Mapping of the Knee Joint using a Multi-Echo VTE-Sequence at 3 Tesla: Preliminary Results.
G. Riegler¹, S. Apprich², O. Bieri³, S. Zbyn², S. Trattnig¹, P. Szomolanyi¹; ¹Center of Excellence High Field MRI, Department of Radiology, University Hospital of Vienna, Medical School, Vienna/AUSTRIA, ²MR Centre-Highfield MR, Department of Radiology, Medical University of Vienna/ Vienna General Hospital, Vienna/AUSTRIA, ³Division of Radiological Physics, University of Basel Hospital, Basel/SWITZERLAND
MEET THE AUTHOR in the EPOS™ Area at PC#18, on Oct. 6, 13:30–14:00
694 Temporal Optimisation of Background Suppressesion Pulses in Arterial Spin Labelling (ASL).
R. Wesolowski1, 2, A. Luxen2; 1Imaging Sciences and Biomedical Engineering, King’s College of London, London/UNITED KINGDOM, 2Cyclotron Research Centre, University of Liege, Liege/BELGIUM
MEET THE AUTHOR in the EPOS™ Area at PC#19, on Oct. 6, 13:30–14:00

695 On-resonance inversion prior to off-resonance irradiation in MT, CEST and rotating frame relaxation experiments
S. Mangia1, T. Liimatainen2, M. Garwood1, S. Michaeli1; 1CMRR – Dept. of Radiology, University of Minnesota, Minneapolis/UNITED STATES OF AMERICA, 2Department of Biotechnology and Molecular Medicine A.I. Virtanen Institute for Molecular Sciences, University of Eastern Finland, Kuopio/FINLAND
MEET THE AUTHOR in the EPOS™ Area at PC#20, on Oct. 6, 13:30–14:00

696 Long-term Quality Assurance of fMRI and MRS on a 3.0T clinical scanner
E. Alfayate1, P. García-Polo2, F. García1, J.A. Hernández-Tamames3, R. García-Álvarez4, J. Álvarez-Linerà5; 1Neuroimage, Fundación CIEN, Madrid/SPAIN, 2Biomedical Technology Centre, Technology University of Madrid, Madrid/SPAIN, 3Electronical Technology, Universidad Rey Juan Carlos, Móstoles/SPAIN, 4Clinical Science Development Group, GE Healthcare, Madrid/SPAIN, 5Radiology, Hospital Ruber Internacional, Madrid/SPAIN
MEET THE AUTHOR in the EPOS™ Area at PC#21, on Oct. 6, 13:30–14:00

697 Signal enhancement of Glycogen by 13C NMR spectroscopy using broadband 1H decoupling and NOE at 7T
E. Serés Roig1, L. Xin2, A.W. Magill1, M. Meyerspeer1, 3, 4, R. Gruetter1, 5; 1Laboratory for Functional and Metabolic Imaging, Ecole Polytechnique Fédérale de Lausanne, Lausanne/SWITZERLAND, 2University of Lausanne, Lausanne/SWITZERLAND, 3Center for Biomedical Engineering and Physics, MR Centre of Excellence, Vienna/AUSTRIA, 4MR Center of Excellence, Medical University of Vienna, Vienna/AUSTRIA, 5Department of Radiology, University of Geneva and Lausanne, Geneva/CH
MEET THE AUTHOR in the EPOS™ Area at PC#22, on Oct. 6, 13:30–14:00

698 Cardiac MRS: High reproducibility for assesment of myocardial TG
M.C. Sohlin1, 2, S. Holmquist3, Å. Carlsson1, 2, E. Forssell-Aronsson1, 2, M. Ljungberg1; 1Sahlgrenska University Hospital, Department of Medical physics and Biomedical Engineering, Göteborg/SWEDEN, 2Department of Radiation Physics, University of Gothenburg, Göteborg/SWEDEN
MEET THE AUTHOR in the EPOS™ Area at PC#23, on Oct. 6, 13:30–14:00

699 Detection of functional lung defects using DC signal gated 1H imaging
A. Fischer1, M. Gutberlet2, J. Vogel-Claussen2, C.O. Ritter1, D. Hahn1, H. Köstler1; 1Institute of Radiology, University of Würzburg, Würzburg/GERMANY, 2Institute of Diagnostic and Interventional Radiology, Hannover Medical School, Hannover/GERMANY
MEET THE AUTHOR in the EPOS™ Area at PC#24, on Oct. 6, 13:30–14:00
Multiple-quantum reconstruction of triple-quantum filtered data

D.P. Fiege¹, S. Romanzetti¹, F. Boada², S.R. Yutzy², Y. Qian², J. Felder³, A. Celik¹, N.J. Shah³, ⁴; ¹INM-4, Medical Imaging Physics, Forschungszentrum Jülich GmbH, Juelich/GERMANY, ²Radiology and Bioengineering, University of Pittsburgh, Pittsburgh/PA/UNITED STATES OF AMERICA, ³Department of Neurology, RWTH Aachen University, JARA, Aachen/GERMANY, ⁴Institute of Neuroscience and Medicine 4, Forschungszentrum Juelich GmbH, Juelich/GERMANY

Non-Contrast-Enhanced Perfusion MRI for Preoperative Assessment of Lung Function in Patients with Non-Small-Cell Lung Cancer (NSCLC): Preliminary Results

G. Sommer¹, ², G. Bauman³, C. Dränkow⁴, C.-P. Heussel⁵, H.-U. Kauczor⁶, H.-P. Schlemmer², M. Puderbach⁶; ¹Radiology and Nuclear Medicine, University of Basel Hospital, Basel/SWITZERLAND, ²Radiology, German Cancer Research Center (DKFZ), Translational Lung Research Center Heidelberg (TLRC-H), Member of the German Center for Lung Research, Heidelberg/GERMANY, ³Medical Physics in Radiology, German Cancer Research Center (DKFZ), Translational Lung Research Center Heidelberg (TLRC-H), Member of the German Center for Lung Research, Heidelberg/GERMANY, ⁴Thoracic Surgery, Thoraxklinik Heidelberg, Translational Lung Research Center Heidelberg (TLRC-H), Member of the German Center for Lung Research, Heidelberg/GERMANY, ⁵Diagnostic and Interventional Radiology, Thoraxklinik Heidelberg, Translational Lung Research Center Heidelberg (TLRC-H), Member of the German Center for Lung Research, Heidelberg/GERMANY, ⁶Diagnostic and Interventional Radiology, Heidelberg University Hospital, Translational Lung Research Center Heidelberg (TLRC-H), Member of the German Center for Lung Research, Heidelberg/GERMANY

Detection of intraplaque hemorrhage in carotid atherosclerosis patients: Comparison between 3D T1-weighted fat-suppressed CUBE imaging and 3D T1-weighted fat-suppressed SPGR at 3.0T

P.A. Wielopolski¹, A.C. Van Dijk¹, H.J.M. Verhagen², P.J. Koudstaal³, A. Van Der Lugt¹; ¹Radiology, Erasmus Medical Center, Rotterdam/NETHERLANDS, ²Surgery, Erasmus Medical Center, Rotterdam/NETHERLANDS, ³Neurology, Erasmus Medical Center, Rotterdam/NETHERLANDS

Improved delineation of vulnerable plaques in carotid atherosclerosis patients using contrast enhanced 3D T1-weighted fat-suppressed CUBE imaging at 3.0T

P.A. Wielopolski¹, A.C. Van Dijk¹, H.J.M. Verhagen², P.J. Koudstaal³, A. Van Der Lugt¹; ¹Radiology, Erasmus Medical Center, Rotterdam/NETHERLANDS, ²Surgery, Erasmus Medical Center, Rotterdam/NETHERLANDS, ³Neurology, Erasmus Medical Center, Rotterdam/NETHERLANDS
Animal models

704 Metabolic profile of inflammation in the hippocampus

X. Combaz¹, M. Cayre², Y. Le Fur³, E. Pecchi⁴, S. Courtès⁵, S. Confort-Gouny¹,
H. Ratiney⁶, P.J. Cozzone⁶, A. Viola³; ¹Université d’Aix-Marseille, CRMBM UMR CNRS 7339,
Marseille/FRANCE, ²Université d’Aix-Marseille, IBDML, UMR CNRS 6216, Marseille/FRANCE,
³Université de la Méditerranée, CRMBM UMR CNRS 7339-Université d’Aix-Marseille, Marseille/FRANCE,
⁴Faculte de Medecine la Timone, CRMBM UMR CNRS 7339, Marseille/FRANCE, ⁵CREATIS,
CNRS UMR 5220 – INSERM U1044 – Université Lyon 1 – INSA Lyon, Villeurbanne/FRANCE, ⁶Centre
de Résonance Magnétique Biologique et Médicale (‘UMR 7339’), CNRS, Faculté de Médecine, Aix-
Marseille Université, Marseille/FRANCE
MEET THE AUTHOR in the Paper Poster Area, on Oct. 4, 13:50–14:20

705 Assessment of neurodegeneration in rat model of vascular dementia using ex vivo
magnetic resonance microimaging and histology

A. Gálisová¹, M. Krššák², C. Kronnerwetter³, A. Kebis¹, ⁴, K. Ambrušová⁴, A. Berg³,
S. Kašparová¹; ¹Faculty of Chemical and Food Technology, Slovak University of Technology,
Bratislava/SLOVAK REPUBLIC, ²Department of Internal Medicine III, Medical University of Vienna,
Vienna/AUSTRIA, ³Center for Medical Physics and Biomedical Engineering, MR Center of Excellence –
Medical University Vienna, Vienna/AUSTRIA, ⁴Faculty of Public Health, Slovak Medical University,
Bratislava/SLOVAK REPUBLIC
MEET THE AUTHOR in the Paper Poster Area, on Oct. 4, 13:50–14:20

706 MR studies on rat cortex during and after ischemia at 14.1T

H. Lei¹, H. Frenkel¹, R. Gruetter²; ¹Department of Radiology, University of Geneva and Lausanne,
Lausanne/SWITZERLAND, ²Department of Radiology, University of Geneva and Lausanne, Geneva
Lausanne/SWITZERLAND
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707 Multi-parametric MRI investigation of two intracranial glioma models at 7T

P. Porcari¹, ², J.K.R. Boulт¹, Y. Jamin¹, S.P. Robinson¹; ¹Division of Radiotherapy and Imaging,
The Institute of Cancer Research and Royal Marsden NHS Foundation Trust, CR-UK and EPSRC
Cancer Imaging Centre, Sutton, Surrey/UNITED KINGDOM, ²Physics Department, Sapienza University
of Rome, Rome/ITALY
MEET THE AUTHOR in the Paper Poster Area, on Oct. 4, 13:50–14:20

708 Comparison of different MRI pulse sequences for quantitative T2 measurements in
preclinical studies.

W.I. Piędzia, K. Jasinski, W.P. Węglarz; Department of Magnetic Resonance Imaging, Institute of
Nuclear Physics PAN, Kraków/POLAND
MEET THE AUTHOR in the Paper Poster Area, on Oct. 4, 13:50–14:20
709 In vivo diffusion tensor imaging and tract based spatial statistic in three different mouse models of Alzheimer’s Disease
M. Marizzoni1, E. Micotti2, M. Lorenzi1, A. Paladini2, C. Balducci2, A. Caroli3, S. Dix4, M. O’Neill4, C. Czech5; 1LENITEM Laboratory of Epidemiology, Neuroimaging, & Telemedicine, IRCCS San Giovanni di Dio Fatebenefratelli, Brescia/ITALY, 2Department of Neuroscience, Mario Negri Institute for Pharmacological Research, Milano/ITALY, 3Biomedical Engineering Department, Mario Negri Institute for Pharmacological Research, Bergamo/ITALY, 4Lilly Research Centre, Eli Lilly, Surrey/UNITED KINGDOM, 5CNS Research, Hoffmann-La Roche AG, Basel/SWITZERLAND
MEET THE AUTHOR in the Paper Poster Area, on Oct. 4, 13:50–14:20

710 Ultra high field imaging for in vivo phenotyping of genetically modified mouse strains using multidimensional analysis.
M. Meier1, D. Wedekind2, H.J. Hedrich2; 1Small Animal Imaging Unit, Hannover Medical School, Hannover/GERMANY, 2Institute for Laboratory Animal Science, Hannover Medical School, Hannover/GERMANY
MEET THE AUTHOR in the Paper Poster Area, on Oct. 4, 13:50–14:20

