

ESMRMB 2015

OCTOBER 1–3

EDINBURGH/UK

ESMRMB
European Society for Magnetic Resonance in Medicine and Biology

32ND ANNUAL SCIENTIFIC MEETING



MEETING GUIDE

The European Forum for MR research and clinical practice
www.esmrmb.org





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Dugald Stewart Monument, Calton Hill



A Warm Welcome



Dear friends, dear colleagues,

On behalf of the Executive Board, the Scientific Programme Committee, the Educational Committee and the Local Organising Committee it is our immense pleasure to welcome you to this 32nd annual meeting of the European Society of Magnetic Resonance in Medicine and Biology in the city of Edinburgh.

This meeting's theme is integration and collaboration: between clinicians and physicists, between junior and senior researchers, and between the fundamental and applied sciences. New this year are two dedicated networking sessions. On Thursday afternoon you are all invited to meet some of the well-known colleagues in our field of MRI research. An excellent opportunity to meet the author of all those papers you've read in preparation of your thesis, or to exchange ideas with the more senior researchers in your field. If you're looking for a research collaboration, we invite you to our Saturday morning session 'Collaborations Café'.

In addition to these dedicated networking opportunities and interactive scientific sessions, we present an educational programme highlighting both well-established and novel MRI techniques and applications. Of course, traditional highlights can again be found in the programme, such as the Sir Peter Mansfield Lecture, the Hot Topic Debate, and the Roundtable Discussion. Lunch is made available at the Industry sponsored symposia, and we do encourage you to also visit the technical exhibit displaying the latest products from the industrial and pharmaceutical companies in our field.

The Local Organising Committee cordially invites you to the Welcome Party on Thursday evening, 1st October. Catch up with colleagues in the setting of the magnificent National Museum of Scotland, enjoy some refreshments, and watch out for a spectacular finale!

Edinburgh is a vibrant city with stunning architecture including the mediaeval Old Town, the Georgian New Town, and of course its famous castle. A huge range of restaurants offers everything from simple local produce to Michelin-starred dining. If you have a day free after the conference then a visit to the mountains and lochs of the Scottish Highlands is a must.

We would like to thank you all for your contributions and efforts to make this meeting a success. We wish you a very fruitful and enjoyable meeting here in Edinburgh.





Committees



Dugald Stewart
Monument, Calton Hill

EXECUTIVE BOARD

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Golay, Xavier, London/UK

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Smits, Marion, Rotterdam/NL

Chairperson of the LOC 2015

Marshall, Ian, Edinburgh/UK

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Kreis, Roland, Bern/CH





SCIENTIFIC PROGRAMME COMMITTEE

M. Smits, Rotterdam/NL (chairperson)
C. Barillot, Rennes/FR
X. Golay, London/UK
P. Gowland, Nottingham/UK
A. Henning, Zurich/CH
R. Kreis, Bern/CH
M. Paley, Sheffield/UK
E. Scheurer, Graz/AT
J. Schnabel, London/UK
C. Segebarth, Grenoble/FR
S. Trattnig, Vienna/AT
V. Vandecaveye, Leuven/BE
C. Vandulek, Kaposvár/HU



Ross Fountain
and Edinburgh Castle

LOCAL ORGANISING COMMITTEE

I. Marshall, Edinburgh/UK (chairperson)
D. Martin, Edinburgh/UK
N. Roberts, Edinburgh/UK
R. Sellar, Edinburgh/UK
S. Semple, Edinburgh/UK
E. van Beek, Edinburgh/UK





List of Reviewers

- E. Achten, Ghent/BE
C. Arús, Cerdanyola del Vallès/ES
Z. Assaf, Cherbourg/FR
E. Barbier, Grenoble/FR
C. Barillot, Rennes/FR
R. Beets-Tan, Maastricht/NL
M. Bernard, Marseille cede/FR
M. Bernsen, Rotterdam/NL
I. Berry, Toulouse/FR
O. Beuf, Villeurbanne/FR
R. Bowtell, Nottingham/UK
K. Brindle, Cambridge/UK
B. Celda, Burjassot/ES
S. Cerdán, Madrid/ES
M.A. Cova, Trieste/IT
I. Darrasse, Orsay/FR
F. De Keyzer, Leuven/BE
W. Dreher, Bremen/DE
C. Faber, Münster/DE
J. Felblinger, Nancy/FR
M. Forjaz Secca, Monte de Caparica/PT
J.-M. Franconi, Bordeaux/FR
M. Friebel, Magdeburg/DE
J. Futterer, Nijmegen/NL
D. Gadian, London/UK
X. Golay, London/UK
P. Gowland, Nottingham/UK
R. Gruetter, Lausanne/CH
A. Haase, Garching/DE
M. Hajek, Prague/CZ
M.A. Hall-Craggs, London/UK
S. Haller, Geneva/CH
A. Heerschap, Nijmegen/NL
J. Hennig, Freiburg/DE
A. Henning, Tübingen/DE
L. Hertz-Pannier, Saclay/FR
F.A. Howe, London/UK
P.M. Jakob, Würzburg/DE
M. Julià-Sapé, Cerdanyola del Vallès/ES
H.-U. Kauczor, Heidelberg/DE
V. Kiselev, Freiburg/DE
D. Klomp, Utrecht/NL
L. Knutsson, Lund/SE
H. Köstler, Würzburg/DE
S. Kozerke, Zurich/CH
R. Kreis, Bern/CH
M. Krssak, Vienna/AT
D. Lacroix, Sheffield/UK
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H. Lamb, Leiden/NL
E.-M. Larsson, Uppsala/SE
D. Le Bihan, Gif-sur-Yvette/FR
J. Leupold, Freiburg/DE
M. Maas, Amsterdam/NL
J. Machann, Tübingen/DE
I. Marshall, Edinburgh/UK
L. Martí-Bonmatí, Valencia/ES
B. Menze, Munich/DE
H.J. Mutsaerts, Amsterdam/NL
A. Nederveen, Amsterdam/NL
M. Noseworthy, Hamilton/CA
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G. Parraga, London/CA
R. Peeters, Tielt-winge/BE
R. Pohmann, Tübingen/DE
R. Pozzi Mucelli, Verona/IT
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L. Schad, Mannheim/DE
F. Schick, Tübingen/DE
M. Schiebler, Madison/US
F. Schubert, Berlin/DE
N. Schwenger, Tübingen/DE
J. Sijbers, Antwerpen/BE
M. Smits, Rotterdam/NL
O. Speck, Magdeburg/DE
G. Strijkers, Amsterdam/NL
P. Summers, Modena/IT
D. Thomas, London/UK
J. Tintera, Prague/CZ
R. Turner, Leipzig/DE
K. Uludag, Tuebingen/NL
L. van den Hauwe, Brasschaat/BE
A. van der Lugt, Maastricht/NL
M. Van Osch, Leiden/NL
V. Vandecaveye, Leuven/BE
C. Vandulek, Kaposvár/HU
A. Vellido, Barcelona/ES
M. Vernooij, Rotterdam/NL
M. Walter, Magdeburg/DE
J. Warnking, Grenoble/FR





Abstracts

ESMRMB 2015 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 2015 meeting are fully citable in literature.

Abstracts, Thursday, October 1, 2015

DOI: 10.1007/s10334-015-0487-2

Abstracts, Friday, October 2, 2015

DOI: 10.1007/s10334-015-0488-1

Abstracts, Saturday, October 3, 2015

DOI: 10.1007/s10334-015-0489-0

EPOS™ Poster, Paper Poster, Clinical Review Poster, Software Exhibits

DOI: 10.1007/s10334-015-0490-7

Author Index

DOI: 10.1007/s10334-015-0491-6

For environmental reasons ESMRMB has decided not to produce CD-ROMs or USB sticks. 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 2015 Congress participants for download at the ESMRMB website under: ESMRMB 2015 Congress – Download Congress Documents.

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 107 – 120.

Hot Topic Debate

The highly popular debate is continued also this year. Strong opponents have been selected for the Friday evening debate session on “MR in acute stroke - a waste of time?”.

After each opponent has given a 15-minute statement, the audience is strongly encouraged to actively participate in the debate.

Hot Topic Debate on “MR in acute stroke - a waste of time?”

Friday, October 2, 17:20–18:20

Room Sidlaw

Lightning Talks

We would like to invite congress participants to join this year's “Lightning Talks” where authors of designated EPOS and paper posters will briefly present their poster to the audience! During the last 30 minutes of each session the audience and authors will move to the EPOS and paper poster exhibition to “meet-the-authors” and get a more detailed presentation and be able to raise questions.



General Scientific Information

Roundtable Discussion

On Saturday, October 3 from 17:20 to 18:20, there will be a Roundtable Discussion on "Incidental findings" (Room Sidlaw).

Scientific Poster Exhibition

ESMRMB 2015 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 84 traditional paper posters and 11 clinical review posters, which will be mentioned in the respective abstract section of the Meeting Guide. Posters related to the 14 software exhibitions will also be displayed in the paper poster exhibition area!

Sir Peter Mansfield Lecture

The official opening will be on Thursday, October 1 at 09:10 in the main auditorium Pentland. The Sir Peter Mansfield Lecture entitled "Exciting moments in scientific research: from ^{31}P NMR of live cells to revealing order in tissues by double-quantum filtered NMR" will be given by Professor Gil Navon (IL) and held right after the opening ceremony from 09:30–10:20 in the main auditorium.

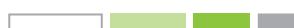
Software Exhibits

This exhibit 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 14 exhibits will be open from Thursday-Saturday in Moorfoot.

You can **meet the presenters** of the exhibit during **15:20 and 15:40 on each day of the congress**.

Teaching Syllabus

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





GM damage in MS as glanced by MRI: measurement, interpretation and clinical application (in collaboration with MAGNIMS)

Thursday, October 1, 2015, 8:00–9:00

This teaching course focuses on grey matter damage in MS: focal lesions in the grey matter, diffuse damage to the grey matter, and grey matter tissue loss or “atrophy”. The first talk highlights techniques to visualize and quantify these changes using MRI, as well as discussing how the presence of one may influence the measurement of another. Next, the pathological substrate of the changes is discussed, with particular attention to combined MRI-histopathology studies relating MRI measures to histological staining measures. Finally, the last talk discusses the relation of MRI-measured grey matter damage with clinical worsening, and reviews evidence of the effect of MS therapy on these MRI measures.

Plenary Session MR techniques for lung imaging (in collaboration with IWPFI)

Thursday, October 1, 2015, 10:30–12:00

Teaching Session MR applications in chest diseases (in collaboration with IWPFI)

Thursday, October 1, 2015, 14:00–15:30

These sessions are co-organised with the International Workshop of Pulmonary Functional Imaging (IWPFI), providing reviews of international faculty on the most commonly employed chest MRI methods. The plenary session will particularly focus on delivering a state-of-the-art approach to pulmonary MRI, while the teaching session will bring across the utility of various MRI methodologies towards diagnosis of the most common chest conditions using pulmonary MRI.

MRI Quality and Safety (in collaboration with EFOMP)

Friday, October 2, 2015, 8:00–9:00

QA/QC and safety for emerging MRI applications

The advent of new MRI devices (high field MRI, hybrid PET/MR) has consequences for the quality assurance/control programmes. New phantoms, specific for that purpose, need to be developed. In addition, the increasing number of devices and applications require the development of robust, yet versatile QA programmes, that need to be tested and validated in different clinical centres. High field MRI also impacts Safety Risk assessment, and the legal status, subjective experiences, effects of the main magnetic field (both biological and projectile effects), acoustic noise, RF and implants at higher field strengths need to be considered.

MRI in neurodegeneration and ageing - new approaches (in collaboration with ISMRM British Chapter)

Saturday, October 3, 2015, 8:00–9:00

There is ever-increasing interest in the development and application of magnetic resonance methods, including a variety of quantitative techniques, that can detect abnormalities and changes too subtle to detect on conventional qualitative neuroradiological assessment. This is particularly pertinent to the early detection of neurodegenerative disease. The presentations that have been selected for this session illustrate the role that such methods can play in the investigation of neurodegeneration and ageing.





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St. Giles' Cathedral





EPOST™ – Fully digital scientific exhibition

Fully digital scientific exhibition at ESMRMB 2015, the electronic format of the scientific exhibition is continued, using EPOST™, 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.

EPOST™ Onsite

Individual workstations

25 computer workstations have been installed in the EPOST™ area, room Moorfoot on level 0, at which more than 400 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.

Lightning Talks

Selected scientific exhibits will be shortly presented during this Session. The Lightning Talks will take place in the room Kilsyth from Thursday to Saturday.

Poster Awards

All electronic exhibits and pdf files of paper posters received by August 23 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 3 at 18:25 in room Pentland. The winning posters have been marked with a special sign. 

EPOST™ Meet the Authors

Every EPOST™ author has been allocated a specific PC workstation in the EPOST™ Area at a designated timeslot at which they can meet interested conference delegates and authors of related topics to discuss their work. All PCs in the EPOST™ Area are numbered and easy to find. Find out when the authors of the electronic posters of your interest are available for discussion in the "EPOST™ Posters" part of this programme.





Scientific Programme at a glance

THURSDAY, OCTOBER 1, 2015

FRIDAY, OCTOBER 2, 2015

SATURDAY, OCTOBER 3, 2015

room time \	PENTLAND	SIDLAW	FINTRY
08:00-09:00		Teaching Session (adv) Assessment of myocardial tissue changes	Teaching Session GM damage in MS as glaced by MRI: measurement, interpretation and clinical application (in collaboration with MAGNIMS)
09:10-10:20	Opening Ceremony Sir Peter Mansfield Lecture		
10:30-12:00	Plenary Session (in collaboration with IWPFI) MR techniques for lung imaging		
12:10-13:10		Industry-sponsored Symposium	Industry-sponsored Symposium
13:15-14:15			
14:00-15:30	Teaching Session (in collaboration with IWPFI) MR applications in chest diseases	Scientific Session Brain perfusion: how to measure it and what it does	Scientific Session Oncology: staging, response prediction and assessment of side-effects
15:40-17:10	Teaching Session (basic) Basics of MR spectroscopy	Scientific Session RF coils & systems	Scientific Session Hyperpolarization: applications and methods
17:20-18:50	Teaching Session (adv) Susceptibility and phase imaging	Scientific Session Advanced MR sequences	Scientific Session MR Advances in lung parenchyma imaging
room time \	PENTLAND	SIDLAW	FINTRY
08:00-09:00		Teaching Session (adv) Advanced MR of the knee joint	Teaching Session (in collaboration with EFOMP)
09:10-10:40	Plenary Session Multiparametric, quantitative MR in cancer: does it make a difference?		
10:50-12:20	Teaching Session (basic) MR angiography of carotid arteries and intracranial circulation	Scientific Session Function and structure: human brain and beyond	Scientific Session Quantification & motion
12:30-13:30		Industry-sponsored Symposium	Industry-sponsored Symposium
13:50-15:20	Teaching Session (adv) Brain connectivity	Scientific Session Brain tumours: bench to bedside	Scientific Session Image analysis: travelling across species
15:40-17:10	Meet-the-experts How to build a clinical protocol	Scientific Session Cardiovascular imaging	Scientific Session fMRI: dead or alive
17:20-18:20		Hot Topic Debate MR in acute stroke - a waste of time?	
room time \	PENTLAND	SIDLAW	FINTRY
08:00-09:00		Teaching Session (adv) Perfusion image processing	<i>MRI in neurodegeneration and ageing - new approaches</i> (in collaboration with ISMBM British Chapter)
09:10-10:40	Plenary Session MRI: the virtual laboratory		
10:50-12:20	Teaching Session (basic) Postmortem MRI	Scientific Session Functional imaging of liver and renal disease	Scientific Session Brain ageing and degeneration
12:30-13:30			ESMRMB Annual Business Meeting
13:50-15:20	Teaching Session (adv) Applications and challenges in highfield MRI	Scientific Session Further tales from the body	Scientific Session CEST and other nuclei
15:40-17:10	Teaching Session (basic) Brain MR imaging ageing and neurodegeneration	Scientific Session Pelvic tumours: technical optimization, planning and quality control	Scientific Session Flow measurement and modelling
17:20-18:20		Roundtable Discussion Incidental findings	
18:25-18:45	Closing Ceremony & Awards		



TINTO	KILSYTH	MEET THE AUTHORS		LOMOND FOYER
Teaching Session (basic) <i>Relaxometry</i>				
		EPOS 13:00-13:30	Paper Poster 13:00-13:30	Networking Event I
Scientific Session <i>Lipids: composition and quantification</i>	Lightning Talk Novel contrast (agents)	EPOS 15:00-15:30	Paper Poster 15:00-15:30	Software Exh. 15:20-15:40
Scientific Session <i>Clinical fMRI</i>	Lightning Talk MRI pulse sequences	EPOS 16:40-17:10	Paper Poster 16:40-17:10	
Scientific Session <i>Brain metabolism</i>	Lightning Talk Functional imaging & flow	EPOS 18:20-18:50	Paper Poster 18:20-18:50	
TINTO	KILSYTH	MEET THE AUTHORS		LOMOND FOYER
Teaching Session (basic) <i>Trauma imaging: imaging of blood</i>				
Scientific Session <i>Safety aspects for MRI</i>	Lightning Talk Clinical imaging	EPOS 11:50-12:20	Paper Poster 11:50-12:20	
Scientific Session <i>Spectroscopy: of mice, men and bananas</i>	Lightning Talk MR engineering & physics	EPOS 14:50-15:20	Paper Poster 14:50-15:20	Software Exh. 15:20-15:40
Scientific Session <i>Advanced diffusion MRI</i>	Lightning Talk Brain diseases	EPOS 16:40-17:10	Paper Poster 16:40-17:10	
TINTO	KILSYTH	MEET THE AUTHORS		LOMOND FOYER
				Networking Event II
Scientific Session <i>MR Spectroscopy: methods and quantification</i>	Lightning Talk Image analysis and diffusion imaging	EPOS 11:50-12:20	Paper Poster 11:50-12:20	Clinical Review P. 12:20-12:50
		EPOS 12:20-12:50	Paper Poster 12:20-12:50	
		EPOS 12:50-13:20	Paper Poster 12:50-13:20	
		EPOS 13:20-13:50	Paper Poster 13:20-13:50	
Scientific Session <i>Brain changes in psychiatric and developmental disorders</i>	Lightning Talk <i>Let it flow!</i> Perfusion from bedside to bench and back	EPOS 14:50-15:20	Paper Poster 14:50-15:20	Software Exh. 15:20-15:40
Scientific Session <i>Systems engineering</i>	Lightning Talk MR spectroscopy	EPOS 16:40-17:10	Paper Poster 16:40-17:10	

Technical Exhibition
08:30-17:30

Technical Exhibition
08:30-17:30

Technical Exhibition
08:30-17:30

Technical Exhibition
08:30-17:30

ESMRMB YOUNG INVESTIGATOR AWARD

ESMRMB

European Society for Magnetic Resonance in Medicine and Biology

FINALISTS:

Thursday, October 1, 2015

14:00–15:30 6 Teaching Session

Pentland

**MR applications in chest diseases
(in collaboration with IWPFI)**

15 14:00 **Effects of 24 hour sleep deprivation on cerebral blood flow measured by ASL**

H.J. Mutsaerts¹, T. Elvåshagen², L. Westlye³, A. Bjørnerud⁴, I.R. Groote³; ¹Radiology, Academic Medical Center, Amsterdam/NETHERLANDS, ²Neurology, Oslo University Hospital, Oslo/NORWAY, ³Psychology, University of Oslo, Oslo/NORWAY, ⁴The Intervention Center, Oslo University Hospital, Oslo/NORWAY

15:40–17:10 11 Teaching Session - Basic

Pentland

Basics of MR spectroscopy

71 15:40 **Active Decoupling of RF Coils Using a Transmit Array System**

A.C. Özen¹, M. Bock¹, E. Atalar²; ¹Radiology, Medical Physics, University Medical Center Freiburg, Freiburg/GERMANY, ²Electrical and Electronics Engineering, Bilkent University, Ankara/TURKEY

JURY:

R. Kreis, Bern/CH

M. Paley, Sheffield/UK

E. Scheuer, Basel/CH

Scientific Programme

THURSDAY, OCTOBER 1, 2015

8:00–9:00	1 Teaching Session - Advanced Assessment of myocardial tissue changes	Sidlaw
	Moderators: N.N. N.N.	
1 08:00	Challenges in ischemic myocardial injury C. Buccarelli-Ducci; Bristol/UNITED KINGDOM	
4 08:30	Differentiating acute from chronic myocardial injury D. Oh-Ici; Dept of Cardiac Surgery, Deutsches Herzzentrum Berlin, Berlin/GERMANY	
8:00–9:00	2 Teaching Session GM damage in MS as glanced by MRI: measurement, interpretation and clinical application (in collaboration with MAGNIMS)	Finty
	Moderators: H. Vrenken, Amsterdam/NL J. Sastre-Garriga, Barcelona/ES	
3 08:00	Measuring GM damage in MS: the technicalities H. Vrenken; University Medical Center, VU, Amsterdam/NETHERLANDS	
4 08:15	Pathological correlates of MRI-measured GM damage in MS R.S. Samson; Neurology, Institute of Neurology, London/UNITED KINGDOM	
5 08:30	Clinical correlates of GM damage in MS J. Sastre-Garriga; Neurology/Neuroimmunology, Hospital Vall d'Hebron, Barcelona/SPAIN	
8:00–9:00	3 Teaching Session - Basic Relaxometry	Tinto
	Moderators: R. Deichmann, Frankfurt am Main/DE P. Ehses, Tübingen/DE	
6 08:00	SE-based Relaxometry M. Weigel; Dept. of Radiology, Radiological Physics, University of Basel Hospital, Basel/ SWITZERLAND	
7 08:30	GRE-based Relaxometry J. Leupold; Dept. of Radiology · Medical Physics, University Medical Center Freiburg, Freiburg/GERMANY	

Scientific Programme

THURSDAY, OCTOBER 1, 2015

9:10–10:20 4 Opening Ceremony

Pentland

Sir Peter Mansfield Lecture

8 09:30 Exciting moments in scientific research: From 31P NMR of live cells to revealing order in tissues by double-quantum filtered NMR

G. Navon; School of Chemistry, Tel Aviv University, Tel Aviv/ISRAEL

10:30–12:00 5 Plenary Session

Pentland

MR techniques for lung imaging (in collaboration with IWPFI)

Moderators: Y. Ohno, Kobe/JP

J. Wild, Sheffield/UK

9 10:30 Hyperpolarised gas imaging of the lung

G. Parraga; Medical Biophysics, University of Western Ontario, London/ON/CANADA

10 11:00 Pulmonary perfusion imaging: Why you should be interested in the circulatory biome

M.L. Schiebler; Radiology, UW- Madison School of Medicine and Public Health, Madison/WI/United States of America

11 11:30 Pulmonary diffusion imaging

H.-U. Kauczor; Diagnostic and Interventional Radiology, University Hospital, Heidelberg/GERMANY

14:00–15:30 6 Teaching Session

Pentland

MR applications in chest diseases (in collaboration with IWPFI)

Moderators: G. Parraga, London/CA

H.U. Kauczor, Heidelberg/DE

12 14:00 Pulmonary MRI for Chronic Obstructive Pulmonary Diseases (COPD)

Y. Ohno; Division of Functional and Diagnostic Imaging Research, Department of Radiology, Kobe University Graduate School of Medicine, Kobe/JAPAN

13 14:30 Lung cancer

J. Biederer; County Hospital Gross-Gerau, Radiologie Darmstadt, Darmstadt/GERMANY

14 15:00 Imaging cystic fibrosis with multi-nuclear lung MRI

J.M. Wild; Academic Radiology, University of Sheffield, Sheffield/UNITED KINGDOM

Brain Perfusion: How to measure it and what it does

Moderators: E. Achten, Gent/BE
N.N.

15 14:00



Effects of 24 hour sleep deprivation on cerebral blood flow measured by ASL

H.J. Mutsaerts¹, T. Elvåshagen², L. Westlye³, A. Bjørnerud⁴, I.R. Groote³,

¹Radiology, Academic Medical Center, Amsterdam/NETHERLANDS, ²Neurology, Oslo University Hospital, Oslo/NORWAY, ³Psychology, University of Oslo, Oslo/NORWAY, ⁴The Intervention Center, Oslo University Hospital, Oslo/NORWAY

16 14:20



Right Church, Wrong Pew? The Importance of Geometric Distortion Correction in 3D GRASE ASL

F.C. Von Samson-Himmelstjerna¹, V.I. Madai², C. Herzog², S. Martin²,

S. Hetzer³, M.A. Mutke², K. Eickel⁴, M. Guenther⁴, J. Sobesky²; ¹MR Physics, Fraunhofer MEVIS, Bremen/GERMANY, ²Center for Stroke Research (CSB), Charité University Medicine Berlin, Berlin/GERMANY, ³MR Physics, Berlin Center for Advanced Neuroimaging (BCAN), Berlin/GERMANY, ⁴MR Physics, Fraunhofer Mevis, Bremen/GERMANY

17 14:30

Effect of labelling plane angulation on pCASL labelling efficiency – does it really matter?

M. Sokolska, X. Golay, D. Thomas; Institute of Neurology, University College London, London/UNITED KINGDOM

18 14:40

Dispersion in Arterial Spin Labelling: Quantification of Errors and their Sensitivities to Arterial Transit Time

R.R. Mehta, M.A. Chappell; Department of Engineering Science, University of Oxford, Oxford/UNITED KINGDOM

19 14:50



Absolute quantitation of CBF using arterial spin labelling: a comparison of model-free and model based analysis in cerebrovascular reserve testing

O.M. Henriksen¹, L.T. Jensen², H. Iversen³, E.T. Petersen⁴, M. Chappell⁵,

E. Rostrup⁶; ¹Department of Clinical Physiology, Nuclear Medicine and PET, Copenhagen University Hospital Rigshospitalet, Rigshospitalet/DENMARK, ²Dept. of Clinical Physiology and Nuclear Medicine, Copenhagen University Hospital Herlev, Herlev/DENMARK, ³Dept. of neurology, Rigshospitalet Glostrup, Glostrup/DENMARK, ⁴Danish Research Centre for Magnetic Resonance, Copenhagen University Hospital Hvidovre, Hvidovre/DENMARK, ⁵Department of Engineering Science, Institute of Biomedical Engineering, University of Oxford, Oxford/UNITED KINGDOM, ⁶Functional Imaging Unit, Copenhagen University Hospital Rigshospitalet, Glostrup/DENMARK

20 15:00

Comparison of measurements of total cerebral blood flow by MRI phase-mapping technique and H₂¹⁵O Positron Emission Tomography

M.B. Vestergaard¹, U. Lindberg¹, N.J. Aachmann-Andersen², K. Lisbjerg²,

S.J. Christensen², P. Rasmussen², N.V. Olsen², I. Law³, H.B.W. Larsson¹, O.M. Henriksen⁴; ¹Functional Imaging Unit, Department of Clinical Physiology, Nuclear Medicine and PET, Rigshospitalet Glostrup, Glostrup/DENMARK, ²Department of Neuroscience and Pharmacology, The Faculty of Health Sciences, University of Copenhagen, Copenhagen/DENMARK, ³Department of Clinical Physiology, Nuclear Medicine and PET, Rigshospitalet, Copenhagen/DENMARK, ⁴Department of Clinical Physiology, Nuclear Medicine and PET, Copenhagen University Hospital Rigshospitalet, Copenhagen/DENMARK

Scientific Programme

THURSDAY, OCTOBER 1, 2015

-
- 21 15:10 **Diurnal modulation of cerebral blood flow**
-  **H.J. Mutsaerts¹, T. Elvåshagen², L. Westlye³, A. Bjørnerud⁴, I.R. Groote³,**
¹Radiology, Academic Medical Center, Amsterdam/NETHERLANDS, ²Neurology, Oslo University Hospital, Oslo/NORWAY, ³Psychology, University of Oslo, Oslo/NORWAY, ⁴The Intervention Center, Oslo University Hospital, Oslo/NORWAY
-
- 14:00–15:30 8 Scientific Session Fintry
- Oncology: Staging, response prediction and assessment of side-effects**
- Moderators: C. Schlett, Heidelberg/DE
N.N.
-
- 22 14:00 **Pre-operative T stage evaluation of esophageal carcinoma: a comparison study between self-gating radial VIBE and breathhold VIBE**
-  **J. Qu¹, H. Liu², F. Zhang¹, H. Zhang¹, K. Berthold³, G. Robert³, H. Li¹, ¹Radiology, the affiliated Cancer Hospital of Zhengzhou University, Zhengzhou/CHINA, ²NEA MR Collaboration, Siemens Ltd, Shanghai/CHINA, ³MR Predevelopment, Siemens Healthcare, Erlangen/CHINA**
-
- 23 14:10 **DWIBS(Diffusion-weighted MR imaging with background body signal suppression) in assessment of metastatic disease of breast cancer patients; Does it compete with F-18 FDG PET-CT?**
- M.M.A. Rezk¹, M. Helal¹, M. Kotb²; ¹Radiology Department, National Cancer Institute, Cairo/EGYPT, ²Nuclear Medicine Department, National Cancer Institute, Cairo/EGYPT**
-
- 24 14:20 **3 Tesla whole-body diffusion-weighted magnetic resonance imaging for staging lymphoma: are apparent diffusion coefficient derived histogram parameters useful for lesion characterization?**
- K.N. De Paepe¹, F. De Keyzer¹, P. Wolter², O. Bechter², D. Dierickx³, A. Janssens³, G. Verhoeft³, R. Oyen⁴, V. Vandecaveye¹; ¹Department of Radiology, University Hospitals Leuven, Leuven/BELGIUM, ²General Oncology, University Hospitals Leuven, Leuven/BELGIUM, ³Hematology, University Hospitals Leuven, Leuven/BELGIUM, ⁴Department of Imaging and Pathology, University Hospital Gasthuisberg, Leuven, Belgium, KULeuven, Leuven/BELGIUM**
-
- 25 14:30 **Can interim diffusion-weighted MRI or [18F]-FDG-PET predict end-of-treatment outcome in extranodal marginal zone B-cell lymphoma of the mucosa-associated lymphoid tissue (MALT)?**
- M. Mayerhofer¹, G. Karanikas¹, K. Kletter¹, M. Raderer²; ¹Dept. of Biomedical Imaging and Image-guided Therapy, Medical University of Vienna, Vienna/AUSTRIA, ²Dept. of Internal Medicine I, Medical University of Vienna, Vienna/AUSTRIA**

26 14:40 Evaluation of early chemotherapy response and outcome of patients with small cell lung cancer (extensive disease) by diffusion-weighted MRI

J. Coolen¹, F. De Keyzer¹, J. Vansteenkiste², E. Wauters², E. Verbeken³, S. Peeters⁴, W. De Wever¹, C. Dooms², J. Verschakelen¹, K. Nackaerts², S. Dymarkowski¹; ¹Radiology, University Hospitals Leuven, Leuven/BELGIUM, ²Pneumology, University Hospitals Leuven, Leuven/BELGIUM, ³Pathology, University Hospitals Leuven, Leuven/BELGIUM, ⁴Radiation-Oncology, University Hospitals Leuven, Leuven/BELGIUM

27 14:50 IVIM reveals increased blood perfusion of liver metastases after oral intake of Salovum®



M. Montelius¹, O. Gustafsson¹, M. Andersson², E. Forsslund-Aronsson¹, R. Hultborn³, S. Ottosson³, G. Carlsson⁴, S. Lange⁵, M. Ljungberg⁶; ¹Department of Radiation Physics, Institute of Clinical Sciences, The Sahlgrenska Academy, University of Gothenburg, Gothenburg/SWEDEN, ²Department of Radiology, Institute of Clinical Sciences, The Sahlgrenska Academy, University of Gothenburg, Gothenburg/SWEDEN, ³Department of Oncology, Institute of Clinical Sciences, The Sahlgrenska Academy, University of Gothenburg, Gothenburg/SWEDEN, ⁴Department of Surgery, Institute of Clinical Sciences, The Sahlgrenska Academy, University of Gothenburg, Gothenburg/SWEDEN, ⁵Institute of Biomedicine, The Sahlgrenska Academy, University of Gothenburg, Gothenburg/SWEDEN, ⁶Department of Medical Physics and Biomedical Engineering, Sahlgrenska University Hospital, Gothenburg/SWEDEN

28 15:00 Diffusion-weighted imaging and FDG PET/CT in breast cancer: correlation of the apparent diffusion coefficient and maximum standardized uptake values with prognostic factors

B. Karan¹, A. Purbager¹, N. Torun²; ¹Radiology, Baskent University School of Medicine, Adana/TURKEY, ²Nuclear Medicine, Baskent University School of Medicine, Adana/TURKEY

29 15:10 Investigating possible recovery of chemotherapy-induced structural changes in cerebral white matter and its relation with cognitive functioning in breast cancer patients

S. Deprez¹, T. Billiet¹, F. Amant², R. Peeters¹, A. Smeets², A. Leemans³, L. Emsell⁴, M.-R. Christiaens², M. Vandenbulcke⁴, S. Sunaert⁵; ¹Imaging and pathology, KU Leuven, Leuven/BELGIUM, ²Multidisciplinary Breast Center, KU Leuven, Leuven/BELGIUM, ³Image Sciences Institute, UMC Utrecht, Utrecht/NETHERLANDS, ⁴Old Age Psychiatry, KU Leuven, Leuven/BELGIUM, ⁵Imaging & Pathology, KU Leuven, Leuven/BELGIUM

Scientific Programme

THURSDAY, OCTOBER 1, 2015

14:00–15:30 9 Scientific Session

Tinto

Lipids: composition and quantification

Moderators: C. Boesch, Bern/CH
J. Lundbom, Düsseldorf/DE

30 14:00 **¹H-MRS for analysis of fatty acid composition in human storage fat – significant differences in unsaturation indices but only weak correlation between different adipose tissue compartments**



J. Machann¹, E. Schleicher², M. Bongers³, A. Fritzsche², F. Schick³; ¹Section on Experimental Radiology, Department of Diagnostic and Interventional Radiology, University Hospital Tübingen, Germany., Institute for Diabetes Research and Metabolic Diseases (IDM) of the Helmholtz Centre Munich at the University of Tübingen (Paul Langerhans Institute Tübingen). German Centre for Diabetes Research (DZD)., Tübingen/GERMANY, ²Department of Endocrinology and Diabetology; Angiology, Nephrology and Clinical Chemistry, University Hospital Tübingen, Tübingen/GERMANY, ³Section on Experimental Radiology, University Hospital of Tübingen, Tübingen/GERMANY

31 14:10 **In vivo spectral editing of lipid resonances with the MEGA-PRESS sequence**

J.J.O. Lundbom¹, B. Früchtenicht¹, A. Bierwagen², R. Edden³, M. Roden¹;

¹Institute of Clinical Diabetology, Deutsches Diabetes-Zentrum, Düsseldorf/GERMANY, ²German Diabetes Center, Leibniz Center for Diabetes Research at Heinrich Heine University, Institute for Clinical Diabetology, Düsseldorf/GERMANY, ³Russell H. Morgan Department of Radiology and Radiological Science, The Johns Hopkins University School of Medicine, Baltimore/MD/United States of America

32 14:20 **Evaluation of liver fat fraction by IDEAL multi-echo GRE & correlation to age, gender & body mass index in healthy adults**



R. Lee, G. Lo Goh, V. Ai, K.M. Chan, K.S.F. Kong, C.T. Yuen, J. Tang, M.L.B. Hung; Department of Diagnostic & Interventional Radiology, Hong Kong Sanatorium & Hospital, Hong Kong/HONG KONG

33 14:30 **Changes of liver volume, intrahepatic lipids and body weight during lifestyle intervention: Analysis with quantitative MRI methods**

M. Bongers¹, N. Stefan², A. Fritzsche², H.-U. Häring², K. Nikolaou³, F. Schick¹, J. Machann⁴; ¹Section on Experimental Radiology, University Hospital of Tübingen, Tübingen/GERMANY, ²Department of Endocrinology, Metabolism, Clinical Chemistry, Nephrology and Angiology, University Hospital of Tübingen, Tübingen/GERMANY, ³Department of Radiology, University Hospital of Tübingen, Tübingen/GERMANY, ⁴Section on Experimental Radiology, University Hospital Tübingen, Tübingen/GERMANY