711 Assessment of dysmyelination in the spinal cord shiverer mice using different imaging modalities at 14.1T
R. Maddage1, N. Kunz2, G.A. Lodygensky3, J.P. Marques1, 4, R. Gruetter1, 4; 1Functional and Metabolic Imaging, Ecole Polytechnique Fédérale de Lausanne, Lausanne/SWITZERLAND, 2Division of Child Growth & Development, University of Geneva, Geneva/SWITZERLAND, 3Department of Pediatrics, Research Center CHU Sainte-Justine, Montreal/CANADA, 4Department of Radiology, University of Geneva and Lausanne, Geneva Lausanne/SWITZERLAND
MEET THE AUTHOR in the Paper Poster Area, on Oct. 4, 13:50–14:20

712 Imaging of the ovine femoral head using IR-prepared 3D Ultrashort TE Pulse Sequences
K. Hemberger1, P. Jakob2, D. Haddad1; 1Musculoskeletal MRI, Research Center Magnetic Resonance Bavaria (MRB), Würzburg/GERMANY, 2MRI, Research Center for Magnetic Resonance Bavaria, Würzburg/GERMANY
MEET THE AUTHOR in the Paper Poster Area, on Oct. 4, 13:50–14:20

713 MR Imaging for Assessment of Early Treatment Effect in a Mouse Model of Mucosal Melanoma
Y. Sun1, J. Wang1, A. Saur1, A. Lara Albarez1, F.S. Hodi2, A.L.-J. Kung1, 3; 1Lurie Family Imaging Center, Dana Farber Cancer Institute, Harvard Medical School, Boston/MA/UNITED STATES OF AMERICA, 2Medical Oncology, Dana Farber Cancer Institute, Harvard Medical School, Boston/MA/UNITED STATES OF AMERICA, 3Pediatric Oncology, Dana Farber Cancer Institute, Harvard Medical School, Boston/MA/UNITED STATES OF AMERICA
MEET THE AUTHOR in the Paper Poster Area, on Oct. 4, 13:50–14:20
714 In vivo measurement of sodium T1 of knee cartilage in a post-operative goat animal model
G. Lykowsky¹, K. Hemberger¹, S. Triphan¹, D. Weber¹, P. Jakob¹,²; ¹Research Center Magnetic-Resonance-Bavaria, Würzburg/Germany, ²Experimentelle Physik 5, Lehrstuhl für Physik, Würzburg/Germany
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Body

715 Texture analyzing of benign and malignant vertebral fractures based on entropy histograms and PARAFAC analysis of MR images
J. Mihailović¹, A. Savić², V. Vuković³, M. Daković¹,⁴; G.G. Bačić⁵; ¹Magnetic resonance department, National Cancer Research Center, Belgrade/Serbia, ²Department of Biophysics, Center for Multidisciplinary Studies, Belgrade/Serbia, ³Department of Magnetic Resonance, National Cancer Research Center, Belgrade/Serbia, ⁴Department of Biophysical Chemistry, Faculty of Physical Chemistry, Belgrade/Serbia, ⁵Department of Radiochemistry, Faculty of Physical Chemistry, Belgrade/Serbia
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716 Intra-Ductal Breast Lesions: Diagnostic Accuracy of MR Imaging
M.L.O.D.O. Coelho¹, C. Paulino², M. Dias³, C. Marques⁴, M. Gonçalo⁴, N. Neves¹; F. Caseiro-Alves⁴; ¹Radiology, Hospital Infante D. Pedro, Aveiro/Portugal, ²Radiology, Hospital Universitarios de Coimbra, Coimbra/Portugal, ³Gynecology, Hospital de Cruces de Coimbra, Coimbra/Portugal, ⁴Radiology, Centro Hospitalar Universitário de Coimbra, Coimbra/Portugal
MEET THE AUTHOR in the Paper Poster Area, on Oct. 4, 13:50–14:20

717 Automated Workflow for 3D CSI Prostate Spectroscopy
R. Neji¹, M. Requardt¹, P. Khurd², K. Engelhard³; ¹IM PLM AW ONCO, Siemens AG, Healthcare Sector, Erlangen/Germany, ²Imaging and Visualization, Siemens Corporate Research, Princeton/NJ/United States of America, ³Radiology Department, Martha-Maria Hospital, Nuremberg, Nuremberg/Germany
MEET THE AUTHOR in the Paper Poster Area, on Oct. 4, 13:50–14:20

718 Fat quantification using two different water-fat separation sequences for the diagnosis of diffuse liver disease
C. Kremser, B. Henninger, S. Rauch, W. Jaschke; Dept. of Radiology, Innsbruck Medical University, Innsbruck/Austria
MEET THE AUTHOR in the Paper Poster Area, on Oct. 4, 13:50–14:20
719 Quantitative data analysis of the multiphase contrast-enhanced MRI in the differential diagnosis of metastatic liver disease of colorectal and pancreatic etiology
Y. Savchenkov, S. Baginenko, V. Fokin, G. Trufanov; Radiology, Medical military academy, Saint-Petersburg/ RUSSIAN FEDERATION
MEET THE AUTHOR in the Paper Poster Area, on Oct. 4, 13:50–14:20

720 Vortex formation ratio can be measured using MRI and is decreased in heart failure compared to healthy volunteers
M. Kanski, J. Töger, K. Ehrenborg, M. Carlsson, E. Heiberg, H. Arheden; Department of Clinical Physiology, Skåne University Hospital and Lund University, Lund/SWEDEN
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721 Computer-aided detection in MR perfusion of the heart using Dynamika-software: preliminary results
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722 Simplified biexponential model of Diffusion-Weighted Magnetic Resonance Imaging (DW-MRI): a quantitative analysis for prostate tissue characterization
N. Marotti1, S.F. Carbone1, G. Belmonte2, V. Ricci1, E. Tucci3, L. Pirtoli4, L. Volterrani1; 1Radiology Department, University Hospital of Siena, Siena/ITALY, 2Medical Physics Department, University Hospital of Siena, Siena/ITALY, 3Urology Department, Ospedale di Grosseto, Grosseto/ITALY, 4Radiation Oncology Department, University Hospital of Siena, Siena/ITALY
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723 Evaluation of a Knowledge-Based 6-Plane Automatic Slice-Alignment Method for Cardiovascular Magnetic Resonance Imaging at 3 T
S. Kuhara1, K. Yokoyama2, R. Ishimura2, T. Nitatori2, S. Nitta3, T. Shiodera3, T. Takeguchi3; 1MRI Systems Development Department, Toshiba Medical Systems Corporation, Otawara-shi/JAPAN, 2Department of Radiology, Kyorin University Faculty of Medicine, Mitaka-shi/JAPAN, 3Corporate Research & Development Center, Toshiba Corporation, Kawasaki-shi/JAPAN
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724 Assessment of myocardial lipid accumulation: Optimisation of in vivo 1H magnetic resonance spectroscopy (MRS) measurement protocol.
M. Krššák1, G. Reiter2, M. Chmelík3, M. Gajdošík3, D. Jankovic1, Y. Winhofer1, A. Luger1, M. Krebs1; 1Department of Internal Medicine III, Medical University of Vienna, Vienna/AUSTRIA, 2Medical Division, Siemens Healthcare, Wien/AUSTRIA, 3MR Centre of Excellence, Department of Radiology, Medical University of Vienna, Vienna/AUSTRIA
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725 Myocardial T1 mapping in free breathing with motion correction at 3T: a pilot study
H. Clique1, 2, A. Menini1, 2, H.-L.M. Cheng3, 4, P.-Y. Marie5, J. Felblinger1, 2, M. Beaumont6, 7; 1U947, INSERM, Nancy/FRANCE, 2IADI, Université de Lorraine, Nancy/FRANCE, 3Medical Biophysics, University of Toronto, Toronto/ON/CANADA, 4Physiology & Experimental Medicine, The Hospital for Sick Children, Toronto/ON/CANADA, 5Département de médecine nucléaire, CHU de Nancy, Nancy/FRANCE, 6CIT801, INSERM, Nancy/FRANCE, 7CIC-IT, CHU de Nancy, Nancy/FRANCE
MEET THE AUTHOR in the Paper Poster Area, on Oct. 4, 15:30–16:00
726 MR based volumetry of musculature in the lower extremity in 156 subjects and relations of findings to age, gender, anthropomorphic characteristics and a diet intervention.

C. Schabel¹, M. Böttcher¹, F. Springer², U. Grosse³, N. Stefan⁴, A. Fritsche⁴, F. Schick⁵, J. Machann⁶; ¹Section on Experimental Radiology, Department of Diagnostic and Interventional Radiology, University Hospital Tübingen, Tübingen/GERMANY, ²Diagnostic and Interventional Radiology, University Hospital of Tübingen, Tübingen/GERMANY, ³Department of Radiology, Section on Experimental Radiology, Tuebingen/GERMANY, ⁴Department of Internal Medicine, Division of Endocrinology, Diabetology, Angiology, Nephrology and Clinical Chemistry, University Hospital Tübingen, Tübingen/GERMANY, ⁵Section on Experimental Radiology, University Hospital Tübingen, Tübingen/GERMANY, ⁶Section on Experimental Radiology, Institute for Diabetes Research and Metabolic Diseases (IDM) – Metabolic Imaging – of the Helmholtz Center Munich at the University of Tübingen, Tübingen/GERMANY

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727 Ultra short echo time (UTE) MR imaging with off-resonance saturation for characterization of pathologically altered Achilles tendons at 3 Tesla.


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728 What is the relationship between contrast enhanced and diffusion weighted MR parameters in peripheral zone prostate tumours?

L.J. Bains, D.G. Chong, M. Ith, H.C. Thoery; Dept. of Diagnostic, Interventional and Pediatric Radiology (DIPR), University & Inselspital Bern, Bern/SWITZERLAND

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Contrast media: Molecular and cellular imaging

729 A new model for visualization of contrast agent release from thermosensitive liposomes induced by laser based hyperthermia

L. Willerding¹, S. Limmer¹, M. Hossann¹, ², A. Zengerle¹, M. Reiser³, R.D. Issels¹, L. Lindner², M. Peller³; ¹Department of Internal Medicine III, Ludwig-Maximilians-University Hospital Munich, Munich/GERMANY, ²CCG Hyperthermia, Helmholtz Zentrum Muenchen, German Research Centre for Environmental Health, Munich/GERMANY, ³Institute for Clinical Radiology, Ludwig-Maximilians-University Hospital Munich, Munich/GERMANY

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730 A novel superparamagnetic particle shows no splenic accumulation, improved pharmacokinetics and optimal properties for perfusion imaging.