- 34 14:40 Prospective Evaluation of Liver Steatosis – Comparison of Stereological Point-Counting of Biopsies with ¹H MRS**
M.F. Forsgren, P. Nasr, N. Dahlström, O. Dahlqvist Leinhard, Ö. Smedby, M. Ekstedt, S. Kechagias, P. Lundberg; *Department of Medical and Health Sciences, Linköping University, Linköping/SWEDEN*
- 35 14:50 Clinical Evaluation of a 3D Multi-Echo Dixon Sequence with Advanced Fat and Iron Quantification for the Diagnosis of Diffuse Liver Disease**
C. Kremser¹, M. Plaikner¹, S. Kannengießer², X. Zhong³, B. Henninger¹; ¹Dept. of Radiology, Medical University of Innsbruck, Innsbruck/AUSTRIA, ²MR Applications Development, Siemens Healthcare, Erlangen/GERMANY, ³MR R&D Collaborations, Siemens Healthcare, Atlanta/AL/United States of America
- 36 15:00 Magnetization Transfer with Iterative Decomposition of water and fat with Echo Asymmetry and Least-squares estimation (MT-IDEAL) imaging in the abdomen.**
D.M.L. Lilburn¹, A.S. Cooper¹, P. Murphy², S.S. Semple¹, C.S. Sinclair³, R.L. Janiczek²; ¹Clinical Research Imaging Centre, University of Edinburgh, Edinburgh/UNITED KINGDOM, ²Experimental Medicine Imaging, GlaxoSmithKline, London/UNITED KINGDOM, ³Institute of Neurology, University College London, London/UNITED KINGDOM
- 37 15:10 A New 3D Hybrid Algorithm for Automatic Segmentation of Visceral Adipose Tissue**
F. Fallah¹, F. Schick², B. Yang¹; ¹Institute of Signal Processing and System Theory, University of Stuttgart, Stuttgart/GERMANY, ²Section on Experimental Radiology, Department of Diagnostic and Interventional Radiology, University Hospital of Tuebingen, Tuebingen/GERMANY
-
- 14:00–15:00 10 Lightning Talk** Kilsey
Novel contrast (agents)
Moderators: M. Plaumann, Magdeburg/DE
F. Schmid, Münster/DE
- 38 14:00 Multiparametric MRI of Thrombi Retrieved From Patients With Acute Ischemic Stroke**
J. Vidmar¹, M. Jeromel², Z.V. Milošević², E. Kralj³, F.F. Bajrović⁴, F. Bajd⁵, I. Serša⁵; ¹Institute of Physiology, Medical Faculty Ljubljana, Ljubljana/SLOVENIA, ²Department of Neuroradiology, Clinical Institute of Radiology, University Medical Centre Ljubljana, Ljubljana/SLOVENIA, ³Institute of Forensic Medicine, , Medical Faculty, University of Ljubljana, Ljubljana/SLOVENIA, ⁴Department of Vascular Neurology and Intensive Neurology care, Institute of Patophysiology Medical Faculty, University of Ljubljana, Ljubljana/SLOVENIA, ⁵Laboratory for Magnetic Resonance Imaging, Jozef Stefan Institute, Ljubljana/SLOVENIA
MEET THE AUTHOR in the Paper Poster Area, on Oct. 1, 15:00–15:30
- 39 14:02 Accuracy of Intra-Voxel Component Determination Using MR Fingerprinting**
T. Amthor, M. Doneva, P. Koken, P. Börnert; *Research Laboratories, Philips GmbH Innovative Technologies, Hamburg/GERMANY*
MEET THE AUTHOR in the EPOS™ Area at PC#1, on Oct. 1, 15:00–15:30

Scientific Programme

THURSDAY, OCTOBER 1, 2015

40 WITHDRAWN

41 14:04 Hall sensors for respiratory motion detection in MRI

J.W. Krug¹, R. Zhang¹, G. Rose², M. Friebe¹; ¹Chair for Catheter Technologies and Image Guided Therapies, Otto-von-Guericke University Magdeburg, Magdeburg/GERMANY,

²Chair for Healthcare Telematics and Medical Engineering, Otto-von-Guericke University, Magdeburg/GERMANY

MEET THE AUTHOR in the Paper Poster Area, on Oct. 1, 15:00–15:30

42 14:06 Multiple Accelerated Single shot Acquisition for Motion Correction in MRI

T. Rincón-Domínguez¹, A. Menini², A. Bustin¹, A.B. Solana², M.A. Janich², G. Kudielka², D. Burschka¹, A.C. Brau³; ¹Institut für Informatik VI, Technische Universität München, Garching B. Munich/GERMANY, ²Global Research Centre, GE, Munich/GERMANY,

³Cardiac Center of Excellence, GE Healthcare, Munich/GERMANY

MEET THE AUTHOR in the Paper Poster Area, on Oct. 1, 15:00–15:30

43 14:08 Magnetic Resonance Elastography (MRE) Investigation of the Relative Stiffness of the Quadriceps and Hamstrings Muscle Groups at Rest

P. Kennedy¹, E. Barnhill¹, C. Brown², E.J.R. Van Beek¹, C. Greig³, N. Roberts¹; ¹Clinical Research Imaging Centre, University of Edinburgh, Edinburgh/UNITED KINGDOM,

²Research and Development, The Mentholatum Company Ltd., Glasgow/UNITED KINGDOM,

³School of Sport, Exercise and Rehabilitation Sciences, University of Birmingham, Birmingham/UNITED KINGDOM

MEET THE AUTHOR in the EPOS™ Area at PC#2, on Oct. 1, 15:00–15:30

44 WITHDRAWN

45 14:10 Pulmonary Oxygen Consumption Changes as Result of Bronchodilation Measured by Hyperpolarized ³He in Bronchial Asthma Patients: First Results of Clinical Study.

M. Terekhov, U. Wolf, K.K. Gast, C. Hoffmann, C. Dueber, L.M. Schreiber;

Radiology, University Medical Center Mainz, Mainz/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#4, on Oct. 1, 15:00–15:30

46 14:12 Chemical masked dianion [B₁₂F₁₂]²⁻ enabled cell labeling

J. Warneke¹, V.A. Azov², J. Bernardling³, C. Jenne⁴, M. Plaumann³;

¹Institute of Applied and Physical Chemistry, University of Bremen, Bremen/GERMANY, ²Institute of Organic Chemistry, University of Bremen, Bremen/GERMANY, ³Department of Biometrics and

Medical Informatics, Otto-von-Guericke University, Magdeburg/GERMANY, ⁴Institute of Inorganic

Chemistry, Bergische University of Wuppertal, Wuppertal/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#5, on Oct. 1, 15:00–15:30

- 47 14:14 Highly specific Gd₇-β-cyclodextrin based contrast agent for renal MR imaging**
V. Herynek¹, P. Hermann², O. Zemek², A. Galisova¹, D. Jirák¹, M. Hajek¹;
¹MR Unit, Department of Radiodiagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, ²Department of Inorganic Chemistry, Faculty of Science, Charles University, Prague/CZECH REPUBLIC
MEET THE AUTHOR in the EPOS™ Area at PC#6, on Oct. 1, 15:00–15:30
- 48 14:16 Adaptive Dynamic Contrast Enhanced MRI for the kinetics biodistribution of innovative Gd polyrotaxanes contrast agents.**
G. Ramniceanu¹, J. Scelle², G. Vives², D. Scherman¹, B. Hasenkopf²,
B.-T. Doan¹; ¹UTCBS ENSCP, CNRS, Paris/FRANCE, ²IPCM, Université Pierre et Marie Curie, Paris/FRANCE
MEET THE AUTHOR in the EPOS™ Area at PC#7, on Oct. 1, 15:00–15:30
- 49 14:18 Specific high resolute Dynamic Susceptibility Contrast MRI strategy for the kinetics uptake and clearance study of innovative stealth USPIO nanoparticles.**
G. Ramniceanu¹, B.-T. Doan¹, C. Vezignol², N. Mignet³, Q. Crouzet⁴, A. Graillot⁴,
C. Loubat⁴, J.-F. Berret²; ¹UTCBS ENSCP, CNRS, Paris/FRANCE, ²Laboratoire Matière et Systèmes Complexes, Université Paris Diderot-CNRS, Paris/FRANCE, ³UTCBS, Université de Pharmacie Paris Descartes, Paris/FRANCE, ⁴Specific Polymers, Specific Polymers, Castries/FRANCE
MEET THE AUTHOR in the EPOS™ Area at PC#8, on Oct. 1, 15:00–15:30
- 50 14:20 Multiparametric MRI characterization of magnetic viral complexes**
A. Joos¹, O. Mykhaylyk², B. Gleich¹, A. Haase¹; ¹Zentralinstitut für Medizintechnik, Technische Universität München, Garching/GERMANY, ²Department of Experimental Oncology and Therapy Research, Klinikum rechts der Isar der Technischen Universität München, Munich/GERMANY
MEET THE AUTHOR in the EPOS™ Area at PC#9, on Oct. 1, 15:00–15:30
- 51 14:22 Theranostic properties of Magnetic Nanoparticles extracted from magnetotactic bacteria**
S. Mannucci¹, S. Tambalo², G. Conti¹, L. Ghini³, A. Milanese⁴, A. Carboncino¹, E. Nicolato¹, M.R. Marinozzi¹, D. Benati¹, R. Bassi³, P. Marzola⁴, A. Sbarbatelli¹;
¹Department of Neurological and Movement Sciences, University of Verona, Verona/ITALY,
²Department of Neurological and Movement Sciences, ISTM, Verona/ITALY, ³Department of Biotechnology, University of Verona, Verona/ITALY, ⁴Department of Computer Science, University of Verona, Verona/ITALY
MEET THE AUTHOR in the EPOS™ Area at PC#10, on Oct. 1, 15:00–15:30
- 52 14:24 Effect of PEG molecular weight of superparamagnetic iron oxide nanoparticles (SPIONs) on the in vivo biodistribution by Magnetic Resonance Imaging.**
M. Pernia Leal¹, C. Muñoz-Hernández², C.C. Berry³, **M.-L. Garcia-Martin²**,
¹Nano-Imaging Unit, BIONAND, Malaga/SPAIN, ²Nano-Imaging Unit, Bionand, Malaga/SPAIN,
³Centre for Cell Engineering, University of Glasgow, Glasgow/UNITED KINGDOM
MEET THE AUTHOR in the Paper Poster Area, on Oct. 1, 15:00–15:30

Scientific Programme

THURSDAY, OCTOBER 1, 2015

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- 53 14:26 **Dynamic Imaging of Ultra-Magnetic Liposomes with MRI and Optic imaging properties to monitor a cancer therapy**
C. Thebault¹, **G. Ramniceanu**², J. Seguin³, A. Michel⁴, C. Beauvinaeu²,
C. Girard², N. Mignet³, C. Ménager⁴, B.-T. Doan²; ¹UTCBS / PHENIX, Chimie ParisTech
/ UPMC, Paris/FRANCE, ²UTCBS, Chimie ParisTech, Paris/FRANCE, ³UTCBS, Université de
Pharmacie Paris Descartes, Paris/FRANCE, ⁴Phénix, UPMC, Paris/FRANCE
MEET THE AUTHOR in the EPOS™ Area at PC#11, on Oct. 1, 15:00–15:30
- 54 14:28 **NMR Characterization of Liposomes containing w-3 Poli-insaturated Fatty acids as novel anti-inflammatory theranostic formulations**
D. Calle-Hernandez¹, V. Negri², P. Ballesteros³, S. Cerdán²; ¹Department of
Experimental Models of Human Diseases, Instituto de Investigaciones Biomédicas "Alberto
Sols", Madrid/SPAIN, ²Experimental Animal Models for Human Diseases, Instituto de
Investigaciones Biomédicas "Alberto Sols" - CSIC, Madrid/SPAIN, ³Laboratory of Organic
Synthesis and Molecular Imaging by NMR, Universidad Nacional de Educación a Distancia,
Madrid/SPAIN
MEET THE AUTHOR in the Paper Poster Area, on Oct. 1, 15:00–15:30
- 55 14:30 **Using High Permittivity Materials to improve ZTE Image Quality at 7T**
P. Boernert¹, **C. Stehning**¹, K. Nehrke¹, J. Groen², A. Webb³; ¹Tomographic Imaging,
Philips Research, Hamburg/GERMANY, ²ADI MR Software & Platforms, Philips Healthcare, Best/
NETHERLANDS, ³Gorter Center, Leiden University Medical Center, Leiden/NETHERLANDS
MEET THE AUTHOR in the EPOS™ Area at PC#12, on Oct. 1, 15:00–15:30
- 56 14:32 **Novel theranostics work as therapeutic drug and imaging probe for MRI and EPR imaging**
M.C. Emoto¹, S. Sato², H.G. Fujii¹; ¹Center for Medical Education, Sapporo Medical
University, Sapporo/JAPAN, ²Graduate school of Science and Engineering, Yamagata University,
Yonezawa/JAPAN
MEET THE AUTHOR in the Paper Poster Area, on Oct. 1, 15:00–15:30
- 57 14:34 **Detection of tissue remodelling by Fast Field-Cycling methods**
L. Broche, V. Zampetoulas, P.J. Ross, G.R. Davies, D.J. Lurie; Aberdeen Biomedical
Imaging Centre, University of Aberdeen, Aberdeen/UNITED KINGDOM
MEET THE AUTHOR in the EPOS™ Area at PC#13, on Oct. 1, 15:00–15:30
- 58 14:36 **Characterisation of human glioma resections by Fast Field-Cycling NMR**
L. Broche¹, A. Mombrun², O. Stephanov², A. Bouamrani², F. Berger², D.J. Lurie¹,
P.H. Fries³, H. Lahrech²; ¹Aberdeen Biomedical Imaging Centre, University of Aberdeen,
Aberdeen/UNITED KINGDOM, ²UA01, CLINATEC - CEA- INSERM, Grenoble/FRANCE, ³RICC,
INAC-SCIB, Grenoble/FRANCE
MEET THE AUTHOR in the EPOS™ Area at PC#14, on Oct. 1, 15:00–15:30



Certificate
of Merit

59	14:38	Accelerated Field-Cycling MRI using Keyhole Imaging P.J. Ross , D.J. Lurie; Biomedical Imaging Centre, University of Aberdeen, Aberdeen/ UNITED KINGDOM MEET THE AUTHOR in the Paper Poster Area, on Oct. 1, 15:00–15:30
60	14:40	Ultra-low field NMR relaxometry: calibration method and acquisition of T₁-dispersion curves from biological samples extended below 1000 Hz V. Zampetoulas , L. Broche, D.J. Lurie; Aberdeen Biomedical Imaging Centre, University of Aberdeen, Aberdeen/UNITED KINGDOM MEET THE AUTHOR in the Paper Poster Area, on Oct. 1, 15:00–15:30
61	14:42	The specificity of GluCEST imaging at low temperatures F.C. Wermter ¹ , C. Bock ² , W. Dreher ¹ ; ¹ in-vivo-MR, University Bremen, Bremen/GERMANY, ² Integrative Ecophysiology, Alfred-Wegener-Institut Helmholtz-Zentrum für Polar- und Meeresforschung, Bremerhaven/GERMANY MEET THE AUTHOR in the EPOS™ Area at PC#15, on Oct. 1, 15:00–15:30
62	14:44	Investigating GluCEST for pH mapping at low temperatures: A feasibility study F.C. Wermter ¹ , C. Bock ² , W. Dreher ¹ ; ¹ in-vivo-MR, University Bremen, Bremen/GERMANY, ² Integrative Ecophysiology, Alfred-Wegener-Institut Helmholtz-Zentrum für Polar- und Meeresforschung, Bremerhaven/GERMANY MEET THE AUTHOR in the EPOS™ Area at PC#16, on Oct. 1, 15:00–15:30
63	14:46	Is lipo-glucoCEST feasible? E. Demetriou ¹ , H. Story ² , R. Bofinger ² , A. Tabor ² , M. Rega ¹ , X. Golay ¹ ; ¹ Brain Repair and rehabilitation, Institute Of Neurology, London/UNITED KINGDOM, ² Department of Chemistry, University College London, London/UNITED KINGDOM MEET THE AUTHOR in the EPOS™ Area at PC#17, on Oct. 1, 15:00–15:30
64		WITHDRAWN
65		WITHDRAWN
66	14:48	Direct calculation of RF coil sensitivity maps for quantitative T1 and PD mapping  Certificate of Merit S. Baudrexel ¹ , U. Nöth ² , S. Reitz ¹ , J. Klein ¹ , R. Deichmann ² ; ¹ Department of Neurology, Goethe University, Frankfurt Am Main/GERMANY, ² Brain Imaging Center (BIC), Goethe University, Frankfurt Am Main/GERMANY MEET THE AUTHOR in the EPOS™ Area at PC#19, on Oct. 1, 15:00–15:30
67	14:50	³¹P MRI Transmission (B₁†), Sensitivity (B₁) and T₁ Mapping at Ultra High Magnetic Field A. Coste ¹ , F. Mauconduit ² , A. Vignaud ¹ , F. Boumezbeur ¹ , A. Amadon ¹ , S. Romanzetti ³ , D. Le Bihan ¹ , C. Lerman ¹ ; ¹ DSV/I²BM/NeuroSpin/UNIRIS, CEA, Gif Sur Yvette/FRANCE, ² Healthcare, Siemens, Saint Denis/FRANCE, ³ University Klinik, RWTH Aachen, Aachen/GERMANY MEET THE AUTHOR in the EPOS™ Area at PC#20, on Oct. 1, 15:00–15:30

Scientific Programme

THURSDAY, OCTOBER 1, 2015

15:40–17:10 11 Teaching Session - Basic

Pentland

Basics of MR spectroscopy

Moderators: P. Barker, Baltimore/USA

A.K. Bouzier-Sore, Bordeaux/FR

68 15:40 Where it begins - physical basis of MRS

C. Boesch; DIPR/DRNN & DKF, University Bern, Bern/SWITZERLAND

69 16:10 The rising of MRS - applications and limitations in vivo

F. Schick; Section on Experimental Radiology, University Hospital Tübingen, Tübingen/GERMANY

70 16:40 High resolution NMR spectroscopy in vitro

D. Leibfritz; Institut f präklin. Bildgebung, University Tübingen, Tübingen/GERMANY

15:40–17:10 12 Scientific Session

Sidlaw

RF coils & systems

Moderators: M. Ladd, Heidelberg/DE

E. Laistler, Vienna/AT

71 15:40 Active Decoupling of RF Coils Using a Transmit Array System



A.C. Özen¹, M. Bock¹, E. Atalar²; ¹Radiology, Medical Physics, University Medical Center Freiburg, Freiburg/GERMANY, ²Electrical and Electronics Engineering, Bilkent University, Ankara/TURKEY

72 16:00 Whole Body High-Pass Birdcage RF Coil for ³¹P MRSI at 7T

J. Löring, W.J. Van Der Kemp, P.R. Luijten, D.W. Klomp; Radiology, UMC Utrecht, Utrecht/NETHERLANDS

73 16:10 Full in-situ optimization of parallel RF transmit systems enabled by concurrent monitoring of RF and gradient fields

M. Cavusoglu¹, B.E. Dietrich², D. Brunner², K.P. Pruessmann²; ¹Institute for Biomedical Engineering, ETH Zurich, Zürich/SWITZERLAND, ²Institute for Biomedical Engineering, University of Zurich and ETH Zurich, Zurich/SWITZERLAND

74 16:20 Design of a Four-Element Array of Small Monolithic RF Coils with Shielding-Rings Decoupling

Z. Li¹, R. Kriegl², S. Hosseinezhadian¹, M. Poirier-Quinot¹, E. Laistler², L. Darrasse¹, J.-C. Ginefri¹; ¹UMR 8081 CNRS, Laboratoire d'Imagerie par Résonance Magnétique Médicale et Multi-Modalités, Orsay/FRANCE, ²Medical University of Vienna, Center for Medical Physics and Biomedical Engineering, Vienna/AUSTRIA

75	16:30	Novel Splittable N-Tx/2N-Rx Transceiver Phased Array to Optimize both SNR and Transmit Efficiency at 9.4T N.I. Avdievich , I.A. Giapitzakis, A. Henning; <i>High-Field Magnetic Resonance, Max Planck Institute for Biological Cybernetics, Tübingen/GERMANY</i>
76	16:40	Flexible dipoles for multi-transmit head-neck MRI at 7T S.A. Ali Haghnejad ¹ , M. Restivo ¹ , H. Hoogduin ² , M. Gosselink ¹ , M. Italiaander ³ , J. Mollink ⁴ , A. Raaijmakers ¹ , D.W. Klomp ² ; ¹ <i>Imaging Division, Universitair Medisch Centrum Utrecht, Utrecht/NETHERLANDS</i> , ² <i>Imaging Division, UMC Utrecht, Utrecht/NETHERLANDS</i> , ³ <i>MR Coils BV, MR Coils BV, Drunen/NETHERLANDS</i> , ⁴ <i>Healthcare, Philips, Best/NETHERLANDS</i>
77	16:50	Choice of RF coils at 9.4T: SNR and B₁⁺ of transceiver and transmit-only receive-only arrays G. Shajan , J. Bause, R. Pohmann, K. Scheffler; <i>Magnetic Resonance Center, Max Planck Institute for Biological Cybernetics, Tübingen/GERMANY</i>
15:40–17:10 13 Scientific Session		Fintry
Hyperpolarization: applications and methods		
Moderators: N.N. N.N.		
78	15:40	Hyperpolarized Metabolic MR Imaging of Acute Myocardial Changes and Recovery Upon Ischemia-Reperfusion P. Wespi ¹ , D. O H-Ici ² , J. Busch ¹ , L. Wissmann ¹ , K. Krajewski ¹ , K. Weiss ¹ , A. Sigfridsson ¹ , D. Messroghli ² , S. Kozerke ¹ ; ¹ <i>Institute for Biomedical Engineering, University and ETH Zurich, Zürich/SWITZERLAND</i> , ² <i>Department of Congenital Heart Disease and Pediatric Cardiology, German Heart Institute Berlin, Berlin/GERMANY</i>
79	15:50	Hyperpolarized [1-13C]Pyruvate Metabolic Magnetic Resonance Imaging in Pigs J. Busch ¹ , M. Fuetterer ¹ , C. Von Deuster ² , N. Cesariovic ³ , C.T. Stoeck ² , S. Kozerke ¹ ; ¹ <i>Institute for Biomedical Engineering, University of Zurich and ETH Zurich, Zurich/SWITZERLAND</i> , ² <i>Imaging Sciences and Biomedical Engineering, King's College London, London/UNITED KINGDOM</i> , ³ <i>Division of Surgical Research, University Hospital Zürich, Zurich/SWITZERLAND</i>
80	16:00	Probing liver cancer metabolism by hyperpolarized 13C-labelled substrates C. Cabella ¹ , M. Karlsson ² , S. Colombo Serra ¹ , L. Miragoli ¹ , L. Poggi ¹ , F. Uggeri ³ , L. Venturi ⁴ , P.R. Jensen ² , M. Lerche ² , F. Tedoldi ¹ ; ¹ <i>Preclinical Imaging, Bracco Imaging SpA, Colleretto Giacosa/ITALY</i> , ² <i>Chemistry, Albeda Research ApS, Copenhagen/DENMARK</i> , ³ <i>Global Business Unit Imaging, Bracco Imaging SpA, Colleretto Giacosa/ITALY</i> , ⁴ <i>Molecular Biology Center, Università di Torino, Torino/ITALY</i>
81	16:10	Accelerating Hyperpolarized Metabolic Imaging of the Heart Using k-t PCA and k-t SPARSE P. Wespi , J. Steinhauser, S. Kozerke; <i>Institute for Biomedical Engineering, University and ETH Zurich, Zürich/SWITZERLAND</i>



Scientific Programme

THURSDAY, OCTOBER 1, 2015

- 82 16:20 **MR imaging and spectroscopy of human brain with hyperpolarized ^{129}Xe at 1.5T**



M. Rao, N. Stewart, G. Norquay, J. Wild; Academic unit of radiology, University of Sheffield, Sheffield/UNITED KINGDOM

- 83 16:30 **Exploration of gradient-free (TRASE) MRI at low field with hyperpolarized ^3He**

P.-J. Nacher¹, G. Tastevin¹, C.P. Bidinosti²; ¹Physics Department of ENS, Laboratoire Kastler Brossel, Paris/FRANCE, ²Physics Department, University of Winnipeg, Winnipeg/MB/CANADA

- 84 16:40 **PASADENA-PHIP in Clinical MRI Environment : Safety, Production and Administration Optimization for Animal Experiments**



M. Terekhov¹, M. Gorodezky², M. Braun³, B. Piechalska³, K. Muennemann³, L.M. Schreiber¹; ¹Comprehensive Heart Failure Center, University Hospital Würzburg, Würzburg/GERMANY, ²Radiology, University Medical Center Mainz, Mainz/GERMANY, ³Physical Chemistry of Polymers, Max Planck Institute for Polymer Research, Mainz/GERMANY

- 85 16:50 **MRI of metabolically labeled glycans using Hyper-CEST xenon biosensors in a live-cell bioreactor.**

C. Witte, L. Schröder; ERC Project BiosensorImaging, Leibniz-Institut für Molekulare Pharmakologie (FMP), Berlin/GERMANY

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- 15:40–17:10 14 Scientific Session

Tinto

Clinical fMRI

Moderators: E. Achten, Gent/BE
N.N.

- 86 15:40 **Differences in DMN functional connectivity before and after clinical diagnosis of amnestic MCI**

E. Manzanedo¹, A. Cristobal-Huerta¹, E. Molina¹, A.B. Solana², V. Mato¹, D. García Frank¹, E. Alfayate³, J. Álvarez- Linera⁴, J.A. Hernández-Tamames¹; ¹Medical Image Analysis and Biometry Lab, Universidad Rey Juan Carlos, Mostoles, Madrid/SPAIN, ²Global Research Centre, GE, Munich/GERMANY, ³Fundación CIEN, Fundación Reina Sofía, Madrid/SPAIN, ⁴Radiology, Hospital Rüber Internacional, Madrid/SPAIN

- 87 15:50 **Theory of Mind and Self-representation: fMRI study**

T. Nekovarova¹, J. Tintera², I. Fajnerova¹, J. Rydlo³, E. Kozakova¹, F. Spaniel¹, J. Horacek¹; ¹National IT system of mental health and brain monitoring, National Institute of Mental Health, Klecany/CZECH REPUBLIC, ²Radiodiagnostic and Interventional Radiology Department, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, ³Dept. Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC

88 16:00 Reading Networks in Dyslexics compared to Children with Ocular Motility Disturbances revealed by DTI

I. Saralegui¹, B. Garcia-Zapirain², Y. García Chimeno², B. Fernandez-Ruanova³, J.M. Ontañón¹, R. Martinez⁴; ¹Neuroradiology, OSATEK, Galdakao/SPAIN, ²DeustoTECH Life (eVIDA), University of deusto, Bilbao/SPAIN, ³Research department, OSATEK, Bilbao/SPAIN, ⁴Department of Pediatric Ophthalmology, University Hospital of Cruces, Barakaldo, Barakaldo/SPAIN

89 16:10 Multi-echo multi-band EPI: Preliminary results from a protocol comparison rsfMRI study

E.D. Gomez¹, R. Boyacioglu¹, J. Schulz¹, J.P. Marques², D.G. Norris³, B.A. Poser⁴; ¹Donders Institute for Brain, Cognition and Behaviour, Radboud University Nijmegen, Nijmegen/NETHERLANDS, ²Radboud University, Donders Institute, Nijmegen/NETHERLANDS, ³MR Methods, Donders Centre for Cognitive Neuroimaging, Nijmegen/NETHERLANDS, ⁴Faculty of Psychology and Neuroscience, Maastricht University, Maastricht/NETHERLANDS

90 16:20 Amygdala resting-state functional connectivity is affected by oral contraceptives and menstrual cycle phase

J. Engman¹, I. Sundström-Poromaa², M. Fredrikson¹, M. Gingnell¹; ¹Department of psychology, Uppsala University, Uppsala/SWEDEN, ²Department of Women's and Children's Health, Uppsala University, Uppsala/SWEDEN

91 16:30 Amygdala regulation using fMRI-neurofeedback without instructed strategy


M. Marxen¹, M. Jacob¹, D.K. Müller¹, S. Posse², L. Hellrung¹, S. Bender³, M.N. Smolka¹; ¹Psychiatry and Neuroimaging Center, Technische Universität Dresden, Dresden/GERMANY, ²Neurology, University of New Mexico, Albuquerque/NM/United States of America, ³Center for Child- and Adolescent Medicine, Goethe Universität Frankfurt, Frankfurt Am Main/GERMANY

92 16:40 Kinetic scenes perception in patients with multiple sclerosis: a fMRI study


J. Tintera¹, J. Rydl¹, M. Prochazkova², G. Angel², K. Rasova²; ¹Radiodiagnostic and Interventional Radiology Department, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, ²Clinic of rehabilitation medicine, Charles University, 3rd medical faculty, Prague/CZECH REPUBLIC

93 16:50 Investigation of the echo-time dependency of laminar BOLD profiles using a vascular model of the cortex


I. Markuerkiaga¹, M. Barth², D.G. Norris³; ¹MR Techniques, Donders Centre for Cognitive Neuroimaging, Nijmegen/NETHERLANDS, ²Centre For Advanced Imaging, University of Queensland, St Lucia/QLD/AUSTRALIA, ³MR Methods, Donders Centre for Cognitive Neuroimaging, Nijmegen/NETHERLANDS

Scientific Programme

THURSDAY, OCTOBER 1, 2015

15:40–16:40 15 Lightning Talk

Kilsyth

MRI pulse sequences

Moderators: S. Nagy, Pécs/HU
N.N.

94 15:40 Filling the dead time gap in zero echo time MRI: principles compared

R.N. Froidevaux, M. Weiger, D.O. Brunner, B. Wilm, B.E. Dietrich,

K.P. Pruessmann; Institute for Biomedical Engineering, University of Zurich and ETH Zurich,
Zurich/SWITZERLAND

MEET THE AUTHOR in the Paper Poster Area, on Oct. 1, 16:40–17:10



95 15:42 Optimizing the bSSFP flip angle for imaging hyperpolarized samples

S. Bär¹, M. Weigel², J. Hennig¹, D. Von Elverfeldt¹, J. Leupold¹; ¹Dept. of Radiology ·
Medical Physics, University Medical Center Freiburg, Freiburg/GERMANY, ²Radiological Physics,
University of Basel Hospital, Basel/SWITZERLAND

MEET THE AUTHOR in the EPOS™ Area at PC#1, on Oct. 1, 16:40–17:10

96 15:44 Magnetization Transfer Imaging of the Human Lung Parenchyma:
Challenge of the proper ECG triggering

P. Francová, F. Carinci, P.M. Jakob; Experimental Physics ⁵, University Würzburg,
Würzburg/GERMANY

MEET THE AUTHOR in the Paper Poster Area, on Oct. 1, 16:40–17:10

97 15:46 Black-Blood T₁-Mapping: Blood Signal Suppression for Reduced Partial-Voluming in the Myocardium

S. Weingärtner, N.M. Meßner, P. Krämer, F.G. Zoellner, L.R. Schad; Computer Assisted Clinical Medicine, Heidelberg University, Medical Faculty Mannheim, Mannheim/
GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#2, on Oct. 1, 16:40–17:10

98 15:48 SAR-reduced radial GRASE imaging using higher EPI factors

M. Okanovic¹, M. Blaimer¹, F. Breuer¹, P.M. Jakob²; ¹MRB, MRB Research Center for Magnetic-Resonance-Bavaria, Würzburg/GERMANY, ²Experimental Physics ⁵, University Würzburg, Würzburg/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#3, on Oct. 1, 16:40–17:10

99 15:50 On the phase and T₂* properties of the DESS sequence

J. Leupold¹, J.B. Erhardt², S. Köhler³, M. Wick³, F. Hennef⁴, J. Hennig¹; ¹Dept. of Radiology · Medical Physics, University Medical Center Freiburg, Freiburg/GERMANY,

²Department of Microsystems Engineering (IMTEK), University of Freiburg, Freiburg/GERMANY,

³MRI, Bruker Biospin GmbH, Ettlingen/GERMANY, ⁴Institute for Biomedical Engineering, University of Zurich and ETH Zurich, Zürich/SWITZERLAND

MEET THE AUTHOR in the EPOS™ Area at PC#4, on Oct. 1, 16:40–17:10

100 WITHDRAWN

- 101 15:52 Optimised Metal Artefact Reduction in Clinical Neuroimaging
L. Mettam, J. Ashmore; *Neuro-Radiology, Kings College Hospital NHS Foundation Trust, London/UNITED KINGDOM*
MEET THE AUTHOR in the EPOS™ Area at PC#5, on Oct. 1, 16:40–17:10
- 102 15:54 MRI artefact comparison of electrode structures made of Pt/Ir and the conducting polymer PEDOT
J.B. Erhardt¹, C. Kleber¹, J. Leupold², E. Fuhrer³, M. Asplund¹, J. Hennig², J. Korpink³, T. Stieglitz¹; ¹*Department of Microsystems Engineering (IMTEK), University of Freiburg, Freiburg/GERMANY*, ²*Dept. of Radiology · Medical Physics, University Medical Center Freiburg, Freiburg/GERMANY*, ³*Institute of Microstructure Technology, Karlsruhe Institute of Technology, Karlsruhe/GERMANY*
MEET THE AUTHOR in the EPOS™ Area at PC#6, on Oct. 1, 16:40–17:10
- 103 15:56 Multi-frequency Reconstruction for Frequency-modulated bSSFP Imaging
A. Slawig, J. Tran-Gia, T. Wech, H. Neubauer, T. Bley, H. Köstler; *Department of Diagnostic and Interventional Radiology, University of Würzburg, Würzburg/GERMANY*
MEET THE AUTHOR in the EPOS™ Area at PC#7, on Oct. 1, 16:40–17:10
- 104 15:58 Half Fourier Acquisition Single Shot Turbo Spin Echo (HASTE) and Turbo Spin Echo (TSE) imaging using multiband (MB) excitation and PINS refocusing pulses
J. Schulz, **L.J. Bains**, J.P. Marques, D.G. Norris; *Donders Institute for Brain, Cognition and Behaviour, Radboud University Nijmegen, Nijmegen/NETHERLANDS*
MEET THE AUTHOR in the EPOS™ Area at PC#8, on Oct. 1, 16:40–17:10
- 105 16:00 Faster scans and better images with zero costs in clinical MRI
C. Pereira, K. Partington; *Radiology, Nuffield Orthopaedic Centre, OUP, Oxford/UNITED KINGDOM*
MEET THE AUTHOR in the EPOS™ Area at PC#9, on Oct. 1, 16:40–17:10
- 106 16:02 Native Myocardial T₁-Mapping at 3T using Saturation Recovery
N.M. Meßner¹, S. Weingärtner¹, T. Papavassiliou², D. Loßnitzer², C. Dösch², S.O. Schoenberg³, L.R. Schad¹, F.G. Zoellner¹; ¹*Computer Assisted Clinical Medicine, Heidelberg University, Medical Faculty Mannheim, Mannheim/GERMANY*, ²*1st Department of Medicine Cardiology, University Medical Center Mannheim, Medical Faculty Mannheim, Heidelberg University, Mannheim/GERMANY*, ³*Inst of Clinical Radiology and Nuclear Medicine, University Medical Center Mannheim, Medical Faculty Mannheim, Heidelberg University, Mannheim/GERMANY*
MEET THE AUTHOR in the EPOS™ Area at PC#10, on Oct. 1, 16:40–17:10
- 107 16:04 Assessment of a multi-phase SSFP sequence for whole heart MRI
P. Martirosian¹, T. Zitzelsberger², P. Krumm², U. Kramer², A. Hornung³, L. Sieverding³, K. Nikolaou⁴, F. Schick¹; ¹*Section on Experimental Radiology, University Hospital of Tübingen, Tübingen/GERMANY*, ²*Diagnostic and Interventional Radiology, University Hospital of Tübingen, Tübingen/GERMANY*, ³*Paediatric Cardiology, University Hospital of Tübingen, Tübingen/GERMANY*, ⁴*Department of Radiology, University Hospital of Tübingen, Tübingen/GERMANY*
MEET THE AUTHOR in the Paper Poster Area, on Oct. 1, 16:40–17:10

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- 108 16:06 Volumetric T₁ and T₂ mapping of the carotid wall using 3D fast spin echo with variable refocusing flip angles**

H. Nieuwstadt¹, D. Poot¹, H. De Leeuw¹, A. Van Der Lugt¹, B. Coolen²,

A.J. Nederveen², S. Klein¹; ¹Radiology, Erasmus MC, Rotterdam/NETHERLANDS,

²Radiology, AMC, Amsterdam/NETHERLANDS

MEET THE AUTHOR in the EPOS™ Area at PC#11, on Oct. 1, 16:40–17:10

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- 109 16:08 The difference of ankle and knee cartilage composition by the means of T2 mapping at 7 Tesla MR**

V. Juras, B. Hager, S. Zbyn, V. Mlynarik, P. Szomolanyi, S. Trattnig; *High Field MR Centre, Department of Biomedical Imaging and Image-Guided Therapy, Medical University of Vienna, Vienna/AUSTRIA*

MEET THE AUTHOR in the EPOS™ Area at PC#12, on Oct. 1, 16:40–17:10

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- 110 16:10 Fetal cardiac cine imaging using realtime MRI and image-based spatiotemporal motion-correction**

J.F.P. Van Amerom¹, A.N. Price¹, P. Aljabar², S.J. Malik³, C. Malamateniou²,

K. Pushparajah⁴, J. Allsop², M. Fox², M. Rutherford², R. Razavi¹, J.V. Hajnal¹;

¹Imaging Sciences & Biomedical Engineering, King's College London, London/

UNITED KINGDOM, ²Centre for the Developing Brain, King's College London, London/

UNITED KINGDOM, ³Imaging Sciences and Biomedical Engineering, King's College London, London/UNITED KINGDOM, ⁴Department of Congenital Heart Disease, Evelina London

Children's Hospital, London/UNITED KINGDOM

MEET THE AUTHOR in the EPOS™ Area at PC#13, on Oct. 1, 16:40–17:10

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- 111 16:12 Multi-Contrast EPI-based Sequence using Simultaneous Multi-Slice Acquisition with Controlled Aliasing Readout for Dynamic Imaging**

K. Eickel¹, L. Luedemann², M. Guenther¹; ¹MR Physics, Fraunhofer Mevis, Bremen/

GERMANY, ²Radiotherapy, Universitätsklinikum Essen, Essen/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#14, on Oct. 1, 16:40–17:10

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- 112 16:14 Robust Abdominal mDIXON Imaging with High Resolution in a Single Breath-hold using Compressed Sensing**

C. Stehning, P. Boernert, H. Eggers, P. Koken, M. Doneva; *Tomographic Imaging, Philips Research, Hamburg/GERMANY*

MEET THE AUTHOR in the EPOS™ Area at PC#15, on Oct. 1, 16:40–17:10

113 16:16 Accurate T1 mapping using automated image registration in patients with pulmonary hypertension and healthy volunteers.