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731 Cystine-functionalized superparamagnetic nanoparticles effects on human immune cells ex vivo
L. Delogu¹, S. Dolci², V. Domenici², R. Madeddu³, R. Manetti⁴, G. Pampaloni², F. Sgarrella¹, C.A. Veracini⁵; ¹Dipartimento di scienze del farmaco, Università di Sassari, Sassari/ITALY, ²Dipartimento di Chimica e Chimica Industriale, University of Pisa, Pisa/ITALY, ³Dipartimento di scienze del farmaco, Università di Pisa, Sassari/ITALY, ⁴Dipartimento di Medicina Clinica, Sperimentale e Oncologica, Università di Sassari, Sassari/ITALY, ⁵Dipartimento di Chimica, Università di Pisa, PISA/ITALY
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732 Lanthanide-based Lipoparticles as Bimodal Magnetic Resonance/Optical Imaging Probes with Potential BBB Permiability
S. Lacerda¹, C. Bonnet¹, A. Pallier¹, S. Villette¹, S. Petoud¹, C. Pichon¹, E.J. Toth²; ¹CBM, Centre de Biophysique Moleculaire, Orleans/FRANCE, ²CNRS, Centre de Biophysique Moléculaire, Orleans/FRANCE
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733 Exploring the fate of cell-internalized MRI Gd-based contrast agents
E. Di Gregorio¹, E. Gianolio¹, R. Stefania¹, S. Aime²; ¹Chemistry-University of Turin, Molecular Imaging center, Torino/ITALY, ²Chemistry-University of Turin, Molecular Imaging Center, Torino/ITALY
MEET THE AUTHOR in the Paper Poster Area, on Oct. 4, 15:30–16:00

734 In vitro determination of calibration curves for a pure and an emulsified semifluorinated alkane as prerequisite for 19F-oximetry
S. Kegel¹, G. Glatting¹, B. Theisinger², C. Tsagogiorgas³, L.R. Schad⁴, S. Kirsch⁴; ¹Medizinische Strahlenphysik/Strahlenschutz, Klinik für Strahlentherapie und Radioonkologie, Universitätsmedizin Mannheim, Mannheim/GERMANY, ²Research and Development, Novaliq GmbH, Heidelberg/GERMANY, ³Klinik für Anästhesiologie und Operative Intensivmedizin, Universitätsmedizin Mannheim, Mannheim/GERMANY, ⁴Computer Assisted Clinical Medicine, Medical Faculty Mannheim, Heidelberg University, Mannheim/GERMANY
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735 Optimization of pulse sequences for molecular MRI of glioma
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736 Parameter dependence of diffusion coefficient estimations using IVIM imaging
S.I. Goncalves¹, J. Simoes¹, F. Caseiro-Alves¹, M. Castelo-Branco²; ¹Radiology, University Hospital Coimbra, Coimbra/PORTUGAL, ²Coimbra, ANIFC, Coimbra/PORTUGAL
MEET THE AUTHOR in the Paper Poster Area, on Oct. 5, 13:50–14:20
737 Analysis of Chronotype Alternations by TBSS
J. Rosenberg¹,², I.I. Maximov³, M. Reske³, F. Grinberg³, N.J. Shah¹,²; ¹Neurology, Universitätsklinikum Aachen, Aachen/GERMANY, ²Institute of Neuroscience and Medicine 4, Medical Imaging Physics, Forschungszentrum Jülich GmbH, Jülich/GERMANY, ³INM-4, Forschungszentrum Jülich, Jülich/GERMANY
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738 Disentangling tract-specific scalar measures by tractographic backprojection
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739 White matter differences in juvenile myoclonic epilepsy and patients with generalized tonic-clonic seizures-only revealed by diffusion tensor imaging
M. Uppman¹,², I. Savic³, P. Lindström⁴,⁵, T.-Q. Li¹,²; ¹Department of Medical Physics, Karolinska University Hospital, Stockholm/SWEDEN, ²Department of Clinical Science, Intervention and Technology, Karolinska Institute, Stockholm/SWEDEN, ³Department of Women’s and Children’s Health, Karolinska Institute, Stockholm/SWEDEN, ⁴Department of Clinical Neuroscience, Karolinska Institute, Stockholm/SWEDEN, ⁵Department of Neurology, Karolinska University Hospital, Stockholm/SWEDEN
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740 On the optimal b-value range in diffusion kurtosis imaging
E. Farrher¹, F. Grinberg¹, N.J. Shah¹,²; ¹Institute of Neuroscience and Medicine – 4, Forschungszentrum Juelich GmbH, Juelich/GERMANY, ²Department of Neurology, Faculty of Medicine, RWTH Aachen University, JARA, Aachen/GERMANY
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Functional imaging

741 Discrimination of tactile trajectories on the fingertip: an fMRI study
A.Q. Alhussain, A. Benattayallah, J. Fulford, I. Summers; College of Engineering, Mathematics and Physical Sciences, Exeter university, Exeter/UNITED KINGDOM
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742 Haplotype trend regression analysis improves detection efficacy of SCL6A4 effects on amygdala activation
R.N. Boubela¹, K. Kalcher¹, W. Huf², U. Rabl², T. Hofmaier², V. Szilagyi², H. Esterbauer³, C. Windischberger¹, L. Pezawas², E. Moser¹; ¹Center for Medical Physics and Biomedical Engineering, Medical University of Vienna, Wien/AUSTRIA, ²Division of Biological Psychiatry, Department of Psychiatry and Psychotherapy, Medical University of Vienna, Wien/AUSTRIA, ³Department of Laboratory Medicine, Medical University of Vienna, Vienna/AUSTRIA
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Assessment of Arterial Spin Labeling for functional localization of active and passive motor tasks.
I. Boscolo Galazzo1, F.B. Pizzini2, S.F. Storti1, E. Formaggio1, A. Bertoldo4, P. Manganotti1; 1Department of Neurological, Neuropsychological, Morphological and Movement Sciences, University of Verona, Verona/ITALY, 2Department of Neuroradiology, General Hospital, Verona/ITALY, 3Neurophysiology, IRCCS San Camillo Hospital, Venice/ITALY, 4Department of Information Engineering, University of Padova, Padova/ITALY
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1/f-model-based parameter reveals the harmonization of the human brain
Y.-C. Li1, J.-H. Chen2; 1Graduate Institute of Biomedical Engineering and Bioinformatics, National Taiwan University, Taipei City/TAIWAN, 2Department of Electrical Engineering, National Taiwan University, Taipei City/TAIWAN
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Hardware

Quad channel PIN diode driver.
Y. Pilloud, R. Gruetter; LIFMET, CIBM-EPFL-LIFMET-SB, Lausanne/SWITZERLAND
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Respiration-Induced B0 Fluctuations in the Rat Brain at 9.4 Tesla
I. Dragonu, N. Baxan, A. Merkle, J. Hennig, D. Von Elverfeldt, M. Zaitsev; Dept. of Radiology, Medical Physics, University Medical Center Freiburg, Freiburg/GERMANY
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8 Channel Interventional Head Receive Array for Transcranial MR Guided Focused Ultrasound
F. Resmer1, B. Werner2, T. Lanz1; 1RAPID Biomedical GmbH, Rimpar/GERMANY, 2Center for MR Research, University Children’s Hospital Zurich, Zuerich/SWITZERLAND
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Neuro

Post-mortem structural MR imaging of diethylene glycol – embalmed brain specimens
M.M. Ribeiro1, 2, M. Carreiras3, H. Martins4, H.A. Ferreira4, D. Pais2, J.G. O’neill2, J.C. Mauricio6; 1Sciences and Technology of Radiation, Polytechnic Institute of Lisbon, Lisbon/PORTUGAL, 2Human Anatomy, Medical Sciences Faculty of Lisbon University, Lisbon/PORTUGAL, 3Sciences and Technology of Radiation and Human Anatomy, Polytechnic Institute of Lisbon and Medical Sciences Faculty, Lisbon/PORTUGAL, 4Radiology, Polytechnic Institute of Lisbon – Scholl of Heath Technology, Lisbon/PORTUGAL, 5IBEB, Sciences Faculty of Lisbon University, Lisbon/PORTUGAL, 6Imaging, Euromedic – Tomar, Tomar/PORTUGAL
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Radiotherapy of glioblastoma: absence of acute dose-dependent changes in DTI-derived metrics
T. Hope1, 2, R. Salo1, J. Vardal1, C. Larsson1, I. Rasmussen1, A. Bjornerud1; 1Intervention centre, Rikshospitalet, Oslo University Hospital, Oslo/NORWAY, 2Department of Circulation and Medical Imaging, NTNU, Trondheim/NORWAY
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749 Automatic procedure for measuring brain tumor volumetric change
R. Salo¹, A. Server Alonso², C. Saxhaug³, B. Breivik³, I. Rasmussen⁴, A. Bjørnerud¹;
¹Intervention Centre, Oslo University Hospital, Oslo/NORWAY, ²Department of Radiology, Oslo
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⁴Intervention centre, Rikshospitalet, Oslo University Hospital, Oslo/NORWAY
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750 Metabolic profiling of RG2 glioma using in-vivo 1H MRS and ex-vivo HRMAS 1H
MRS
V. Stupar¹, ², N. Coquery¹, ³, R. Fanion¹, ², E. Barbier¹, ³, C. Remy¹, ², F. Fauvelle⁴; ¹INSERM,
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Fourier, Grenoble/FRANCE, ⁴NMR laboratory, IRBA-CRSSA, La Tronche/FRANCE
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751 Does multi-modal magnetic resonance imaging at 1.5 Tesla help to detect specific
alterations within the brainstem of patients with Parkinson’s disease
M.F. Schocke¹, R. Esterhammer¹, M. Nocker², C. Scherfler², W. Poewe², K. Seppi²;
¹Department of Radiology, Medical University Innsbruck, Innsbruck/AUSTRIA, ²Department of
Neurology, Medical University Innsbruck, Innsbruck/AUSTRIA
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752 Effects of Nutrition and Physical Activity on Brain Structure and Brain Metabolite
Concentrations in Alcohol Dependence
S. Gazdzinski¹, A. Mon², T.C. Durazzo², M. Vertinski², D.J. Meyerhoff²; ¹MRI Core Facility,
Nencki Institute for Experimental Biology, Warsaw/POLAND, ²Radiology and Bioimaging, University of
California San Francisco, San Francisco/UNITED STATES OF AMERICA
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753 Metabolic changes in the central auditory system accompanying presbycusis
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of Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/
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for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC
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754 ROC analysis of mI/NAA in healthy elderly, MCI and AD at 3 T and 1.5 T
R. Tarducci¹, P. Mecocci², P. Chiarini³, L. Pelini², P. Floridi³, G. Gobbi¹; ¹Medical Physics
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Brain Temperature Changes with Abstinence from Alcohol – a Proton Magnetic Resonance Spectroscopy Study
S. Gazdzinski¹, A. Mon², T.C. Durazzo², D.J. Meyerhoff²; ¹MRI Core Facility, Nencki Institute for Experimental Biology, Warsaw/POLAND, ²Radiology and Bioimaging, University of California San Francisco, San Francisco/CA/UNITED STATES OF AMERICA
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Brain structure and neurochemistry in Autism Spectrum Disorders
A.C. Pereira¹, I.R. Violante², S. Mouga¹.³, G. Oliveira¹.³.⁴, M. Castelo-Branco¹; ¹IBILI – Faculty of Medicine, University of Coimbra, Coimbra/PORTUGAL, ²IBILI, Faculty of Medicine, University of Coimbra, Coimbra/PORTUGAL, ³Neurodevelopment and Autism Unit from Child Center, Pediatric Hospital of Coimbra, Coimbra/PORTUGAL, ⁴Centro de Investigação e Formação Clínica, Hospital Pediátrico, Centro Hospitalar e Universitário de Coimbra, Coimbra/PORTUGAL
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Quantitative cerebral water mapping in chronic kidney disease during the haemodialysis cycle using 3T MRI
Z. Abbas¹, K. Reetz¹.², A. Costa², V. Gras¹, T. Gross³, S. Mirzazade¹.², F. Eitner³, J. Flöge³, J.B. Schulz², N.J. Shah¹,²; ¹Forschungszentrum Jülich, Institute of Neuroscience and Medicine – 4, Jülich/GERMANY, ²Department of Neurology, Faculty of Medicine, JARA, RWTH Aachen University, Aachen/GERMANY, ³Division of Nephrology, RWTH Aachen University, Aachen/GERMANY
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Influence of Retinal Dystrophy on Brain Cortex Structure in Retinitis Pigmentosa
S. Ferreira¹, A.C. Pereira¹, C. Mateus¹, A. Reis¹.², B. Quendera¹, M.D.R. Almeida³, E. Silva⁴, M. Castelo-Branco¹; ¹Visual Neuroscience Laboratory, IBILI – Faculty of Medicine – University of Coimbra, Coimbra/PORTUGAL, ²Centre for Hereditary Eye Diseases, Department of Ophthalmology, University Hospital Coimbra, Coimbra/PORTUGAL, ³Vision Genetics and Neurogenetics Laboratory, Center for Neuroscience and Cell Biology, Coimbra/PORTUGAL
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Processing and quantification
Quantitative assessment of very low lipid concentrations in a calf-phantom and in human musculature by fat-selective imaging with spatial-spectral excitation
X. Mao, P. Martirosian, H. Graf, F. Schick; Sektion für Experimentelle Radiologie, Abteilung für Diagnostische und Interventionelle Radiologie, Eberhard-Karls-Universität Tübingen, Tübingen/ GERMANY
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VBM with viscous fluid registration of grey matter segments in SPM
J.M.S. Pereira¹.², J. Acosta-Cabronero², G. Pegas², L. Xiong³, P. Nestor², G. Williams²; ¹IBILI – Faculty of Medicine, University of Coimbra, Coimbra/PORTUGAL, ²Department of Clinical Neurosciences, University of Cambridge, Cambridge/UNITED KINGDOM, ³Neurology Department, Zhongnan Hospital of Wuhan University, Wuhan/CHINA
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761 Feasibility Study of an Automatic Planning Assist System for Cardiac Magnetic Resonance Examinations
S. Nitta¹, T. Takeguchi¹, S. Kuhara², R. Ishimura³, K. Yokoyama³, T. Nitatori³; ¹Corporate Research & Development Center, Toshiba Corporation, Kanagawa/JAPAN, ²MRI Systems Division, Toshiba Medical Systems Corporation, Tochigi/JAPAN, ³Department of Radiology, Kyorin University Faculty of Medicine, Tokyo/JAPAN
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762 3D Reconstruction and Quantitative Analysis of Carotid Artery Geometry using 2D-TOF, 3D-TOF MR Angiography and Multi-Detector CT Angiography
C. Zhu, A.J. Patterson, O.M. Thomas, U. Sadat, M.J. Graves, J.H. Gillard; University Department of Radiology, University of Cambridge, Cambridge/UNITED KINGDOM
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763 The effect of the kernel size in 3D-GRAPPA algorithms
J.-Y. Chung¹,², D.-E. Kim², D.-H. Kang², Y.-B. Kim², S. Ogawa², Z.-H. Cho²; ¹Biomedical Engineering, Eulji University, Seongnam Gyeonggi-do/KOREA, ²Neuroscience Research Institute, Gachon University, Incheon/KOREA
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764 Semi-automated renal segmentation in-vivo based on non contrast-enhanced T1 and T2 weighted images to separate renal cortex, medulla, and pelvis
S. Will, P. Martirosian, C. Würslin, F. Schick; Section on experimental radiology, University clinic Tuebingen, Tuebingen/GERMANY
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765 A comparison study of GRAPPA algorithms for volumetric parallel imaging
J.-Y. Chung¹,², D.-E. Kim², D.-H. Kang², Y.-B. Kim², S. Ogawa², Z.-H. Cho²; ¹Biomedical Engineering, Eulji University, Seongnam Gyeonggi-do/KOREA, ²Neuroscience Research Institute, Gachon University, Incheon/KOREA
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766 Application of Anisotropic Diffusion Phantom for DTI experiments
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767 Quantification of Tumor Responses to Radiosurgery Using Tensor Invariants
A. Hamamci¹, N. Kucuk², K. Karaman², K. Engin², G. Unal¹; ¹Electronics Engineering, Sabancı University, Istanbul/TURKEY, ²Radiation Oncology, Anadolu Medical Center, Kocaeli/TURKEY, ³Radiology, Anadolu Medical Center, Kocaeli/TURKEY
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An application of texture analysis for the evaluation of the long-axis myocardial motion velocity maps derived from MR Tagged mouse heart images

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Quantiﬁcation of Perfusion in Murine Myocardium: A Retrospectively Triggered Arterial Spin Labeling Sequence using Parallel Imaging

F.T. Gutjahr¹, T. Kampf¹, X. Helluy², P. Winter¹, C. Ziener³, P. Jakob²,⁴, W. Bauer⁵; ¹Experimentelle Physik 5, Universität Würzburg, Würzburg/GERMANY, ²Experimentelle Physik 5, Lehrstuhl für Physik, Würzburg/GERMANY, ³Radiology, German Cancer Research Center, Heidelberg/GERMANY, ⁴MRI, Research Center Magnetic Resonance Bavaria (MRB), Würzburg/GERMANY, ⁵Medizinische Klinik und Poliklinik I, Universitätsklinikum Würzburg, Würzburg/GERMANY

Assessment of Self-Gated Cardiac Reconstruction Quality in Mouse at 9.4T using Piecewise Linear Regression Method

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How different MR protocol parameters affect the estimation of a simpliﬁed CHARMED model: a study on simulated data

J. Andreotti¹, C. Kiefer², T. Dierks¹, A. Federspiel¹; ¹Department of Psychiatric Neurophysiology, University Hospital of Psychiatry, Bern/SWITZERLAND, ²Institute of Diagnostic and Interventional Neuroradiology, University Hospital of Bern, Bern/SWITZERLAND

Reduction of fat signal contamination in kooshball uTE lung imaging using retrospective self navigation

K.M. Lagerstrand¹, L.E. Olsson²; ¹Diagnostic Radiation Physics, Sahlgrenska University Hospital, Goeteborg/SWEDEN, ²Department of Radiation Physics, Lund University, Malmö/SWEDEN

Registration Based Estimates of Lung Ventilation

Å. Kjørstad¹, D.M.R. Corteville², F. Horn³, F.G. Zöllner⁴, E. Hodneland⁵, C. Fink⁶, L.R. Schad⁷; ¹Computer assisted clinical medicine, Heidelberg University, Mannheim/GERMANY, ²Computer Assisted Clinical Medicine, Heidelberg University, Mannheim/GERMANY, ³Academic Radiology, University of Sheffield, Sheffield/UNITED KINGDOM, ⁴Computer Assisted Clinical Medicine, Medical Faculty Mannheim, Heidelberg University, Mannheim/GERMANY, ⁵Department of Mathematics, University of Bergen, Bergen/NORWAY, ⁶Institut für Klinische Radiologie und Nuklearmedizin, Heidelberg University, Mannheim/GERMANY
Sequences and techniques

774 “Quantitative pH analysis with sodium 13C-Bicarbonate at small pH variations”
D.J. Scholz1, O. Khegai2, A. Otto1, R.F. Schulte2, M. Schwaiger3, S. Ziegler3, A. Haase1, M.I. Menzel2; 1Institute of Medical Enigeering (IMETUM), TU München, Garching/GERMANY, 2DBT, GE Global Research- Europe, Garching/GERMANY, 3Nukleamedizin, Klinikum rechts der Isar, München/GERMANY
MEET THE AUTHOR in the Paper Poster Area, on Oct. 6, 13:50–14:20

775 MR Thermometry for Head and Neck Hyperthermia: Experimental Verification of Simulations for Guiding Setup Design.
MEET THE AUTHOR in the Paper Poster Area, on Oct. 6, 13:50–14:20

776 Pulse Optimization and a Method to Correct Off-Resonance Induced Errors for Bloch-Siegert B1+ Mapping
M. Koehler, T. Speckner; H IM MR PLM-SD SWS SIT, Siemens Healthcare, Erlangen/GERMANY
MEET THE AUTHOR in the Paper Poster Area, on Oct. 6, 13:50–14:20

777 Clinical workflow optimized Calibration-Method for Stereo-Optical Tracking in MRI
M. Hoßbach1, J. Gregori2, S. Wesarg1, M. Günther3; ‘Cognitive Computing & Medical Imaging, Fraunhofer IGD, Darmstadt/GERMANY, 2MEVIS, Fraunhofer, Bremen/GERMANY, 3MEVIS, Fraunhofer MEVIS, Bremen/GERMANY
MEET THE AUTHOR in the Paper Poster Area, on Oct. 6, 13:50–14:20

778 Pulsed 3D ASL at 7 Tesla: Initial Results
K. Schewzow1, 2, A.I. Schmid1, 2, E. Moser1, 2; ‘Center for Medical Physics and Biomedical Engineering, Medical University of Vienna, Wien/AUSTRIA, 2MR Center of Excellence, Medical University of Vienna, Wien/AUSTRIA
MEET THE AUTHOR in the Paper Poster Area, on Oct. 6, 13:50–14:20

779 Slice Profile Adapted Radio Frequency Pulses for Simultaneous Gradient and Spin Echo EPI Using the Shinnar-Le-Roux Algorithm
MEET THE AUTHOR in the Paper Poster Area, on Oct. 6, 13:50–14:20
780 Ex vivo high-resolution MR (7T) microscopy of the human hippocampus
I. Zucca1, R. Coras2, R. Garbelli3, G. Milesi3, C. Frassoni3, A. Mastropietro1, A. Muhlebner2, A. Hess4, E. Aronica5, I. Blümcke2, R. Spreafico3; ¹Scientific Direction, Neurological Institute Carlo Besta, Milano/ITALY, ²Department of Neuropathology, University Hospital Erlangen, Erlangen/GERMANY, ³Clinical Epileptology and Experimental Neurophysiology, Neurological Institute Carlo Besta, Milano/ITALY, ⁴Experimental and Clinical Pharmacology and Toxicology, University of Erlangen Nuremberg, Erlangen/GERMANY, ⁵(Neuro)Pathology, Academic Medical Centre, Amsterdam/NETHERLANDS
MEET THE AUTHOR in the Paper Poster Area, on Oct. 6, 13:50–14:20

781 Shim improvement in 3T breast imaging by slice-dependent shim update
S.-K. Lee1, E.T. Tan1, A. Govenkar2, I. Hancu1; ¹MRI Laboratory, GE Global Research, Niskayuna/UNITED STATES OF AMERICA, ²Software Development, Extenprise Inc, Pune/INDIA
MEET THE AUTHOR in the Paper Poster Area, on Oct. 6, 13:50–14:20

782 Effects of sequence parameters on reliability of multi-exponential T2 measurements
H. Adriaensen1, M. Musse1, S. Quellec1, A. Vignaud2, F. Mariette1; ¹TERE, Irlstea, Rennes cedex/FRANCE, ²Siemens Healthcare, Siemens Healthcare, Saint-Denis/FRANCE
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783 T2 & T2ρ maps: Sequence Development and Clinical Impact on Joint Study
L. Balbi1, D. Greco1, S. Innocenti1, C. Sirignano2, G. Palma2, E. Soscia2, B. Alfano2, M. Salvatore2; ¹MRI & D. Esato S.p.A., Genoa/ITALY, ²IBB, CNR, Naples/ITALY
MEET THE AUTHOR in the Paper Poster Area, on Oct. 6, 13:50–14:20

784 Quick water-selective imaging of tendons, ligaments and cortical bone: Feasibility of detailed tissue characterization by T2* and magnetization transfer
F. Springer, U. Grosse, R. Syha, C. Schabel, G. Steidle, P. Martirosian, F. Schick; Department of Diagnostic and Interventional Radiology, Section on Experimental Radiology, University Hospital, Tübingen/GERMANY
MEET THE AUTHOR in the Paper Poster Area, on Oct. 6, 15:30–16:00

785 Triple-quantum filtered 23Na imaging using a phased-array receive coil at 9.4T
D.P. Fiege1, S. Romanzetti1, F. Boada2, S.R. Yutzy2, Y. Qian2, J. Felder1, A. Celik1, N.J. Shah1, ³; ¹INM-4, Medical Imaging Physics, Forschungszentrum Jülich GmbH, Juelich/GERMANY, ²Radiology and Bioengineering, University of Pittsburgh, Pittsburgh/PA/UNITED STATES OF AMERICA, ³Department of Neurology, RWTH Aachen University, JARA, Aachen/GERMANY
MEET THE AUTHOR in the Paper Poster Area, on Oct. 6, 15:30–16:00

786 MRI phantoms – are there alternatives to agar?
A. Hellerbach, V. Schuster, A. Jansen, J. Sommer; Department of Psychiatry and Psychotherapy, University Marburg, Marburg/GERMANY
MEET THE AUTHOR in the Paper Poster Area, on Oct. 6, 15:30–16:00

787 Narrow-band artefact correction in multiple-channel acquisitions: application to EEG recorded during fMRI
M.F.P. Leite1, T.I.G. Murta1, S. Vullermoz1, D. Carmichael1, P.M.P. Figueiredo2, L. Lemieux1; ¹DCEE, ION-UCL, London/UNITED KINGDOM, ²DBE, IST, Lisboa/PORTUGAL
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**Scientific Programme**

**Paper Posters**

788 The reliability of GABA measurements in phantom and human brain by MRS at 3T
O. Voevodskai¹, M. Uppman²-³, M. Karlsson⁴, T.-Q. Li⁵; ¹Department of Applied Physics, Royal Institute of Technology, Stockholm/SWEDEN, ²Department of Medical Physics, Karolinska University Hospital, Stockholm/SWEDEN, ³Department of Clinical Science, Intervention and Technology, Karolinska Institute, Stockholm/SWEDEN, ⁴Siemens Healthcare, Siemens, Upplands väsby/SWEDEN

**Meet THE AUTHOR in the Paper Poster Area, on Oct. 6, 15:30–16:00**

**Vascular and perfusion**

789 Automatic Segmentation and Analysis of Carotid and Middle Cerebral Artery using Black-Blood 3D Variable Flip Angle FSE (CUBE) MRI
C. Zhu, A.J. Patterson, M.J. Graves, J.H. Gillard; University Department of Radiology, University of Cambridge, Cambridge/UNITED KINGDOM