L.C. Hutchison¹, C. Hammerton¹, N. Stewart², D. Capener², M. Graves³, D. Kiely⁴, A. Swift², J. Wild²; ¹Academic Radiology, University of Sheffield, Sheffield/UNITED KINGDOM, ²Academic unit of radiology, University of Sheffield, Sheffield/UNITED KINGDOM, ³Department of Radiology, Cambridge University, Cambridge/UNITED KINGDOM, ⁴Academic Unit of Respiratory Medicine, University of Sheffield, Sheffield/UNITED KINGDOM

MEET THE AUTHOR in the EPOS™ Area at PC#16, on Oct. 1, 16:40–17:10

114 16:18 Longitudinal Structural and Functional Connectivity in Presymptomatic Familial Frontotemporal Dementia

L.C. Jiskoot¹, E.G.P. Dopper¹, T. Den Heijer¹, A. Hafkemeijer², I. De Koning¹, H. Seelaar¹, I. Veer², M. Van Buchem³, R. Van Minkelen¹, S. Rombouts², J. Van Swieten¹; ¹Neurology, Erasmus MC, Rotterdam/NETHERLANDS, ²Radiology, Leiden University Medical Center, Leiden/NETHERLANDS, ³Radiology, Leiden University Medical Center, Rotterdam/NETHERLANDS

MEET THE AUTHOR in the Paper Poster Area, on Oct. 1, 16:40–17:10

115 WITHDRAWN

116 16:20 Comparison of Physiological Noise measured using Multiband-ME-EPI and RETROICOR

Z. Fazal, D. Gomez, J.P. Marques, D.G. Norris; *Donders institute for cognition and Neuroimaging, Radboud university, En/NETHERLANDS*

MEET THE AUTHOR in the EPOS™ Area at PC#18, on Oct. 1, 16:40–17:10

117 16:22 Simultaneously Driven Linear and Nonlinear Gradients as Independent k-space Variables for RF Excitation: Experimental Validation

K. Ertan, E. Atalar; *National Magnetic Resonance Research Center, UMRAM, Bilkent University, Ankara/TURKEY*

MEET THE AUTHOR in the EPOS™ Area at PC#19, on Oct. 1, 16:40–17:10

118 16:24 The evaluation of clinical reliability and speed of a triple-echo steady-state T2 mapping for in vivo evaluation of articular cartilage in comparison to multi-echo spin-echo sequence

V. Juras, B. Hager, K. Bohndorf, C. Kronnerwetter, P. Szomolanyi, S. Trattnig; *High Field MR Centre, Department of Biomedical Imaging and Image-Guided Therapy, Medical University of Vienna, Vienna/AUSTRIA*

MEET THE AUTHOR in the EPOS™ Area at PC#20, on Oct. 1, 16:40–17:10

119 16:26 Multilevel quantitative assessment of cerebrospinal fluid flow circulation parameters in patients with varying severity of communicating hydrocephalus

O. Bogomyakova¹, Y. Stankevich¹, N. Mesropyan², **A. Tulupov**¹; ¹Laboratory «MRT TECHNOLOGIES», *The Institute International Tomography Center of the Russian Academy of Sciences, Novosibirsk/RUSSIAN FEDERATION*, ²Medical, Novosibirsk State University, Novosibirsk/RUSSIAN FEDERATION

MEET THE AUTHOR in the EPOS™ Area at PC#21, on Oct. 1, 16:40–17:10

Scientific Programme

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- 120 16:28 Accelerated design of 2D spatially selective RF pulses by a quasi-Newton memory-limited algorithm in the “bIOCh” framework**

M.S. Vinding¹, D. Brenner², D.H.Y. Tse³, T. Stöcker², N.C. Nielsen¹, D. Suter⁴,
I.I. Maximov⁵; ¹Interdisciplinary Nanoscience Center (iNano) and Department of Chemistry, Aarhus University, Aarhus/DENMARK, ²DZNE, German Center for Neurodegenerative Diseases, Bonn/GERMANY, ³Faculty of Psychology and Neuroscience, Maastricht University, Maastricht/NETHERLANDS, ⁴Experimental Physics III, TU Dortmund, Dortmund/GERMANY, ⁵Experimental Physics III, TU Dortmund University, Dortmund/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#22, on Oct. 1, 16:40–17:10

- 121 16:30 A Simulation Framework to Investigate T1 Contamination on Diffusion Prepared RUFIS**

X. Liu¹, F. Wiesinger², A.B. Solana³, T. Sprenger¹, M. Molina-Romero¹, P. Gomez¹, J. Sperl², B. Menze¹, M. Menzel²; ¹Institute of Medical Engineering, Technical University Munich, Garching/GERMANY, ²GE Global Research, GE, Munich/GERMANY, ³Global Research Centre, GE, Munich/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#23, on Oct. 1, 16:40–17:10

- 122 16:32 Phase Encoded Artefact Suppression for imaging near metal implants**

M. Rea¹, S. Hubertus², D. McRobbie³, I.R. Young⁴; ¹Radiological Sciences Unit, Imperial College Healthcare NHS Trust, London/UNITED KINGDOM, ²Bioengineering, Imperial College London, London/UNITED KINGDOM, ³Radiological Science, Flinders Medical Centre, Adelaide/ACT/AUSTRALIA, ⁴Electronic Engineering, Imperial College London, London/UNITED KINGDOM

MEET THE AUTHOR in the EPOS™ Area at PC#24, on Oct. 1, 16:40–17:10

- 123 16:34 3D MR-defecography**

V. Ratz¹, T. Wech¹, A. Schindeler², A. Dierks¹, A. Sauer¹, J. Reibetanz³, A. Borzi², T. Bley¹, H. Köstler¹; ¹Department of Diagnostic and Interventional Radiology, University of Würzburg, Würzburg/GERMANY, ²Institute of Mathematics, University of Würzburg, Würzburg/GERMANY, ³Department of General-, Visceral-, Vascular- and Pediatric Surgery, University of Würzburg, Würzburg/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#25, on Oct. 1, 16:40–17:10

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- 17:20–18:50 16 Teaching Session - Advanced Susceptibility and phase imaging**

Pentland

Moderators: S. Straub, Heidelberg/DE
C. Langkammer, Graz/AT

- 124 17:20 Biophysical mechanisms of phase contrast in the human brain**

J.P. Marques; Radboud University, Donders Institute, Nijmegen/NETHERLANDS

125	17:50	Processing phase data from array coils S.D. Robinson; <i>Department of Biomedical Imaging and Image-guided Therapy, Medical University of Vienna, Vienna/AUSTRIA</i>
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126	18:20	From phase to QSM A. Deistung; <i>Medical Physics Group, Institute of Diagnostic and Interventional Radiology, Jena University Hospital - Friedrich Schiller University Jena, Jena/GERMANY</i>
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17:20–18:50	17 Scientific Session Advanced MR sequences Moderators: T. Stöcker, Bonn/DE N.N.	Sidlaw
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127	17:20	Accelerated Magnetic Resonance Fingerprinting P. Koken, T. Amthor, M. Doneva, P. Boernert; <i>Tomographic Imaging, Philips Research, Hamburg/GERMANY</i>
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128	17:30	 PT-Nav: A Novel Respiratory Navigation Method for Continuous Acquisitions Based on Modulation of a Pilot Tone in the MR-Receiver P. Speier¹, M. Fenchel ¹ , R. Rehner ² ; ¹ <i>MR PI, Siemens Healthcare, Erlangen/GERMANY</i> , ² <i>MR R&D, Siemens Healthcare, Erlangen/GERMANY</i>
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129	17:40	True Point Imaging M. Weigel, O. Bieri; <i>Dept. of Radiology, Radiological Physics, University of Basel Hospital, Basel/SWITZERLAND</i>
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130	17:50	 Improving subsampling efficiency for Compressed Sensing MRI T. Küstner¹, C. Würslin ¹ , S. Gatidis ¹ , P. Martirosian ¹ , K. Nikolaou ¹ , N. Schwenzer ¹ , F. Schick ² , B. Yang ³ , H. Schmidt ² ; ¹ <i>Department of Radiology, University Hospital of Tübingen, Tübingen/GERMANY</i> , ² <i>Section on Experimental Radiology, University Hospital of Tübingen, Tübingen/GERMANY</i> , ³ <i>Institute of Signal Processing and System Theory, University of Stuttgart, Stuttgart/GERMANY</i>
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131	18:00	Echo-Planar Imaging on a True Zig-zag Trajectory P. Liebig¹, R.M. Heidemann ² , D.A. Porter ³ ; ¹ <i>Zentrum für Medizinische Physik und Technik, Universität Erlangen-Nürnberg, Erlangen/GERMANY</i> , ² <i>Technology and Research, Siemens Healthcare, Erlangen/GERMANY</i> , ³ <i>MRI Physics, Fraunhofer MEVIS, Bremen/GERMANY</i>
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132	18:10	Nonlinear Increasing Profile Order for Retrospective Gating Application to Both Respiratory and Cardiac Self-Gated 3D CINE MRI Y. Zhu¹, Y. Xie ¹ , S. Bao ² , S. Gao ³ ; ¹ <i>Institute of Biomedical and Health Engineering, Shenzhen Institutes of Advanced Technology, Chinese Academic of Sciences, Shenzhen/CHINA</i> , ² <i>School of Physics, Peking University, Beijing City Key Lab of Medical Physics and Engineering, Beijing/CHINA</i> , ³ <i>Health Science Center of Peking University, Medical Imaging Physics Laboratory, Beijing/CHINA</i>
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Scientific Programme

THURSDAY, OCTOBER 1, 2015

- 133 18:20 **Ultrashort echo time imaging with acquisition trajectory mapping for correction of gradient imperfections.**
 **P. Latta¹, Z. Starcuk Jr.², M.L..H. Gruwel³, B. Tomanek¹; ¹Central European Institute of Technology, Masaryk University, Brno/CZECH REPUBLIC, ²NMR, ASCR, Institute of Scientific Instruments, Brno/CZECH REPUBLIC, ³NMR, MLHG Consulting, Winnipeg/MB/CANADA**
- 134 18:30 **Smart Averaging**
R. Pohmann, K. Scheffler; Magnetic Resonance Center, Max Planck Institute for Biological Cybernetics, Tübingen/GERMANY
-
- 17:20-18:50 **18 Scientific Session** Fintry
MR advances in lung parenchyma imaging
Moderators: N.N.
N.N.
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- 135 17:20 **3D multiple b-value ADC acquisition for whole lung morphometry with hyperpolarised gas MRI and compressed sensing**
 **H.-F. Chan, N. Stewart, J. Parra-Robles, G. Collier, J. Wild; Academic Unit of Radiology, University of Sheffield, Sheffield/UNITED KINGDOM**
-
- 136 17:30 **Echo-time dependence of observed lung T₁ in COPD patients: preliminary results**
 **S.M. Triphan¹, M.O. Wielpütz¹, C.-P. Heussel², J. Biederer¹, H.-U. Kauczor¹, P.M. Jakob³, B.J. Jobst¹; ¹Diagnostic and Interventional Radiology, University Hospital Heidelberg, Heidelberg/GERMANY, ²Department of Diagnostic and Interventional Radiology with Nuclear Medicine, Thoraxklinik at University of Heidelberg, Heidelberg/GERMANY, ³Experimental Physics ⁵, University Würzburg, Würzburg/GERMANY**
-
- 137 17:40 **Influence of age and sex on lung T1 in healthy never-smokers**
 **S. Kindvall¹, J. Svensson², S. Diaz³, P. Wollmer⁴, D. Slusarczyk³, L.E. Olsson¹; ¹Medical Radiation Physics, Lund University, Malmö/SWEDEN, ²Medical Imaging and Physiology, Skåne University Hospital, Lund/SWEDEN, ³Medical Radiology, Lund University, Malmö/SWEDEN, ⁴Clinical Physiology and Nuclear Medicine, Lund University, Malmö/SWEDEN**
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- 138 17:50 **An Alternative Fourier Decomposition Acquisition Scheme for Fast Fractional Ventilation Mapping**
A. Voskrebenev, M. Gutberlet, F. Wacker, J. Vogel-Claussen; Institute of Diagnostic and Interventional Radiology, Hannover Medical School, Hannover/GERMANY
-
- 139 18:00 **Dynamic fluorinated gas MRI in free breathing for mapping of regional lung ventilation in humans using a 16 channel coil at 1.5T**
 **M. Gutberlet, A. Voskrebenev, T. Kaireit, C. Schönfeld, F. Wacker, J. Vogel-Claussen; Institute of Diagnostic and Interventional Radiology, Hannover Medical School, Hannover/GERMANY**

140 18:10 Non-cartesian parallel reconstruction of 3D UTE Cones for MR lung imaging



K. Zeimpakis¹, G. Delso², F. Wiesinger³, P. Veit-Haibach¹, K. Pruessmann⁴;

¹Nuclear Medicine, University Hospital Zurich, Zurich/SWITZERLAND, ²GE Healthcare, GE, Waukesha/United States of America, ³GE Global Research, GE, Munich/GERMANY,

⁴Information Technology and Electrical Engineering, ETHZ, Zurich/SWITZERLAND

141 18:20 Prevalence and Significance of Non-Thrombotic findings found on pulmonary embolism negative contrast enhanced Magnetic Resonance angiography exams: Results from 514 consecutive symptomatic patients

M.L. Schiebler¹, J. Ahuja², C. Francois¹, S. Reeder¹, T. Grist¹, K. Vigen¹, A. Munoz Del Rio³, S.K. Nagle¹; ¹Radiology, UW- Madison School of Medicine and Public Health, Madison/WI/United States of America, ²Radiology, University of Washington, Seattle/WA/United States of America, ³Radiology, UW- Madison School of Medicine and Public Health, Madison/United States of America

17:20–18:50 19 Scientific Session

Tinto

Brain metabolism

Moderators: E. Ozturk-Isik, Istanbul/TR
N.N.

142 17:20 Neonatal hypoxic ischemic brain damages: early neuroprotective effect of lactate



L. Mazuel, N. Alberti, G. Raffard, S. Sanchez, J.-M. Franconi, J.-F. Chateil, A.-K. Bouzier-Sore; RMSB Center, CNRS, Bordeaux/FRANCE

143 17:30 Complex 1 deficiency in the brain of mice causes white matter lesions, defective energy metabolism and morphology, and increased perfusion

D. Das¹, R. Haas², A. Veltien³, J. Smeitink², A. Heerschap⁴; ¹Radiology, Radboud University Medical Center, Nijmegen, Nijmegen/NETHERLANDS, ²Pediatrics, Radboud University Nijmegen Medical Center, Nijmegen/NETHERLANDS, ³Department of Radiology, Radboud University Nijmegen Medical Centre, Nijmegen/NETHERLANDS, ⁴Radiology and Nuclear Medicine, Radboud University Nijmegen Medical Center, Nijmegen/NETHERLANDS

144 17:40 Chronic exposure to corticosterone lowers limbic glutamine and increases prefrontal glutamate in a rodent chronic stress model.

M.I. Schubert¹, C. Spicer², L. Latif², S. Beckett², C.A. Marsden², D. Kendall², D.P. Auer³; ¹Department of Diagnostic and Interventional Neuroradiology, Klinikum rechts der Isar, Technical University Munich, Munich/GERMANY, ²School of Life Sciences, University of Nottingham, Nottingham/UNITED KINGDOM, ³School of Medicine, University of Nottingham, Nottingham/UNITED KINGDOM

145 17:50 The white matter micro-integrity alterations and the correlation with diet in prediabetes



Y.-C. Hou¹, C.-H. Lai², C.-Y. Chen², S.-W. Kuo²; ¹Department of Nutrition, Taipei Tzu Chi Hospital, Buddhist Tzu Chi Medical Foundation, New Taipei/TAIWAN, ²Department of Psychiatry, Cheng Hsin General Hospital, Taipei/TAIWAN

Scientific Programme

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- 146 18:00 **Short-term effects of high fat diet on the neurochemical profile of the mouse hypothalamus**



B. Lizarbe¹, J.M. Duarte¹, F.A. Soares¹, H. Lei², R. Gruetter³; ¹Centre d'Imagerie Biomédicale, Ecole Polytechnique Fédérale de Lausanne, Laboratory for Functional and Metabolic Imaging, Lausanne/SWITZERLAND, ²CIBM-AIT, École polytechnique fédérale de Lausanne, Lausanne/SWITZERLAND, ³École Polytechnique Fédérale de Lausanne, Centre d'Imagerie Biomédicale, Lausanne/SWITZERLAND

- 147 18:10 **Adaptations in brain glucose metabolism in a Western diet containing fructose and / or moderate ethanol: study by nuclear magnetic resonance spectroscopy in rats.**



A.-K. Bouzier-Sore, D. El Hamrani, H. Gin, J.-L. Gallis, M.-C. Beauvieux; UMR5536 RMSB, CNRS-Université Bordeaux, Bordeaux/FRANCE

- 148 18:20 **Altered cerebral blood flow during hypoglycemia in patients with type 1 diabetes and impaired hypoglycemic awareness – initial results**

K.M. Becker¹, E.C. Wiegers¹, H.M.M. Rooijackers², C.J.J. Tack², A. Heerschap³, B.E. De Galan², M. Van Der Graaf¹; ¹Radiology and Nuclear Medicine, Radboud university medical center, Nijmegen/NETHERLANDS, ²Internal Medicine, Radboud University Nijmegen Medical Center, Nijmegen/NETHERLANDS, ³Radiology and Nuclear Medicine, Radboud University Nijmegen Medical Center, Nijmegen/NETHERLANDS

- 149 18:30 **Neurochemical changes in mouse hypothalamus upon insulin-induced hypoglycemia: an in vivo ¹H MRS study**

H. Lei¹, R. Gruetter²; ¹CIBM-AIT, École polytechnique fédérale de Lausanne, Lausanne/SWITZERLAND, ²Laboratory of Functional and Metabolic Imaging (LIFMET), Ecole Polytechnique Fédérale de Lausanne, Lausanne/SWITZERLAND

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- 17:20–18:20 20 **Lightning Talk** Kilsyth
Functional imaging & flow

Moderators: I. Mader, Freiburg/DE
H. Mutsaerts, Amsterdam/NL

- 150 17:20 **fMRI measures of movement cued by auditory rhythm**

R. Schaefer¹, A. Morcom², N. Roberts³, K. Overy⁴; ¹SAGE Center for the Study of the Mind, University of California, Santa Barbara, Santa Barbara/CA/United States of America, ²School for Philosophy, Psychology and Language Science, University of Edinburgh, Edinburgh/UNITED KINGDOM, ³Clinical Research Imaging Centre, University of Edinburgh, Edinburgh/UNITED KINGDOM, ⁴Reid School of Music, University of Edinburgh, Edinburgh/UNITED KINGDOM

MEET THE AUTHOR in the Paper Poster Area, on Oct. 1, 18:20–18:50

151 17:22 Precuneus functioning relates to disease progression in mild cognitive impairment; an episodic memory task related fMRI study

J.M. Papma¹, Y. Rietdijk², F. Mattace Raso³, I. De Koning², A. Van Der Lugt⁴, P.J. Koudstaal², J.C. Van Swieten², N.D. Prins⁵, M. Smits⁴; ¹Neurology, Erasmus MC, Rotterdam/NETHERLANDS, ²Neurology, Erasmus Medical Center, Rotterdam/NETHERLANDS, ³Geriatrics, Erasmus Medical Center, Rotterdam/NETHERLANDS, ⁴Radiology, Erasmus Medical Center, Rotterdam/NETHERLANDS, ⁵Neurology, VU medical center, Amsterdam/NETHERLANDS

MEET THE AUTHOR in the EPOS™ Area at PC#1, on Oct. 1, 18:20–18:50

152 17:24 Light-induced activation of the visual network by optogenetic fMRI (ofMRI) of the thalamo-cortical network in rat

F. Schmid, L. Wachsmuth, F. Albers, C. Faber; Department of Clinical Radiology, University of Münster, Münster/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#2, on Oct. 1, 18:20–18:50

153 17:26 Effect of Implicit Indicators of National Identity on Brain Activation When Viewing In-group and Out-group Members in Pain

A. Moore¹, J. Skewes¹, S. Hong², K. Nicol¹, K. Prkachin¹, N. Roberts¹, A. Roepstorff¹, L. Cram¹; ¹CRIC, Edinburgh university, Edinburgh/UNITED KINGDOM, ²School of Social and Political Science, University of Edinburgh, Edinburgh/UNITED KINGDOM

MEET THE AUTHOR in the EPOS™ Area at PC#3, on Oct. 1, 18:20–18:50

154 WITHDRAWN

155 17:28 A novel anesthesia protocol for neuro-functional imaging across mouse strains



M.M. Petrinovic¹, G. Hankov², A. Schroeter², A. Bruns¹, M. Rudin², M. Von Kienlin¹, B. Künnecke¹, **T. Muegglar**¹; ¹Roche Pharmaceutical Research & Early Development, Neuroscience Discovery, Hoffmann-La Roche Ltd, Basel/SWITZERLAND, ²Institute for Biomedical Engineering, University and ETH Zurich, Zurich/SWITZERLAND

MEET THE AUTHOR in the EPOS™ Area at PC#5, on Oct. 1, 18:20–18:50

156 17:30 The insular cortex integrates proprioceptive information sensitive to gravity

C. Rousseau, L. Fautrelle, H. Papaxanthis Charalambos, T. Pozzo, O. White; UFR STAPS, INSERM, Dijon/FRANCE

MEET THE AUTHOR in the Paper Poster Area, on Oct. 1, 18:20–18:50

157 17:32 Dynamics of slow BOLD oscillations during rest and task states

J.P. Brito¹, A. Andrade¹, H.A. Ferreira¹, D. Fink², G. Pfurtscheller³; ¹Physics department, Institute of Biophysics and Biomedical Engineering, Lisboa/PORTUGAL, ²Department of Psychology, University of Graz, Graz/AUSTRIA, ³-, Institute for Knowledge Discovery, BCI-Lab, Graz/AUSTRIA

MEET THE AUTHOR in the EPOS™ Area at PC#6, on Oct. 1, 18:20–18:50

158 17:34 Regularized least-squares regression analysis for quantitative BOLD

S. Domsch, S. Weingärtner, J. Zapp, L.R. Schad; Computer Assisted Clinical Medicine, Heidelberg University, Mannheim/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#7, on Oct. 1, 18:20–18:50

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- 159 17:36 **Fractal Dimensionality of BOLD signal as a measure of Mild Traumatic Brain Injury (mTBI)**

S.B. Shaw¹, K. Dhindsa², C. Dematteo³, J.F. Connolly⁴, M.D. Noseworthy¹; ¹School of Biomedical Engineering, McMaster University, Hamilton/CANADA, ²School of Computational Science and Engineering, McMaster University, Hamilton/ON/CANADA, ³School of Rehabilitation Sciences, McMaster University, Hamilton/ON/CANADA, ⁴McMaster Integrative Neuroscience Discovery and Study (MINDS), McMaster University, Hamilton/ON/CANADA

MEET THE AUTHOR in the EPOS™ Area at PC#8, on Oct. 1, 18:20–18:50

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- 160 17:38 **Whole Brain Resting-State Functional MRI on a 6-OHDA unilateral lesioned rat model of Parkinson disease**

C. Monnot, X. Zhang, S. Nikkhou Aski, P. Damberg, P. Svenningsson; Department of Clinical Neuroscience, Karolinska Institutet, Stockholm/SWEDEN

MEET THE AUTHOR in the EPOS™ Area at PC#9, on Oct. 1, 18:20–18:50

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- 161 17:40 **Dynamic spectroscopy of brain hemodynamic response.**

D.A. Kupriyanov¹, S. Batova², N.A. Semenova³, M.V. Ublinskiy⁴, T. Akhadov⁵; ¹Medical Affairs, Philips Healthcare, Moscow/RUSSIAN FEDERATION, ²Radiology, Research Institute of Emergency Children's Surgery and Trauma, Moscow/RUSSIAN FEDERATION, ³Russian Academy of Sciences, N.N. Semenov Institute of Chemical Physics, Moscow/RUSSIAN FEDERATION, ⁴Russian Academy of Sciences, N.M.Emanuel Institute of Biochemical Physics, Moscow/RUSSIAN FEDERATION, ⁵Ministry of Healthcare of Russia, NRI of Children Emergent Surgery and Trauma, Moscow/RUSSIAN FEDERATION

MEET THE AUTHOR in the EPOS™ Area at PC#10, on Oct. 1, 18:20–18:50

162 17:42

The effect of the serotonin transporter allele polymorphism in the Russians and the Tuvinians on individual characteristics of cerebral hemodynamics in attentional-related tasks

E.D. Petrovskiy¹, A.N. Savostyanov², A.A. Savelov³, V.S. Naumenko⁴, N.A. Sinyakova¹, E.A. Levin⁵, S.S. Tamozhnikov², **A. Tulupov³**, U.N. Kavai-Ool⁶, N.A. Kolchanov⁷, L.I. Aftanas⁸; ¹Neurobiology and Neurogenetics Center, Institute of Cytology and Genetics SB RAS, Novosibirsk/RUSSIAN FEDERATION, ²Cognitive neurolinguistics group, State Research Institute of Physiology and Fundamental Medicine, Siberian Branch of the Russian Academy of Medical Sciences, Novosibirsk/RUSSIAN FEDERATION, ³Diagnostic department, International Tomography Center SB RAS, Novosibirsk/RUSSIAN FEDERATION, ⁴Laboratory of Neurogenetics of Behaviour, Institute of Cytology and Genetics SB RAS, Novosibirsk/RUSSIAN FEDERATION, ⁵Neuroreanimatology Group, Novosibirsk State Research Institute of Circulation Pathology, Novosibirsk/RUSSIAN FEDERATION, ⁶General history Department, Tuva State University, Kyzyl/RUSSIAN FEDERATION, ⁷Systems Biology Department, Institute of Cytology and Genetics SB RAS, Novosibirsk/RUSSIAN FEDERATION, ⁸Administration, State Research Institute of Physiology and Fundamental Medicine, Siberian Branch of the Russian Academy of Medical Sciences, Novosibirsk/RUSSIAN FEDERATION

MEET THE AUTHOR in the EPOS™ Area at PC#11, on Oct. 1, 18:20–18:50

163 17:44

The Influence of Hearing Acuity on Brain Sub-Cortical Structures and Function

F. Alhazmi¹, J. Alghamdi², I. Mackenzie³, G. Kemp⁴, V. Sluming¹; ¹Department of Molecular and Cellular Physiology, University of Liverpool, Liverpool/UNITED KINGDOM, ²Physics Department, King Abdulaziz University, Jeddah/SAUDI ARABIA, ³Liverpool School of Tropical Medicine, University of Liverpool, Liverpool/UNITED KINGDOM, ⁴Institute of Ageing and Chronic Disease, University of Liverpool, Liverpool/UNITED KINGDOM

MEET THE AUTHOR in the EPOS™ Area at PC#12, on Oct. 1, 18:20–18:50

164 17:46

Enhanced temporal regularity reduces activation in left inferior frontal gyrus (BA44) in a musical rhythm discrimination task

S. Hong¹, N. Roberts², A.M. Morcom³, K. Overy¹; ¹Reid School of Music, University of Edinburgh, Edinburgh/UNITED KINGDOM, ²Clinical Research Imaging Centre, 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#13, on Oct. 1, 18:20–18:50

165 17:48

Resting state fMRI study during natural filling of the urinary bladder

J. Krhut¹, **J. Tintera²**, R. Zachoval³, P. Holy³, K. Bilkova⁴, P. Zvara⁵, B. Blok⁶; ¹Department of Urology, University Hospital Ostrava, Ostrava/CZECH REPUBLIC, ²Radiodiagnostic and Interventional Radiology Department, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, ³Department of Urology, Thomayer's Hospital, Prague/CZECH REPUBLIC, ⁴Spinal Cord Rehabilitation Unit, Rehabilitation Center, Kladruby/CZECH REPUBLIC, ⁵Division of Urology, University of Vermont, Burlington/AL/United States of America, ⁶Department of Urology, Erasmus Medical Center, Rotterdam/NETHERLANDS

MEET THE AUTHOR in the EPOS™ Area at PC#14, on Oct. 1, 18:20–18:50

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166 17:50 Resting state fMRI study: Network connectivity in cryptogenic epilepsy

A. Efimtcev¹, A. Sokolov¹, V. Fokin¹, G. Trufanov¹, S. Basilevich², M. Prokudin²,
¹MRI, NW FMIC, Saint-Petersburg/RUSSIAN FEDERATION, ²Neurology, Military Medical Academy, Saint-Petersburg/RUSSIAN FEDERATION

MEET THE AUTHOR in the EPOS™ Area at PC#15, on Oct. 1, 18:20–18:50

167 17:52 In somatosensory mapping, manual stroking yields more sustained BOLD responses than mechanical stimulation.

W. Van Der Zwaag¹, R. Gruetter², R. Martuzzi³, ¹Spinoza Centre for Neuroimaging, KNAW, Amsterdam/NETHERLANDS, ²Ecole Polytechnique Fédérale de Lausanne, Centre d'Imagerie Biomédicale, Lausanne/SWITZERLAND, ³Center for Neuroprosthetics, School of Life Sciences, EPFL, Lausanne/SWITZERLAND

MEET THE AUTHOR in the Paper Poster Area, on Oct. 1, 18:20–18:50

168 17:54 Dealing with movement artifact correction in overt verbal response fMRI in children: scrubbing compared to other strategies

V. Delattre¹, R. Phlypo², M. Noulhiane¹, C. Chiron³, L. Hertz-Pannier¹, D. Germanaud¹, ¹UNIACT, U1129, UNIPEDIA, CEA, Neurospin, Gif-Sur-Yvette/FRANCE, ²Image et Signal, GIPSA lab, Grenoble INP, Grenoble/FRANCE, ³U1129-Necker-Paris Descartes University, INSERM, Paris/FRANCE

MEET THE AUTHOR in the Paper Poster Area, on Oct. 1, 18:20–18:50

169 17:56 Morphological and functional features of the blood flow in the internal carotid arteries by 2D phase-contrast MRA.

Y. Stankevich, O. Bogomyakova, M. Amelin, A. Tulupov; Laboratory of translational brain research., The Institute International Tomography Center of the Russian Academy of Sciences., Novosibirsk/RUSSIAN FEDERATION

MEET THE AUTHOR in the Paper Poster Area, on Oct. 1, 18:20–18:50

170 17:58 MRI flow quantification of head and neck flow arteries

J.B. Betttoni¹, G. Pagé², S. Dakpé¹, O. Baledent², ¹Maxillo-facial surgery, Amiens CHU, Amiens/FRANCE, ²Image Processing Department, BioFlowImage, University Hospital of Picardy, Amiens/FRANCE

MEET THE AUTHOR in the Paper Poster Area, on Oct. 1, 18:20–18:50

171 18:00 4D PC-MRI Software

G. Pagé¹, J.B. Betttoni², A. Heintz¹, O. Baledent¹; ¹Image Processing Department, BioFlowImage, University Hospital of Picardy, Amiens/FRANCE, ²Maxillo-facial surgery, Amiens CHU, Amiens/FRANCE

MEET THE AUTHOR in the EPOS™ Area at PC#16, on Oct. 1, 18:20–18:50

- 172 18:02** **The effect of Ivabradine on plaque size, biomechanics, and microvasculature in atherosclerotic rabbits measured using MR, Ultrasound Imaging, and histology**
R.H.M. Van Hoof¹, E. Hermeling¹, J. Salzmann², J.C. Sluimer³, S. Heeneman³, A.P.G. Hoeks⁴, J. Roussel², H. Struijker-Boudier⁵, J. Wildberger¹, **E.M. Kooi¹**; ¹Radiology, Maastricht University Medical Center, Maastricht/NETHERLANDS, ²Servier, Institut de Recherches Internationales Servier, Suresnes/FRANCE, ³Pathology, Maastricht University Medical Center, Maastricht/NETHERLANDS, ⁴Biomedical Engineering, Maastricht University, Maastricht/NETHERLANDS, ⁵Pharmacology, Maastricht University, Maastricht/NETHERLANDS
MEET THE AUTHOR in the EPOS™ Area at PC#17, on Oct. 1, 18:20–18:50
- 173** **WITHDRAWN**
- 174 18:04** **Complete Freund's adjuvant-induced central sensitization in rats: an fMRI study**
T. Spisák¹, Z. Pozsgay², D. Szabolcs², C. Aranyi³, P. Kocsis², G. Nyitrai², D. Gajári², M. Emri³, A. Czurkó², T.Z. Kincses⁴; ¹Preclinical Imaging Center, Gedeon Richter Plc., Budapest/HUNGARY, ²Preclinical Imaging Center, Gedeon Richter Plc., Budapest/HUNGARY, ³Department of Nuclear Medicine, University of Debrecen, Debrecen/HUNGARY, ⁴Department of Neurology, Albert Szent-Györgyi Clinical Center, University of Szeged, Szeged/HUNGARY
MEET THE AUTHOR in the EPOS™ Area at PC#19, on Oct. 1, 18:20–18:50
- 175 18:06** **Prospective motion correction of EEGfMRI data: What does the fMRI correction cause to the EEG data?**
D. Maziero¹, C.E.G. Salmon¹, D. Carmichael²; ¹Department of Physics, University of São Paulo, Ribeirão Preto/BRAZIL, ²Developmental Imaging and Biophysics Section, University College London, London/UNITED KINGDOM
MEET THE AUTHOR in the EPOS™ Area at PC#20, on Oct. 1, 18:20–18:50
- 176 18:08** **Arterial Spin Labeling Motor Activation Presurgical Mapping for Brain Tumor Resection**
I. Corouge¹, E. Bannier², E. Le Rumeur³, J.-C. Ferré²; ¹Unité VISAGES U746 INSERM-INRIA, IRISA UMR CNRS 6074, University of Rennes ¹, Rennes/FRANCE, ²Unité VISAGES U746 INSERM-INRIA, IRISA UMR CNRS 6074, University Hospital of Rennes, Rennes/FRANCE, ³Radiology, University Hospital of Rennes, Rennes/FRANCE
MEET THE AUTHOR in the EPOS™ Area at PC#21, on Oct. 1, 18:20–18:50
- 177 18:10** **Brain activation associated with working memory maintenance with anxiety-provoking distracter in patients with obsessive compulsive disorder**
G.-W. Kim¹, **G.-W. Jeong²**; ¹Radiology, Chonnam National University Medical School, Gwangju/KOREA, ²Radiology, Chonnam National University Medical School, Gwangju/KOREA
MEET THE AUTHOR in the Paper Poster Area, on Oct. 1, 18:20–18:50
- 178 18:12** **Combined VBM and FMRI study in patients with memory impairment after traumatic brain injury**
A. Sokolov¹, V. Fokin¹, A. Efimtsev¹, V. Lobzin², S. Vorobyev², I. Luponov²; ¹Radiology, Federal North-West Medical Research Centre, Saint Petersburg/RUSSIAN FEDERATION, ²Neurology, Military Medical Academy, Saint Petersburg/RUSSIAN FEDERATION
MEET THE AUTHOR in the Paper Poster Area, on Oct. 1, 18:20–18:50

Scientific Programme

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- 179 18:14 A novel reconstruction method for multi-band EPI in animal scanners with iterative point-by-point procedures in k-space

H. Toyoda¹, S. Yoshinaga², N. Yuzuriha², S. Kusanagi², H. Terasawa²; ¹Center for Information and Neural Networks, National Institute of Information and Communications Technology, Suita/JAPAN, ²Department of Structural Biomaging, Kumamoto University Graduate School of Pharmaceutical Sciences, Kumamoto/JAPAN

MEET THE AUTHOR in the Paper Poster Area, on Oct. 1, 18:20–18:50

Scientific Programme

FRIDAY, OCTOBER 2, 2015

8:00–9:00	21 Teaching Session - Advanced Advanced MR of the knee joint Moderators: M. Almulla, Dublin/IE N.N.	Sidlaw
180 08:00	Complex tears of the menisci J. Zentner; Augsburg, Radiologische Praxis, Augsburg/GERMANY	
181 08:30	The postero-lateral corner of the knee joint C. Muhle; Department of Radiology, St. Marienhospital Vechta, Vechta/GERMANY	
8:00–9:00	22 Teaching Session MRI quality and safety (in collaboration with EFOMP) Moderators: N.N. N.N.	Finty
182 08:00	Hybrid imaging phantom for research applications and quality control for PET/MR and PET/CT systems P. Mann; German Cancer Research Center, Applied Medical Radiation Physics, Heidelberg/GERMANY	
183 08:20	Experiences in Multi-Centre MRI Quality Assurance A. McCann; Radiological Sciences and Imaging, Forster Green Hospital, Belfast/IRELAND	
184 08:40	Safety of high field MRI P.W. De Bruin; Radiology Department, Leiden University Medical Center, Leiden/NETHERLANDS	
8:00–9:00	23 Teaching Session - Basic Trauma imaging: imaging of blood Moderators: M. Schubert, München/DE N.N.	Tinto
185 08:00	MR characteristics of hemorrhage – the neuroradiologist's perspective D. Petersen; Lübeck/GERMANY	
186 08:30	MR characteristics of blood – the physicist's perspective A. Petrovic; Institute of Medical Engineering, University of Technology Graz, Graz/AUSTRIA	

Scientific Programme

FRIDAY, OCTOBER 2, 2015

9:10-10:40	24 Plenary Session Multiparametric, quantitative MR in cancer: does it make a difference? Moderators: N.N. N.N.	Pentland
187 09:10	Functional MRI in oncology: basic principles and rationale F. De Keyzer; Radiology, University Hospitals Leuven, Leuven/BELGIUM	
188 09:40	Application in breast cancer tbc	
189 10:10	Application in prostate cancer J. Futterer; Radiology and Nuclear Medicine, Radboudumc, Nijmegen/NETHERLANDS	
10:50-12:20	25 Teaching Session - Basic MR angiography of carotid arteries and intracranial circulation Moderators: N.N. N.N.	Pentland
190 10:50	Non-CE MRA techniques P. van Ooij; Academic Medical Center, Amsterdam/NETHERLANDS	
191 11:20	How to perform CE MRA - tips and tricks G. Roditi; Radiology, NHS Greater Glasgow & Clyde, Glasgow/UNITED KINGDOM	
192 11:50	Plaque imaging of carotid bifurcation and intracranial arteries E. Kooi; Maastricht University Medical Center, Maastricht/NETHERLANDS	
10:50-12:20	26 Scientific Session Function and structure: human brain and beyond Moderators: H. Mutsaerts, Amsterdam/NL N.N.	Sidlaw
193 10:50	Visualizing sexual variability in the avian brain D. Jirák¹, J. Janacek²; ¹ MR Unit, Department of Radiodiagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, ² Department of biomathematics, Institute of Physiology CAS, Prague/CZECH REPUBLIC	

- 194 11:00** **The language connectome in typically developing school-aged children: insights from DTI tractography**
M. Verly¹, R. Gerrits¹, L. Lagae², I. Zink¹, S. Sunaert³, N. Rommel¹; ¹Exp ORL, Neurosciences, KU Leuven, Leuven/BELGIUM, ²Neuropediatrics, UZ Leuven, Leuven/BELGIUM, ³Imaging & Pathology, KU Leuven, Leuven/BELGIUM
- 195 11:10** **Atypical language dominance in refractory epilepsy: relation to quantitative MRI**
M. Mohan¹, U.C. Wieschmann², G. Baker¹, N. Roberts³, V. Sluming⁴, A. Marson⁴, S.S. Keller¹; ¹Institute of Translational Medicine, University of Liverpool, Liverpool/UNITED KINGDOM, ²Department of Neurology, The Walton Centre NHS Foundation Trust, Liverpool/UNITED KINGDOM, ³Clinical Research Imaging Centre, University of Edinburgh, Edinburgh/UNITED KINGDOM, ⁴Institute of Translational Medicine, University Of Liverpool, Liverpool/UNITED KINGDOM
- 196 11:20** **Measurement of Global Occipital Bending and Local Sylvian Fissures Morphology in Humans and Chimpanzees (*pan troglodytes*)**
L. Hou¹, X. Li¹, W. Hopkins², T. Crow³, N. Roberts¹; ¹Clinical Research Imaging Centre, University of Edinburgh, Edinburgh/UNITED KINGDOM, ²Neuroscience Institute and Language Research Center, Georgia State University, Atlanta/GA/United States of America, ³University Department of Psychiatry, Oxford University, Oxford/UNITED KINGDOM
- 197 11:30** **Musically Cued Motor Training Induces Structural Change in the Arcuate Fasciculus**
E. Moore¹, **R. Schaefer**², M.E. Bastin³, N. Roberts⁴, K. Overy¹; ¹Reid School of Music, University of Edinburgh, Edinburgh/UNITED KINGDOM, ²SAGE Center for the Study of the Mind, University of California, Santa Barbara, Santa Barbara/CA/United States of America, ³Centre for Clinical Brain Sciences, University of Edinburgh, Edinburgh/UNITED KINGDOM, ⁴Clinical Research Imaging Centre, University of Edinburgh, Edinburgh/UNITED KINGDOM
- 198 11:40** **Comparison of Gradient and Spin Echo EPI Simultaneously Acquired for Resting State Functional Connectivity**

B. Fernandez¹, V. Spoormaker², P. Sämann², M. Czisch²; ¹Applications and Workflow, GE Healthcare, Munich/GERMANY, ²Neuroimaging, Max Planck Institute of Psychiatry, Munich/GERMANY
- 199 11:50** **TBI-induced alterations in brain activity: reduced neural activation during movement planning and increased activation during execution**

J. Gooijers¹, I.A.M. Beets¹, K. Beeckmans², K. Michiels³, S.P. Swinnen¹; ¹Department of Kinesiology, KU Leuven, Leuven/BELGIUM, ²Clinical Neuropsychology, CEPOS, Duffel/BELGIUM, ³Physical medicine and rehabilitation, UZ Pellenberg, Pellenberg/BELGIUM
- 200 12:00** **Impact of stabilization splint on neural activation related to clenching in temporomandibular disorder**

F. Li¹, S. He², S. Lui¹, S. Chen², Q. Gong¹; ¹Huaxi MR Research Center (HMRRC), Department of Radiology, West China Hospital of Sichuan University, Chengdu/CHINA, ²State Key Laboratory of Oral Disease, Department of Orthodontics, West China School of Stomatology, Sichuan University, Chengdu/CHINA

Scientific Programme

FRIDAY, OCTOBER 2, 2015

10:50–12:20 27 Scientific Session

Finsky

Quantification & motion

Moderators: W. van der Zwaag, Lausanne/CH
B. Greenwood, Indian Wells/USA

201 10:50 **ZTE MR Imaging of Calcium Phosphate Cement at 11.7T**

 **W. Dou¹, S. Mastrogiacomo², A. Veltien¹, X.F. Walboomers², A. Heerschap¹**;

¹Department of Radiology, Radboud University Nijmegen Medical Centre, Nijmegen/NETHERLANDS, ²Department of Biomaterials, Radboud University Nijmegen Medical Centre, Nijmegen/NETHERLANDS

202 11:00 **Quantitative Susceptibility Mapping using Segmentation-Enabled Dipole Inversion**

J. Meineke, W. Fabian, J. Senegas, U. Katscher; *Tomographic Imaging Systems, Philips Research, Hamburg/GERMANY*

203 11:10 **Quantitative Susceptibility Mapping between 3T and 1.5T: Magnetic Field Difference and Reproducibility**

 **T. Hinoda**, Y. Fushimi, T. Okada, K. Fujimoto, A. Yamamoto, T. Okada, A. Kido, K. Togashi; *Department of Diagnostic Imaging and Nuclear Medicine, Kyoto University Graduate School of Medicine, Kyoto/JAPAN*

204 11:20 **Fully 3D motion corrected parallel imaging reconstruction of multishot multislice MR**

L. Cordero-Grande, E.J. Hughes, R.P.A.G. Teixeira, A.N. Price, A.D. Edwards, J.V. Hajnal; *Department of Biomedical Engineering, King's College London, London/UNITED KINGDOM*

205 11:30 **Motion-correction enabled ultra-high resolution imaging of the brain at 7T**

D. Gallichan¹, J.P. Marques², R. Gruetter¹; ¹Centre d'Imagerie Biomédicale, EPFL, Lausanne/SWITZERLAND, ²Radboud University, Donders Institute, Nijmegen/NETHERLANDS

206 11:40 **Ultrahigh resolution anatomical brain imaging at 9.4 T using prospective motion correction**

R. Pohmann¹, J. Bause², C. Mirkes¹, M. Eschelbach¹, E.-M. Engel³, K. Scheffler¹;
¹Magnetic Resonance Center, Max Planck Institute for Biological Cybernetics, Tübingen/GERMANY, ²High-Field Magnetic Resonance Center, Max Planck Institute for Biological Cybernetics, Tuebingen/GERMANY, ³Dental School, University Tübingen, Tübingen/GERMANY

207 11:50 **High resolution sodium micro-imaging as a tool to analyze cartilage repair tissue in an animal model**

J. Friske¹, M. Pachowsky², A. Berg³, S. Zbyn³, K. Gelse², G.H. Welsch⁴, S. Trattnig⁵; ¹Department of Biomedical Imaging and Image-guided Therapy, MR Center of Excellence, Vienna/AUSTRIA, ²Department of Orthopaedic Trauma Surgery, University Hospital Erlangen, Erlangen/GERMANY, ³Medical University of Vienna, Austria Center for Medical Physics and Biomedical Engineering, MR Center of Excellence, Vienna/AUSTRIA, ⁴UKE Athleticum, University Hospital Hamburg-Eppendorf, Hamburg/GERMANY, ⁵High Field MR Centre, Department of Biomedical Imaging and Image-Guided Therapy, Medical University of Vienna, Vienna/AUSTRIA

208 12:00 **Simultaneous dynamic PCr and Pi imaging of the calf muscle during exercise and recovery using ³¹P gradient-echo MRI at 7 T**



L. Valkovic¹, M. Meyerspeer², S. Goluch², M. Wolzt³, G.B. Fiedler², W. Bogner¹, E. Laistler², I. Frollo⁴, M. Krssak⁵, E. Moser², S. Trattnig¹, A.I. Schmid²; ¹High Field MR Centre, Department of Biomedical Imaging and Image-Guided Therapy, Medical University of Vienna, Vienna/AUSTRIA, ²Center for Medical Physics and Biomedical Engineering, Medical University of Vienna, Vienna/AUSTRIA, ³Department of Clinical Pharmacology, Medical University of Vienna, Vienna/AUSTRIA, ⁴Institute of Measurement Science, Slovak Academy of Sciences, Bratislava/SLOVAK REPUBLIC, ⁵Department of Internal Medicine III, Medical University of Vienna, Vienna/AUSTRIA

10:50–12:20 28 Scientific Session

Tinto

Safety aspects for MRI

Moderators: J. Felblinger, Vandoeuvre/FR
A. Galante, L'Aquila/IT

209 10:50 **SAR and Peak Power Constrained Excitation Optimisation for 3T Cardiac Imaging**



A. Beqiri¹, J. Hajnal², S.J. Malik¹; ¹Imaging Sciences and Biomedical Engineering, King's College London, London/UNITED KINGDOM, ²Imaging Sciences & Biomedical Engineering, Centre for the Developing Brain, King's College London, London/UNITED KINGDOM

210 11:00 **SAR Reduction for metallic Implants using volume PTx Array**



A. Beqiri¹, J.W. Hand¹, J. Hajnal², S.J. Malik¹; ¹Imaging Sciences and Biomedical Engineering, King's College London, London/UNITED KINGDOM, ²Imaging Sciences & Biomedical Engineering, Centre for the Developing Brain, King's College London, London/UNITED KINGDOM

211 11:10 **Automatic Image Plane Alignment for Percutaneous MR-Guided Interventions Using an Optical Moiré Phase Tracking System**

U. Kägebein¹, F. Godenschweger¹, A. Boese², O. Speck¹; ¹Department of Biomedical Magnetic Resonance, Otto-von-Guericke-University Magdeburg, Magdeburg, Germany, Magdeburg/GERMANY, ²Institute of Medical Engineering, Otto-von-Guericke University, Magdeburg/GERMANY

Scientific Programme

FRIDAY, OCTOBER 2, 2015

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- 212 11:20 Prototype of a Needle Sleeve with Resonant Swiss Roll Structures for Instrument Visualization during Minimally Invasive Interventions**



M. Kaiser¹, U. Kägelein², E. Pannicke³, G. Rose¹; ¹Department of Healthcare Telematics and Medical Engineering, Otto-von-Guericke University, Magdeburg/GERMANY, ²Department of Biomedical Magnetic Resonance, Otto-von-Guericke-University Magdeburg, Magdeburg, Germany, Magdeburg/GERMANY, ³Chair of Electromagnetic Compatibility, Otto-von-Guericke University, Magdeburg/GERMANY

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- 213 11:30 MR-guided thermometry for cardiac radiofrequency ablation monitoring**

S. Toupin¹, V. Ozenne¹, P. Bour¹, B.D. De Senneville², M. Boissenin³, M. Lepetit-Coiffe⁴, J. Benois-Pineau³, E. Dumont⁵, P. Desbarats³, P. Jais¹, B. Quesson¹; ¹Imaging, IHU Institute of cardiac electrophysiology and modeling, Bordeaux/FRANCE, ²Image, Mathematical Institute of Bordeaux, Bordeaux/FRANCE, ³Image, LaBRI, Bordeaux/FRANCE, ⁴Healthcare, Siemens France, Saint Denis/FRANCE, ⁵HIFU, Image Guided Therapy (IGT), Bordeaux/FRANCE

-
- 214 11:40 A robust PCA-based motion estimation approach for MR Thermometry radiofrequency ablation monitoring**

S. Toupin¹, V. Ozenne¹, P. Bour¹, B. Quesson¹, B.D. De Senneville²; ¹Imaging, IHU Institute of cardiac electrophysiology and modeling, Bordeaux/FRANCE, ²Image, Mathematical Institute of Bordeaux, Bordeaux/FRANCE

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- 215 11:50 Methodology to test surface medical devices in MRI**



T. Barbier¹, B. Giacomini¹, J. Felblinger², C. Pasquier³; ¹R&D, Axon' Cable, Montmirail/FRANCE, ²U947, INSERM, Nancy/FRANCE, ³Laboratoire IADI, Université de Lorraine, Nancy/FRANCE

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- 216 12:00 Monitoring Static Field Exposure of MRI personnel**



A. Galante¹, M. Bustreo², A. Del Bue², V. Murino²; ¹Life, Health & Environmental Sciences, L'Aquila University, L'Aquila/ITALY, ²Pattern Analysis and Computer Vision (PAVIS), Istituto Italiano di Tecnologia, Genova/ITALY

Clinical imaging

Moderators: D. Auer, Nottingham/UK
N.N.

- 217 10:50 Carotid B-mode ultrasonography can be used to select patients eligible for carotid plaque magnetic resonance imaging.**

F.H.B.M. Schreuder¹, L. De Rooij², J. Steinbuch³, A.A.J. De Rotte⁴, M.I. Liem⁵, M.T.B. Truijman¹, A.C. Van Dijk⁶, A. Van Der Lugt⁶, R.J. Van Oostenbrugge¹, A.P.G. Hoeks³, W.H. Mess⁷, **E.M. Kooi²**; ¹Neurology, Maastricht University Medical Center, Maastricht/NETHERLANDS, ²Radiology, Maastricht University Medical Center, Maastricht/NETHERLANDS, ³Biomedical Engineering, Maastricht University, Maastricht/NETHERLANDS, ⁴Radiology, University Medical Center Utrecht, Utrecht/NETHERLANDS, ⁵Neurology, Amsterdam Medical Center, Amsterdam/NETHERLANDS, ⁶Radiology, Erasmus Medical Center, Rotterdam/NETHERLANDS, ⁷Clinical Neurophysiology, Maastricht University Medical Center, Maastricht/NETHERLANDS

MEET THE AUTHOR in the Paper Poster Area, on Oct. 2, 11:50–12:20

- 218 10:52 WITHDRAWN**

- 219 10:52 Single-echo ZTE imaging of the joints**

G. Delso¹, M.M. Khalighi¹, F. Wiesinger², E. Ter Voert³, P. Veit-Haibach³; ¹Advanced Applications & Workflow, GE Healthcare, Waukesha/WI/United States of America, ²GE Global Research, GE, Munich/GERMANY, ³PET/CT-MR Center, University Hospital of Zurich, Zurich/SWITZERLAND

MEET THE AUTHOR in the Paper Poster Area, on Oct. 2, 11:50–12:20

- 220 10:54 Comparison of T1-weighted Imaging and Two Point Chemical Shift Decomposition for Volumetry of Visceral Adipose Tissue**

F. Fallah¹, J. Machann², P. Martirosian³, M. Bongers³, F. Schick³, B. Yang¹; ¹Institute of Signal Processing and System Theory, University of Stuttgart, Stuttgart/GERMANY, ²Section on Experimental Radiology, Department of Diagnostic and Interventional Radiology, University Hospital Tübingen, Germany., Institute for Diabetes Research and Metabolic Diseases (IDM) of the Helmholtz Centre Munich at the University of Tübingen (Paul Langerhans Institute Tübingen). German Centre for Diabetes Research (DZD)., Tübingen/GERMANY, ³Section on Experimental Radiology, University Hospital of Tübingen, Tübingen/GERMANY

MEET THE AUTHOR in the Paper Poster Area, on Oct. 2, 11:50–12:20

- 221 10:56 Dynamic ³¹P MR Spectroscopy in Patients with Peripheral Arterial Occlusive Disease**

P. Sedivy¹, M. Dezortova², M. Drobny², J. Rydlo², J. Peregrin², H. Cermakova³, K. Roztocil³, M. Hajek²; ¹Dept. Diagnostic and Interventional Radiology; First Faculty of Medicine, Institute for Clinical and Experimental Medicine; Charles University in Prague, Prague/CZECH REPUBLIC, ²Dept. Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, ³Transplant Surgery Dept, Transplantcentre;, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC

MEET THE AUTHOR in the Paper Poster Area, on Oct. 2, 11:50–12:20

Scientific Programme

FRIDAY, OCTOBER 2, 2015

- 222 10:58 Quantitative analysis of the left atrial late gadolinium enhancement in patients with atrial fibrillation and healthy volunteers

O. Aparina¹, O. Stukalova², D. Pakhomenko³, N. Mironova⁴, S. Golitsyn⁴,

S. Ternovoy²; ¹Clinical arrhythmology, RCRPC, Moscow/RUSSIAN FEDERATION,

²Tomography, RCRPC, Moscow/RUSSIAN FEDERATION, ³Cybernetics, MSU, Moscow/

RUSSIAN FEDERATION, ⁴Clinical electrophysiology, RCRPC, Moscow/RUSSIAN FEDERATION

MEET THE AUTHOR in the EPOS™ Area at PC#1, on Oct. 2, 11:50–12:20

- 223 11:00 Breath-hold MRI measurements of fat fraction, T1 and T2* of water and fat in bone marrow

C. Le Ster¹, J. Lasbleiz², G. Gambarota², H. Saint-Jalmes³; ¹Healthcare, Siemens,

Saint-Denis/FRANCE, ²LTSI UMR 1099, INSERM, Rennes/FRANCE, ³CRLCC, Centre Eugène

Marquis, Rennes/FRANCE

MEET THE AUTHOR in the EPOS™ Area at PC#2, on Oct. 2, 11:50–12:20

- 224 WITHDRAWN

- 225 11:02 Delineation of tumorous tissue in peritoneal metastases using diffusion-weighted imaging

X. Xu¹, C.S. Wong², N.-J. Gong², E.Y.P. Lee², E.S. Hui²; ¹Diagnostic Radiology, The University of Hong Kong, Hong Kong/HONG KONG, ²Department of Diagnostic Radiology, The University of Hong Kong, Hong Kong/HONG KONG

MEET THE AUTHOR in the EPOS™ Area at PC#4, on Oct. 2, 11:50–12:20

- 226 11:04 Assessment of Hepatic Fibrosis: Mechanistic Mixed Effect Modelling of qDCE-MRI Us-ing Gd-EOB-DTPA

M. Karlsson¹, M.F. Forsgren¹, N. Dahlström¹, B. Norén¹, Ö. Smedby¹, O. Dahlqvist Leinhard¹, S. Kechagias¹, P. Lundberg², G. Cedersund³; ¹Department of Medical and Health Sciences, Linköping University, Linköping/SWEDEN, ²Radiation Physics, Linköping University, Linköping/SWEDEN, ³Biomedical Engineering, Linköping University, Linköping/SWEDEN

MEET THE AUTHOR in the EPOS™ Area at PC#5, on Oct. 2, 11:50–12:20

- 227 11:06 MR tractography of lumbosacral plexus

I. Ibrahim¹, I. Humhej², A. Skoch¹, J. Tintera¹, F. Jiru¹, J. Rydlík¹, M. Dezortova¹; ¹Dept. Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, ²Department of Neurosurgery, Masaryk Hospital, Ústí Nad Labem/CZECH REPUBLIC

MEET THE AUTHOR in the EPOS™ Area at PC#6, on Oct. 2, 11:50–12:20

228 11:08 Time-saved and accurate diffusion tensor imaging of renal structures using multiband technique

S. Will¹, P. Martirosian², G. Steidle¹, B. Kardatzki³, F. Schick¹; ¹Section on Experimental Radiology, University Hospital Tübingen, Tübingen/GERMANY, ²Section on Experimental Radiology, University Hospital of Tübingen, Tübingen/GERMANY, ³Department of Biomedical Magnetic Resonance, University Hospital Tübingen, Tübingen/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#7, on Oct. 2, 11:50–12:20

229 11:10 Association between regional myocardial strain using cine MRI and late gadolinium enhancement in hypertrophic cardiomyopathy

M. Imai¹, K. Sakata², K. Yokoyama³, T. Nitatori³; ¹Department of Radiology, Kyorin university, Tokyo/JAPAN, ²Department of Cardiology, Kyorin University, Tokyo/JAPAN, ³Department of Radiology, Kyorin University, Tokyo/JAPAN

MEET THE AUTHOR in the EPOS™ Area at PC#8, on Oct. 2, 11:50–12:20

230 11:12 Quantitative determination of the degree fatty liver dystrophy by magnetic resonance imaging

O.A. Subbotina¹, M. Rezakova¹, A.V. Shevchenko¹, A.Y. Letyagin¹, M. Amelin²; ¹MRI, State Research Institute of Physiology and Fundamental Medicine, Novosibirsk/RUSSIAN FEDERATION, ²Laboratory of translation brain research, The Institute International Tomography Center of the Russian Academie of Science, Novosibirsk/RUSSIAN FEDERATION

MEET THE AUTHOR in the EPOS™ Area at PC#9, on Oct. 2, 11:50–12:20

231 11:14 Using GD-EOB-DTPA to Differentiate the Hepatocellular Carcinoma (HCC) with Paradoxical Uptake on Hepatobiliary Phase(HBP) from Focal Nodular Hyperplasia (FNH) or FNH-like Nodule

C.-H. Lee¹, C.M. Park²; ¹Radiology, Korea University Guro Hospital, Seoul/KOREA, ²Radiology, Korea University, Seoul/KOREA

MEET THE AUTHOR in the EPOS™ Area at PC#10, on Oct. 2, 11:50–12:20

232 11:16 Important biomarkers related to the MRI-estimated whole liver fat content in the healthy volunteers and type 1 diabetic patients

A. Galisova¹, D. Jirák¹, X. Deligianni², M. Drobny¹, P. Sedivy¹, V. Herynek¹, M. Hajek¹; ¹MR Unit, Department of Radiodiagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, ²Division of Radiological Physics, Department of Radiology, University of Basel Hospital, Basel/SWITZERLAND

MEET THE AUTHOR in the EPOS™ Area at PC#11, on Oct. 2, 11:50–12:20

233 11:18 Are apparent diffusion coefficient (ADC) measurements reproducible between different DICOM viewers? A retrospective study.

M. Fanariotis, K. Vassiou, I. Fezoulidis; Radiology, University of Thessaly, Larissa/GREECE

MEET THE AUTHOR in the EPOS™ Area at PC#12, on Oct. 2, 11:50–12:20

234 11:20 Validation of a Two-Component EPG-model to estimate the Muscle Water T₂ Values by ¹H-NMRS

H. Reyngoudt¹, P.-Y. Baudin², B. Marty¹, N. Azzabou¹, C. Theis¹, P.G. Carlier¹; ¹Laboratoire de RMN, Institut de Myologie, Paris/FRANCE, ²/, Consultants for Research in Imaging and Spectroscopy, Tournai/BELGIUM

MEET THE AUTHOR in the EPOS™ Area at PC#13, on Oct. 2, 11:50–12:20

Scientific Programme

FRIDAY, OCTOBER 2, 2015

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- 235 11:22 **Bone age determination from adolescence to young adulthood by investigating the sternoclavicular joint in MRI**

N. Martinez Vera¹, B. Neumayer¹, T. Widek¹, S. Grassegger², E. Scheurer³, M. Urschler⁴; ¹Clinical Forensic Imaging, Ludwig Boltzmann Institute, Graz/AUSTRIA, ²Institute of Forensic Medicine, Medical University of Graz, Graz/AUSTRIA, ³Institute of Forensic Medicine, Kanton Basel-Stadt, Basel/SWITZERLAND, ⁴Institute for Computer Graphics and Vision, Graz University of Technology, Graz/AUSTRIA

MEET THE AUTHOR in the EPOS™ Area at PC#14, on Oct. 2, 11:50–12:20

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- 236 **WITHDRAWN**

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- 237 11:24 **The diagnosis of prostate cancer local recurrence in patients after radical prostatectomy by multiparametric MRI.**

G.I. Hagverdiyeva¹, I. Gubskiy², O.N. Streltsova¹, E.V. Tarachkova², **V.O. Panov**², I. Tyurin², B.I. Dolgushin¹; ¹Radiological diagnosis, N.N.Blokhina Russian Cancer Research Center of The RAMS, Moscow/RUSSIAN FEDERATION, ²Radiological diagnostics, radiology treatment and medical physics, Russian Medical Academy of Postgraduate Education, Moscow/RUSSIAN FEDERATION

MEET THE AUTHOR in the EPOS™ Area at PC#16, on Oct. 2, 11:50–12:20

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- 238 11:26 **Prostate imaging with quantitative susceptibility mapping (QSM): calcifications**

S. Straub¹, M.C. Röthke², H.-P. Schlemmer², M.E. Ladd¹, B. Jobke², F.B. Laun¹; ¹Medical Physics in Radiology, German Cancer Research Center (DKFZ), Heidelberg/GERMANY, ²Radiology, German Cancer Research Center (DKFZ), Heidelberg/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#17, on Oct. 2, 11:50–12:20

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- 239 11:28 **Semi-automatic Lung Segmentation of DCE-MRI Data Sets of 2-year old Children after Congenital Diaphragmatic Hernia Repair**

M. Daab¹, M. Weidner², V. Sommer², K. Zahn³, T. Schaible⁴, G. Weisser², S.O. Schoenberg², L.R. Schad¹, K.W. Neff², **F.G. Zoellner**¹; ¹Computer Assisted Clinical Medicine, Heidelberg University, Mannheim/GERMANY, ²Inst of Clinical Radiology and Nuclear Medicine, Heidelberg University, Mannheim/GERMANY, ³Dep of Pediatric Surgery, Heidelberg University, Mannheim/GERMANY, ⁴Dep of Neonatology, Heidelberg University, Mannheim/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#18, on Oct. 2, 11:50–12:20

-
- 240 11:30 **The spectrum of ADC values in normal adolescent sacroiliac joints.**

K. Vendhan¹, **T. Bray**¹, D. Atkinson¹, S. Punwani¹, Y. Ioannou², D. Sen², C. Fisher², M.A. Hall-Craggs¹; ¹Radiology Dept, University College London, London/UNITED KINGDOM, ²Rheumatology, University College London, London/UNITED KINGDOM

MEET THE AUTHOR in the EPOS™ Area at PC#19, on Oct. 2, 11:50–12:20

241 11:32



Role of DTI in the assessment of the sciatic nerve and its pathologies.

A. Bernabeu¹, S. López-Celada¹, A. Alfaro², J.J. Mas³, J. Sanchez-Gonzalez⁴;

¹Magnetic Resonance, INSCANNER SL, Alicante/SPAIN, ²Neurology, Hospital Vega Baja de Orihuela, San Bartolomé/SPAIN, ³Orthopaedic surgery department, Hospital Vistahermosa, Alicante/SPAIN, ⁴Magnetic Resonance, Philips Healthcare Iberia, Madrid/SPAIN

MEET THE AUTHOR in the EPOS™ Area at PC#20, on Oct. 2, 11:50–12:20

242

WITHDRAWN

243 11:34

DCE-MRI Vascular Kinetics Obtained Prior to Treatment in Breast Cancer Patients Scheduled for Neoadjuvant Chemotherapy: Does Heterogeneity Have a Key Role in Treatment Response Prediction?

M.D. Pickles, P. Gibbs, M. Lowry, L.W. Turnbull; Centre for Magnetic Resonance

Investigations, Hull York Medical School at University of Hull, Hull/UNITED KINGDOM

MEET THE AUTHOR in the EPOS™ Area at PC#22, on Oct. 2, 11:50–12:20

244 11:36

Navigator-echo-based respiratory triggered breast MRI in supine position

N.N.Y. Janssen¹, L.C. Ter Beek², C.E. Loo², G. Winter-Warnars², C. Lange²,

M. Van Loveren², J. Nijkamp³; ¹Radiation Oncology, Antoni van Leeuwenhoek hospital

- Dutch Cancer Institute, Amsterdam/NETHERLANDS, ²Radiology, Antoni van Leeuwenhoek hospital - Dutch Cancer Institute, Amsterdam/NETHERLANDS, ³Surgical Oncology, Antoni van

Leeuwenhoek hospital - Dutch Cancer Institute, Amsterdam/NETHERLANDS

MEET THE AUTHOR in the EPOS™ Area at PC#23, on Oct. 2, 11:50–12:20

245

WITHDRAWN

246 11:38

Magnetic resonance imaging in the diagnosis of cervical cancer: is multiparametric MRI approach effective?

V.O. Panov¹, O.N. Streltsova², E.V. Tarachkova¹, G.I. Hagverdiyeva², I. Tyurin¹;

¹Radiological diagnostics, radiology treatment and medical physics, Russian Medical Academy of Postgraduate Education, Moscow/RUSSIAN FEDERATION, ²Radiological diagnosis, N.N.Blokhina Russian Cancer Research Center of The RAMS, Moscow/RUSSIAN FEDERATION

MEET THE AUTHOR in the EPOS™ Area at PC#25, on Oct. 2, 11:50–12:20

13:50–15:20

30 Teaching Session - Advanced

Pentland

Brain connectivity

Moderators: R. Meijboom, Rotterdam/NL

D. Jones, Cardiff/UK

247 13:50

Functional brain connectivity

M. Walter; Behavioral Neurology, Leibniz Institut for Neurobiology, Magdeburg/GERMANY

248 14:20

Structural brain connectivity

A. Leemans; Image Sciences Institute, UMC Utrecht, Utrecht/NETHERLANDS

249 14:50

The human connectome

D. Edwards; Dept of Perinatal Imaging and Health, King's College London, London/UNITED KINGDOM

Scientific Programme

FRIDAY, OCTOBER 2, 2015

13:50–15:20 31 Scientific Session

Sidlaw

Brain tumours: bench to bedside

Moderators: R. Gahrmann, Dordrecht/NL
P. van Zijl, Baltimore/USA

250 13:50 **Brain metastasis induction and longitudinal MRI follow-up in mice.**

J. Vandereycken, L. Goethals; Radiology, Universitair Ziekenhuis Brussel, Jette/BELGIUM

251 14:00 **In vivo 13C glutamate and glutamine turnover of tumors grown from glioblastoma stem-like cells in the mouse brain at 14.1 Tesla**

M. Lai¹, B. Lanz¹, J.F. Romero², C. Cudalbu², I. Vassallo³, M.-F. Hamou³, M. Hegi³, R. Gruetter¹; ¹Laboratory of Functional and Metabolic Imaging (LIFMET), Ecole Polytechnique Fédérale de Lausanne, Lausanne/SWITZERLAND, ²Center for Biomedical Imaging (CIBM), Ecole Polytechnique Fédérale de Lausanne, Lausanne/SWITZERLAND, ³Laboratory of Brain Tumor Biology and Genetics, Service of Neurosurgery and Neuroscience research Center, Lausanne University Hospital (CHUV), Lausanne/SWITZERLAND

252 14:10 **Analysis of Peritumoural Oedema: Quantitative MRI Show Contrast Agent Uptake That is Invisible Using Conventional MRI**

I. Blystad¹, P. Lundberg², E.-M. Larsson³, **A. Tisell²**; ¹Radiology, Linköping University, Linköping/SWEDEN, ²Radiation physics, Center for Medical Image Science and Visualization, Linköping University, Linköping/SWEDEN, ³Radiology, Clinical Sciences, Uppsala/SWEDEN

253 14:20 **In vivo metabolic profile of tumors grown from freshly injected human glioblastoma cells in the mouse brain**

M. Lai¹, C. Cudalbu², M.-F. Hamou³, M. Lepore², L. Xin¹, R.T. Daniel⁴, M. Hegi³, A.F. Hottinger⁴, R. Gruetter¹; ¹Laboratory of Functional and Metabolic Imaging (LIFMET), Ecole Polytechnique Fédérale de Lausanne, Lausanne/SWITZERLAND, ²Center for Biomedical Imaging (CIBM), Ecole Polytechnique Fédérale de Lausanne, Lausanne/SWITZERLAND, ³Laboratory of Brain Tumor Biology and Genetics, Service of Neurosurgery and Neuroscience research Center, Lausanne University Hospital (CHUV), Lausanne/SWITZERLAND, ⁴Department of clinical Neurosciences, Lausanne University Hospital (CHUV), Lausanne/SWITZERLAND



254 14:30



Tracking therapy response in pre-clinical glioblastoma using source-based nosologic images

S. Ortega-Martorell¹, T. Delgado-Goñi², I. Olier³, M. Cieza⁴, A.P. Candiota⁴, **M. Julià-Sapé⁴**, M. Pumarola⁵, P. Lisboa¹, C. Arus⁶; ¹School of Computing and Mathematical Sciences, Liverpool John Moores University, Liverpool/UNITED KINGDOM, ²Radiotherapy & Imaging Division, The Institute of Cancer Research, London/UNITED KINGDOM, ³Manchester Institute of Biotechnology, The University of Manchester, Manchester/UNITED KINGDOM, ⁴Bioquímica i Biología Molecular, UAB, CIBER-BBN, Cerdanyola Del Vallès/SPAIN, ⁵Facultat de Veterinaria, Universitat Autònoma de Barcelona, Cerdanyola Del Vallès/SPAIN, ⁶Biochemistry and Molecular Biology Department, Universitat Autònoma de Barcelona, Cerdanyola Del Vallès/SPAIN

255 14:40

Functional diffusion map of brain metastases as an MRI biomarker for an early and non-invasive evaluation of response to treatment

S. Ruiz España¹, A. Jiménez-Moya¹, E. Arana², D. Moratal¹; ¹Center for Biomaterials and Tissue Engineering, Universitat Politècnica de Valencia, Valencia/SPAIN, ²Radiology, Fundación Instituto Valenciano de Oncología, Valencia/SPAIN

256 14:50



The Effect of the Total Acquisition Time of DCE-MRI on the Derived Parameters.