**Meet THE AUTHOR in the Paper Poster Area, on Oct. 6, 15:30–16:00**

790 Correlation of Intravoxel Incoherent Motion MR Imaging with dynamic contrast-enhanced MRI in brain tumors
M. Schneider, M. Ingrisch, B. Ertl-Wagner, M. Reiser, O. Dietrich; Institute for Clinical Radiology, Ludwig-Maximilians-University Hospital Munich, Munich/GERMANY

**Meet THE AUTHOR in the Paper Poster Area, on Oct. 6, 15:30–16:00**

791 Sampling requirements in DSC-MRI
K.M. Bakke, A. Bjørnerud; The Intervention centre, Oslo University Hospital, Oslo/NORWAY

**Meet THE AUTHOR in the Paper Poster Area, on Oct. 6, 15:30–16:00**

792 Effects of percutaneous transluminal angioplasty on muscle perfusion in patients with peripheral arterial occlusive disease: preliminary results.
G. Grözinger; Department of Diagnostic and Interventional Radiology, University Hospital Tübingen, Tuebingen/GERMANY

**Meet THE AUTHOR in the Paper Poster Area, on Oct. 6, 15:30–16:00**

793 Assessment of mono-exponential model with Pseudo Continuous ASL data
M. Castellaro¹, I. Boscolo Galazzo², D. Peruzzo¹, F. Arrigoni², F. Triulzi², A. Bertoldo¹; ¹Department of Information Engineering, University of Padova, Padova/ITALY, ²Department of Neurological, Neuropsychological, Morphological and Movement Sciences, Section of Clinical Neurology, University of Verona, Verona/ITALY, ³Neuroimaging Unit, Scientific Institute IRCCS Eugenio Medea, Bosisio Parini (LC)/ITALY, ⁴Neuroimaging Unit, Fondazione IRCCS Ca’ Granda, Ospedale Maggiore Policlinico, Milano/ITALY

**Meet THE AUTHOR in the Paper Poster Area, on Oct. 6, 15:30–16:00**
794 Single post-labeling versus multi post-labeling pCASL: evaluation of differences in cerebral blood flow estimation
I. Boscolo Galazzo¹, M. Castellaro², D. Peruzzo², F. Arrigoni³, F. Triulzi⁴, A. Bertoldo²;
¹Department of Neurological, Neuropsychological, Morphological and Movement Sciences, University of Verona, Verona/ITALY, ²Department of Information Engineering, University of Padova, Padova/ITALY, ³Neuroimaging Unit, Scientific Institute IRCCS Eugenio Medea, Bosisio Parini (LC)/ITALY, ⁴Neuroimaging Unit, Fondazione IRCCS Ca’ Granda, Ospedale Maggiore Policlinico, Milano/ITALY
MEET THE AUTHOR in the Paper Poster Area, on Oct. 6, 15:30–16:00

795 Perfusion changes in response to hypercapnia in free breathing or ventilated C57BL/6 mice.
T. Dresselaers¹, S. Caers¹, T. Struys², A. Van Santvoort¹, U. Himmelreich¹; ¹Biomedical MRI unit/ MoSAIC, Imaging and Pathology, KULeuven, Leuven/BELGIUM, ²Biomedical Research Institute, Department of Functional Morphology, Lab of Histology, University Hasselt, Hasselt/BELGIUM
MEET THE AUTHOR in the Paper Poster Area, on Oct. 6, 15:30–16:00

796 Investigation of an Experimental Determination of Labeling Efficiencies for Perfusion Measurements with Pseudocontinuous Arterial Spin Labeling
S. Rüfer¹, M. Helle², A. Woehner¹, O. Jansen¹; ¹Institute of Neuroradiology, University Hospital Schleswig-Holstein, Kiel/GERMANY, ²Innovative Technologies Research Laboratories, Philips Technologie GmbH, Hamburg/GERMANY
MEET THE AUTHOR in the Paper Poster Area, on Oct. 6, 15:30–16:00
Animal studies

797 BSA-USPIO enhanced atherosclerotic plaque MRI: A surrogate complex to mimic Gadofluorine enhanced fibrous plaque detection?
P. Opriessnig¹, G. Almer², D. Frascione², R. Prassl², H. Mangge³, R. Stollberger¹;
¹Institute of Medical Engineering, Graz University of Technology, Graz/AUSTRIA, ²Institute of Biophysics and Nanosystems Research, Austrian Academy of Sciences, Graz/AUSTRIA, ³Clinical Institute for Medical and Chemical Laboratory Diagnosis, Medical University of Graz, Graz/AUSTRIA
MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 4, 14:20–14:50

798 WITHDRAWN

Body

799 MRI and other imaging findings of Intrathoracic Desmoid Tumor
B. Nazir; Dept. of Oncologic Imaging, National Cancer Center, Singapore/SINGAPORE
MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 4, 14:20–14:50

800 A semi quantitative MRI method for assessing skeletal involvement in type I Gaucher disease.
V. Komninaka¹, D. Kolomodi², T. Marinakis³, K. Repa⁴, D. Christoulas⁵, E. Terpos⁵;
¹Haematology, Laiko General Hospital, Athens/GREECE, ²Radiology, Laiko General Hospital, Athens/GREECE, ³Department of Hematology, Georgios Gennimatas General Hospital, Athens/GREECE, ⁴Department of Hematology, Polykliniki General Hospital, Athens/GREECE, ⁵Department of Clinical Therapeutics, University of Athens School of Medicine, Athens/GREECE
MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 4, 14:20–14:50

801 Strain at the Proximal Iliac Insertion of the Fascia Lata – MR Imaging Findings
P. João¹, R. Breni², M. Abreu²; ¹Imagiologia, HFF, LISBOA/PORTUGAL, ²Radiologia, HMD, Porto Alegre RS/BRAZIL
MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 4, 14:20–14:50

802 Shoulder entrapment neuropathies in the shoulder – know what do they look like on MRI and avoid being yourself entrapped
P.D. Afonso¹, L. Gargate¹, J. Strecht¹, C. Spritzer²; ¹Radiology, Hospital Beatriz Angelo, Loures/PORTUGAL, ²Radiology, Duke University Medical Center, NC/NC/UNITED STATES OF AMERICA
MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 4, 14:20–14:50

803 Coxalgia, evaluation with conventional MR and MR arthrography
V.V. Mascarenhas, H. Marques, A. Guerra, P. Rego, A. Gaspar; Centro de Imagiologia, Hospital da Luz, Lisbon/PORTUGAL
MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 4, 14:20–14:50
804 Rheumatoid artrhitis and Seronegative Spondyloarthropaties: Evaluation with basic and advanced MRI
V.V. Mascarenhas, H. Marques, A. Guerra, D. Afonso, A. Gaspar; Centro de Imagioologia, Hospital da Luz, Lisbon/PORTUGAL
MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 5, 14:20–14:50

805 MR imaging findings of musculoskeletal (MSK) infections in the foot – a pictorial tour
P.D. Afonso¹, A. Gaspar¹, V.V. Mascarenhas¹, C. Spritzer²; ¹Radiology, Hospital da luz, Lisbon/PORTUGAL, ²Radiology, Duke University Medical Center, NC/NC/UNITED STATES OF AMERICA
MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 6, 14:20–14:50

806 Recognizing false positives and negatives of diffusion MRI
A. Iglesias Castañon¹, M. Arias González¹, B. Nieto Baltar¹, J. Mañas Uxo¹, P. Sucasas Hermida², Á. Nieto Parga²; ¹Unidad de Diagnóstico por Imagen (GALARIA), Complejo Hospitalario Universitario de Vigo, Vigo/SPAIN, ²Unidad de Diagnóstico por Imagen, Institución Complejo Hospitalario Universitario de Vigo Galaría, Vigo/SPAIN, ³Department Unidad de Diagnóstico por Imagen, Institution Complejo Hospitalario Universitario de Vigo Galaría, Vigo/SPAIN
MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 4, 14:20–14:50

807 Abdominal and Pelvic Carcinoid tumors: Magnetic Resonance Imaging Pictorial Review
J.M. Palas¹, A. Matos¹, F.V. Gomes², M. Ramalho¹, C. Bagulho¹; ¹Radiology, Hospital Garcia de Orta, Almada/PORTUGAL, ²Imagiologia, Hospital de Faro, Faro/PORTUGAL
MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 4, 14:20–14:50

808 Liver Fat-Containing Lesions: Magnetic Resonance Imaging Pictorial Review
J.M. Palas¹, A. Matos¹, F.V. Gomes², M. Ramalho¹, C. Bagulho¹; ¹Radiology, Hospital Garcia de Orta, Almada/PORTUGAL, ²Imagiologia, Hospital de Faro, Faro/PORTUGAL
MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 4, 14:20–14:50

809 Correlation between MRI and Laparoscopy fi ndings on severe endometriosis
A. Guerra, A. Setúbal, V.V. Mascarenhas, L.R. Orvalho, H. Marques, A. Gaspar; Imagiology, Hospital da Luz, Lisbon/PORTUGAL
MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 6, 14:20–14:50

810 MR fi ndings of various causes of acute abdominal pain in pregnant women
J.Y. Son, C.I. Shin, J.K. Han, B.I. Choi; Radiology, Seoul National University Hospital, Seoul/ KOREA
MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 4, 14:20–14:50
811 The value of MRI evaluation in Endometriosis – A Pictorial Review
E. Batista¹, T.M. Cunha²; ¹Radiology, Hospital Curry Cabral – CHLC, 166/PORTUGAL, ²Radiology, Instituto Português de Oncologia Francisco Gentil, EPE, Lisbon/PORTUGAL
MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 4, 14:20–14:50

812 Manifestations and Complications of Endometriosis— the possibility of magnetic resonance imaging
E. Yukhno, I. Trofimenko, G. Trufanov, S. Serebryakova, T. Gribanova, V.V. Ryazanov; The Department of Radiology and Nuclear Medicine, Military Medical Academy, St. Petersburg/ RUSSIAN FEDERATION
MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 5, 14:20–14:50

813 WITHDRAWN

814 MR-Elastography of the Liver: Comparison and Performance evaluation of the Piezoelectric and Pneumatic Actuators
J.R. Loureiro¹, ², C.H. Rua¹, ², M. Mada³, T.A. Carpenter⁴; ¹Wolfson Brain Imaging Centre, Addenbrooke’s Hospital, Cambridge/UNITED KINGDOM, ²Department of Physics, Institute of Biophysics and Biomedical Engineering, Lisboa/PORTUGAL, ³Wolfson Brain Imaging Centre, Wolfson Brain Imaging Centre, Cambridge/UNITED KINGDOM, ⁴Wolfson Brain Imaging Centre, University of Cambridge, Cambridge/UNITED KINGDOM
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815 Diffüsion Weighted imaging in early sacroiliitis
Y. Durum¹, C. Çevikol², A.U. Şenol³; ¹Radiology, Adnan Menderes Üniveristy of Medicine, Aydın/TURKEY, ²Radiology, Akdeniz Üniversity of medicine, Antalya/TURKEY, ³Radiology, Akdeniz Üniversty of Medicine, Antalya/TURKEY
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816 Magnetic Resonance Tractography as a tool to evaluate pubovisceral muscle morphological changes.
S. Brandão¹, T. Da Roza², M. Parente², T. Mascarenhas³, I. Ramos¹, R.N. Jorge²; ¹Radiology, Centro Hospitalar de São João, Oporto/PORTUGAL, ²IDMEC, FEUP, Oporto/PORTUGAL, ³Depart. of Gynecology/Obstetrics, Centro Hospitalar de São João, Oporto/PORTUGAL
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817 Approach to the Noncooperative Patient in Abdominal MRI – T1W sequences
F.V. Gomes¹, J. Palas², A. Matos², M. Ramalho²; ¹Imagiologia, Hospital de Faro, Faro/ PORTUGAL, ²Radiologia, Hospital Garcia de Orta, Almada/PORTUGAL
MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 5, 14:20–14:50
818 Regional quantification of Cystic fibrosis using hyperpolarized Xe-129 and Chemical Shift Imaging

C. Fernandes1,2, S. Reis2, K. Ruppert1, J. Mugler lii, I. Ruset3, W. Miller1, W. Hersman3, J. Mata1; 1Radiology & Medical Imaging, University of Virginia, Charlottesville/UNITED STATES OF AMERICA, 2Imaging, Institute of Biophysics and Biomedical Engineering, Lisbon/PORTUGAL, 3Imaging, Xemed, Durham/UNITED STATES OF AMERICA

MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 5, 14:20–14:50

819 Accuracy of DWI-STIR and DWI-SPAIR fat-suppression techniques in ADC quantification and visibility of breast lesion identification at 3Tesla

M.L. Nogueira1, S. Brandão2, E. Matos3, J. Loureiro2, I. Ramos4; 1Radiology, Hospital de São João/Faculty of Medicine of Oporto and School of Health Technology of Oporto/Polytechnic Institute of Oporto, Oporto/PORTUGAL, 2Radiology, Hospital de São João/Faculty of Medicine of Oporto University, Oporto/PORTUGAL, 3Health Community, Institute Biomedical Sciences Abel Salazar of Oporto University, Oporto/PORTUGAL, 4Head Department of Radiology, Hospital de São João/Faculty of Medicine of Oporto University, Oporto/PORTUGAL

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820 Bilobed Gallbladder (Vesica Fellea Divisa).