S.M. Fallatah¹, E. Deveta¹, M. Smits², R. Jäger¹, X. Golay¹; ¹Brain repair and rehabilitation, UCL Institute of Neurology, London/UNITED KINGDOM, ²Radiology, Erasmus MC, Rotterdam/NETHERLANDS

257 15:00



Threshold values and means of rCBV, ADC, Cho/Cr and Cho/NAA as imaging biomarkers for glioma grading and metastasis diagnosis: a meta-analysis

A. Ulyte¹, J. Usinskiene², A. Bjørnerud³, J. Venius⁴, V.K. Katsaros⁵, R. Rynkeviciene⁶, S. Letautiene⁷, D. Norkus⁸, K. Suziedelis⁶, S. Rocka⁹, A. Usinskas¹⁰, E. Aleknavicius¹¹; ¹Faculty of Medicine, Vilnius University, Vilnius/LITHUANIA, ²Radiology, Nuclear Medicine and Outpatient Department, National Cancer Institute, Vilnius/LITHUANIA, ³The Intervention Center, Oslo University Hospital, Oslo/NORWAY, ⁴Laboratory of Biomedical Physics, National Cancer Institute, Vilnius/LITHUANIA, ⁵MRI Department, St.Savvas Anti-Cancer and Oncology Hospital, Athens/GREECE, ⁶Scientific Research Center, National Cancer Institute, Vilnius/LITHUANIA, ⁷Radiology, Nuclear Medicine and Consultation Center, National Cancer Institute, Vilnius/LITHUANIA, ⁸Department of High Energy Radiation Oncology, National Cancer Institute, Vilnius/LITHUANIA, ⁹Neuroangiosurgery Center, Vilnius University Hospital, Vilnius/LITHUANIA, ¹⁰Department of Electronic Systems, Vilnius Gedimino Technical University, Vilnius/LITHUANIA, ¹¹Radiation and Medical Oncology Center, National Cancer Institute, Vilnius/LITHUANIA

Scientific Programme

FRIDAY, OCTOBER 2, 2015

13:50–15:20 32 Scientific Session

FIntry

Image analysis: travelling across species

Moderators: N.N.
N.N.

258 13:50 **Laterality in the brain of Homo sapiens differs from that in Pan troglodytes**



X. Li¹, T. Crow², W. Hopkins³, Q. Gong⁴, N. Roberts¹; ¹CRIC, Edinburgh university, Edinburgh/UNITED KINGDOM, ²University Department of Psychiatry, Oxford University, Oxford/UNITED KINGDOM, ³Yerkes National Primate Research Centre, Yerkes National Primate Research Centre, Atlanta/AL/United States of America, ⁴Huaxi MR Research Center, West China Hospital of Sichuan University, Chengdu/CHINA

259 14:00 **Construction and Validation of a Mouse Brain 3D Multi-Atlas dedicated to the Segmentation of Ventricles and White-Matter Tracts**

Z. Bentatou, E. Pecchi, A.-T. Perles-Barbacaru, M. Bernard, S. Confort-Gouny, A. Le Trotter, A. Viola; CRMBM UMR CNRS 7339, Aix-Marseille Université/CNRS, Marseille/FRANCE

260 14:10 **Post-processing apparent diffusion coefficient (ADC) techniques, does diversity create deviation in values?**



M. Almulla¹, A. Mcgee², L. Rainford²; ¹Diagnostic Imaging, university college Dublin, Dublin/IRELAND, ²Diagnostic Imaging, University College Dublin, Dublin/IRELAND

261 14:20 **Voxel-based morphometry at 3T and 7T. A comparison of MPRAGE and MP2RAGE**

J. Schulte¹, A. Alghamdi¹, K. O'Brien², M. Barth¹, S. Bollmann¹; ¹Centre For Advanced Imaging, University of Queensland, St Lucia/QLD/AUSTRALIA, ²Siemens Ltd, Siemens Ltd, Bowen Hills/QLD/AUSTRALIA

262 14:30 **Validation of an Automated Lesion Segmentation Pipeline for Appropriate Brain Volume Quantification in Multiple Sclerosis Patients**



B. Dionisio¹, A. Witch², F. Pérez-Miralles², C. Alcalá², A. Alberich-Bayarri¹, I. Boscá², L. Martí-Bonmatí¹, B. Casanova²; ¹Biomedical Imaging Research Group (GIBI230), La Fe Polytechnics and University Hospital, Valencia/SPAIN, ²CNS Neuroimmunology Unit - Neurology Department, La Fe Polytechnics and University Hospital, Valencia/SPAIN

263 14:40 **2D versus 3D aortic distance measurements for MRI-based pulse wave velocity analysis**



A. Van Engelen¹, M. Silva Vieira², T. Hussain², J. Alastruey¹; ¹Division of Imaging Sciences - dept. of Biomedical Engineering, King's College London, London/UNITED KINGDOM, ²Division of Imaging Sciences - dept. of Cardiovascular imaging, King's College London, London/UNITED KINGDOM

264 14:50



Diffusion Quantification Models for Breast Tumors - ROC Curve Analysis

F. Borlinhas¹, L. Nogueira², S. Brandão³, R.G. Nunes¹, R. Conceição⁴, J. Loureiro³, I. Ramos³, H.A. Ferreira¹; ¹Institute of Biophysics and Biomedical Engineering, Sciences Faculty of Lisbon University, Lisbon/PORTUGAL, ²Radiology, Superior School of Health Technology of Porto, Porto/PORTUGAL, ³Radiology, Hospital Centre of São João, Porto/PORTUGAL, ⁴Institute of Biomedical Engineering, University of Oxford, Oxford/UNITED KINGDOM

265 15:00

Characterising Breast Tumours using MRI Functional Parameters.

E. Kousi¹, M.A. Schmidt¹, M. Borr¹, C. Richardson², G. Hopkinson², E.A.M. O'Flynn¹, R.M. Wilson², S. Allen², R.J.E. Pope², M.O. Leach¹; ¹MRI, CR-UK and EPSRC Imaging Centre, Royal Marsden NHS Foundation Trust and Institute of Cancer Research, Sutton, Surrey/UNITED KINGDOM, ²Radiology, Royal Marsden NHS Foundation Trust, Chelsea, London, United Kingdom, London/UNITED KINGDOM

13:50–15:20

33 Scientific Session

Tinto

Spectroscopy: of mice, men and bananas

Moderators: P. Barker, Baltimore/USA

A.K. Bouzier-Sore, Bordeaux/FR

266 13:50

MRI goes BANANAS

L.A. Kreis¹, M. Vermathen², P. Vermathen³, R. Kreis³; ¹Thun-Schadau, Senior High School Thun, Thun/SWITZERLAND, ²Dept. Chemistry and Biochemistry, University Bern, Bern/SWITZERLAND, ³Depts. of Radiology and Clinical Research, University Bern, Bern/SWITZERLAND

267 14:00



Glucose is the main carbon source for citrate in prostate cancer metastasis cell line LNCaP

F.H.A. Van Heijster¹, C.F.J. Jansen², J.A. Schalken², A. Heerschap¹; ¹Radiology and Nuclear Medicine, Radboud University Medical Centre, Nijmegen/NETHERLANDS, ²Urology, Radboud University Medical Centre, Nijmegen/NETHERLANDS

268 14:10



In vivo ¹³C NMR spectroscopy of the mouse hypothalamus

B. Lizarbe¹, A. Cherix¹, H. Lei², R. Gruetter³; ¹Centre d'Imagerie Biomédicale, Ecole Polytechnique Fédérale de Lausanne, Laboratory for Functional and Metabolic Imaging, Lausanne/SWITZERLAND, ²CIBM-AIT, École polytechnique fédérale de Lausanne, Lausanne/SWITZERLAND, ³Ecole Polytechnique Fédérale de Lausanne, Centre d'Imagerie Biomédicale, Lausanne/SWITZERLAND

269 14:20



In vivo quantitative ¹H MRS longitudinal study of normal aging in the Dark Agouti rat at 17.2 T up to 18 months of age.

A.L. Lopez Kolkovsky, M.-F. Hang, B. Djemai, S. Meriaux, E. Duchesnay, F. Boumezbeur; NeuroSpin, CEA Saclay, Gif-Sur-Yvette/FRANCE

270 14:30

Efficacy of simvastatin treatment in two rat models of sporadic form of Alzheimer's disease (AD) and vascular dementia studied by in vivo ¹H MRS

S. Kasparová, R. Tušková, M. Jozefovičová, L. Bačík; Faculty of food&chemical technology, Slovak University of Technology, Bratislava/SLOVAK REPUBLIC

Scientific Programme

FRIDAY, OCTOBER 2, 2015

- 271 14:40 Simultaneous observation and analysis of multiple ^{31}P magnetization exchange pathways using asymmetric adiabatic inversion**
B. Poumayou, T. Buehler, R. Kreis, C. Boesch; AMSM (DKF-DIPR), University Bern, Bern/SWITZERLAND
- 272 14:50 GABA concentration in the temporal lobe shapes audiovisual perception**
F. Schubert¹, J. Balz², J. Keil², Y. Roa-Romero², **R. Mekle¹**, S. Aydin¹, B. Ittermann¹, J. Gallinat³, D. Senkowski²; ¹Medical Metrology, Physikalisch-Technische Bundesanstalt, Berlin/GERMANY, ²Psychiatry and Psychotherapy, Charité Universitätsmedizin Berlin, Berlin/GERMANY, ³Psychiatry and Psychotherapy, University Hospital Hamburg-Eppendorf, Hamburg/GERMANY
- 273 15:00 ^1H single voxel spectroscopy at occipital lobe of human brain at 9.4 T**
I.A. Giapitzakis¹, S. Nassirpour¹, N.I. Avdievich¹, R. Kreis², A. Henning¹; ¹High-Field Magnetic Resonance, Max Planck Institute for Biological Cybernetics, Tübingen/GERMANY, ²Depts. of Radiology and Clinical Research, University Bern, Bern/SWITZERLAND
-
- 13:50–14:50 34 Lightning Talk MR engineering & physics** Kilsyth
Moderators: T. Stöcker, Bonn/DE
R. Mulkern, Boston/USA
- 274 13:50 A Remotely Adjustable Near-Field Dipole Antenna Transmitter for Optimized 7 T Spine Imaging**
H. Merkle, Q. Duan; LFMI, NINDS, NIH, Bethesda/United States of America
MEET THE AUTHOR in the EPOS™ Area at PC#1, on Oct. 2, 14:50–15:20
- 275 13:52 Dedicated endorectal coils for in vivo MR imaging of mice colon wall**
H. Dorez¹, R. Sablong¹, L. Canaple², H. Saint-Jalmes³, S. Gaillard¹, D. Moussata⁴, O. Beuf¹; ¹MRI/OPTIC, CREATIS, Lyon/FRANCE, ²Institut de Génomique Fonctionnelle, Ecole Normale Supérieure, Lyon/FRANCE, ³LTSI UMR 1099, INSERM, Rennes/FRANCE, ⁴Service hépato-gastroentérologie, Hôpital Régional Universitaire de Tours, Tours/FRANCE
MEET THE AUTHOR in the EPOS™ Area at PC#2, on Oct. 2, 14:50–15:20
- 276 13:54 Tattoo (decorative or cosmetic) in MRI : a numerical simulation of the interaction between the tattoo and the radio frequency magnetic field**
S. Aissani, A. Missoffe, C. Pasquier, J. Felblinger; IADI laboratory, University of Lorraine, Vandoeuvre-Lès-Nancy/FRANCE
MEET THE AUTHOR in the Paper Poster Area, on Oct. 2, 14:50–15:20

277	13:56	Bilateral breast coil for 7T MRI with radiative antennas E. Krikken ¹ , T.A. Van Der Velden ¹ , H. Hayawi ² , M. Italiaander ² , H.W.M. Van Laarhoven ³ , A. Raaijmakers ¹ , D.W. Klomp ¹ , J.P. Wijnen ¹ ; ¹ Radiology, UMC Utrecht, Utrecht/NETHERLANDS, ² MR Coils BV, MR Coils BV, Drunen/NETHERLANDS, ³ Oncology, AMC Amsterdam, Amsterdam/NETHERLANDS MEET THE AUTHOR in the EPOS™ Area at PC#3, on Oct. 2, 14:50–15:20
278	13:58	Distributed capacitors: Theory and Method E. Pannicke , R. Vick; Chair of Electromagnetic Compatibility, Otto-von-Guericke University, Magdeburg/GERMANY MEET THE AUTHOR in the EPOS™ Area at PC#4, on Oct. 2, 14:50–15:20
279	14:00	Numerical Simulation of SNR and SAR of Hole-Slotted Coil at 7 Tesla M.A. Lopez Terrones ¹ , S. Solis ² , R. Martin ² , A.O. Rodriguez ³ , P.M. Jakob ⁴ ; ¹ Biomedical Engineering, Health Services of Durango, Durango/MEXICO, ² Phys Dep, FC-UNAM, Df/MEXICO, ³ Department of Electrical Engineering, Universidad Autonoma Metropolitana Iztapalapa, Mexico Df/MEXICO, ⁴ Experimental Physics ⁵ , University Würzburg, Würzburg/GERMANY MEET THE AUTHOR in the EPOS™ Area at PC#5, on Oct. 2, 14:50–15:20
280	14:02	Interactive 5-bit Phaseshifter for RF transmission with ¹H Coil Arrays at 7 Tesla M. Pichler, R. Kriegl, S. Goluch, E. Moser, E. Laistler ; Center for Medical Physics and Biomedical Engineering, Medical University of Vienna, Vienna/AUSTRIA MEET THE AUTHOR in the EPOS™ Area at PC#6, on Oct. 2, 14:50–15:20
281	14:04	Parameterized architecture design of SENSE for real-time reconstruction M.F. Siddiqui ¹ , A.W. Reza ¹ , H. Omer ² , A. Shafique ² , H.N. Mughal ² , T.A. Khan ² , Y.R. Javed ² ; ¹ Electrical Engineering, University of Malaya, Kuala Lumpur/MALAYSIA, ² Electrical Engineering, COMSATS Institute of IT, Pakistan/PAKISTAN MEET THE AUTHOR in the EPOS™ Area at PC#7, on Oct. 2, 14:50–15:20
282	14:06	Design and implementation of a simple multinuclear preclinical MRI system C.-H. Choi , Y. Ha, P. Veeraiah, K. Moellenhoff, N.J. Shah; INM- ⁴ (Medical Imaging Physics), Forschungszentrum Juelich, Juelich/GERMANY MEET THE AUTHOR in the EPOS™ Area at PC#8, on Oct. 2, 14:50–15:20
283	14:08	Analytic Stability Check of Cartesian Feedback Amplifier with Time Delay Used in 7T Parallel Transmit MRI S. Shooshtary , K. Solbach; Duisburg_Essen University, Institute of Microwave and RF Technology, Duisburg/GERMANY MEET THE AUTHOR in the EPOS™ Area at PC#9, on Oct. 2, 14:50–15:20
284	14:10	Eight-Channel Loop Coil Array for 7T MR Brain Imaging J.D. Clément ¹ , O. Ipek ² , F. Eggenschwiler ¹ , G. Donati ¹ , Y. Pilloud ² , K. Pierzchala ² , R. Gruetter ³ ; ¹ LIFMET, EPFL, Lausanne/SWITZERLAND, ² CIBM-AIT, EPFL, Lausanne/SWITZERLAND, ³ CIBM, EPFL, Lausanne/SWITZERLAND MEET THE AUTHOR in the EPOS™ Area at PC#10, on Oct. 2, 14:50–15:20

Scientific Programme

FRIDAY, OCTOBER 2, 2015

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- 285 14:12 **T1-Mapping of the Murine Myocardium using a Cryogenically Cooled Surface Coil: Initial Results at 9.4T**

N.M. Meßner, P. Krämer, L.R. Schad, **F.G. Zoellner**; *Computer Assisted Clinical Medicine, Heidelberg University, Mannheim/GERMANY*

MEET THE AUTHOR in the EPOS™ Area at PC#11, on Oct. 2, 14:50–15:20

-
- 286 14:14 **SNR Enhancement by Resonant Metasurfaces: Experimental Verification in 1.5T Clinical MRI**

V. Fokin¹, S. Glybovski², A. Efimtcev¹, A. Shchelokova², A. Sokolov¹, I. Melchakova², A. Slobozhanyuk², G. Trufanov¹, A. Kozachenko², P. Belov²; ¹Radiology, Federal North-West Medical Research Centre, Saint Petersburg/RUSSIAN FEDERATION, ²The Metamaterials Laboratory, University ITMO, Saint Petersburg/RUSSIAN FEDERATION

MEET THE AUTHOR in the EPOS™ Area at PC#12, on Oct. 2, 14:50–15:20

-
- 287 14:16 **Accelerating SENSE Reconstruction using GPU**

H. Shahzad, W.H. Abbasi, **M.F. Sadaqat**, H. Omer, B. Hassan; *Electrical Engineering, COMSATS Institute of IT, Islamabad/PAKISTAN*

MEET THE AUTHOR in the EPOS™ Area at PC#13, on Oct. 2, 14:50–15:20

-
- 288 14:18 **Non-invasive MRI-guided High Intensity Focused Ultrasound cardiac ablation on perfused pig heart**

P. Bour¹, F. Marquet¹, F. Vaillant¹, E. Dumont², P. Ritter¹, B. Quesson¹; ¹Imaging, IHU Institut de Rythmologie et Modélisation Cardiaque, Fondation Bordeaux Université, Bordeaux/FRANCE, ²HIFU, Image Guided Therapy, Pessac/FRANCE

MEET THE AUTHOR in the Paper Poster Area, on Oct. 2, 14:50–15:20

-
- 289 14:20 **Numerical Model Validation of Electrically Small Implantable Device and Its Application on MRI Safety Assessment**

X.L. Chen¹, **B. Lindevig**¹, S. Sison², S. Min¹, R. Williamson¹, G. Mouchawar¹; ¹IESD, St. Jude Medical, Sylmar/CA/United States of America, ²IESD, St Jude Medical, Sunnyvale/CA/United States of America

MEET THE AUTHOR in the EPOS™ Area at PC#14, on Oct. 2, 14:50–15:20

-
- 290 14:22 **Evaluation of RF heating surrounding a heart valve implant at 64 MHz (1.5 T MRI system)**

M. Abbası¹, I. Zainul², N. Fuelle¹, G. Schaefers³, D. Erni⁴; ¹Simulation, MR:comp GmbH, Gelsenkirchen/GERMANY, ²Numerical Simulation, MR:comp GmbH, Gelsenkirchen/GERMANY, ³Research, MR:comp GmbH, Gelsenkirchen/GERMANY, ⁴General and Theoretical Electrical Engineering, Duisburg-Essen University, Duisburg/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#15, on Oct. 2, 14:50–15:20

291 14:24

Fast design of 2D spatially selective RF pulses for parallel transmit at ultra-high fields

M.S. Vinding¹, D. Brenner², D.H.Y. Tse³, T. Stöcker², N.C. Nielsen¹, D. Suter⁴,

I.I. Maximov⁵; ¹Interdisciplinary Nanoscience Center (iNano) and Department of Chemistry, Aarhus University, Aarhus/DENMARK, ²DZNE, German Center for Neurodegenerative Diseases, Bonn/GERMANY, ³Faculty of Psychology and Neuroscience, Maastricht University, Maastricht/NETHERLANDS, ⁴Experimental Physics III, TU Dortmund, Dortmund/GERMANY, ⁵Experimental Physics III, TU Dortmund University, Dortmund/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#16, on Oct. 2, 14:50–15:20

292 14:26

Impact of B1 variations on SPACE Imaging

G. Körzdörfer; Magnetic Resonance Imaging advance development, Siemens Healthcare, Erlangen/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#17, on Oct. 2, 14:50–15:20

293 14:28

Temperature-dependent characterisation of relaxation parameters (T1, T2) of potential perfusates in post-mortem MR angiography (PMMRA)

B. Webb¹, T. Widk², R. Stollberger³, T. Schwark¹; ¹Clinical Forensic Imaging, Ludwig Boltzmann Institute for Clinical Forensic Imaging, Graz/AUSTRIA, ²Clinical Forensic Imaging, Ludwig Boltzmann Institute, Graz/AUSTRIA, ³Institute of Medical Engineering, Graz University of Technology, Graz/AUSTRIA

MEET THE AUTHOR in the Paper Poster Area, on Oct. 2, 14:50–15:20

294 14:30

Intra-scanner reproducibility of quantitative susceptibility mapping (QSM)

X. Feng¹, A. Deistung¹, M. Cleve¹, A. Gussew¹, F. Schweser², J.R. Reichenbach¹; ¹Medical Physics Group, Institute of Diagnostic and Interventional Radiology, Jena University Hospital - Friedrich Schiller University Jena, Jena/GERMANY, ²Buffalo Neuroimaging Analysis Center, Dept. of Neurology, School of Medicine and Biomedical Sciences, State University of New York at Buffalo, Buffalo/NY/United States of America

MEET THE AUTHOR in the Paper Poster Area, on Oct. 2, 14:50–15:20

295 14:32



Certificate
of Merit

Atrophy of calf muscles by unloading results in an increase of sodium concentration: a 23Na MRI study

D.A. Gerlach¹, K. Schopen¹, P. Linz², J. Zange¹, J. Titze², J. Rittweger¹; ¹Institute of Aerospace Medicine, German Aerospace Center, Cologne/GERMANY, ²Medical Clinic ⁴, University Erlangen, Erlangen/GERMANY

MEET THE AUTHOR in the Paper Poster Area, on Oct. 2, 14:50–15:20

296 14:34

Estimation of retrospective human head motion correction from brain structural MRI: an evaluation of average edge strength

D. Zaca¹, L. Minati², J. Jovicich³; ¹Center for Mind/BRAIN SCIENCES, Università degli Studi di Trento, Mattarello/ITALY, ²Scientific Department, Fondazione IRCCS Istituto Neurologico Carlo Besta, Milan/ITALY, ³Department of Cognitive and Education Sciences, University of Trento, Mattarello/ITALY

MEET THE AUTHOR in the EPOS™ Area at PC#18, on Oct. 2, 14:50–15:20

297 14:36

Fast Imaging using Compressed Sensing from Arbitrary k-space Trajectories for Individual and Collective Coil Methods

J. Muhammad, A. Najam, D. Bashir, H. Omer, **M. Qureshi**, W.T. Abbasi; *Electrical Engineering, COMSATS Institute of IT, Pakistan/PAKISTAN*

MEET THE AUTHOR in the EPOS™ Area at PC#19, on Oct. 2, 14:50–15:20

Scientific Programme

FRIDAY, OCTOBER 2, 2015

-
- 298 14:38 Multipeak multiecho modeling for improved PRF-based thermometry**
G. Salim¹, D. Poot², W. Numan³, M. Vogel⁴, T. Drizdal³, M. Paulides³, S. Klein²;
¹Radiology, Erasmus MC, Rotterdam/NETHERLANDS, ²Biomedical Imaging Group of Rotterdam, Erasmus MC, Rotterdam/NETHERLANDS, ³Radiation oncology, Erasmus MC Cancer Intitute, Rotterdam/NETHERLANDS, ⁴Healthcare, GE, Rotterdam/NETHERLANDS
MEET THE AUTHOR in the EPOS™ Area at PC#20, on Oct. 2, 14:50–15:20
-
- 299 14:40 Muscle water T2 and fat fraction determination with accelerated multi spin echo NMR imaging and compressed sensing**
B. Coppa¹, B. Marty², P.-Y. Baudin³, N. Azzabou¹, P.G. Carlier¹; ¹NMR Laboratory, Institute of Myology, Paris/FRANCE, ²NMR Laboratory, Institut of Myology, Paris/FRANCE, ³Consultants for Research in Imaging and Spectroscopy, Tournai/BELGIUM
MEET THE AUTHOR in the EPOS™ Area at PC#21, on Oct. 2, 14:50–15:20
-
- 300 14:42 ³¹P MRI: Comparison of Image Reconstruction Approaches for Sub-Nyquist Acquisitions at Ultra High Field**
A. Coste¹, N. Chauffert², A. Vignaud¹, F. Boumezbeur¹, P. Ciuciu², P. Weiss³, S. Romanzetti⁴, D. Le Bihan¹, C. Lerman¹; ¹DSV/IBM/NeuroSpin/UNIRIS, CEA, Gif Sur Yvette/FRANCE, ²Parietal, INRIA, Gif Sur Yvette/FRANCE, ³Institut de Mathématiques de Toulouse, CNRS UMR 5129, Toulouse/FRANCE, ⁴University Klinik, RWTH Aachen, Aachen/GERMANY
MEET THE AUTHOR in the EPOS™ Area at PC#22, on Oct. 2, 14:50–15:20
-
- 301 14:44 Repeatability of variable flip angle 3D-UTE T1 measurements in mouse lung**
D. Alamidi¹, A. Smailagic², A. Bidar², P. Hockings³, N. Parker², K. Lagerstrand¹, M. Olsson², L.E. Olsson⁴; ¹Institute of Clinical Sciences, Sahlgrenska Academy, University of Gothenburg, Department of Radiation Physics, Gothenburg/SWEDEN, ²R&D, AstraZeneca, Mölndal/SWEDEN, ³Chalmers University of Technology, Medtech West, Gothenburg/SWEDEN, ⁴Lund University, Department of Medical Physics, Malmö/SWEDEN
MEET THE AUTHOR in the EPOS™ Area at PC#23, on Oct. 2, 14:50–15:20
-
- 302 14:46 Myelin determination in the human brain: The effect of water exchange on the quantification**
V. Athanasiou¹, G. Cedersund², P. Lundberg³, A. Tisell³; ¹Institute of Medical and Health Science, Linköping University, Linköping/SWEDEN, ²Biomedical Engineering, Linköping University, Linköping/SWEDEN, ³Radiation physics, Center for Medical Image Science and Visualization, Linköping University, Linköping/SWEDEN
MEET THE AUTHOR in the EPOS™ Area at PC#24, on Oct. 2, 14:50–15:20

303 14:48	T1 relaxometry and tissue segmentation of the human brain at 9.4T and 3T using MP2RAGE G.E. Hagberg ¹ , J. Bause ² , T. Eethofer ³ , T. Dresler ⁴ , C. Herbert ⁴ , R. Pohmann ¹ , G. Shajan ¹ , A. Fallgatter ⁴ , K. Scheffler ¹ ; ¹ High-Field MR Center, Max Planck Institute for Biological Cybernetics, Tübingen/GERMANY, ² Magnetic Resonance Center, Max Planck Institute for Biological Cybernetics, Tübingen/GERMANY, ³ Biomedizinische Magnetresonanz, University Hospital Tübingen, Tübingen/GERMANY, ⁴ General Psychiatry and Psychotherapy, University Hospital Tübingen, Tübingen/GERMANY
MEET THE AUTHOR in the EPOS™ Area at PC#25, on Oct. 2, 14:50–15:20	

15:40–17:10	35 Meet-the-Experts How to build a clinical protocol Moderators: O. Speck, Magdeburg/DE N.N.	Pentland
304	Expert: MR physics - the basis of a protocol J. Bittoun; CIERM - site du SHFJ, IR4M - UMR8081, Paris/FRANCE	
305	Expert: Cardiac protocols tbc	
306	Expert: Musculoskeletal protocols P. Kappert; EB44, Postbus 30001, Groningen/NETHERLANDS	
15:40–16:50 36 Scientific Session Cardiovascular imaging		Sidlaw
Moderators: N.N. N.N.		
307 15:40	Is it worth suppressing blood from trabeculae for the calculation of the non compacted mass in cardiac MRI? M. Finas ¹ , J. Frandon ² ; ¹ radiology, CHU Grenoble Michallon, Grenoble/FRANCE, ² Service de radiologie, CHU, Grenoble/FRANCE	
308 15:50	Comparison of Spin Echo versus Stimulated Echo Diffusion Tensor Imaging of the in vivo Human Heart C. Von Deuster ¹ , C.T. Stoeck ¹ , M. Genet ² , D. Atkinson ³ , S. Kozerke ² ; ¹ Imaging Sciences and Biomedical Engineering, King's College London, London/UNITED KINGDOM, ² Institute for Biomedical Engineering, University and ETH Zurich, Zurich/SWITZERLAND, ³ Radiology Dept, University College London, London/UNITED KINGDOM	
309 16:00	Automatic classification of abdominal aortic aneurysms to identify patients at risk of aneurysm expansion and rupture Y.G. Koutraki ¹ , O. McBride ² , J. Robson ² , R.O. Forsythe ² , C. Wang ³ , T.J. Macgillivray ³ , C.D. Gray ³ , K. Goatman ⁴ , J. Camilleri-Brennan ³ , J. Jegadeeson ³ , D.E. Newby ² , S.I. Semple ¹ ; ¹ Clinical Research Imaging Centre, Centre for Cardiovascular Science, University of Edinburgh, Edinburgh/UNITED KINGDOM, ² Centre for Cardiovascular Science, University of Edinburgh, Edinburgh/UNITED KINGDOM, ³ Clinical Research Imaging Centre, University of Edinburgh, Edinburgh/UNITED KINGDOM, ⁴ Medical Visualization System-Europe, Toshiba, Edinburgh/UNITED KINGDOM	

Scientific Programme

FRIDAY, OCTOBER 2, 2015

- 310 16:10 **Evaluation of 3D PC-MRI as a tool for the analysis of arterial flow and vessel wall parameters in the carotid**

P. Hall Barrientos¹, R. Woodward², M.R. Lopez Gonzalez³, A. Radjenovic², K. Forbes⁴, J. Foster¹, A. Watson¹; ¹Clinical Physics, NHS Greater Glasgow and Clyde, Glasgow/UNITED KINGDOM, ²MRI, BHF, Glasgow/UNITED KINGDOM, ³Clinical Physics and Bioengineering, NHS, Glasgow/UNITED KINGDOM, ⁴Institute of Neurological Sciences, NHS, Glasgow/UNITED KINGDOM

- 311 16:20 **A Comparision of two Methods for the Measurement of Aortic Pulse-Wave Velocity (PWV) in a Cohort of Subjects with Type 1 Diabetes Mellitus (T1DM)**

 **R.S. Nicholas¹, S. Gandy¹, G. Houston²; ¹Medical Physics, University of Dundee, Dundee/UNITED KINGDOM, ²Clinical Radiology, University of Dundee, Dundee/UNITED KINGDOM**

- 312 16:30 **Simultaneous contrast-enhanced magnetic resonance angiography and MRI of atherosclerotic plaques of carotid arteries using Mn-diaminocyclohexanetetraacetate (DCTA)**

 **W.Y. Ussov¹, E.E. Bobrikova¹, M.L. Belyanin², O.Y. Borodin³, A.S. Maksimova¹, M.P. Plotnikov¹; ¹Laboratory of Tomography, Institute of Cardiology, Tomsk/ RUSSIAN FEDERATION, ²Biotechnology and Organic Chemistry, National Research Tomsk Polytechnic University, Tomsk/RUSSIAN FEDERATION, ³Radiology, Tomsk Cancer Regional Center, Tomsk/RUSSIAN FEDERATION**

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- 15:40-17:10 37 Scientific Session

Fintry

fMRI: dead or alive

Moderators: M. Marxen, Dresden/DE
S. Tsafaris, Lucca/IT

-
- 313 15:40 **Line scanning for BOLD fMRI upon optogenetic stimulation**

F. Albers, F. Schmid, L. Wachsmuth, C. Faber; Department of Clinical Radiology, University of Münster, Münster/GERMANY

-
- 314 15:50 **Carbon-wire based movement artifact removal in EEG-fMRI**

J.N. Van Der Meer¹, A. Pampel², J.R. Ramautar³, G. Gomez-Herrero³, J. Lepsien², H. Möller², M. Walter¹; ¹Department of Behavioral Neurology, Leibniz Institute for Neurobiology, Magdeburg/GERMANY, ²Nuclear Magnetic Resonance Unit, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig/GERMANY, ³Department of Sleep and Cognition, Netherlands Institute for Neuroscience, Amsterdam/NETHERLANDS

- 315 16:00 Independent component analysis of postmortem fMRI resting state data**
U. Klose¹, P.M. Flach², E. Charyasz-Leks³, M. Erb³, M.J. Thali², A. Boss⁴,
¹Department of Diagnostic and Interventional Neuroradiology, University Hospital Tübingen, Tübingen/GERMANY, ²Department of Forensic Medicine and Imaging, University of Zurich, Zürich/SWITZERLAND, ³Department of Biomedical Magnetic Resonance, University Hospital Tübingen, Tübingen/GERMANY, ⁴Department of Diagnostic and Interventional Radiology, Universitätsspital Zürich, Zürich/SWITZERLAND
- 316 16:10 fast, focused fMRI at high spatial resolution: 3D-EPI-CAPI with cylindrical excitation**
W. Van Der Zwaag¹, M. Narsude², O. Reynaud³, D. Gallichan², J.P. Marques⁴,
¹Spinoza Centre for Neuroimaging, KNAW, Amsterdam/NETHERLANDS, ²Centre d'Imagerie Biomedical, EPFL, Lausanne/SWITZERLAND, ³Department of Radiology, Bernard and Irene Schwartz Center for Biomedical Imaging, NYU School of Medicine, New York/United States of America, ⁴Radboud University, Donders Institute, Nijmegen/NETHERLANDS
- 317 16:20 A data-driven approach for the identification of venous voxels in the amygdala region using resting-state fMRI**
K. Kalcher¹, R. Boubela¹, C. Nasel², E. Moser¹, ¹Center for Medical Physics and Biomedical Engineering, Medical University of Vienna, Wien/AUSTRIA, ²Dpt. of Radiology, Karl Landsteiner University of Health Sciences, Tulln/AUSTRIA
- 318 16:30 Depth-Dependence of Visual Signals in the Human Superior Colliculus at 9.4T**
J.A. Loureiro¹, G.E. Hagberg², T. Ethofer³, M. Erb⁴, K. Scheffler⁵, M. Himmelbach⁶; ¹High-Field MR, Max Planck Institute for Biological Cybernetics, Tuebingen/GERMANY, ²High-Field Magnetic Resonance, Max Planck Institute for Biological Cybernetics, Tuebingen/GERMANY, ³Biomedizinische Magnetresonanz, University Hospital Tübingen, Tübingen/GERMANY, ⁴Department of Biomagnetic Imaging, University Hospital Tübingen, Tübingen/GERMANY, ⁵Magnetic Resonance Center, Max Planck Institute for Biological Cybernetics, Tuebingen/GERMANY, ⁶Division of Neuropsychology, Hertie-Institute for Clinical Brain Research, Tuebingen/GERMANY
- 319 16:40 An investigation of Multi-Band imaging for rs-fMRI in the fetus**
G. Ferrazzi, A.N. Price, J. Hutter, E.J. Hughes, M.J. Fox, J. Allsop, M.A. Rutherford, J.V. Hajnal; Department of Biomedical Engineering / Centre for the Developing Brain, King's College London, London/UNITED KINGDOM
- 320 16:50 Comparison of inflow effects in FLASH- and bSSFP-based BOLD fMRI at 9.4T**
K. Scheffler¹, P. Ehres²; ¹High-Field MR Center, Max Planck Institute for Biological Cybernetics, Tuebingen/GERMANY, ²Biomedical Magnetic Resonance, University Hospital Tübingen, Tübingen/GERMANY

Scientific Programme

FRIDAY, OCTOBER 2, 2015

15:40–17:10 38 Scientific Session

Tinto

Advanced diffusion MRI

Moderators: N.N.
N.N.

- 321 15:40  **Fiber direction estimates on diffusion MRI multi-shell protocols – comparison of the performances of DTI, DKI and Richardson-Lucy SD based tractography**
R. Neto Henriques¹, L. Lacerda², F. Dell'Acqua², M. Correia¹; ¹Cognition and Brain Sciences Unit, MRC, Cambridge/UNITED KINGDOM, ²Netbrainlab, Centre for Neuroimaging Sciences, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London/UNITED KINGDOM
- 322 15:50  **Diffusion-Image-Based Motion Detection at High b-Value Using Intermediate, Pseudo-Trace-Weighted Images**
D.C. Hoinkiss, D.A. Porter; MR Physics, Fraunhofer MEVIS, Bremen/GERMANY
- 323 16:00 **Multicenter MRI diffusion tensor imaging: a DTI phantom study**
S. Deprez¹, P. Pullens², M. De Ruiter³, S. Bogaert⁴, J. Belderbos⁵, S. Schagen³, D. De Rysscher⁶, F. De Belder², R. Peeters¹, S. Sunaert⁷, E. Achten⁴; ¹Imaging and pathology, KU Leuven, Leuven/BELGIUM, ²Department of radiology, University Hospital Antwerp, Antwerp/BELGIUM, ³Division of Psychosocial Research and Epidemiology, The Netherlands Cancer Institute Antoni van Leeuwenhoek Hospital, Amsterdam/NETHERLANDS, ⁴Radiology and Nuclear Medicine, Ghent University, Ghent/BELGIUM, ⁵Department of Radiation Oncology, The Netherlands Cancer Institute Antoni van Leeuwenhoek Hospital, Amsterdam/NETHERLANDS, ⁶Department of Radiation Oncology, University Hospitals Leuven, Leuven/BELGIUM, ⁷Imaging & Pathology, KU Leuven, Leuven/BELGIUM
- 324 16:10  **Accelerating Intravoxel Incoherent Motion MRI using k-b PCA**
G. Spinner¹, J.F.M. Schmidt², S. Kozerke³; ¹IBT, ETH Zürich, Zürich/SWITZERLAND, ²Institute for Biomedical Engineering, ETH Zürich, Zürich/SWITZERLAND, ³Institute for Biomedical Engineering, University and ETH Zurich, Zürich/SWITZERLAND
- 325 16:20 **High-resolution Single-shot Spiral Imaging using Magnetic Field Monitoring: Demonstration in Diffusion MRI**
B. Wilm, C. Barmet, S. Gross, L. Kasper, J. Vannesjo, M. Haeberlin, B. Dietrich, D. Brunner, T. Schmid, K. Pruessmann; Institute for Biomedical Engineering, University of Zurich and ETH Zurich, Zurich/SWITZERLAND

326 16:30 Probing structural disorder and permeability of porous media with diffusion NMR

A. Papaioannou¹, D.S. Novikov², E. Fieremans², G.S. Boutis³, ¹Department of Physics, City University of New York, The Graduate Center, New York/NY/United States of America, ²School of Medicine, Center for Biomedical Imaging, New York University, New York NY/United States of America, ³Department of Physics, City University of New York, Brooklyn College, Brooklyn/NY/United States of America

327 16:40 Fiber tracking imaging of brain mouse: in vivo 3D Super Resolution Reconstruction

U. Gimenez, H. Lahrech; Cinatec, CEA, Grenoble/FRANCE

328 16:50 Diffusion MRI is a sensitive biomarker of radiation injury in the mouse brain

E.A. Pérelle¹, F. Boumezbeur¹, O. Etienne², A. Grigis¹, F.D. Boussin², D. Le Bihan¹; ¹UNIRIS, NeuroSpin, I²BM, Life Sciences Division, Commissariat à l'Energie Atomique, Gif-Sur-Yvette/FRANCE, ²Laboratoire de Radiopathologie, SCSR,iRCM, UMR 967, Life Sciences Division, Commissariat à l'Energie Atomique, Fontenay-Aux-Roses/FRANCE

15:40–16:40 39 Lightning Talk

Kilsyth

Brain diseases

Moderators: M Vernooy, Rotterdam/NL
E. Bron, Rotterdam/NL

329 15:40 Ethical framework for the management of incidental findings in imaging in research

E.M. Bunnik¹, L. Van Bodegom¹, W. Pinxten², A. Hofman³, A. Van Der Lugt⁴, I. De Beaufort¹, M. Vernooy⁴; ¹Medical Ethics, Erasmus MC, Rotterdam/NETHERLANDS, ²Medical Ethics, University of Hasselt, Hasselt/BELGIUM, ³Epidemiology, Erasmus MC, Rotterdam/NETHERLANDS, ⁴Radiology, Erasmus MC, Rotterdam/NETHERLANDS

MEET THE AUTHOR in the Paper Poster Area, on Oct. 2, 16:40–17:10

330 15:42 Effect of correcting for magnetic field inhomogeneities on the quantification of the white matter hyperintensity change over time

V. Gonzalez Castro, **M.D.C. Valdés Hernández**, D. Ghandour, X. Wang, F. Doubal, J. Wardlaw; Department of Clinical Neuroscience, Centre for Clinical Brain Sciences, University of Edinburgh, Edinburgh/UNITED KINGDOM

MEET THE AUTHOR in the Paper Poster Area, on Oct. 2, 16:40–17:10

331 15:44 Textural Characterisation Framework for Studies of Small Vessel Disease

L. Viksne¹, **M.D.C. Valdés Hernández²**, K. Hoban¹, A.K. Heye², V. Gonzalez-Castro², J. Wardlaw²; ¹College of medicine and Veterinary Medicine, University of Edinburgh, Edinburgh/UNITED KINGDOM, ²Department of Clinical Neuroscience, Centre for Clinical Brain Sciences, University of Edinburgh, Edinburgh/UNITED KINGDOM

MEET THE AUTHOR in the EPOS™ Area at PC#1, on Oct. 2, 16:40–17:10

Scientific Programme

FRIDAY, OCTOBER 2, 2015

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- 332 15:46 Characterization of lesions of the periventricular white matter using basic and functional MRI sequences in pediatric patients.**
A. Lopez¹, G. Gomez Garza², **O.R. Marrufo-Melendez¹**, J. Taboada¹,
A.O. Rodriguez³; ¹Neuroimaging, National Institute of Neurology and Neurosurgery, Mexico City/MEXICO, ²Magnetic Resonance, National Institute of Pediatrics, Mexico City/MEXICO,
³Department of Electrical Engineering, Universidad Autonoma Metropolitana Iztapalapa, Mexico Df/MEXICO
MEET THE AUTHOR in the EPOS™ Area at PC#2, on Oct. 2, 16:40–17:10
-
- 333 15:48 Characterization of Brain Structural Connectivity in Different Clinical Forms of Multiple Sclerosis Patients**
G. Kocevar, C. Stamile, S. Hannoun, F. Cotton, F. Durand-Dubief,
D. Sappey-Marinier; Université Lyon ¹, INSA-Lyon, CREATIS (CNRS UMR5220 & INSERM U1044), Villeurbanne/FRANCE
MEET THE AUTHOR in the EPOS™ Area at PC#3, on Oct. 2, 16:40–17:10
-
- 334 15:50 Classification of Multiple Sclerosis Clinical Forms Using DTI Fiber-Bundles Information**
C. Stamile, G. Kocevar, F. Durand-Dubief, F. Cotton, C. Frindel, S. Hannoun,
D. Sappey-Marinier; Université Lyon ¹, INSA-Lyon, CREATIS (CNRS UMR5220 & INSERM U1044), Villeurbanne/FRANCE
MEET THE AUTHOR in the EPOS™ Area at PC#4, on Oct. 2, 16:40–17:10
-
- 335 WITHDRAWN**
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- 336 15:52 Diffusion Tensor Tractography can help revising the Classical WM pathways of Occipital Lobe Epileptic Propagation**
F. Latini¹, **J. Mårtensson²**, E.-M. Larsson³, M. Ryttlefors¹; ¹Neuroscience, Neurosurgery, Uppsala University, Uppsala/SWEDEN, ²Surgical Sciences, Section of Radiology, Uppsala University, Uppsala/SWEDEN, ³Surgical Sciences, Radiology, Uppsala University, Uppsala/SWEDEN
MEET THE AUTHOR in the EPOS™ Area at PC#6, on Oct. 2, 16:40–17:10
-
- 337 15:54 Unravelling the Dynamics of Epilepsy Using Effective Connectivity and Hemodynamic Estimation: Two Case Studies**
F. Santos¹, R.G. Nunes², J. Rodrigues², A. Leal³, A. Andrade²; ¹Institute of Biophysics and Biomedical Engineering, University of Lisbon, Lisbon/PORTUGAL, ²Instituto de Biofísica e Engenharia Biomédica, Universidade de Lisboa, Lisbon/PORTUGAL, ³Department of Neurophysiology, Centro Hospitalar Psiquiátrico de Lisboa, Lisbon/PORTUGAL
MEET THE AUTHOR in the Paper Poster Area, on Oct. 2, 16:40–17:10

338 15:56 Age at onset effect on white matter diffusion coefficient of temporal lobe epilepsy patients.

S.A. Nagy¹, R. Horvath², F. John², J. Janszky², G. Perlaki³, G. Orsi³, P. Barsi⁴, P. Bogner⁵; ¹Department of neurosurgery, Diagnostic Centre of Pecs, MTA - PTE Neurobiology of Stress Research Group, University of Pecs, Pecs/HUNGARY, ²Department of Neurology, University of Pécs, Pecs/HUNGARY, ³MTA-PTE Clinical Neuroscience MR Research Group, University of Pécs, Pecs/HUNGARY, ⁴-, Semmelweis University MR Research Centre, Budapest/HUNGARY, ⁵Department of Neurosurgery, University of Pécs, Pecs/HUNGARY

MEET THE AUTHOR in the Paper Poster Area, on Oct. 2, 16:40–17:10

339 15:58 Brain morphometry and response to repetitive transcranial magnetic stimulation efficacy in neuropathic pain

A.J. Nelson¹, S.S. Keller¹, K. Maciver², T. Nurmiikko³; ¹Institute of Translational Medicine, University of Liverpool, Liverpool/UNITED KINGDOM, ²The Pain Research Institute, University of Liverpool, Liverpool/UNITED KINGDOM, ³Pain medicine, The Walton Centre NHS Foundation Trust, Liverpool/UNITED KINGDOM

MEET THE AUTHOR in the EPOS™ Area at PC#7, on Oct. 2, 16:40–17:10

340 16:00 MR-predictors for pain recurrence in patients with trigeminal neuralgia after microvascular decompression.

M. Amelin¹, A. Tulupov¹, Y. Stankevich¹, J. Rzaev²; ¹Laboratory of translational brain research., The Institute International Tomography Center of the Russian Academy of Sciences., Novosibirsk/RUSSIAN FEDERATION, ²Surgery, Federal center for neurosurgery, Novosibirsk/RUSSIAN FEDERATION

MEET THE AUTHOR in the EPOS™ Area at PC#8, on Oct. 2, 16:40–17:10

341 16:02 Magnetic resonance imaging characteristics of anatomical factors related to developing of trigeminal neuralgia caused by neurovascular conflict

M. Amelin¹, A. Tulupov¹, Y. Stankevich¹, J. Rzaev²; ¹Laboratory of translational brain research., The Institute International Tomography Center of the Russian Academy of Sciences., Novosibirsk/RUSSIAN FEDERATION, ²Surgery, Federal center for neurosurgery, Novosibirsk/RUSSIAN FEDERATION

MEET THE AUTHOR in the EPOS™ Area at PC#9, on Oct. 2, 16:40–17:10

342 16:04 Role of advanced MR Neuroimaging Techniques in the assessment of Cervical Spondylotic Myelopathy.

A. Bernabeu¹, J.V. Mollá², S. López-Celada¹, P. Moreno-López²; ¹Magnetic Resonance, INSCANNER SL, Alicante/SPAIN, ²Neurosurgery, Hospital General Universitario de Alicante, Alicante/SPAIN

MEET THE AUTHOR in the EPOS™ Area at PC#10, on Oct. 2, 16:40–17:10

343 16:06 Response to strabismic children images- interpersonal dynamics behind the scenes

J. Berberat¹, M. Montali¹, A. Pircher², H. Killer², L. Remonda¹; ¹Neuroradiology, Kantonsspital Aarau, Aarau/SWITZERLAND, ²Ophthalmology, Kantonsspital Aarau, Aarau/SWITZERLAND

MEET THE AUTHOR in the EPOS™ Area at PC#11, on Oct. 2, 16:40–17:10

Scientific Programme

FRIDAY, OCTOBER 2, 2015

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- 344 16:08 **Morse Code learning is associated with structural changes in the left inferior longitudinal fasciculus**

L. Schlaffke¹, N. Rüther², S. Heba¹, C. Bellebaum³, M. Tegenthoff¹, T. Schmidt-Wilcke¹; ¹Neurology, University Hospital Bergmannsheil, Bochum/GERMANY, ²Neuropsychology, Ruhr-Uni Bochum, Bochum/GERMANY, ³Psychology, Heinrich Heine University Düsseldorf, Düsseldorf/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#12, on Oct. 2, 16:40–17:10

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- 345 16:10 **Evaluation of Gray Matter Atrophy in Mild Cognitive Impairment: a voxel-based morphometric analysis**

K. Kemik¹, B. Cavusoglu¹, E. Ada², D.D. Emek Savas³, G.G. Yener⁴; ¹Neuroscience, Dokuz Eylül University, Izmir/TURKEY, ²Radiology, Dokuz Eylül University, Izmir/TURKEY, ³Psychology, Dokuz Eylül University, Izmir/TURKEY, ⁴Neurology, Dokuz Eylül University, Izmir/TURKEY

MEET THE AUTHOR in the EPOS™ Area at PC#13, on Oct. 2, 16:40–17:10

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- 346 **WITHDRAWN**

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- 347 16:12 **Regional coherence between white and grey matter abnormalities in early Alzheimer's disease (AD) and behavioural variant frontotemporal dementia (bvFTD)**

R. Meijboom¹, R.M.E. Steketee¹, M. De Groot², E.E. Bron³, F.J. De Jong⁴, A. Van Der Lught⁵, J.C. Van Swieten⁴, M. Smits¹; ¹Radiology, Erasmus MC, Rotterdam/NETHERLANDS, ²Biomedical Imaging Group Rotterdam, depts of Radiology and Medical Informatics and Department of Epidemiology, Erasmus MC, Rotterdam/NETHERLANDS, ³Biomedical Imaging Group Rotterdam, depts of Radiology and Medical Informatics, Erasmus MC, Rotterdam/NETHERLANDS, ⁴Neurology, Erasmus MC, Rotterdam/NETHERLANDS, ⁵Radiology, Erasmus Medical Center, Rotterdam/NETHERLANDS

MEET THE AUTHOR in the EPOS™ Area at PC#14, on Oct. 2, 16:40–17:10

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- 348 16:14 **Investigating alterations in gray and white matter related to freezing of gait in parkinson's disease**

A.C. Has¹, H. Onder², İ. Gilani¹, B. Elibol², K. Karli Oguz³; ¹National Magnetic Resonance Research Center, UMRAM, Bilkent University, Ankara/TURKEY, ²Department of Neurology, Hacettepe University, Ankara/TURKEY, ³Department of Radiology, Hacettepe University, Ankara/TURKEY

MEET THE AUTHOR in the EPOS™ Area at PC#15, on Oct. 2, 16:40–17:10

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- 349 16:16 **DSC-MRI Perfusion Measurements in Brain Tumours: Internal Reference Region Can be a Source of Variability.**

S.M. Fallatah¹, E. Deveta¹, M. Smits², X. Golay¹, R. Jäger¹; ¹Brain repair and rehabilitation, UCL Institute of Neurology, London/UNITED KINGDOM, ²Radiology, Erasmus MC, Rotterdam/NETHERLANDS

MEET THE AUTHOR in the EPOS™ Area at PC#16, on Oct. 2, 16:40–17:10

350 16:18 Differentiating Glioblastomas from brain Metastases by means of Convex non-negative Matrix Factorization

V. Mocioiu¹, N.M. Pedrosa De Barros², S. Ortega-Martorell³, U. Knecht², J. Slotboom², C. Arus⁴, M. Julià-Sapé⁵, ¹Unit of the Biochemistry and Molecular Biology Department - Grup d'Aplicacions Biomèdiques de la Ressonància Magnètica Nuclear, Universitat Autònoma de Barcelona, Cerdanyola De Valles/SPAIN, ²Neuroradiology/SCAN, University Hospital and Inselspital, Bern/SWITZERLAND, ³School of Computing and Mathematical Sciences, Liverpool John Moores University, Liverpool/UNITED KINGDOM, ⁴Unit of the Biochemistry and Molecular Biology Department, Universitat Autònoma de Barcelona, Cerdanyola De Valles/SPAIN, ⁵Bioquímica i Biologia Molecular, UAB, CIBER-BBN, Cerdanyola Del Vallès/SPAIN

MEET THE AUTHOR in the EPOS™ Area at PC#17, on Oct. 2, 16:40–17:10

351 16:20 Grading of Pediatric Brain Tumors by Diffusion MR Imaging : Is it Helpful ?
A. Baiomy, A. Youssef; Radiology, National cancer institute, Cairo/EGYPT

MEET THE AUTHOR in the EPOS™ Area at PC#18, on Oct. 2, 16:40–17:10

352 16:22 The Prognostic Value of Preoperative MR in Glioblastoma Patients
L. Kenning¹, M. Lowry¹, S. Achawal², C. Rajaraman², C. Rowland Hill³, L.W. Turnbull¹; ¹Centre for MR Investigations, Hull York Medical School at University of Hull, Hull/UNITED KINGDOM, ²Neurosurgery, Hull and East Yorkshire Hospitals NHS Trust, Hull/UNITED KINGDOM, ³Radiology, Hull and East Yorkshire Hospitals NHS Trust, Hull/UNITED KINGDOM

MEET THE AUTHOR in the EPOS™ Area at PC#19, on Oct. 2, 16:40–17:10

353 16:24 Radiation effects vs. malignancy after stereotactic radiosurgery for brain metastases: impact of late MR imaging studies.
S. Wagner¹, H. Gufler², G. Eichner³; ¹Neuroradiology, Friedrich-Schiller-University, Jena/GERMANY, ²Radiology, Martin-Luther-University Halle-Wittenberg, Halle/GERMANY, ³Mathematical Institute, Justus-Liebig-University Giessen, Giessen/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#20, on Oct. 2, 16:40–17:10

354 16:26 MRS water proton resonant frequency in childhood brain tumours: a potential biomarker of temperature and tumour environment
B. Babourina-Brooks¹, A.C. Peet², M. Wilson², T.N. Arvanitis³, N. Davies⁴; ¹School of cancer Sciences, University of Birmingham, Birmingham/UNITED KINGDOM, ²School of Cancer Sciences, University of Birmingham, Birmingham/UNITED KINGDOM, ³Biomedical Informatics, University of Warwick, Warwick/UNITED KINGDOM, ⁴Radiation Protection Services, University Hospitals Birmingham NHS Foundation Trust, Birmingham/UNITED KINGDOM

MEET THE AUTHOR in the EPOS™ Area at PC#21, on Oct. 2, 16:40–17:10

355 16:28 Correlation between proton MR spectroscopy and amide proton transfer imaging for brain tumors
Y. Fushimi¹, A. Sakata¹, T. Okada¹, K. Takakura¹, A. Kido¹, N. Sakashita², K. Togashi¹; ¹Department of Diagnostic Imaging and Nuclear Medicine, Kyoto University Graduate School of Medicine, Kyoto/JAPAN, ²MRI, Toshiba Medical Systems Corporation, Otawara/JAPAN

MEET THE AUTHOR in the EPOS™ Area at PC#22, on Oct. 2, 16:40–17:10

Scientific Programme

FRIDAY, OCTOBER 2, 2015

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- 356 16:30 Mesoscopic Imaging of Glioblastomas: Are Diffusion, Perfusion and Spectroscopic Measures Influenced by the Radio-Genetic Phenotype?**

I. Mader¹, T. Demerath¹, E. Kellner², D.H. Heiland³, V.G. Kiselev², R. Schwarzwald¹, H. Mast¹, H. Urbach¹, A. Weyerbrock³, ¹Dept. of Neuroradiology, Medical Center University of Freiburg, Freiburg/GERMANY, ²Dept. of Med. Physics, Dept. of Radiology, Medical Center University of Freiburg, Freiburg/GERMANY, ³Dept. of Neurosurgery, Medical Center University of Freiburg, Freiburg/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#23, on Oct. 2, 16:40–17:10

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- 357 16:32 Can quantitative T1-mapping identify tumor infiltration of high grade gliomas?**

U. Nöth¹, R. Deichmann¹, O. Bähr², J. Tichy², E. Hattingen³, ¹Brain Imaging Center (BIC), Goethe University, Frankfurt Am Main/GERMANY, ²Dr Senckenberg Institute of Neurooncology, Goethe University, Frankfurt Am Main/GERMANY, ³Department of Neuroradiology, Goethe University, Frankfurt Am Main/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#24, on Oct. 2, 16:40–17:10

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- 358 WITHDRAWN**

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- 17:20–18:20 40 Hot Topic Debate**

Sidlaw

MR in acute stroke - a waste of time?

Moderator: R. Jäger, London/UK

-
- 360 Proponent of MRI in stroke**

C. Oppenheim; Rene Descartes, Universite, Paris/FRANCE

-
- 361 Opponent of MRI in stroke**

M. Söderman; Karolinska Institutet, University, Stockholm/SWEDEN

Scientific Programme

SATURDAY, OCTOBER 3, 2015

8:00–9:00	41 Teaching Session - Advanced Perfusion image processing Moderators: D. Gallichan, Lausanne/CH I. Mader, Freiburg/DE	Sidlaw
362 08:00	Post processing of contrast agent based perfusion methods A. Morell; <i>Imaging & Therapy, Siemens Healthcare, Upplands Väsby/SWEDEN</i>	
363 08:30	Post processing of non-invasive perfusion methods M.J.P. Van Osch; <i>Radiology/CJ Gorter Center for high field MRI, LUMC, Leiden/NETHERLANDS</i>	
8:00–9:00	42 MRI in neurodegeneration and ageing—new approaches (in collaboration with ISMRM British Chapter) Moderators: P. Gowland, Nottingham/UK I. Marshall, Edinburgh/UK	Finty
364 08:00	Glymphatic Clearance Impaired in a Mouse Model of Tauopathy: Captured Using Contrast-Enhanced MRI I. Harrison; <i>Metabolism & Experi Therapeutics, UCL Centre for Advanced Biomedical Imaging, London/UNITED KINGDOM</i>	
365 08:20	Applying quantitative MR methods to study dementia A. Blamire; <i>Ageing and Vitality, Newcastle University, Newcastle Upon Tyne/UNITED KINGDOM</i>	
366 08:40	Multiparametric MR Mapping in Neurodegenerative Disease and the Impact of Intervention D. Jones; <i>Cardiff University, Cardiff/UNITED KINGDOM</i>	
9:10–10:40	43 Plenary Session MRI: The virtual laboratory Moderators: F. Zoellner, Mannheim/DE M. Qureshi, Islamabad/PK	Pentland
367 09:10	Virtual autopsy in children - Is it time for wide scale clinical use? A. Taylor; <i>UCL Institute of Child Health & Great Ormond Street Hospital for Children, London/UNITED KINGDOM</i>	
368 09:40	The virtual physiological human D. Lacroix; <i>Insigneo Institute for <i>in silico</i> Medicine, University of Sheffield, Sheffield/UNITED KINGDOM</i>	

Scientific Programme

SATURDAY, OCTOBER 3, 2015

369 10:10 **Computational Anatomy for Image Guided Interventions**

D. Hawkes; UCL, London/UNITED KINGDOM

10:50-12:20 44 Teaching Session - Basic

Postmortem MRI

Pentland

Moderators: H. Wittig, Basel/CH
N.N.

370 10:50 **Postmortem MRI of the brain**

C. Langkammer; MGH/HST Martins Center for Biomedical Imaging, Harvard Medical School, Boston/United States of America

371 11:20 **Postmortem cardiac MR - the forensic's perspective**

C. Jackowski; Department of Forensic Medicine and Imaging, Institute of Forensic Medicine, University of Bern, Bern/SWITZERLAND

372 11:50 **Postmortem MR imaging of the fetus, infant and child**

A. Taylor; UCL Institute of Health & Great Ormond Street Hospital for Children, London/UNITED KINGDOM

10:50-12:20 45 Scientific Session

Sidlaw

Functional imaging of liver and renal disease

Moderators: F. Zoellner, Mannheim/DE
N.N.

373 10:50 **Tracer-kinetic model driven registration for DCE-MRI using free-form deformation.**

D. Flouri¹, S. Sourbron², D. Lesnic³; ¹Division of Biomedical Imaging and Department of Applied Mathematics, University of Leeds, Leeds/UNITED KINGDOM, ²Division of Biomedical Imaging, University of Leeds, Leeds/UNITED KINGDOM, ³Department of Applied Mathematics, University of Leeds, Leeds/UNITED KINGDOM

374 11:00 **Assessment of a semi-automated arterial input function voxel selection method for renal DCE-MRI glomerular filtration rate estimation.**

A. Banerji¹, A. Odudu², D. Vassallo³, C. Chrysocou³, P.A. Kalra³, D.L. Buckley¹, S. Sourbron¹; ¹Division of Biomedical Imaging, LICAMM, University of Leeds, Leeds/UNITED KINGDOM, ²Institute of Cardiovascular Sciences, University of Manchester, Manchester/UNITED KINGDOM, ³Department of Renal Medicine, Royal National Health Service Foundation Trust, Salford/UNITED KINGDOM

- 375 11:10 Towards a multi-centre validation of single-kidney glomerular filtration rate (SK-GFR) measurement with dynamic contrast enhanced (DCE) MRI: A feasibility study**
- R. Shuttleworth¹, E. Eikefjord², E. Hodneland³, J. Rørvik², B. Taton⁴, N. Grenier⁵, C. Chrysochou⁶, P.A. Kalra⁶, D.L. Buckley⁷, S. Sourbron¹, A. Banerji¹; ¹Division of Biomedical Imaging, LICAMM, University of Leeds, Leeds/UNITED KINGDOM, ²Department of Radiology, Haukeland University Hospital, Bergen/NORWAY, ³Department of Clinical Medicine, University of Bergen., Bergen/NORWAY, ⁴University of Bordeaux, University of Bordeaux, Bordeaux/FRANCE, ⁵Diagnostic and Interventional Imaging Service, Pellegrin Hospital, Bordeaux/FRANCE, ⁶Department of Renal Medicine, Royal National Health Service Foundation Trust, Salford/UNITED KINGDOM, ⁷Department of Biomedical Imaging, University of Leeds, Leeds/UNITED KINGDOM
- 376 11:20 Diffusion-weighted magnetic resonance imaging of kidneys in patients with chronic kidney disease**
- K. Sulkowska¹, P. Palczewski¹, A. Furmanczyk-Zawiska², W. Szyszkowski³, D. Piotrowska-Kownacka¹, M. Durlak², M. Golebiowski¹; ¹Department of Clinical Radiology, Medical University of Warsaw, Warsaw/POLAND, ²Department of Transplantation Medicine and Nephrology, Transplantation Institute, Medical University of Warsaw, Warsaw/POLAND, ³II Department of Radiology, Medical University of Warsaw, Warsaw/POLAND
- 377 11:30 Repeatability of liver apparent diffusion coefficients with individually-optimized cardiac triggering without and with signal correction**
- T. Metens¹, J. Absil¹, V. Denolin², M.A. Bali¹, C. Matos¹; ¹Radiology -IRM, ULB Hopital Erasme, Bruxelles/BELGIUM, ²MRI, Philips Healthcare, Bruxelles/BELGIUM
- 378 11:40 Hepatic MRE at Dual Field Strengths and Multiple Frequencies**
- M.F. Forsgren¹, N. Kinnunen², P. Garteiser³, P. Lundberg¹; ¹Department of Medical and Health Sciences, Linköping University, Linköping/SWEDEN, ²Department of Radiation Physics and Department of Medical and Health Sciences, Linköping University, Linköping/SWEDEN, ³Center for Research and Inflammation, INSERM U1149, Paris/FRANCE
- 379 11:50 Liver metabolism in patients with various non-liver diseases studied by 1H and 31P MR spectroscopy**
- D. Wagnerova¹, **M. Drobny**¹, P. Sedivy¹, W. Bogner², Z. Vlasakova³, M. Zahradnicka³, L. Belinova³, M. Cahova⁴, F. Saudek³, M. Dezortova¹, M. Hajek⁵; ¹Dept. Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, ²Department of Biomedical Imaging and Image-guided Therapy, Medical University of Vienna, Vienna/AUSTRIA, ³Center of Diabetology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, ⁴Center for Experimental Medicine, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, ⁵Radiodiagnostic and Interventional Radiology Department, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC
- 380 12:00 Noninvasive quantitative assessment of liver and myocardium iron overload with T2* magnetic resonance imaging**
- O. Kucheruk¹, **E. Mershina**¹, V. Sinitsyn¹, O. Larina¹, K. Lukina², A. Dezenkova²; ¹Radiology Dept., Federal Center of Medicine and Rehabilitation, Moscow/RUSSIAN FEDERATION, ²Hematology department, National Research Center for Hematology, Moscow/RUSSIAN FEDERATION

Scientific Programme

SATURDAY, OCTOBER 3, 2015

10:50–12:20 46 Scientific Session

Finity

Brain ageing and degeneration

Moderators: E. Bron, Rotterdam/NL
P. Barker, Baltimore/USA

381 10:50 **Regional differences in the rate-of-change within tracts across life revealed by diffusion tensor tractography.**



J. Mårtensson¹, J. Lätt², F. Åhs³, M. Fredriksson⁴, H. Söderlund³, H. Shiöth⁵, J. Kok⁶, B. Kremer⁶, D.V. Westen⁷, E.-M. Larsson⁸, M. Nilsson⁹; ¹Radiology, Clinical Sciences, Uppsala/SWEDEN, ²medical imaging and physiology, surgical sciences, Lund/SWEDEN, ³psychology, psychology, Uppsala/SWEDEN, ⁴Psychology, Psychology, Uppsala/SWEDEN, ⁵Neuroscience, Neuroscience, Uppsala/SWEDEN, ⁶Neurology, Neurology, Groningen/NETHERLANDS, ⁷Radiology, Radiology, Lund/SWEDEN, ⁸Surgical Sciences, Radiology, Uppsala University, Uppsala/SWEDEN, ⁹Lund university Bioimaging Center, Lund university Bioimaging Center, Lund/SWEDEN

382 11:00 **Myelin water imaging and diffusion tensor imaging characteristics of age-related white matter changes**



T. Billiet¹, L. Van Assche², M. Vandenbulcke², S. Sunaert¹, L. Emsell²; ¹Imaging & Pathology, KU Leuven, Leuven/BELGIUM, ²Old Age Psychiatry, UPC KU Leuven, Leuven/BELGIUM

383 11:10 **Can Amide Proton Transfer MRI offer additional information about Huntington's Disease?**



M. Rega¹, J.E.M. Fairney², F. Torrealdea¹, B.R. Leavitt³, R.I. Scallan⁴, R.A.C. Roos⁵, B. Landwehrmeyer⁶, B. Borowsky⁷, S.J. Tabrizi⁴, X. Golay¹; ¹Brain repair and rehabilitation, Institute of Neurology, UCL, London/UNITED KINGDOM, ²Medical Physics & Biomedical Engineering, UCL, London/UNITED KINGDOM, ³Department of Medical Genetics, UBC, Vancouver/AB/CANADA, ⁴Neurodegenerative Diseases, Institute of Neurology, UCL, London/UNITED KINGDOM, ⁵Department of Neurology, LUMC, Leiden/NETHERLANDS, ⁶Department of Neurology, ULM, Eselsberg/GERMANY, ⁷Translational Medicine, CHDI Foundation, New York/AL/United States of America

384 11:20 **Diffusion tensor imaging of the substantia nigra in early stage Parkinson's disease: reproducibility of diffusion metrics and one-year follow-up**

A.L. Morgado¹, S. Reimão², D. Abreu³, J. Campos², J.J. Ferreira³, R.G. Nunes¹; ¹Institute of Biophysics and Biomedical Engineering, University of Lisbon, Lisbon/PORTUGAL, ²Neurological Imaging Department, Santa Maria Hospital - North Lisbon Hospital Center, Portugal, Lisbon/PORTUGAL, ³Clinical Pharmacology Unit, Institute of Molecular Medicine, Faculty of Medicine, Lisbon/PORTUGAL

385 11:30 Intra-observer Reproducibility of T2* Measurements in Parkinson's Disease and Essential Tremor

J.N. Gonçalves¹, S. Reimão², D. Abreu³, A.L. Morgado¹, S. Ferreira¹, J. Campos², J.J. Ferreira³, R.G. Nunes¹; ¹Institute of Biophysics and Biomedical Engineering, University of Lisbon, Lisbon/PORTUGAL, ²Neurological Imaging Department, Santa Maria Hospital - North Lisbon Hospital Center, Portugal, Lisbon/PORTUGAL, ³Clinical Pharmacology Unit, Institute of Molecular Medicine, Faculty of Medicine, Lisbon/PORTUGAL

386 11:40 Perfusion and diffusion tensor MRI improve computer-aided differentiation between Alzheimer's disease and frontotemporal dementia



E.E. Bron¹, M. Smits², J.M. Papma³, R.M.E. Steketee², R. Meijboom², M. De Groot⁴, J.C. Van Swieten³, W.J. Niessen¹, S. Klein¹; ¹Biomedical Imaging Group Rotterdam, depts of Radiology and Medical Informatics, Erasmus MC, Rotterdam/NETHERLANDS, ²Radiology, Erasmus MC, Rotterdam/NETHERLANDS, ³Neurology, Erasmus MC, Rotterdam/NETHERLANDS, ⁴Biomedical Imaging Group Rotterdam, depts of Radiology and Medical Informatics and Department of Epidemiology, Erasmus MC, Rotterdam/NETHERLANDS

387 11:50 Altered energy metabolism in mild Alzheimer's disease patients as measured by ³¹P Magnetic Resonance Spectroscopy

A. Rijpma¹, M. Van Der Graaf², O. Meulenbroek¹, J. Mengede¹, M.G.M. Olde Rikkert¹, A. Heerschap³; ¹Radboud Alzheimer Centre / Geriatric Medicine, Radboud university medical center, Nijmegen/NETHERLANDS, ²Radiology and Nuclear Medicine / Pediatrics, Radboud university medical center, Nijmegen/NETHERLANDS, ³Radiology and Nuclear Medicine, Radboud University Nijmegen Medical Center, Nijmegen/NETHERLANDS

388 12:00 Effect of Donepezil on memory task in young healthy volonters, an fMRI study



A. Boulanouar¹, J. Sein², X. Leclerc³, H. Gros-Dagnac¹, J.-P. Ranjeva², R. Lopes³, L. Lanteaume⁴, O. Blin⁵, R. Bordet⁶, P. Payoux¹; ¹U825, INSERM, Toulouse/FRANCE, ²CRMBM UMR 7339, Aix-Marseille University, Marseille/FRANCE, ³Neuroradiology, CI2C - Lille University Hospital, Lille/FRANCE, ⁴Centre de Pharmacologie Clinique et Evaluations Thérapeutiques, Assistance Publique Hôpitaux de Marseille, Marseille/FRANCE, ⁵Clinical Pharmacology and Pharmacovigilance, University Hospital Marseille, Marseille/FRANCE, ⁶Neurology, CI2C - Lille University Hospital, Lille/FRANCE

10:50–12:20 47 Scientific Session

Tinto

MR spectroscopy: methods and quantification

Moderators: R. Mulkern, Boston/USA
E. Ozturk-Isik, Istanbul/TR

389 10:50 PRESS^{mc}: Motion compensated PRESS sequence using 2nd order gradient moment nulling for cardiac spectroscopy

M. Fuetterer¹, C.T. Stoeck², S. Kozerke¹; ¹Institute for Biomedical Engineering, University and ETH Zurich, Zürich/SWITZERLAND, ²Imaging Sciences and Biomedical Engineering, King's College London, London/UNITED KINGDOM

Scientific Programme

SATURDAY, OCTOBER 3, 2015

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- 390 11:00 Non-invasive Investigation of Intramyocellular and Extramyocellular Lipids in the Human Heart using Non-water-suppressed MR Spectroscopy**
A. Hock¹, A. Fillmer¹, A. Henning², ¹Institute for Biomedical Engineering, University and ETH Zurich, Zürich/SWITZERLAND, ²High-Field Magnetic Resonance, Max Planck Institute for Biological Cybernetics, Tübingen/GERMANY
-
- 391 11:10 Fast and efficient free induction decay proton MRSI in the human brain at 9.4 T**
G.L. Chadzynski¹, K. Scheffler², J. Bause², G. Shajan², R. Pohmann², P. Ehses², ¹Biomedical Magnetic Resonance, Eberhard-Karls University of Tuebingen, Tuebingen/GERMANY, ²High-Field Magnetic Resonance Center, Max Planck Institute for Biological Cybernetics, Tuebingen/GERMANY
-
- 392 11:20 Improved detection of 2-hydroxyglutarate with a broadband semi-LASER sequence at 3T**
A. Berrington¹, N. Voets¹, S. Larkin², N. De Pennington², J. McCullagh³, K. Al-Qahtani³, R. Stacey⁴, M. Yildirim⁵, P. Jezzard¹, S. Clare¹, C. Schofield³, O. Ansorge², T. Cadoux-Hudson⁴, P. Plaha⁴, U. Emir¹; ¹FMRIB Centre, Nuffield Department of Clinical Neurosciences, University of Oxford, Oxford/UNITED KINGDOM, ²Nuffield Department of Clinical Neurosciences, University of Oxford, Oxford/UNITED KINGDOM, ³Department of Chemistry, University of Oxford, Oxford/UNITED KINGDOM, ⁴Department of Neurosurgery, Oxford University Hospitals, Oxford/UNITED KINGDOM, ⁵MR Development, Eindhoven University of Technology, Philips Healthcare, Eindhoven/NETHERLANDS
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- 393 11:30 Dynamic Multi-Voxel 31P Spectroscopy with semi-LASER**
F. Niess¹, A.I. Schmid², G.B. Fiedler², M. Wolzt², E. Moser², M. Meyerspeer², ¹MR Center of Excellence, Medical University Vienna, Vienna/AUSTRIA, ²Center for Medical Physics and Biomedical Engineering, Medical University of Vienna, Vienna/AUSTRIA
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-  **394 11:40 ¹H NMR Spectroscopy in Inhomogeneous B₀ Fields Using Localized Constant Time Spin Echo Correlation Spectroscopy (L-CT-SECSY)**
W. Dreher¹, M. Meier²; ¹Dept. Chemistry, in-vivo-MR group, University of Bremen, Bremen/GERMANY, ²Imaging Center, Institute of Laboratory Animal Science, Hannover Medical School, Hannover/GERMANY
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-  **395 11:50 Does superficial fat bias cerebral metabolite content determined by MRS?**
S.P. Kyathanahally, N.D. Fichtner, V.J. Adalid, **R. Kreis; Depts. of Radiology and Clinical Research, University Bern, Bern/SWITZERLAND**

396 12:00



Short echo-time spectroscopy of human brain tumours at 3 T: Improved modelling of macromolecules and direct detection of glutamate and glutamine

M. Gottschalk¹, I. Troprès², L. Lamalle³, C. Segebarth⁴; ¹Lund University Bioimaging Center, Faculty of Medicine, Lund University, Lund/SWEDEN, ²IRMaGe, UMR 3552, US17, Univ. Grenoble Alpes, CNRS, INSERM, CLUNI, CHU de Grenoble, Grenoble/FRANCE, ³US17, UMR 3552, IRMaGe, INSERM, CNRS, Univ. Grenoble Alpes, CLUNI, CHU de Grenoble, Grenoble/FRANCE, ⁴INSERM U836, Grenoble Institut des Neurosciences, Grenoble/FRANCE

10:50–11:50 48 Lightning Talk

Kilsyth

Image analysis and diffusion imaging

Moderators: N.N.
N.N.