I.T. Rakici1, A. Ozturk2; 1Radiology, Aksaray Devlet Hastanesi, Aksaray/TURKEY, 2Radiology, Bakırköy Ruh Sinir Hastalıkları Hastanesi, Istanbul/TURKEY

MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 5, 14:20–14:50

821 Pubovisceral muscle measurements in urinary incontinence.

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822 WITHDRAWN

823 Mimics of ovarian cancer in MR imaging

E. Batista1, T.M. Cunha2; 1Radiology, Hospital Curry Cabral – CHLC, 166/PORTUGAL, 2Radiology, Instituto Português de Oncologia Francisco Gentil, EPE, Lisbon/PORTUGAL

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824 Choroidal Melanoma: the role of magnetic resonance imaging from diagnosis to management

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Head and neck

825 Crucial Magnetic Resonance Imaging (MRI) anatomy of the head and neck in cancer staging.

G. Guzman Perez-Carrillo1, J.P. Hogg2; 1Radiology, Centro de Diagnostico, SA, Granada/SPAIN, 2Radiology, West Virginia University- Robert C. Byrd Health Sciences Center, Morgantown/WV/UNITED STATES OF AMERICA

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826 Imaging the lacrimal glands with magnetic resonance
R.G. Saru¹, T.A. Ferreira²; ¹Radiology, University Emergency Hospital, Bucharest/Romania, ²Radiology, Leiden University Medical center, 2300 RC Leiden/Netherlands
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827 The feasibility of Phosphorus-31 SWIFT dental MRI
Y. Sun¹, D. Idiyatullin², M. Garwood², A. Heerschap¹; ¹Radiology, Radboud University Medical Center, Nijmegen/Netherlands, ²Center for Magnetic Resonance Research, University of Minnesota, Minneapolis/MN/United States of America
MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 6, 14:20–14:50

828 WITHDRAWN

829 Carnosine Brain’s concentration measurement through magnetic resonance spectroscopy
E.F. Cardoso¹, B.F. Pastorello¹, V.D.S. Painelli², G. Artioli², B. Gualano², A.H. Lancha Junior², B. Foerster¹, C.D.C. Leite¹, M.C.G. Otaduy¹; ¹Instituto de Radiologia – Resonância Magnética, Hospital das Clínicas da Faculdade de Medicina da Universidade de São Paulo, São Paulo – SP/Brazil, ²Biodinâmica do Movimento Humano, Escola de Educação Física e Esporte – USP, São Paulo – SP/Brazil
MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 6, 14:20–14:50

830 Characterization of Focal Openings of the Blood-Brain Barrier at Different Time Points Using MR guided Focused Ultrasound Surgery
M. Costa¹, ², C. Fernandes¹, ², M. Wintermark¹, A. Klibanov¹, J. Mugler III¹, J. Mata¹;
¹Radiology and Medical Imaging, University of Virginia, Charlottesville/United States of America, ²Imaging, Institute of Biophysics and Biomedical Engineering, Lisbon/Portugal
MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 6, 14:20–14:50

831 4D flow analysis in brain aneurysms using 3D radial phase contrast MR imaging
P. Roca¹, M. Edjlali-Goujon¹, C. Rabrait², K. Johnson³, ⁴, O. Wieben⁵, ⁶, D. Trystram¹, O. Naggara¹, J.-F. Meder¹, C. Oppenheim¹; ¹Department of Neuroradiology, Sainte-Anne Hospital, Paris/FRANCE, ²Clinical Science Development Group, GE Healthcare, Buc/FRANCE, ³Department of Medical Physics, University of Wisconsin, Madison, madison/United States of America, ⁴Department of Radiology, University of Wisconsin, Madison, Madison/WI/United States of America, ⁵Department of Medical Physics, University of Wisconsin, Madison/WI/United States of America, ⁶Department of Radiology, University of Wisconsin, Madison/WI/United States of America
MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 6, 14:20–14:50
832 Comparison of gradient and spin echo arterial spin labeling (GRASE-ASL), pseudo continuous arterial spin labeling (pCASL) and dynamic susceptibility-weighted contrast-enhanced (DSC) perfusion in carotid stenosis.
F. Kellner-Weldon¹, M. El-Koussy¹, M.-L. Mono², K. Jann³, R. Verma¹, A. Federspiel⁴, J. Slotboom¹, M. Zbinden¹, R. Wiest¹, C. Kiefer¹, G. Schroth¹; ¹Neuroradiology, University Hospital Bern, Bern/SWITZERLAND, ²Neurology, University Hospital Bern, Bern/SWITZERLAND, ³Department of Psychiatric Neurophysiology, University Hospital of Psychiatry, Bern, Bern/SWITZERLAND

MEET THE AUTHOR in the EPOSTM Area at PC#1, on Oct. 4, 14:20–14:50

833 Mapping of Primary Auditory Cortex using high-resolution fMRI.
T. Wolak, M. Rusiniak, A. Pluta, M. Lewandowska, L. Sliwa, H. Skarzynski, P.H. Skarzynski; Bioimaging Research Center, World Hearing Center, Nadarzyn-Kajetany/POLAND

MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 6, 14:20–14:50

834 Time duration estimation of daily activities investigated by fMRI
G. Hossu¹, ², T. Rivasseau-Jonveaux³, ⁴, A. Simler¹, ⁵, A. Trognon⁶, M. Batt⁴, J. Felblinger², ⁶, M. Braun², ⁵; ¹CIC-IT, CHU de Nancy, Vandoeuvre les Nancy/FRANCE, ²IADI, Université de Lorraine, Nancy/FRANCE, ³Service de Gériatrie Hôpital de Brabois, Centre Mémoire de Ressources et de Recherche de Lorraine, Vandoeuvre les Nancy/FRANCE, ⁴Département de Psychologie, Groupe de Recherche sur les Communications, Laboratoire INTERPSY, EA 4432, Nancy/FRANCE, ⁵Neuroradiologie, CHU de Nancy, Nancy/FRANCE, ⁶U947, INSERM, Nancy/FRANCE

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835 Progressive ataxia with an unknown signal in 1H MR brain spectra
M. Dezortova¹, K. Brozova², M. Hajek³; ¹MR-Unit, Dept. Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, ²Department of Child Neurology, Thomayer Hospital, Prague/CZECH REPUBLIC, ³MR-Unit, Dept. Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC

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836 Study of valves permeability in hydrocephalus patients with ventricular shunt by quantitative phase-contrast magnetic resonance
R. Sanz-Requena, J. Forner-Giner, L. Marti-Bonmati, A. Alberich-Bayarri, G. Garcia-Marti; Radiology, Hospital Quiron Valencia, Valencia/SPAIN

MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 6, 14:20–14:50

837 Ectopic Neurohypophysis
I.T. Rakici¹, A. Ozturk²; ¹Radiology, Aksaray Devlet Hastanesi, Aksaray/TURKEY, ²Radiology, Bakirköy Ruh Sinir Hastalıkları Hastanesi, Istanbul/TURKEY

MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 6, 14:20–14:50

838 Superficial Siderosis of the Central Nervous System – a small series review
B.C. Gomes¹, A.C. Ribeiro², J. Nunes¹, P. Gouveia¹, R.P. Pais¹; ¹Serviço de Neurorradiologia, Hospital Geral, Centro Hospitalar e Universitário de Coimbra, Coimbra/PORTUGAL, ²Serviço de Neurologia, Hospital Geral, Centro Hospitalar e Universitário de Coimbra, Coimbra/PORTUGAL

MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 6, 14:20–14:50
839  Dysplastic Cerebellar Gangliocytoma (Lhermitte-Duclos Disease)
I.T. Rakici¹, A. Ozturk²; ¹Radiology, Aksaray Devlet Hastanesi, Aksaray/TURKEY, ²Radiology, Bakırköy Ruh Sinir Hastalıkları Hastanesi, Istanbul/TURKEY
MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 4, 14:20–14:50

840  MRI Findings of Primitive Neuroectodermal Tumours of The Brain
E. Aktas¹, N. Ciledag², B. Gulpinar¹, B. Savran¹, H. Kaygusuz¹, K. Arda¹; ¹Radiology, Ankara Oncology Research and Education Hospital, Ankara/TURKEY, ²Radiology, Ankara onkoloji eğitim ve araştırma hastanesi, Ankara/TURKEY
MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 6, 14:20–14:50
Scientific Programme

Software Exhibits

MEET THE AUTHOR time slots: Rooms 1.05 & 1.06
October 4, 17:15–18:15
October 5, 10:50–11:50
October 6, 10:50–11:50

Data analysis – MRI and MRS

841 BrainCON: software tool for graph theory based multimodal brain connectivity analysis and visualization
T. Spisák¹, G. Opposits¹, S.A. Kis¹, B. Clemens², M. Emri¹; ¹Department of Nuclear Medicine, University of Debrecen, Debrecen/HUNGARY, ²Department of Neurology, Kenézy Hospital Ltd., Debrecen/HUNGARY
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842 Connectomist-2.0: a novel diffusion analysis toolbox for BrainVISA
MEET THE AUTHOR in Room 1.05 on desk 3

843 UMMPerfusion: A Tool for Quantitative Perfusion Analysis in a Clinical Workflow
F.G. Zöllner¹, G. Weisser², S.P. Sourbron³, S. Kaiser¹,², M. Reich¹,², S.O. Schoenberg², L.R. Schad¹; ¹Computer Assisted Clinical Medicine, Medical Faculty Mannheim, Heidelberg University, Mannheim/GERMANY, ²Department of Clinical Radiology and Nuclear Medicine, University Medical Center Mannheim, Heidelberg University, Mannheim/GERMANY, ³Division of Medical Physics, University of Leeds, Leeds/UNITED KINGDOM
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844 Extendable Multimodality GPU enabled Computing Framework with specific illustration of DTI & DCE-MRI
D.K.S. Rathore¹, R.K.S. Rathore², R.K. Gupta³, P. Sahoo²; ¹Imaging R&D, Advanced Digital Imaging Solutions Laboratory, India, Kanpur/INDIA, ²Department of Mathematics and Statistics, Indian Institute of Technology, Kanpur/INDIA, ³Department of Radiodiagnosis, Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow/INDIA
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845 BrainMOD: 4-dimensional multimodal medical image analysis software
T. Spisák, S.A. Kis, G. Opposits, I. Lajtos, L. Balkay, M. Emri; Department of Nuclear Medicine, University of Debrecen, Debrecen/HUNGARY
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846 QMapIt, an ImageJ-plugin, for quantitative multi-parametric analysis of DICOM images
M.G. Kaul, G. Adam; Department of Diagnostic and Interventional Radiology, University Medical Center Hamburg-Eppendorf, Hamburg/GERMANY
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Scientific Programme

Software Exhibits

MEET THE AUTHOR time slots: Rooms 1.05 & 1.06
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847 An integrated framework to produce classifiers for MRS data and to visualise them into a decision-support system
M. Julià-Sapé¹, ², S. Ortega-Martorell¹, ³, A. García-Chacón¹, ³, C. Arús¹, ³;
¹Departament de Bioquímica i Biologia Molecular, Universitat Autònoma de Barcelona, Cerdanyola del Vallès/SPAIN, ²CIBER-BBN, Centro de Investigación Biomédica en Red en Bioingeniería, Biomateriales y Nanomedicina, Cerdanyola del Vallès/SPAIN, ³Centro de Investigación Biomédica en Red en Bioingeniería, Biomateriales y Nanomedicina, CIBER-BBN, Cerdanyola del Vallès/SPAIN
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848 Automated analysis of ACR phantom images
T. Mäkelä¹, ², T. Ihalainen², O. Sipilä²;
¹Department of Physics, University of Helsinki, Helsinki/FINLAND, ²Helsinki Medical Imaging Center, Hospital District of Helsinki and Uusimaa, Helsinki/FINLAND
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849 WITHDRAWN