397 10:50 Longitudinal asymmetry analysis of DTI metrics in relapsing remitting multiple sclerosis: a pilot study.

S.N. Morozova¹, **I.I. Maximov²**, V.V. Bryukhov¹, E.I. Kremneva¹, M.V. Krotenkova¹;

¹Neuroradiology, Research Center of Neurology, Moscow/RUSSIAN FEDERATION,

²Experimental Physics III, TU Dortmund University, Dortmund/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#1, on Oct. 3, 11:50–12:20

398 WITHDRAWN

399 10:52 Eddy current compensated double diffusion encoding MRI in the human brain

L. Müller, A. Wetscherek, F.B. Laun; *Medical Physics in Radiology (E020)*, German Cancer Research Center, Heidelberg/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#3, on Oct. 3, 11:50–12:20

400 10:54 Symmetric block-matching registration for the distortion correction of echo-planar images

R.S. Hédouin¹, O. Commowick², E. Bannier², C. Barillot¹; ¹Visages, INRIA, Rennes/FRANCE, ²Unité VISAGES U746 INSERM-INRIA, IRISA UMR CNRS 6074, University of Rennes, Rennes/FRANCE

MEET THE AUTHOR in the EPOS™ Area at PC#4, on Oct. 3, 11:50–12:20

401 10:56 Corpus callosum: comparison of regional diffusion metrics, clinical and EEG functional activity characteristics for patients with severe traumatic brain injury (STBI).

E. Pogosbekian¹, M. Chelyapina², N. Zakharova¹, L. Fadeeva¹, I. Pronin¹, E. Sharova²; ¹Neuroimaging, FSBU "N.N. Burdenko Neurosurgical Institute", Moscow/RUSSIAN FEDERATION, ²Laboratory of General and Clinical Neurophysiology, Institute of Higher Nervous Activity and Neurophysiology RAS, Moscow/RUSSIAN FEDERATION

MEET THE AUTHOR in the EPOS™ Area at PC#5, on Oct. 3, 11:50–12:20

Scientific Programme

SATURDAY, OCTOBER 3, 2015

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- 402 10:58 Impact of ROI method on quantitative analysis of DTI data in the optic tracts**

Y. Lilja¹, O. Gustafsson², M. Ljungberg³, D. Nilsson⁴, G. Starck²; ¹*Department of Clinical Neuroscience and Rehabilitation, University of Gothenburg, Gothenburg/SWEDEN,*

²*Department of Radiation Physics, University of Gothenburg, Gothenburg/SWEDEN,*

³*Department of Medical Physics and Biomedical Engineering, Sahlgrenska University Hospital, Gothenburg/SWEDEN, ⁴Department of Neurosurgery, Sahlgrenska University Hospital, Gothenburg/SWEDEN*

MEET THE AUTHOR in the EPOS™ Area at PC#6, on Oct. 3, 11:50–12:20

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- 403 11:00 Role of MR diffusion weighted imaging in differentiation between post-therapeutic changes and tumoral tissue in malignant head and neck masses in pediatrics.**

A. Baiomy¹, A. Youssef¹, A.S. Awad², T. Raafat¹; ¹*Radiology, National cancer institute, Cairo/EGYPT, ²Faculty of Medicine, Cairo University, Cairo/EGYPT*

MEET THE AUTHOR in the EPOS™ Area at PC#7, on Oct. 3, 11:50–12:20

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- 404 11:02 Study of Diffusion Kurtosis Imaging parameters using Monte Carlo simulations**

D.N. Sousa, H.A. Ferreira; *Physics department, Institute of Biophysics and Biomedical Engineering, Lisboa/PORTUGAL*

MEET THE AUTHOR in the EPOS™ Area at PC#8, on Oct. 3, 11:50–12:20

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- 405 11:04 Structural Connectivity Based on Diffusion Kurtosis Imaging**

R. Loução¹, R.G. Nunes¹, R. Neto-Henriques², M. Correia², A. Ribeiro³, H.A. Ferreira⁴; ¹*Instituto de Biofísica e Engenharia Biomédica, Universidade de Lisboa, Lisbon/PORTUGAL, ²Cognition and Brain Science Unit, MRC, Cambridge/UNITED KINGDOM,*

³*Centre for Neuropsychopharmacology, Division of Brain Sciences, Department of Medicine, Imperial College London, London/UNITED KINGDOM, ⁴Institute of Biophysics and Biomedical Engineering, Sciences Faculty of Lisbon University, Lisbon/PORTUGAL*

MEET THE AUTHOR in the EPOS™ Area at PC#9, on Oct. 3, 11:50–12:20

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- 406 11:06 Microstructural characterization of demyelinating disease: ActiveAx vs Diffusion Tensor Imaging. A simulation study**

S. Oliviero¹, C. Del Gratta¹, R. Navarra¹, G. Roberti²; ¹*Neuroscience, Imaging and Clinical Sciences; Institution of Advanced Biomedical Technologies, University of Chieti Pescara 'G. D'Annunzio', Chieti/ITALY, ²Scuola di Medicina e Chirurgia, University of Napoli 'Federico II', Napoli/ITALY*

MEET THE AUTHOR in the EPOS™ Area at PC#10, on Oct. 3, 11:50–12:20

- 407 11:08 DTI based Fiber tracking to assess connectivity of sound processing regions in the macaque brain**
F. Balezeau, B. Wilson, C. Petkov, T. Griffiths; *Institute of Neuroscience, Newcastle University, Newcastle Upon Tyne/UNITED KINGDOM*
MEET THE AUTHOR in the EPOS™ Area at PC#11, on Oct. 3, 11:50–12:20
- 408 11:10 DTI and tractography used for segmentation of the Inferior Longitudinal Fasciculus subcomponents in humans: A quantitative and anatomical-functional analysis.**
F. Latini¹, J. Mårtensson², E.-M. Larsson³, M. Ryttlefors¹; ¹*Neuroscience, Neurosurgery, Uppsala University, Uppsala/SWEDEN*, ²*Radiologi, Surgical Sciences, Uppsala/SWEDEN*, ³*Department of Surgical sciences, Section of Radiology, Uppsala University, Uppsala/SWEDEN*
MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 11:50–12:20
- 409 11:12 Effects of b-value on spherical deconvolution characterization of the corpus callosum**
C. Maffei¹, F. Dell'Acqua², J. Jovicich³; ¹*Cimec center for mind brain/SCIENCES, università degli studi di trento, Trento/ITALY*, ²*Netbrainlab, Centre for Neuroimaging Sciences, Institute of Psychiatry, Psychology & Neuroscience, King's College London, London/UNITED KINGDOM*, ³*Center for mind/BRAIN SCIENCES, Universita degli studi di Trento, Trento/ITALY*
MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 11:50–12:20
- 410 11:14 Voxel-wise analyses of high-fat diet on brain structure in Wistar rats**
P. Majka¹, Z. Setkowicz², P. Bogorodzki³, J. Orzel³, B. Kossowski¹,
S. Gazdzinski⁴; ¹*Computer Science, Nencki Institute for Experimental Biology, Warsaw/POLAND*, ²*Neurobiology, Jagiellonian University, Krakow/POLAND*, ³*Institute of Radioelectronics, Warsaw University of Technology, Warsaw/POLAND*, ⁴*Flight Safety, Military Institute of Aviation Medicine, Warsaw/POLAND*
MEET THE AUTHOR in the EPOS™ Area at PC#12, on Oct. 3, 11:50–12:20
- 411 11:16 Compressed Sensing for Image Reconstruction using Conjugate Gradient and POCS**
U. Zia, S. Sohail, M. Kaleem, H. Omer; *Department of Electrical Engineering, COMSATS Institute of Information Technology, Islamabad/PAKISTAN*
MEET THE AUTHOR in the EPOS™ Area at PC#13, on Oct. 3, 11:50–12:20
- 412 11:18 Evaluation of image-based bias field correction at 7T**
M.J. Van Rijssel¹, J.P.W. Pluim², B.H.M. Van Der Velden², T.A. Van Der Velden³, E. Krikken³, J.P. Wijnen³, K.G.A. Gilhuijs², D.W. Klomp³; ¹*Radiology, University Medical Center Utrecht, Utrecht/NETHERLANDS*, ²*Image Sciences Institute, University Medical Center Utrecht, Utrecht/NETHERLANDS*, ³*Radiology, UMC Utrecht, Utrecht/NETHERLANDS*
MEET THE AUTHOR in the EPOS™ Area at PC#14 on Oct. 3, 11:50–12:20
- 413 11:20 Noise Reduction in Cardiac Cine Images Using Temporal Filtering and Noise Estimation**
K. Isogawa¹, T. Ono¹, T. Takeuchi¹, N. Matsumoto¹, N. Ichinose², H. Takai²; ¹*Corporate Research & Development Center, Toshiba Corporation, Kawasaki/JAPAN*, ²*MRI Systems Division, Toshiba Medical Systems Corporation, Otawara/JAPAN*
MEET THE AUTHOR in the EPOS™ Area at PC#15, on Oct. 3, 11:50–12:20

Scientific Programme

SATURDAY, OCTOBER 3, 2015

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- 414 11:22 **Semi-Automatic Segmentation and Scar Quantification of the Left Ventricle in 3-D Late Gadolinium Enhanced MRI**

T. Kurzendorfer¹, A. Brost², C. Forman³, M. Schmidt³, C. Tilmans⁴, J. Hornegger¹; ¹Pattern Recognition Lab, Friedrich-Alexander-University Erlangen-Nuremberg, Erlangen/GERMANY, ²Healthcare, Siemens AG, Forchheim/GERMANY, ³Healthcare, Siemens AG, Erlangen/GERMANY, ⁴Cardiology, Diagnostikum Berlin, Berlin/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#16, on Oct. 3, 11:50–12:20

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- 415 11:24 **Cortical Parcellation of Healthy Middle-Aged Brains**

S. Mikhael¹, C. Pernet¹, M.D.C. Valdés Hernández², C. Hoogendoorn³, A. Murray⁴, J. Wardlaw⁵; ¹Centre for Clinical Brain Sciences, University of Edinburgh, Edinburgh/UNITED KINGDOM, ²Department of Clinical Neuroscience, Centre for Clinical Brain Sciences, University of Edinburgh, Edinburgh/UNITED KINGDOM, ³Medical Imaging, Toshiba Medical Visualization Systems Europe, Ltd, Edinburgh/UNITED KINGDOM, ⁴Aberdeen Biomedical Imaging Centre, Lilian Sutton Building, University of Aberdeen, Aberdeen/UNITED KINGDOM, ⁵Centre for Clinical Brain Sciences (CCBS), The University of Edinburgh, Edinburgh/UNITED KINGDOM

MEET THE AUTHOR in the EPOS™ Area at PC#17, on Oct. 3, 11:50–12:20

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- 416 11:26 **Brain Morphometry Reproducibility Analysis between Longitudinal and Cross-sectional Processing**

N. Maruguchi¹, **Y. Fushimi**¹, T. Okada¹, K. Fujimoto¹, T. Hinoda¹, A. Yamamoto¹, T. Okada¹, A. Kido¹, N. Sakashita², K. Togashi¹; ¹Department of Diagnostic Imaging and Nuclear Medicine, Kyoto University Graduate School of Medicine, Kyoto/JAPAN, ²Clinical Application Research and Development Department, Toshiba Medical Systems Corporation, Otawara/JAPAN

MEET THE AUTHOR in the EPOS™ Area at PC#18, on Oct. 3, 11:50–12:20

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- 417 11:28 **Co-registration of histopathology with MRI reveals tumor invasion by low-grade gliomas**

K.R. Roodakker¹, M. Zetterling², A.-M. Landtblom³, E.-M. Larsson¹, A. Smits³; ¹Surgical Sciences, Radiology, Uppsala University, Uppsala/SWEDEN, ²Neurosurgery, Uppsala University, Uppsala/SWEDEN, ³Neuroscience, Neurology, Uppsala University, Uppsala/SWEDEN

MEET THE AUTHOR in the EPOS™ Area at PC#19, on Oct. 3, 11:50–12:20

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- 418 11:30 **MR Image Reconstruction in CS using Multiple Sparsifying Transforms**

M. Qureshi, **J. Muhammad**, H. Omer; Electrical Engineering, COMSATS Institute of IT, Pakistan/PAKISTAN

MEET THE AUTHOR in the EPOS™ Area at PC#20, on Oct. 3, 11:50–12:20

- 419 11:32 Diagnosis of Parkinson's Disease and Essential Tremor using Support Vector Machine Analysis of Magnetic Resonance Imaging Derived Parameters**
R. Grosso¹, S. Reimão², D. Abreu³, A.L. Morgado¹, J.N. Gonçalves¹, P. Azevedo¹, J. Campos², J.J. Ferreira³, R.G. Nunes¹; ¹Institute of Biophysics and Biomedical Engineering, University of Lisbon, Lisbon/PORTUGAL, ²Neurological Imaging Department, Santa Maria Hospital - North Lisbon Hospital Center, Portugal, Lisbon/PORTUGAL, ³Clinical Pharmacology Unit, Institute of Molecular Medicine, Faculty of Medicine, Lisbon/PORTUGAL
MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 11:50–12:20
- 420 11:34 Comparison of accuracy between FSL's FIRST and Freesurfer for caudate nucleus and putamen segmentation**
G. Orsi¹, G. Perlaki¹, R. Horvath², S.A. Nagy³, A. Horvath³, P. Bogner³, J. Janszky²; ¹MTA-PTE Clinical Neuroscience MR Research Group, University of Pécs, Pécs/HUNGARY, ²Department of Neurology, University of Pécs, Pécs/HUNGARY, ³Department of Neurosurgery, University of Pécs, Pécs/HUNGARY
MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 11:50–12:20
- 421 11:36 Unsupervised Detection of Area-at-Risk from Myocardial BOLD CMR at Rest**
M. Bevilacqua¹, R. Dharmakumar², S.A. Tsaftaris³; ¹PRIAN, IMT Lucca, Lucca/ITALY, ²BIRI, Cedars Sinai Medical Center, Los Angeles/CA/United States of America, ³IDCOM, University of Edinburgh, Edinburgh/UNITED KINGDOM
MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 11:50–12:20
- 422 11:38 An automated algorithm for the extraction of cardiac pulsations from short-TR multiband EPI data**
R. Boubela¹, K. Kalcher¹, C. Nasel², E. Moser¹; ¹Center for Medical Physics and Biomedical Engineering, Medical University of Vienna, Wien/AUSTRIA, ²Dpt. of Radiology, Karl Landsteiner University of Health Sciences, Tulln/AUSTRIA
MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 11:50–12:20
- 423 11:40 Comparison of Two Image Analysis Pipelines for MR Elastography (MRE)**
L.V. Hiscox¹, E. Barnhill¹, P. Kennedy¹, E.J.R. Van Beek¹, J. Starr², N. Roberts¹; ¹Clinical Research Imaging Centre, University of Edinburgh, Edinburgh/UNITED KINGDOM, ²Alzheimer Scotland Dementia Research Centre, University of Edinburgh, Edinburgh/UNITED KINGDOM
MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 11:50–12:20
- 424 11:42 Estimation of foetal brain volume using MRI and three stereological methods**
K. Yin¹, D. Anblagan², R. Reynolds³, J. Norman⁴, N. Roberts¹; ¹Clinical Research Imaging Centre, University of Edinburgh, Edinburgh/UNITED KINGDOM, ²Centre for Clinical Brain Sciences, University of Edinburgh, Edinburgh/UNITED KINGDOM, ³Centre for Cardiovascular Science, University of Edinburgh, Edinburgh/UNITED KINGDOM, ⁴Centre for Reproductive Health, University of Edinburgh, Edinburgh/UNITED KINGDOM
MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 11:50–12:20

Scientific Programme

SATURDAY, OCTOBER 3, 2015

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- 425 11:44 Correlation between T2W MRI-based Texture Parameters and Pathophysiological Measures in Prostate Cancer**

G. Nketiah, M. Elschot, E. Kim, T. Bathen, K. Selhæs; *Department of Circulation and Medical Imaging, Norwegian University of Science and Technology, Trondheim/NORWAY*
MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 11:50–12:20

-
- 426 11:46 Automated detection of signal voids in different muscle groups of the leg – A means to analyse spontaneous muscular activity from time series of diffusion weighted MR images**

M. Schwartz¹, G. Steidle¹, F. Fallah², P. Martirosian¹, H. Schmidt³, F. Schick¹;

¹Section on Experimental Radiology, University Hospital Tuebingen, Tuebingen/GERMANY,

²Institute of Signal Processing and System Theory, University of Stuttgart, Stuttgart/GERMANY,

³Diagnostic and Interventional Radiology, University Hospital Tuebingen, Tuebingen/GERMANY

MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 11:50–12:20

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- 13:50–15:20 49 Teaching Session - Advanced Applications and challenges in highfield MRI** Pentland

Moderators: E. M. Larsson, Uppsala/SE
F. Zoellner, Mannheim/DE

-
- 427 13:50 Highfield MRI today - an overview**

R. Bowtell; *Sir Peter Mansfield Imaging Centre, University of Nottingham, Nottingham/UNITED KINGDOM*

-
- 428 14:20 Applications of highfield MRI in Imaging Neuroscience**

R. Turner; *Neurophysics, Max-Planck Institute for Human Cognitive and Brain Sciences, Leipzig/GERMANY*

-
- 429 14:50 Challenges of highfield MRI**

P.G. Morris; *Sir Peter Mansfield Imaging Centre, University of Nottingham, Nottingham/UNITED KINGDOM*

Further tales from the body

Moderators: N.N.
N.N.

430 13:50 A Safety Imaging Diagnostic Biomarker for Early Detection of Selective Muscle Toxicity

also available in EPOS

A.W. Bidar¹, Å. Ström², H. Andersson³, C. Johansson³, M. Wigemborg², L. Brändén³, J. Stende², C. Karlsson², S. Bickerton³, E. Bratt⁴, B. Dahl⁵, H. Zhang³; ¹Personalised Healthcare & Biomarkers, Imaging, Astrazeneca, Mölndal/SWEDEN, ²Laboratory animal sciences, Astrazeneca, Mölndal/SWEDEN, ³Pathology Sciences, Astrazeneca, Mölndal/SWEDEN, ⁴Medicinal Chemistry, Astrazeneca, Mölndal/SWEDEN, ⁵Regulatory Safety, Astrazeneca, Mölndal/SWEDEN

431 14:00 Skeletal muscle tissue characterization by ²³Na NMRS under different vascular filling conditions

also available in EPOS

T. Gerhalter¹, B. Marty¹, E. Caldas De Almeida Araujo¹, E. Giacomini², P.G. Carlier¹; ¹NMR Laboratory, Institut of Myology, Paris/FRANCE, ²UNIRIS, CEA/DSV/I2BM, Gif-Sur-Yvette/FRANCE

432 14:10 Semi-automatic segmentation of red and yellow bone marrow in the human femur

A. Bierwagen, M. Roden, J.J.O. Lundbom; German Diabetes Center, Leibniz Center for Diabetes Research at Heinrich Heine University, Institute for Clinical Diabetology, Düsseldorf/GERMANY

433 14:20 Biological validation of quantitative ADC as a biomarker for sacroiliitis in adolescents with enthesitis-related arthritis

also available in EPOS

T. Bray¹, K. Vendhan², D. Atkinson¹, S. Punwani¹, Y. Ioannou³, D. Sen³, C. Fisher³, M.A. Hall-Craggs²; ¹Radiology Dept, University College London, London/UNITED KINGDOM, ²Radiology, University College London, London/UNITED KINGDOM, ³Rheumatology, University College London, London/UNITED KINGDOM

434 14:30 Analysis of possible impact factors on the regeneration of hematomas in the subcutaneous fatty tissue

also available in EPOS

T. Widek¹, E.M. Hassler², A. Petrovic³, B. Neumayer¹, K. Ogris⁴, E. Scheurer⁵; ¹Clinical Forensic Imaging, Ludwig Boltzmann Institute, Graz/AUSTRIA, ²Department of Radiology, Medical University of Graz, Graz/AUSTRIA, ³Institute of Medical Engineering, Graz University of Technology, Graz/AUSTRIA, ⁴Department of Legal Medicine, Medical University of Graz, Graz/AUSTRIA, ⁵Institute of Forensic Medicine, Kanton Basel-Stadt, Basel/SWITZERLAND

435 14:40 Single-visit measures of gut transit and postprandial gastro-intestinal motility using MRI methodology: a feasibility study

also available in EPOS

C.L. Hoad¹, A. Khalaf², A. Menys³, A. Nowak², S. Paparo², S.A. Taylor³, R.C. Spiller², L. Marciani², P.A. Gowland¹, G. Moran²; ¹Sir Peter Mansfield Imaging Centre, University of Nottingham, Nottingham/UNITED KINGDOM, ²NIHR Biomedical Research Unit in Gastrointestinal and Liver Diseases, Nottingham University Hospitals Trust and the University of Nottingham, Nottingham/UNITED KINGDOM, ³Centre for Medical Imaging, Division of Medicine, University College London, London/UNITED KINGDOM

Scientific Programme

SATURDAY, OCTOBER 3, 2015

- 436 14:50 Assessment of colon abnormalities on a mouse model of colitis based on an endoluminal MR imaging protocol**

H. Dorez¹, R. Sablong¹, L. Canaple², S. Gaillard¹, H. Saint-Jalme³, D. Moussata⁴, O. Beuf¹; ¹MRI/OPTIC, CREATIS, Lyon/FRANCE, ²Institut de Génomique Fonctionnelle, Ecole Normale Supérieure, Lyon/FRANCE, ³LTSI UMR 1099, INSERM, Rennes/FRANCE, ⁴Service hépato-gastroentérologie, Hôpital Régional Universitaire de Tours, Tours/FRANCE

- 437 15:00 MR-guided Radiotherapy Planning in the Mouse Abdomen**

J. Beech, D. Allen, J. Thompson, S. Gilchrist, P. Kinchesh, R. Newman, A. Gomes, V. Kersemans, L. Bird, A. Kavanagh, I. Tullis, M. Hill, B. Vojnovic, R. Muschel, E. Fokas, **S. Smart**; Oncology, University of Oxford, Oxford/
UNITED KINGDOM

-
- 13:50–15:20 51 Scientific Session**

Fintry

CEST and other nuclei

Moderators: F. Torrealdea, London/UK
U. Himmelreich, Leuven/BE

- 438 13:50 CEST-MRI pH mapping in glioblastoma mouse models:the use of Yb-H PDO3A probe**

G. Ferrauto¹, M. Sarraf², E. Di Gregorio¹, V. Auboiron³, F. Berger², S. Aime¹, H. Lahrech²; ¹Molecular Biotechnologies & Health Sciences, Molecular Imaging Center, Torino/ITALY, ²INSERM UA01 CHU UJF, CLINATEC CEA Grenoble, Grenoble/FRANCE, ³CEA, CLINATEC CEA Grenoble, Grenoble/FRANCE

- 439 14:00 Glycosaminoglycan chemical exchange saturation transfer (gagCEST) dependencies**


F. Wickrath¹, A. Müller-Lutz¹, C. Schleich¹, F. Matuschke¹, B. Schmitt², H.-J. Wittsack¹; ¹Department of Diagnostic and Interventional Radiology, University Düsseldorf, Düsseldorf/GERMANY, ²Healthcare Sector, Siemens Ltd. Australia, Macquarie Park/NSW/AUSTRALIA

- 440 14:10 Optimisation of glucoCEST MRI signal for applications in tumours.**


F. Torrealdea¹, M. Rega¹, V. Evans², S. Punwani², D. Atkinson², X. Golay¹; ¹Brain repair and rehabilitation, Institute of Neurology, UCL, London/UNITED KINGDOM, ²Centre of Medical Imaging, UCL Division of Medicine, London/UNITED KINGDOM

441 14:20

Differential diagnosis between different kinds of kidney injury using glucoCEST MRI

P.R. Bovenkamp¹, D. Kentrup², A. Busch¹, H. Pawelski², N.N. Yadav³, G. Liu³, P.C.M. Van Zijl³, S. Reuter², V. Hoerr⁴; ¹Department of Clinical Radiology, University Hospital Muenster, Muenster/GERMANY, ²Department of Medicine D - Experimental Nephrology, University Hospital Muenster, Muenster/GERMANY, ³F.M. Kirby Research Center for Functional Brain Imaging, Kennedy Krieger Research Institute, Baltimore/MD/United States of America, ⁴Institute of Medical Microbiology, Jena University Hospital, Jena/GERMANY

442 14:30



Assessing the suitability of common NOE modelling approximations in quantitative imaging of hyper-acute stroke

Y. Msayib¹, G.W. Harston², Y.K. Tee³, N. Blockley⁴, T.W. Okell⁴, S. Payne¹, P. Jezzard⁴, J. Kennedy², M.A. Chappell¹; ¹Institute of Biomedical Engineering, Department of Engineering Science, University of Oxford, Oxford/UNITED KINGDOM, ²Acute Stroke Programme, Radcliffe Department of Medicine, University of Oxford, Oxford/UNITED KINGDOM, ³Department of Mechatronics and Biomedical Engineering, Lee Kong Chian Faculty of Engineering and Science, Universiti Tunku Abdul Rahman, Perak/MALAYSIA, ⁴Oxford Centre for Functional MRI of the Brain, Nuffield Department of Clinical Neurosciences, University of Oxford, Oxford/UNITED KINGDOM

443 14:40



Compressed Sensing as a valuable tool for visualization of low SNR signal in 19F MRI

S. Liang¹, Y. Liu², T. Dresselaers¹, S. Van Huffel³, U. Himmelreich¹; ¹Biomedical NMR unit, Department of Imaging and Pathology, KU Leuven, Leuven/BELGIUM, ²Department of Electronic Engineering, University of Electronic Science and Technology of China, Chengdu/CHINA, ³ESAT, Department of Electrical Engineering, KU Leuven, Leuven/BELGIUM

444 14:50



Evaluation of tissue sodium quantification accuracy in phantoms and in vivo using sodium MRI with different radiofrequency field correction methods for body stem imaging at 3T

N.K. Paschke¹, J. Lommen², L.R. Schad¹; ¹Computer Assisted Clinical Medicine, Heidelberg University, Medical Faculty Mannheim, Mannheim/GERMANY, ²Division of Medical Physics in Radiology, German Cancer Research Center, Heidelberg/GERMANY

445 15:00

Multicolor Heteronuclear proton MRI – Comparison of Chemical Shift Imaging vs. Ultrashort Echo time Detection

T. Klasen, C. Höltke, C. Faber; Department of Clinical Radiology, University of Münster, Münster/GERMANY

13:50–15:20

52 Scientific Session

Tinto

Brain changes in psychiatric and developmental disorders

Moderators: J.P. Ranjeva, Marseille/FR
N.N.

446 13:50



Diffusion Tensor Imaging study of medication-free children with Tourette Syndrome

H.J. Simonsen¹, S. Jeppesen¹, N. Debes², E. Rostrup¹, L. Skov², H. Larsson¹;

¹Functional Imaging Unit, Diagnostic Department, Glostrup University Hospital, Glostrup/DENMARK, ²Department of Pediatric, Herlev University Hospital, Herlev/DENMARK

Scientific Programme

SATURDAY, OCTOBER 3, 2015

447 14:00 MR findings in ADHD patients

M. Dezortova¹, A. Skoch¹, M. Dezortova¹, V. Herynek¹, P. Sedivy¹, M. Drobny¹, N. Pribilova², P. Kollarova², I. Pacl², M. Hajek¹; ¹Dept. Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, ²Dept. Psychiatry, 1st Faculty of Medicine, Charles University, Prague/CZECH REPUBLIC

448 14:10 The ketamine model of schizophrenia - relation between glutamate level and cerebral blood flow



S.N. Rasmussen¹, K.A. Andersen², K.B. Bojesen², L. Baandrup², S. Anhøj¹, L.M. Madsen³, B.Y. Glenthøj², **E. Rostrup¹, B.V. Broberg²; ¹Functional Imaging Unit, Department of Clinical Physiology and Nuclear Medicine, Copenhagen University Hospital, Glostrup/DENMARK, ²Center for Neuropsychiatric Schizophrenia Research (CNSR) & Center for Clinical Intervention and Neuropsychiatric Schizophrenia Research (CINS), Copenhagen University Hospital, Mental Health Centre Glostrup, Glostrup/DENMARK, ³Department of Anaesthesia, University Hospital Copenhagen, Glostrup/DENMARK**

449 14:20 Structural neuroimaging in an extended family with genetic confirmation of a relationship between balanced t(1;11) chromosome translocation and major psychiatric disorder



L. Xiang, P. Thomson, B. Duff, D. Blackwood, L. Romaniuk, A. Watson, H. Whalley, M. Dauvermann, B. Moorhead, C. Bois, N. Ryan, S. Morris, E.J.R. Van Beek, E. Pickering, N. Roberts, D. Porteous, D. St. Clair, B. Whitcher, J. Dunlop, N. Brandon, Z. Hughes, J. Hall, A. McIntosh, S. Lawrie; CRIC, Edinburgh university, Edinburgh/UNITED KINGDOM

450 14:30 Fractional Anisotropy correlates with symptoms in adolescents newly diagnosed with Obsessive-Compulsive Disorder



O. Gustafsson¹, M. Ljungberg², A. Carlsson³, M. Carlsson³, E. Forssell-Aronsson¹, T. Ivarsson⁴, L. Jönsson⁵, K. Melin⁶, G. Starck¹; ¹Department of Radiation Physics, University of Gothenburg, Gothenburg/SWEDEN, ²Department of Medical Physics and Biomedical Engineering, Sahlgrenska University Hospital, Gothenburg/SWEDEN, ³Department of Neuroscience and Rehabilitation, University of Gothenburg, Gothenburg/SWEDEN, ⁴Department of Child and Adolescent Psychiatry, University of Gothenburg, Gothenburg/SWEDEN, ⁵Department of Radiology, University of Gothenburg, Gothenburg/SWEDEN, ⁶Department of Neurology, University of Gothenburg, Gothenburg/SWEDEN

451 14:40 The white matter micro-integrity alterations of neocortical and limbic association fibers in major depressive disorder and panic disorder: the classification



C.-H. Lai¹, Y.-T. Wu²; ¹Department of Psychiatry, Cheng Hsin General Hospital, Taipei/TAIWAN, ²Department of Biomedical Imaging and Radiological Sciences, National Yang-Ming University, Taipei/TAIWAN

452 14:50 **Validating DBS Targeting for Paediatric Dystonia Patients via Frameless MRI Merged with In-frame CT**

S. McElroy¹, R. Selway², I. Ughratdar², R.L. O'Gorman³, J. Ashmore²; ¹Department of Medical Engineering and Physics, King's College Hospital, London/UNITED KINGDOM, ²Neuroradiology, King's College Hospital, London/UNITED KINGDOM, ³University Children's Hospital, MR Zentrum, Zurich/SWITZERLAND

453 15:00 **Voxel-wise grey matter asymmetry in temporal lobe epilepsy: relation to postoperative outcome**



S.S. Keller¹, B. Weber², G.J. Barker³, M.P. Richardson⁴; ¹Institute of Translational Medicine, University of Liverpool, Liverpool/UNITED KINGDOM, ²Department of Epileptology, University Hospital Bonn, Bonn/GERMANY, ³Department of Neuroimaging, King's College London, London/UNITED KINGDOM, ⁴Department of Basic and Clinical Neuroscience, King's College London, London/UNITED KINGDOM

13:50–14:50 53 Lightning Talk

Kilsyth

Let if flow! Perfusion from bedside to bench and back

Moderators: M. Günther, Bremen/DE
A. Viola, Marseille/FR

454 13:50 **Experimental Validation of Bolus Profiles obtained with GRASP Iterative Reconstruction in Dynamic Contrast-Enhanced Imaging**

E. Weiland¹, J. Lobisch², R. Grimm¹, D. Nickel¹, B. Kiefer¹; ¹MR Application Predevelopment, Siemens Healthcare, Erlangen/GERMANY, ²Customer Services, Siemens Healthcare, Hamburg/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#1, on Oct. 3, 14:50–15:20

455 13:52 **DSC and DCE as an effective MR diagnostic tool useful in differentiation of malignancy of pediatric brain tumors. Comparison of Ktrans, CBV and ADC values**

S. Chelstowska, E. Jurkiewicz, K. Nowak, I. Pakula-Kosciesza, K. Malczyk, S. Raczkowska; *Department of Diagnostic Imaging, The Children's Memorial Health Institute, Warsaw/POLAND*

MEET THE AUTHOR in the EPOS™ Area at PC#2, on Oct. 3, 14:50–15:20

456 13:54 **Influence of scanner drift on the accuracy of pharmacokinetic parameters in subtle leakage measured with DCE-MRI – a healthy volunteer and simulation study.**

A.K. Heye¹, M.J. Thrippleton¹, A. Glatz¹, P.A. Armitage², J.M. Wardlaw¹;

¹Department of Neuroimaging Sciences, University of Edinburgh, Edinburgh/UNITED KINGDOM,

²Academic Unit of Radiology, Department of Cardiovascular Science, University of Sheffield, Sheffield/UNITED KINGDOM

MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 14:50–15:20

457 13:56 **Parameter-free Analysis of Cerebral Hemodynamics Using Dynamic Susceptibility Contrast Magnetic Resonance Imaging**

C. Nasel¹, R. Boubela², **E. Moser**², K. Kalcher²; ¹Dpt. of Radiology, Karl Landsteiner University of Health Sciences, Tulln/AUSTRIA, ²Center for Medical Physics and Biomedical Engineering, Medical University of Vienna, Vienna/AUSTRIA

MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 14:50–15:20

Scientific Programme

SATURDAY, OCTOBER 3, 2015

458 13:58 An Assessment of Variability in the Analysis of DSC Perfusion Data

D. Butler, T. Booth, J. Ashmore; *Neuroradiology, King's College Hospital, London/UNITED KINGDOM*

MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 14:50–15:20

459 14:00 Evaluation of the longitudinal variability of dynamic susceptibility contrast MRI parameters comparing arterial input function determination approaches in patients with malignant gliomas.