850 CartiQ – Software for calculation and evaluation of quantitative MRI maps (e.g. T1, T2 maps)
C. Siversson;
Department of Medical Radiation Physics, Lund University, Malmo/SWEDEN
MEET THE AUTHOR in Room 1.06 on desk 9

Decision-support systems

851 Curiam BT kids, a Clinical DSS for pediatric brain tumour diagnosis
IBIME, Universitat Politècnica de València, Valencia/SPAIN
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852 ProstateAnalyzer:
GUI in Medical Domain with Management of DICOM Images of Prostate Cancer
C. Mata¹, P. Walker², A. Lalande², F. Brunotte², A. Oliver¹, J. Martí¹;
¹Computer Vision and Robotics Group, Universitat de Girona, Girona/SPAIN, ²Department of MR Spectroscopy, University Hospital, Dijon/FRANCE
MEET THE AUTHOR in Room 1.06 on desk 11
**853** My appetite: A novel software tool to identify appetite disorders.
A. Benítez¹, G. Peláez-Brioso¹, **B. Lizarbe²**, P. Lopez-Larrubia³, S. Cerdán¹, L. Lago-Fernández⁴, M. Sánchez-Montañés⁴; ¹Modelos Experimentales de Enfermedades Humanas, Instituto de Investigaciones Biomédicas “Alberto Sols”, Madrid/SPAIN, ²Instituto Investigaciones Biomédicas “Alberto Sols”, Madrid/SPAIN, ³Instituto Investigaciones Biomédicas “Alberto Sols” CSIC-UAM, Madrid/SPAIN, ⁴Escuela Politécnica Superior, Departamento de Ingeniería Informática, Universidad Autónoma de Madrid, Madrid/SPAIN
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**854** ArchiMed : A research PACS
E. Micard¹, ², D. Husson¹, ², ³, ⁴, F. Odille³, ⁴, J. Felblinger¹, ², ³, ⁴, C. Pasquier¹, ²; ¹CIT 801, INSERM, Vandœuvre-lès-Nancy/FRANCE, ²CIC-IT, CHU Nancy, Vandœuvre-lès-Nancy/FRANCE, ³IADI, Université de Lorraine, Vandœuvre-lès-Nancy/FRANCE, ⁴IADI, U947, INSERM, Vandœuvre-lès-Nancy/FRANCE
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**855** SendMeClever – Web based tool for transferring MR data
F. Jiru, M. Hajek; MR-Unit, Department of Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC
MEET THE AUTHOR in Room 1.06 on desk 14

**856** Images Preview with a Dynamic Acquisition Real-time System (DARTS)
C. Meyer¹, ², P.-A. Vuissoz¹, ², J. Felblinger¹, ², ³, ⁴; ¹IADI, Université de Lorraine, Nancy/FRANCE, ²IADI U947, INSERM, Nancy/FRANCE, ³Pôle Imagerie, CHU Nancy, Nancy/FRANCE, ⁴CIC-IT 810, INSERM, Nancy/FRANCE
MEET THE AUTHOR in Room 1.06 on desk 15

**857** openEMS – A Free and Open Source FDTD Software Package, Supporting Cartesian and Cylindrical Coordinates Ideally Suited for MRI Applications
T. Liebig, A. Rennigs, D. Erni; General and Theoretical Electrical Engineering (ATE), University of Duisburg-Essen, Duisburg/GERMANY
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Bracco Imaging S.p.A., part of the Bracco Group, is one of the world’s leading companies in the diagnostic imaging business. Headquartered in Milan, Italy, Bracco Imaging develops, manufactures and markets diagnostic imaging agents and solutions that meet medical needs and facilitate clinical solutions. Bracco Imaging offers a products and solutions portfolio for all key diagnostic imaging modalities: X-Ray Imaging (including Computed Tomography-CT, Interventional Radiology, and Cardiac Catheterization), Magnetic Resonance Imaging (MRI), Contrast Enhanced Ultrasound (CEUS), Nuclear Medicine through radioactive tracers. The diagnostic imaging offer is completed by several medical devices and advanced administration systems for contrast imaging products in the fields of radiology. The Company operates in over 90 markets worldwide, either directly or indirectly, through subsidiaries, joint ventures, licenses and distribution partnership agreements. Manufacturing activities are located in Italy, Switzerland, Japan, China and Germany. The Company is an innovative Research and Development (R&D) player with an efficient process oriented approach and a track record of innovation in the diagnostic imaging industry. R&D activities are managed in the three Research Centers located in Italy, Switzerland and USA.

Bruker is the worldwide technology and market leader in preclinical MRI, providing advanced solutions for small animal MRI in preclinical research and molecular imaging. Our products enable the latest imaging and spectroscopy applications for in vivo investigation of small animals. The BioSpec® is a multipurpose system for biomedical research designed for maximum flexibility in implementing the latest developments in imaging and spectroscopy. The PharmaScan® has been designed for routine, dedicated applications in molecular imaging and pharmaceutical research. The ClinScan® is designed to further facilitate translational research from ‘mice to men’ in the field of preclinical MRI. The software package ParaVision® provides ‘ease of use’ for the routine user, and yet retains the flexible and powerful programming features required by the expert user. Bruker designs, manufactures and distributes life science and analytical research tools based on magnetic resonance core technology. Our technologies include NMR, EPR, MRI as well as superconducting magnets.
EIBIR GmbH
European Institute for Biomedical Imaging Research
Neutorgasse 9
1010 Vienna
AUSTRIA
Phone: +43 1 533 40 64 – 13
Fax: +43 1 535 70 41
office@eibir.org
www.eibir.org

Foyer D

EIBIR is a service organisation for scientists run by scientists. As a platform open to all disciplines with an interest in biomedical imaging, EIBIR relies on bottom-up initiatives and active involvement on the part of all members. EIBIR’s shareholder organisations CIRSE, COCIR, EANM, EFOMP, EORTC, ESMRMB, ESPR and EuroPACS emphasise the importance of multidisciplinarity in biomedical imaging research.

EIBIR currently consists of 280 member institutions, of which more than 100 institutes from 19 countries have subscribed to the active, regular or associate member service packages. EIBIR offers its Network Members privileged services to aid networking activities and project management, such as:

• Information on funding programmes
• Participation in EIBIR scientific activities
• Support in proposal preparation
• Project management and coordination
• Research communication and dissemination
• Meeting organisation
• Training
• Other services (Access to database of research institutions, Career Forum, Event Calendar)

In order to create multidisciplinary and interdisciplinary research environments, EIBIR’s ambition is to bridge the gap between basic and clinical research and technological and pharmacological development. The long-term aim of EIBIR is to coordinate and support the development of biomedical imaging technologies and the dissemination of knowledge, with the ultimate goal of improving diagnosis, treatment and prevention of disease.

Electrical Geodesics, Inc. (EGI)

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USA
Phone: +1 541 687 7962
Fax: +1 541 687 7963
info@egi.com
www.egi.com

booth #16

Whole-head, fMRI-compatible EEG with 32, 64, 128, 256 channels provide the highest resolution data for advanced brain research. EGI’s complete Geodesic EEG Systems include the Geodesic Sensor Net for fast electrode application and optimal comfort; amplifiers for up to 256 channels; and software for acquisition, review, and analysis. MetaFile Format facilitates interoperation with third party analysis and signal processing routines. EGI also offers an integrated source estimation and optical sensor localization system, experimental control software, integrated eye tracking systems, and polygraphic input boxes. Excellence in customer support is provided with all products. Stop by the EGI booth for a demo!
The European Society for Magnetic Resonance in Medicine and Biology (ESMRMB) is a non-profit Society, which aims to support educational activities and research in the field of magnetic resonance imaging. The ESMRMB is open to physicians, engineers, scientists and other individuals who are interested in the development or the introduction of magnetic resonance techniques in the fields of medicine and biology. Apart from its annual meeting, the ESMRMB organises the School of MRI educational courses on applied MR techniques and clinical MR imaging as well as Lectures on Magnetic Resonance courses designed to provide the physical fundamentals of MR imaging and spectroscopy, as well as aspects of applications of these techniques in clinical and biochemical research and development. Since 2008 the Hands-On MRI course programme, aimed at MR technologists, radiographers and interested physicians has been successfully introduced. Each course is held on equipment of different vendors with 50% lectures and 50% hands-on training on the MRI console and post-processing software.

GE Healthcare is dedicated to helping you transform healthcare delivery by driving critical breakthroughs in biology and technology. Our expertise in medical imaging and information technologies, diagnostics, patient monitoring systems, drug discovery, and biopharmaceutical manufacturing technologies is enabling healthcare professionals around the world discover new ways to diagnose and treat disease earlier. Our goal is more targeted treatments, so they can help their patients live their lives to the fullest. Please visit our stand while at ESMRMB to learn more about our offerings in the field of MR.
icoMetrix offers the advanced image processing that is needed for quantitative analysis of biomedical images. You send us the images, we send back the results. Whether it be for a single subject or large-scale comparative group analysis, for research, clinical trials or clinical practice, advanced image processing by icoMetrix allows you to get better results, faster. icoMetrix currently offers three dedicated product lines: neuroMetrix, oncoMetrix and adipoMetrix. Our broad experience in these fields is translated into over 200 scientific publications. It allows us to understand your problem, assist in selecting the optimal imaging approach, process your images, and analyse the results. Moreover, within tailorMetrix, we combine our extensive experience to build dedicated image analysis pipelines. We provide flexible solutions that are appreciated for their robustness and reliability.

On 1 January 1994, the Society of Magnetic Resonance in Medicine and the Society of Magnetic Resonance Imaging merged to form the Society of Magnetic Resonance (now named the International Society for Magnetic Resonance in Medicine). The first annual meeting of the merged Society was held in Dallas, Texas, USA, in March 1994. The most recent annual meeting was held in Melbourne, Victoria, Australia in 2012. The merged International Society for Magnetic Resonance in Medicine is an international, nonprofit, scientific association whose purpose is to promote communication, research, development, and applications in the field of magnetic resonance in medicine and biology and other related topics and to develop and provide channels and facilities for continuing education in the field. Its multidisciplinary membership of over 6,000 consists of clinicians, physicists, engineers, biochemists, and technologists. In addition to its large scientific meetings, the Society holds workshops and publishes two journals, Magnetic Resonance in Medicine and the Journal of Magnetic Resonance Imaging, and a newsletter, MR Pulse. It also sponsors study groups on specific areas of scientific interest and chapters based on geographical location.
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<td>Hitachi Medical Systems Europe Holding AG</td>
<td>Sumpfstraße 13, 6300 Zug, Switzerland</td>
<td>Phone: +41 41 748 63 33</td>
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<td>Hitachi Medical Systems Europe Holding AG</td>
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Hitachi Medical Systems Europe is the European division of Hitachi Medical Corporation Japan, itself belonging to the internationally renowned electronics company Hitachi Ltd. Japan, which has been serving the industry for more than 100 years.

Hitachi Medical Systems Europe is a first choice supplier of open MRI and state-of-the-art high-field MRI systems, multi-slice CT systems, as well as ultrasound scanners and optical topography devices. All products share a focus on excellent diagnostic information and patient comfort, combined with great economic value of ownership and ease of use. With experience over 30 years, Hitachi is one of the leading manufacturers of MRI with more than 5,000 users worldwide.

Come and discover the benefits of our brand new Echelon Oval “human shape MRI” with its game changing 74cm oval bore; the widest 1.5T MRI available in the market. The system allows for optimal patient experience combined with outstanding image quality. Don’t miss the opportunity to convince yourself of Hitachi’s crisp clear image quality across the entire system range.

LMT Lammers Medical Technology GmbH is a high technology enterprise in the fastidious market of active medicine products, specializing in the interface of neonatology and radiology.

LMT is the first company offering an MR-conditional* incubator with integrated neonatal array coils for new-borns and premature babies. The MR Diagnostics Incubator System nomag®IC offers the solution for a large, thus far unsolved problem: With the nomag®IC newborns and premature babies can be examined for the first time after birth by optimal non-invasive diagnostics in the magnetic resonance imaging. It facilitates safe and convenient transportation from the NICU to the MRI department with MR-conditional* trolley and MR-conditional* gas and power supply. Additionally, the nomag®IC offers a wide range of necessary accessories, such as: MR-conditional* ventilation, integrated monitoring and trolley for ambulance transport.

LMT is an ISO 13485 certified manufacturer with many years of experience in developing medical devices.

*according to ASTM F2503-08
MRC Systems GmbH
Hans-Bunte-Straße 8-10
69123 Heidelberg
GERMANY

Phone: +49 6221 13 80 300
Fax: +49 6221 13 80 301
info@mrc-systems.de
www.mrc-systems.de
booth #6a

MRC Systems GmbH from Heidelberg, Germany offers MRI compatible video cameras and useful accessories. Since more than 6 years researcher and radiologists all over the world successfully use the video cameras in their daily routine and research work. The video cameras can be used inside the bore of MRI scanners or anywhere in the intervention room. They have been tested in different environments ranging from 0.23 to 9.4 T. They can be used during functional MR imaging without interference of MRI or video images. Typical applications are monitoring of subjects or instruments, eye-tracking, motion tracking, MRI diagnostics in paediatrics and room monitoring. The different camera models are complemented by infrared and visible light sources as well as by different types of camera holders. The systems can be easily integrated into specific applications. The installation is without any difficulty.

MRC was founded in 1996 and offers a broad range of medical and technical products with electronic, mechanical, optical, and software elements. MRC also offers customisations of their product lines and full service contract development of medical products including CE marking.

MRI.TOOLS GmbH
Robert-Rössle-Straße 10
13125 Berlin
GERMANY

Phone: +49 30 9406 4513
Fax: +49 30 9406 49178
info@mritools.de
http://www.mritools.de
booth #6

MRI.TOOLS GmbH is a competent partner that develops and delivers solutions for clinical and preclinical life science applications. The key mission of MRI.TOOLS GmbH is to help you to achieve your research and clinical goals. So harder we work so easier your research and clinical work becomes. MRI.TOOLS’s main focus is the development, sales and services of innovative hardware and novel technology for magnetic resonance imaging (MRI), computed tomography (CT) and positron emission tomography (PET). Our product portfolio encompasses enabling radiofrequency (RF) coils tailored for a broad range of applications, devices designed for reliable cardiac gating of imaging plus accessories that will make your daily life more comfortable. MRI.TOOLS is also very proud to offer consulting services such as validation and certification of medical devices.

From our portfolio: EasyACT – triggering/gating device for medical imaging – that will transform your workflow for triggering and gating of MRI and other biomedical imaging techniques. RF coils for clinical and preclinical MRI – we provide solutions for your applications stretching through all field strength for human and animal imaging. MRI Accessories – useful tools as well as customer tuned accessories to speed up your research.
Neoptix Canada LP.  
Fiber Optic Sensors  
1415 rue Frank-Carrel,  
Suite 220  
G1N 4N7 Québec  
CANADA  
Phone: +1 418 687 2500  
Fax: +1 418 687 2524  
mdore@qualitrolcorp.com  
www.qualitrolcorp.com  
booth #8

| Neoptix engineers and markets a complete family of fiber optic temperature sensors offering numerous advantages over traditional sensors. Neoptix probes are immune to EMI for measurements in hostile environments. They are flexible and interchangeable without calibration or numbers to input in the transducers. Several models of electronic transducers and probes are available to fit your specific needs. Up to 512 inputs can be supported simultaneously. For additional information, contact Mr. Marc Doré: Tel +1-418-687-2500, email mdore@qualitrolcorp.com |

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NORAS MRI products GmbH  
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GERMANY  
Phone: +49 931 29927 0  
Fax: +49 931 29927 20  
mri@noras.de  
www.noras.de  
booth #20

| The company NORAS MRI products GmbH can look back on more than 20 years of experience in developing devices for MRT. Our product range includes surface coils such as our CPC 2x4ch multifunctional coil, interventional MR head holders/ coils, a patient rest with integrated breast coils, breast immobilisation/biopsy devices compatible with Siemens, GE and Philips systems, a MR-safe trolley for using and storing our CPC together with a medical monitor, vacuum mattresses and further accessories. Our products are CE and FDA approved. FDA registration number 3004929307. |

Product categories:

- Magnetic Resonance
- Axial compression frame
- Biopsy devices, MR compatible
- fMRI accessories
- MR injector/ MR coils
- MR safe furnishings
- Nonferrous accessories and instrumentation
Exhibition Guide

NordicNeuroLab
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NORWAY
Phone: +47 55 70 70 95
Fax: +47 55 70 70 96
info@nordicneurolab.com
www.nordicneurolab.com
booth #7

From state-of-the-art post-processing and visualization software for BOLD, Diffusion/DTI, and Perfusion/DCE imaging to fMRI hardware for audio and visual stimulation, eye tracking, and patient response collection, NNL’s products are used around the world by researchers and clinicians alike. Ultimately, we are dedicated to bringing the most advanced neuro-imaging tools to market while making functional MRI programs easy to implement.

Philips Healthcare
P.O Box 10.000
5680 DA Best
THE NETHERLANDS
healthcare@philips.com
www.philips.com/healthcare
booth #14

Philips is one of the world’s leading technology companies, with a long history of practical innovation and visionary design. In healthcare, we are committed to understanding the human and technological needs of patients and caregivers. We believe this understanding will help us deliver solutions that not only enable more confident diagnoses and more efficient delivery of care, but also improve the overall experience of care. Philips simplifies healthcare by focusing on the people in the care cycle – patients and care providers. People focused healthcare means learning what it is like to be a patient, as well as understanding the complexities facing the care givers. Through combining human insights and clinical expertise, Philips aim to improve patient outcomes while lowering the burden on the healthcare system, and to develop more intuitive, affordable and better technology solutions, to help take some of the complexity out of healthcare. That is healthcare simplified. We offer equipment, software, and services for imaging, patient monitoring, resuscitation and much more. Advanced healthcare solutions are a fundamental part of the portfolio for both healthcare professionals and consumers, to meet the needs of patients in hospitals and at home.
Pure Devices GmbH is a manufacturer of state-of-the-art portable MRI scanners for education and research. The young company consists of a qualified team of engineers, electrotechnicians and physicians. Team spirit, solidarity, the satisfaction of defining new goals together and breaking new ground are not just practiced in the workplace. Our successful hardware products are proof for our advanced designs at the forefront of technology.

Since 2011, the headquarters is located in Würzburg in the heart of Europe. From here the research and development, project planning, construction, set up, testing and finally sale takes place. All our products are designed and made in Germany.

The latest product innovations are our bench-top MRI scanners “portable Lab” for educational use and “research Lab” for the scientific laboratory setting.

RAPID Biomedical GmbH is specialised in RF coils for MRI and NMR spectroscopy. The company collaborates with research institutes, hospitals and MR system manufacturers worldwide. Our products include 1H MR resonators for clinical studies at all magnetic field strengths and for all organs. We also supply multi-nuclear (e.g. 1H/ 31P) MR-coils for combined MRI and MRS in clinical and basic science investigations. We offer custom made MR probe heads for routine animal research and various accessory devices.

Our recent work concentrates on dual tuned coils and multi array coils for parallel MRI both for human as well as for animal studies.

Our sister company RAPID MR International, LLC (www.rapidmri.com), situated in Columbus, Ohio, is contact partner for customers from the United States, Canada and South America.

We cordially invite you to visit our booth. Take your chance in our traditional quiz and see RAPID products and scientific results first hand.
Siemens AG Healthcare Sector

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91052 Erlangen
GERMANY

Phone: +49 9131 84 0
Fax: +49 9131 84 2924
medg.gms@siemens.com
www.siemens.com/
healthcare

booth #3

The Siemens Healthcare Sector is one of the world’s largest suppliers to the healthcare industry and a trendsetter in medical imaging, laboratory diagnostics, medical information technology and hearing aids. Siemens offers its customers products and solutions for the entire range of patient care from a single source – from prevention and early detection to diagnosis, and on to treatment and aftercare. By optimizing clinical workflows for the most common diseases, Siemens also makes healthcare faster, better and more cost-effective. Siemens Healthcare employs some 48,000 employees worldwide and operates around the world. In fiscal year 2010 (to September 30), the Sector posted revenue of 12.4 billion euros and profit of around 750 million euros. For further information please visit: www.siemens.com/healthcare

Toshiba Medical Systems

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Fax: +31 7936 89 444
info@tmse.nl
www.toshiba-medical.eu

booth #5

Following the Made for Life commitment, patients are the primary focus of Toshiba’s innovations. Toshiba’s commitment to help improve patient care spans across all of its modalities. Like the world’s first and only 320-row detector CT scanner – the Aquilion ONE – that can scan entire organs in just one rotation. Or picture perfect ultrasound systems – Aplio series – with FlyThru technology – will carry diagnostic imaging into the future.

Toshiba has completely redesigned its Titan MR system – from its core technology to the outer skin – and made it scalable from economic to premium. Choose the configuration that is right for your facility now and upgrade to a higher platform in the future. Toshiba’s Titan is world’s most patient-friendly MR system. The widest, quietest and brightest bore provides maximum patient comfort without compromising on image quality.

The M-Power console offers a smart, intuitive and extreme user-friendly interface, optimizing workflow from patient registration to report and making advanced post-processing as easy as 1, 2, 3.

All this makes the Next Generation Titan series the best MR scanning experience, for you and your patients.

Toshiba: Made for Patients, Made for You, Made for Partnership!
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Bookshop

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UNITED KINGDOM

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Fax: +44 208 715 1722
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booth #9
ENCITE Final Public Workshop
Cell imaging and tracking expertise
Monday, 5 November 2012, 8:00 – 17:30
Leiden University Medical Centre, NL

Imaging plays a central role for tomorrow’s medicine

No registration fees required! Registration is mandatory!

Registration details at: www.encite.org

New technologies and methods in the field of imaging cell therapies and contrast agents developed within ENCITE will be presented.

The workshop has a strong focus on innovation, implementation, and sustainability of the project outcomes.

Programme

7:30 – 8:30  Registration
8:30 – 12:15  Welcome and presentation of ENCITE’s novel technologies

Moderation: G. Krestin, Erasmus, Rotterdam/NL
• Novel imaging technologies
  J. Hennig, Freiburg/DE
• Novel imaging reporter probes
  S. Aime, Torino/IT
• Novel tools for cell labelling
  M. Neeman, Rehovot/IL

10:10 – 10:30  Coffee break

• Pre-clinical validation
  M. Bernsen, Rotterdam/NL
• Translation towards clinical applications
  C. Figdor, Nijmegen/NL

12:15 – 13:15  Lunch

13:15 – 17:30  Imaging plays a central role for tomorrow’s medicine

Moderation: C. Figdor, University Nijmegen/NL

13:15 – 13:25  Video launch
In vivo image-guided cell therapy has revolutionized medicine!
A European-wide extensive collaboration on translational research and its impact on healthcare problems that affect our everyday lives

13:25 – 15:00  Key note lectures
• Clinical MRI cell tracking: the first 7 years
  J. Bulte, Johns Hopkins Medicine, Baltimore/USA
• MRI-based monitoring of stem cells in regenerative medicine
  E. Sykova, Experimental Medicine, Prague/CZ
• New approaches for correlated light microscopy and 3D electron microscopy applied to multi-scale challenges: tools for bridging gaps in knowledge & understanding
  M. Ellisman, Microscopy and Imaging Research, San Diego/USA

15:00 – 15:15  Coffee break

15:15 – 16:30  Round table discussion
Imaging in the next 10 years: new diagnostic imaging and image-guided therapy and their translation on patients’ level

Moderation: C. Figdor, University Nijmegen/NL
• F. Kiessling, Universitätsklinikum Aachen/DE
• G. van Dam, Rijksuniversiteit Groningen/NL
• M. Rudin, ETH Zürich/CH (tbc)
• B. Loubaton, GE Healthcare, Vélizy Cedex/FR
• K. Brindle, University Cambridge/UK

16:30 – 17:30  Visionary outlook and closing
• K. Nicolay, Technische Universität, Eindhoven/NL
We would like to celebrate the passing of another exciting ESMRMB Meeting with a Farewell Party at the Centro de Congressos de Lisboa!

**Saturday, October 6 at 19:30**
**Centro de Congressos de Lisboa**
**Restaurant on Level 1**

At 19:00 the Closing and Award Ceremony will take place in Auditorium I.

At 19:30 we will then move to the restaurant area and give three cheers to our hosting country Portugal.