M. Fahlström¹, A. Morell², P. Nyrén¹, T. Nyholm³, E.-M. Larsson¹; ¹*Surgical Sciences, Radiology, Uppsala University, Uppsala/SWEDEN*, ²*Imaging & Therapy, Siemens Healthcare, Upplands Väsby/SWEDEN*, ³*Radiation Sciences, Umeå University, Umeå/SWEDEN*

MEET THE AUTHOR in the EPOS™ Area at PC#3, on Oct. 3, 14:50–15:20

460 14:02 Variability of the ASL cerebral blood flow quantification in healthy subjects

J. Tomas-Cucarella, A. Alberich-Bayarri, R. Nombela, C. Juan-Cruz, L. Martí-Bonmatí; *Biomedical Imaging Research Group (GIBI230), La Fe Polytechnics and University Hospital, Valencia/SPAIN*

MEET THE AUTHOR in the EPOS™ Area at PC#4, on Oct. 3, 14:50–15:20

461 14:04 Arterial spin labelling (ASL) in pediatric patients: preliminary results of absolute cerebral blood flow (CBF).

A. Ciccarone¹, M. Mortilla², R. Trifan², M. Esposito³, C. Defilippi²; ¹*Radiology, Meyer Children's Hospital, Florence/ITALY*, ²*Radiology, Meyer Children's Hospital, Florence/ITALY*, ³*Medical Physics, Florence Hospitals, Firenze/ITALY*

MEET THE AUTHOR in the EPOS™ Area at PC#5, on Oct. 3, 14:50–15:20

462 14:06 Effect of Inspired Carbon Dioxide Concentration on Measurement of Cerebrovascular Reactivity Using BOLD MRI in Stroke Patients

G.W. Blair¹, M.J. Thrippleton¹, F. Doubal¹, Y. Shi¹, I. Hamilton¹, P. Andrews², I. Marshall³, J.M. Wardlaw¹; ¹*Centre for Clinical Brain Sciences, University of Edinburgh, Edinburgh/UNITED KINGDOM*, ²*Critical Care Medicine, University of Edinburgh, Edinburgh/UNITED KINGDOM*, ³*School of Clinical Sciences, University of Edinburgh, Edinburgh/UNITED KINGDOM*

MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 14:50–15:20

463 14:08 Encoding field imperfections in arterial spin labeling and advanced reconstructions using gradient impulse responses and concurrent field monitoring

M. Cavusoglu¹, L. Kasper², B.E. Dietrich², S. Gross², J. Vannesjö², K. Pruessmann²; ¹*Institute for Biomedical Engineering, ETH Zurich, Zürich/SWITZERLAND*, ²*Institute for Biomedical Engineering, University of Zurich and ETH Zurich, Zurich/SWITZERLAND*

MEET THE AUTHOR in the EPOS™ Area at PC#6, on Oct. 3, 14:50–15:20

464 14:10 Partial volume correction on QUASAR ASL: comparing linear regression method before and after model-based and model-free perfusion estimation

M.Y. Zhao¹, E. Rostrup², O.M. Henriksen³, M.A. Chappell¹; ¹Institute of Biomedical Engineering, University of Oxford, Oxford/UNITED KINGDOM, ²Functional Imaging Unit, Glostrup Hospital, Copenhagen University Hospital Rigshospitalet Blegdamsvej, Copenhagen/DENMARK, ³Department of Clinical Physiology, Nuclear Medicine and PET, Copenhagen University Hospital Rigshospitalet Glostrup, Glostrup/DENMARK

MEET THE AUTHOR in the EPOS™ Area at PC#7, on Oct. 3, 14:50–15:20

465 14:12 “Time is Brain”: Accelerated High-Resolution 3D Arterial Spin Labelling for Brain Perfusion MRI

M. Vicari, F.C. Von Samson-Himmelstjerna, M. Guenther; MR Physics, Fraunhofer MEVIS, Bremen/GERMANY

MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 14:50–15:20

466 14:14 Arterial spin labeling, T2*-perfusion and susceptibility weighted imaging in patients after mechanical treatment of acute ischemic stroke

C. Arneitz¹, T. Kau², K.A. Hausegger², M. Hauser², S.M. Obmann³, J.R. Weber³, G. Grabner¹; ¹Department of Radiologic Technology, Carinthia University of Applied Sciences, Klagenfurt/AUSTRIA, ²Institute of Diagnostic and Interventional Radiology, General Hospital of Klagenfurt, Klagenfurt/AUSTRIA, ³Institute of Neurology, General Hospital of Klagenfurt, Klagenfurt/AUSTRIA

MEET THE AUTHOR in the EPOS™ Area at PC#8, on Oct. 3, 14:50–15:20

467 14:16 A new approach to estimate the vascular resistance of the intracranial venous system using phase-contrast MR angiography

S. Fall¹, J.-M. Constans², O. Baledent¹; ¹Image Processing Department, BioFlowImage, University Hospital of Picardy, Amiens/FRANCE, ²Department of radiology, University Hospital of Picardy, Amiens/FRANCE

MEET THE AUTHOR in the EPOS™ Area at PC#9, on Oct. 3, 14:50–15:20

468 14:18 Time-Resolved Spin-Labelled MR angiography for monitoring embolisation-induced haemodynamic changes in brain arteriovenous malformations

H. Raoult¹, E. Bannier², P. Maurel², J.-C. Ferré³, C. Barillot², J.-Y. Gauvrit²; ¹Neuroradiology, University Hospital of Rennes, Rennes/France, ²Unité VISAGES U746 INSERM-INRIA, IRISA UMR CNRS 6074, University of Rennes, Rennes/France, ³Neuroradiology, University Hospital of Rennes, Rennes/France

MEET THE AUTHOR in the EPOS™ Area at PC#10, on Oct. 3, 14:50–15:20

469 14:20 Non-invasive quantification of brain perfusion and cerebral haemodynamics with quasar arterial spin labeling (ASL) in patients with carotid atherosclerotic stenosis

C. Godi¹, M. Sokolska², F. Kennedy², S.M. Fallatah³, X. Golay⁴, R. Jäger³; ¹Neuroradiology, San Raffaele Scientific Institute, Milan/ITALY, ²UCL Institute of Neurology, University College London, London/UNITED KINGDOM, ³Brain repair and rehabilitation, UCL Institute of Neurology, London/UNITED KINGDOM, ⁴Institute of Neurology, University College London, London/UNITED KINGDOM

MEET THE AUTHOR in the EPOS™ Area at PC#11, on Oct. 3, 14:50–15:20

Scientific Programme

SATURDAY, OCTOBER 3, 2015

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- 470 14:22 Differential effects of first- and second-generation antipsychotics measured using arterial spin labeling**

H.J. Mutsaerts¹, I. Bolstad², O. Andreassen², J. Jensen², L. Reneman¹, I.R. Groote³, ¹Radiology, Academic Medical Center, Amsterdam/NETHERLANDS, ²Division of Mental Health and Addiction, KG Jebsen Centre for Psychosis, Oslo/NORWAY, ³Psychology, University of Oslo, Oslo/NORWAY

MEET THE AUTHOR in the EPOS™ Area at PC#12, on Oct. 3, 14:50–15:20

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- 471 14:24 Clinical implementation of hybrid echo-planar perfusion imaging (hEPI) for the assessment of glioma**

R. Gahrmann¹, M. Burke², B. Fernandez², M. Van Den Bent¹, M. Smits¹,

¹Radiology and Neurology, Erasmus MC, Rotterdam/NETHERLANDS, ²Clinical Science Development Group, GE Healthcare, Solingen/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#13, on Oct. 3, 14:50–15:20

-
- 472 14:26 Prospective study of the value of combined T2* DSC-MRI and DWI in predicting sites of relapse among glioblastoma patients treated by concomitant chemoradiation.**

J. Khalifa¹, F. Tensaouti², J.-A. Lotterie², I. Catalaa³, P. Péran², I. Berry², E. Cohen-Jonathan Moyal¹, A. Laprie¹; ¹Radiotherapy, Institut Universitaire du Cancer de Toulouse - Oncopôle, Toulouse/FRANCE, ²INSERM U825, INSERM, Toulouse/FRANCE, ³Radiology, CHU Rangueil, Toulouse/FRANCE

MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 14:50–15:20

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- 473 14:28 Brain Gd-DOTA mapping in a mouse model of chronic EAE induced with the MOG₃₃₋₅₅ peptide**

A.-T. Perles-Barbacaru, J. Tracz, E. Pecchi, M. Bernard, A. Viola; CRMBM UMR CNRS 7339, Aix-Marseille Université/CNRS, Marseille/FRANCE

MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 14:50–15:20

-
- 474 14:30 A new insight into the origins of the IVIM signal**

G. Fournet¹, J.R. Li², A. Cerjanic³, B. Sutton³, D. Le Bihan¹, L. Ciobanu¹;

¹CEA Saclay, Neurospin, Gif-Sur-Yvette/FRANCE, ²INRIA Saclay, CMAP, Palaiseau/FRANCE,

³Beckman Institute of Advanced Science and Technology, University of Illinois, Urbana/IL/United States of America

MEET THE AUTHOR in the EPOS™ Area at PC#14, on Oct. 3, 14:50–15:20

475 14:32

MR protocol optimization for rodent model of middle cerebral artery occlusion for drug discovery and early preclinical trials

A. Kutasheva¹, I. Gubskiy¹, D. Namestnikova¹, L.V. Gubsky¹, V. Pogoreltsev¹, M.V. Gulyaev², Y.A. Pirogov³; ¹Department of Fundamental and Clinical Neurology and Neurosurgery, Pirogov Russian National Research Medical University, Moscow/RUSSIAN FEDERATION, ²Faculty of Fundamental Medicine, Lomonosov Moscow State University, Moscow/RUSSIAN FEDERATION, ³Faculty of Physics, Lomonosov Moscow State University, Moscow/RUSSIAN FEDERATION

MEET THE AUTHOR in the EPOS™ Area at PC#15, on Oct. 3, 14:50–15:20

476 14:34



Certificate
of Merit

MR Biomarkers in a Mouse Model of Vascular Cognitive Impairment

P. Boehm-Sturm¹, M. Füchtemeier¹, M. Foddis¹, M. Zille¹, S. Müller², R.C. Trueman³, I. Amat-Roldan⁴, U. Dirnagl¹, T.D. Farr³; ¹Department of Experimental Neurology, Charité University Medicine Berlin, Berlin/GERMANY, ²Center for Stroke Research, Charité University Medicine Berlin, Berlin/GERMANY, ³School of Life Sciences, Medical School, Queen's Medical Centre, University of Nottingham, Nottingham/UNITED KINGDOM, ⁴S.L., Expert Imaging, Barcelona/SPAIN

MEET THE AUTHOR in the EPOS™ Area at PC#16, on Oct. 3, 14:50–15:20

477 14:36

Simulation of Flow-Driven Adiabatic Inversion in Dual Coil Continuous ASL at 9.4 T

J. Bause¹, K. Scheffler², R. Pohmann¹; ¹High Field Magnetic Resonance Center, Max Planck Institute for Biological Cybernetics, Tuebingen/GERMANY, ²High Field MRI, Max Planck Institute for Biological Cybernetics, Tuebingen/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#17, on Oct. 3, 14:50–15:20

478 14:38

Quantitative rat lumbar spinal cord blood flow measurements using multi-slice arterial spin labelling at 9.4T

M. Tachroud¹, A. Davies², R. Desai², K. Smith², X. Golay¹, D. Thomas¹; ¹Department of Brain Repair and rehabilitation, UCL Institute of Neurology, London/UNITED KINGDOM, ²Department of Neuroinflammation, UCL Institute of Neurology, London/UNITED KINGDOM

MEET THE AUTHOR in the EPOS™ Area at PC#18, on Oct. 3, 14:50–15:20

479 14:40

Perfusion and interstitial pressure MRI to assess anti-vascular disrupting agents on CT26 mouse tumor models

G. Ramniceanu¹, J. Seguin², M. Grigahcine¹, D. Scherman¹, G. Chabot², B.-T. Doan¹; ¹UTCBS ENSCP, CNRS, Paris/FRANCE, ²UTCBS, Université de Pharmacie Paris Descartes, Paris/FRANCE

MEET THE AUTHOR in the EPOS™ Area at PC#19, on Oct. 3, 14:50–15:20

480 14:42

Longitudinal measurement of tissue perfusion in a rat model of magnesium based implants using arterial spin labeling

M. Meier¹, D. Haake²; ¹Imaging Center, Institute of Laboratory Animal Science, Hannover Medical School, Hannover/GERMANY, ²ZTL, MetBioMat, Hannover Medical School, Hannover/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#20, on Oct. 3, 14:50–15:20

Scientific Programme

SATURDAY, OCTOBER 3, 2015

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- 481 14:44 Comparison of the two-compartment exchange model and the two-compartment uptake model in quantitative DCE-MRI of rectal cancer**

T. Gaa¹, S. Sudarski², F. Lietzmann¹, L.R. Schad¹, F.G. Zoellner¹; ¹Computer Assisted Clinical Medicine, Heidelberg University, Medical Faculty Mannheim, Mannheim/GERMANY,

²Institute of Clinical Radiology and Nuclear Medicine, Heidelberg University, Medical Faculty Mannheim, Mannheim/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#21, on Oct. 3, 14:50–15:20

-
- 482 14:46 Investigation and minimisation of the sources of image artefact in 3D-GRASE ASL of the kidney**

F. Nery¹, E. De Vita², J.A. Steeden³, C.A. Clark¹, I. Gordon¹, D. Thomas⁴;

¹Developmental Imaging and Biophysics Section, UCL Institute of Child Health, London/

UNITED KINGDOM, ²Lysholm Department of Neuroradiology, National Hospital for Neurology and Neurosurgery, London/UNITED KINGDOM, ³Cardiovascular Imaging Group, UCL Institute of Cardiovascular Science, London/UNITED KINGDOM, ⁴UCL Institute of Neurology, Department of Brain Repair and Rehabilitation, London/UNITED KINGDOM

MEET THE AUTHOR in the EPOS™ Area at PC#22, on Oct. 3, 14:50–15:20

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- 483 WITHDRAWN**

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- 15:40–17:10 54 Teaching Session - Basic**

Pentland

Brain MR imaging ageing and neurodegeneration

Moderators: R. Steketee, Rotterdam/NL

E. Achten, Gent/BE

-
- 484 15:40 Age related brain changes**

M. Vernooij; Radiology and Epidemiology, Erasmus MC, Rotterdam/NETHERLANDS

-
- 485 16:10 Dementia**

S. Haller; Neuroradiology, University Hospital Geneva, Geneva/SWITZERLAND

-
- 486 16:40 Movement disorders**

D. Auer; University of Nottingham, Nottingham/UNITED KINGDOM

Pelvic tumours: technical optimization, planning and quality control

Moderators: V. Panov, Moscow/RU
P.P. Arcuri, Catanzaro/IT

487 15:40



Comparison of 1.5T and 3T prostate MR examination using surface array coils in routine clinical practice

Z. Ryznarova¹, M. Dezortova¹, F. Jiru¹, V. Vik², R. Zachoval², M. Hajek¹; ¹MR-Unit, Dept. Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, ²Dept. of Urology, Thomayer's Hospital, Prague/CZECH REPUBLIC

488 15:50



Focal Brachytherapy of Prostate: Evaluation of multi-modal registrations

C. Popotte¹, T. Brun¹, J.-M. Bachaud², P. Graff-Cailleaud², B. Malavaud², M. Delannes², D. Portalez³, R. Aziza³, R. Ferrand¹, S. Ken¹; ¹Radiotherapy and Medical Physics, Institut Universitaire du Cancer, Toulouse/FRANCE, ²Radiotherapy, Institut Universitaire du Cancer, Toulouse/FRANCE, ³Radiology, Institut Universitaire du Cancer, Toulouse/FRANCE

489 16:00



Simple quality control of 3D -1H MRSI data of the prostate using intrinsic spectral properties

J. Obels¹, N. Tayari², A. Heerschap²; ¹Department of Radiology, Radboud University Medical Center, Nijmegen/NETHERLANDS, ²Radiology and Nuclear Medicine, Radboud University Nijmegen Medical Center, Nijmegen/NETHERLANDS

490 16:10



Automatic Prostate Detection in MRI Surveys

P. Mazurkewitz¹, D. Bystrov¹, H.K. Agarwal², B.I. Turkbey³, P.L. Choyke³, J. Sénégas¹; ¹Research Laboratories Hamburg, Philips GmbH Innovative Technologies, Hamburg/GERMANY, ²Ultrasound Imaging and Interventions, Philips Research NA, Bathesda/MD/United States of America, ³National Cancer Institute, National Institutes of Health, Bethesda/MD/United States of America

491 16:20



Internal Markers in Prostate Cancer MR/CT: An Assessment of Spatial Registration and Detectability

M.M. Jafar, C. Briggs, C. Dean, M.E. Miquel; Clinical Physics, Bart's Health NHS Trust, London/UNITED KINGDOM

492 16:30



Model Selection Comparison in Dynamic Contrast Enhanced MRI of Patients with Locally Advanced Cervical Cancer

J.F. Kallehauge¹, K. Tanderup², J. Lindegaard², E.M. Pedersen³, J. Schnabel¹, M. Chappell¹; ¹Department of Engineering Science, Institute of Biomedical Engineering, University of Oxford, Oxford/UNITED KINGDOM, ²Department of Oncology, Aarhus University Hospital, Aarhus/DENMARK, ³Department of Radiology, Aarhus University Hospital, Aarhus/DENMARK

Scientific Programme

SATURDAY, OCTOBER 3, 2015

15:40–17:10 56 Scientific Session

Fantry

Flow measurement and modelling

Moderators: G. Orsi, Pécs/HU
N.N.

493 15:40 **Does extreme prematurity affect adult brain vessel compliance? A preliminary MRI study.**



I. Huen¹, J. Beckmann², Y. Suzuki³, M.A. Zuluaga⁴, A. Melbourne⁴, M.J.P. Van Osch⁵, D. Atkinson⁶, S. Ourselin⁴, N. Marlow², X. Golay¹; ¹Institute of Neurology, University College London, London/UNITED KINGDOM, ²Institute for Women's Health, University College London, London/UNITED KINGDOM, ³Philips Medical Systems, Philips, Tokyo/JAPAN, ⁴Centre for Medical Image Computing, University College London, London/UNITED KINGDOM, ⁵C.J. Gorter Center for High Field MRI, Leiden University Medical Center, Leiden/NETHERLANDS, ⁶Center for Medical Imaging, University College London, London/UNITED KINGDOM

494 15:50 **Expansive Arterial Remodeling of the Carotid Arteries and its Effect on Atherosclerotic Plaque Composition and Vulnerability:**

An in vivo Black-Blood 3T MRI Study in Symptomatic Stroke Patients

A. Helck¹, M. Habs², M. Buchholz¹, K. Nikolaou³, M. Reiser¹, T. Saam¹; ¹University Hospital Munich Campus Grosshadern, Institute for Clinical Radiology, Munich/GERMANY, ²Ludwig-Maximilians-University Hospital, Department of Neurology, Munich/GERMANY, ³Department of Radiology, University Hospital of Tübingen, Tübingen/GERMANY

495 16:00 **In vivo Streamline Vorticity Analysis of Cardiac Flow using 4D PC MRI**

P.R. Bovenkamp¹, T. Brix², A. Scherzinger², K. Hinrichs², V. Hoerr³; ¹Department of Clinical Radiology, University Hospital Muenster, Muenster/GERMANY, ²Department of Computer Science, University of Muenster, Muenster/GERMANY, ³Institute of Medical Microbiology, Jena University Hospital, Jena/GERMANY

496 16:10 **Automated Centerline-Based Modeling of Tubular Blood-Vessel Segments from 3D MRA**



M. Kocinski¹, J. Blumenfeld¹, A. Materka¹, A. Deistung², B. Serres², J.R. Reichenbach²; ¹Institute of Electronics, Lodz University of Technology, Lodz/POLAND, ²Medical Physics Group, Friedrich Schiller University, Jena/GERMANY

497 16:20 **Wall Shear Stress obtained by NMR Microscopy in different Aneurysms**



D. Edelhoff¹, M. Heil¹, L. Walczak², F. Weichert², D. Suter¹; ¹Experimental Physics III, TU Dortmund, Dortmund/GERMANY, ²Computer Sience VII, TU Dortmund, Dortmund/GERMANY

498	16:30	Extension of an MRI simulator software for angiographic experiments A. Fortin ¹ , E. Durand ² , S. Salmon ³ , J. Baruthio ⁴ , M. Delbary ⁴ ; ¹ URCA - Sciences Exactes et Naturelles, Laboratoire de Mathématiques de Reims, Reims/FRANCE, ² Université Paris-Sud XI, IR ⁴ M, Orsay/FRANCE, ³ URCA - Sciences exactes et naturelles, Laboratoire de Mathématiques, Reims/FRANCE, ⁴ Université de Strasbourg, ICube, Strasbourg/FRANCE
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499	16:40	A Novel Flow Phantom for the Quantitative Evaluation of Prostate DCE-MRI Techniques S.P. Knight , J.F. Meaney, A.J. Fagan; School of Medicine, Trinity College University of Dublin / National Centre for Advanced Medical Imaging (CAMI), Dublin/IRELAND
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500	16:50	Time-resolved Volumetric MRI Velocimetry of Periodic Flow in a Carotid Bifurcation (the model study) A. Boiko ¹ , A. Akulov ² , A. Chupakhin ³ , A. Cherevko ³ , N. Denisenko ⁴ , A.A. Savelov ⁵ , A. Khe ³ , A. Yanchenko ⁴ , Y. Stankevich ⁵ , A. Tulupov ⁵ ; ¹ Aerophysical studies of subsonic flows, Institute of Theoretical and Applied Mechanics SB RAS, Novosibirsk/RUSSIAN FEDERATION, ² SPF Animal Facility (shared center), Institute of Cytology and Genetics SB RAS, Novosibirsk/RUSSIAN FEDERATION, ³ Laboratory of differential equations, Lavrentyev Institute of Hydrodynamics SB RAS, Novosibirsk/RUSSIAN FEDERATION, ⁴ Department of mathematics, Novosibirsk State University, Novosibirsk/RUSSIAN FEDERATION, ⁵ Laboratory «MRT TECHNOLOGIES», The Institute International Tomography Center of the Russian Academy of Sciences, Novosibirsk/RUSSIAN FEDERATION
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15:40–17:10	57 Scientific Session Systems engineering	Tinto
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Moderators: E. Atalar, Ankara/TR
R. Bowtell, Nottingham/UK

501	15:40	Feasibility of Z-Gradient Array For Variable Volume Of Interest S. Taraghinia ¹ , K. Ertan ² , E. Atalar ³ ; ¹ EE, UMRAM- Bilkent University, Ankara/TURKEY, ² National Magnetic Resonance Research Center, UMRAM, Bilkent University, Ankara/TURKEY, ³ Electrical and Electronics Engineering, Bilkent University, Ankara/TURKEY
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502	15:50	Experimental MRI-SPECT insert system with Hybrid Semiconductor detectors Timepix for MRI animal scanner J. Zajíček ¹ , M. Burian ² , P. Soukup ¹ , J. Jakůbek ¹ ; ¹ Department of Applied Physics and Technology, Institute of Experimental and Applied Physics, Prague/CZECH REPUBLIC, ² MR-Unit, Dept. Diagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC
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503	16:00	Spherical droplet design and adiabatic excitation for enhanced performance of NMR field probes J. Nussbaum , S. Gross, C. Barmet, M. Weiger, D. Brunner, T. Schmid, K. Pruessmann; Institute for Biomedical Engineering, University of Zurich and ETH Zurich, Zurich/SWITZERLAND
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Scientific Programme

SATURDAY, OCTOBER 3, 2015

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- 504 16:10 Enabling simultaneous and interleaved multi-nuclear acquisition on a clinical MR scanner**



M. Meyerspeer¹, A.I. Schmid¹, E. Moser¹, R. Gruetter², A.W. Magill²; ¹*Center for Medical Physics and Biomedical Engineering, Medical University of Vienna, Vienna/AUSTRIA,*
²*Laboratory of functional and metabolic imaging, École Polytechnique Fédérale de Lausanne, Lausanne/SWITZERLAND*

-
- 505 16:20 Investigation of a Voltage Probe for Cartesian Feedback Power Amplifier Used in 7T Parallel Transmit MRI**



M. Parsamoghadam, S. Shooshtary, K. Solbach; *Duisburg_Essen University, Institute of Microwave and RF Technology, Duisburg/GERMANY*

-
- 506 16:30 B₀ shimming at 9.4T with multicoil approach - numerical investigation of different coil geometries**

I. Zivkovic, C. Mirkes, G. Shajan, K. Scheffler; *High Field MRI, Max Planck Institute for Biological Cybernetics, Tuebingen/GERMANY*

-
- 507 16:40 A dedicated neonatal magnetic resonance brain imaging system**



E. Hughes¹, T. Winchmann², L. Mager³, J. Wurie¹, M. Sharma¹, M. Fox¹, J. Allsop¹, F. Padormo¹, T. Arichi¹, N. Tusor¹, C. Kelly¹, M. Barnett¹, A. Kapetanakis⁴, M. Krishnan¹, A. Price¹, R.P.A..G. Teixeira¹, A. Bequir¹, J. Hutter¹, M. Rutherford¹, S. Counsell¹, D. Edwards⁵, J. Hajnal¹; ¹*Department of Biomedical Engineering / Centre for the Developing Brain, King's College London, London/UNITED KINGDOM*, ²*Customised solutions, Rapid Biomedical GmbH, Rimpar/GERMANY*, ³*International sales, Pearltac AG, Zurich/SWITZERLAND*, ⁴*Evelina London Children's Hospital, St Thomas Hospital, London/UNITED KINGDOM*, ⁵*Department of Perinatal Imaging & Health / Centre for the Developing Brain, King's College London, London/UNITED KINGDOM*

-
- 508 16:50 Enabling Nuclear Quadrupole Double Resonance capabilities for Fast Field-Cycling MRI.**



N. Payne, L. Broche, D.J. Lurie; *Aberdeen Biomedical Imaging Centre, University of Aberdeen, Aberdeen/UNITED KINGDOM*

15:40–16:40 58 Lightning Talk

Kilsyth

MR spectroscopy

Moderators: J. Machann, Tübingen/DE
N.N.

509 15:40

Concentric rings with FID acquisition in ^{13}C hyperpolarized studies

K. Lorenc¹, C. Laustsen², H. Stødkilde-Jørgensen², R.F. Schulte³, ¹Department of Engineering of Nervous and Muscular System, Nalecz Institute of Biocybernetics and Biomedical Engineering PAS, Warsaw/POLAND, ²MR Research Center, Aarhus University, Aarhus/DENMARK, ³Diagnostics and Biomedical Technologies, GE Global Research, Munich/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#1, on Oct. 3, 16:40–17:10

510 15:42

Direct arterial injection of hyperpolarised compounds into tumour tissue enables rapid detection of metabolism with minimal dilution

S. Reynolds¹, S. Metcalf², R. Collins³, E. Cochrane³, S. Jones³, M.N. Paley¹, G.M. Tozer², ¹Academic unit of Radiology, University of Sheffield, Sheffield/UNITED KINGDOM, ²Department of Oncology, University of Sheffield, Sheffield/UNITED KINGDOM, ³Department of Chemistry, University of Sheffield, Sheffield/UNITED KINGDOM

MEET THE AUTHOR in the EPOS™ Area at PC#2, on Oct. 3, 16:40–17:10

511

WITHDRAWN

512 15:44

Effect of developmental administration of antidepressant venlafaxine on neurochemical profile after acute stress in adult rat offspring.

In vivo ^1H MRS study

S. Kasparová¹, R. Tušková²; ¹Faculty of food and chemical technology, Slovak University of Technology, Bratislava/SLOVAK REPUBLIC, ²Faculty of food&chemical technology, Slovak University of Technology, Bratislava/SLOVAK REPUBLIC

MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 16:40–17:10

513 15:46

A Case of Beneficial Effects of High Fat Diet on the Brain: A Magnetic Resonance and Behavioral Study in Wistar Rats.

S. Gazdzinski¹, Z. Setkowicz², J. Osoba², K. Karwowska², P. Majka³, B. Kossowski³, J. Orzel⁴, P. Bogorodzki⁴; ¹Flight Safety, Military Institute of Aviation Medicine, Warsaw/POLAND, ²Neurobiology, Jagiellonian University, Krakow/POLAND, ³Computer Science, Nencki Institute for Experimental Biology, Warsaw/POLAND, ⁴Institute of Radioelectronics, Warsaw University of Technology, Warsaw/POLAND

MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 16:40–17:10

514 15:48

T_1 and T_2 Relaxation Times of the infused Ace in Rat Brain in vivo at 14.1 Tesla

M. Dehghani¹, N. Kunz², R. Gruetter³; ¹Ecole Polytechnique Fédérale de Lausanne, Laboratory for Functional and Metabolic Imaging, Lausanne/SWITZERLAND, ²Centre d'imagerie biomédicale, Ecole Polytechnique Fédérale de Lausanne, Lausanne/SWITZERLAND, ³Laboratory of Functional and Metabolic Imaging (LIFMET), Ecole Polytechnique Fédérale de Lausanne, Lausanne/SWITZERLAND

MEET THE AUTHOR in the EPOS™ Area at PC#4, on Oct. 3, 16:40–17:10

Scientific Programme

SATURDAY, OCTOBER 3, 2015

-
- 515 15:50 **Detection by ^1H magnetic resonance spectroscopy of novel cross talk between bioenergetic and phosphatidylcholine metabolism in human glioma cells**

M. Rinaudo¹, L. Mercurio¹, S. Cecchetti¹, **M.J. Caramujo**¹, G. Carpinelli¹, S. Indraccolo², F. Podo¹, E. Iorio¹; ¹Cell Biology and Neurosciences, Istituto Superiore di Sanità, Roma/ITALY, ²Immunologia e Diagnostica Molecolare Oncologica, Istituto Oncologico Veneto, Padova/ITALY

MEET THE AUTHOR in the EPOS™ Area at PC#5, on Oct. 3, 16:40–17:10

- 516 15:52 **Non-canonical Wnt5a signalling is associated with EMT and Metabolic alterations in human Prostate Cancer**

E. Sandsmark¹, A.F. Hansen¹, H. Bertilsson², K.M. Selhæs¹, A.J. Wright³, K. Axcrona⁴, A.M. Bofin⁵, T.F. Bathan¹, M.B. Rye⁴, M.-B. Tessem¹; ¹Department of Circulation and Medical Imaging, Norwegian University of Science and Technology, Trondheim/NORWAY, ²Department of Urology, St.Olavs Hospital, Trondheim/NORWAY, ³Cancer Research UK Cambridge Institute, University of Cambridge, Cambridge/UNITED KINGDOM, ⁴Department of Cancer Research and Molecular Medicine, Norwegian University of Science and Technology, Trondheim/NORWAY, ⁵Department of Laboratory Medicine, Children's and Women's health, Norwegian University of Science and Technology, Trondheim/NORWAY

MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 16:40–17:10

- 517 15:54 **Optimal phased-array signal combination strategies from separate coil elements for GABA spectroscopy**

D. Hong¹, J.-W. Thielen¹, S. Rohani¹, D.G. Norris²; ¹Erwin L. Hahn Institute for Magnetic Resonance Imaging, University of Duisburg-Essen, Essen/GERMANY, ²MR Methods, Donders Centre for Cognitive Neuroimaging, Nijmegen/NETHERLANDS

MEET THE AUTHOR in the EPOS™ Area at PC#6, on Oct. 3, 16:40–17:10

- 518 15:56 **Fast Phosphorus MR Spectroscopic Imaging of Brain Tumors in vivo with Five Fold Scan Time Reduction Using Compressed Sensing at 3T**

E. Okeer¹, H. Hatay², M. Yildirim³, **E. Ozturk-Isik**², B. Hakyemez¹; ¹Department of Radiology, Uludag University, Bursa/TURKEY, ²Biomedical Engineering Institute, Bogazici University, Istanbul/TURKEY, ³Advanced Diagnostic Imaging, Philips Healthcare, Best/NETHERLANDS

MEET THE AUTHOR in the EPOS™ Area at PC#7, on Oct. 3, 16:40–17:10

- 519 15:58 **Short duration water suppression using optimised flip angles (SODA) at ultra high fields**

I.A. Giapitzakis, S. Nassirpour, A. Henning; *High-Field Magnetic Resonance, Max Planck Institute for Biological Cybernetics, Tübingen/GERMANY*

MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 16:40–17:10

520 16:00 **Subject Motion in MRS: Evaluating the Reliability in Concentrations Determined at 3 T**

S. Tapper¹, A. Tisell¹, P. Lundberg²; ¹Center for Medica Image Science and Visualization, Linköping University, Linköping/SWEDEN, ²Radiation Physics, Linköping University, Linköping/SWEDEN

MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 16:40–17:10

521 16:02 **Necessity of tissue volume composition correction for internal referencing**

N. Zoelch¹, A. Hock², A. Henning³; ¹Institute for Biomedical Engineering, UZH and ETH Zurich, Zurich/SWITZERLAND, ²Department of Psychiatry, Psychotherapy and Psychosomatics Hospital of Psychiatry, University of Zurich, Zurich/SWITZERLAND, ³High-Field Magnetic Resonance, Max Planck Institute for Biological Cybernetics, Tübingen/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#8, on Oct. 3, 16:40–17:10

522 16:04 **A parallel transmit spectral-spatial pulse design method for ultra-high field MRS combining LSQR and optimal control based optimization**

T. Shao¹, Y. Zhang², N.I. Avdievich¹, S. Glaser², A. Henning¹; ¹High-field Magnetic Resonance, Max Planck Institute for Biological Cybernetics, Tübingen/GERMANY, ²Department of Chemistry, Technical University of Munich, Garching/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#9, on Oct. 3, 16:40–17:10

523 16:06 **Robust Quantitation of Brain Lactate in edited MR Single Voxel Spectroscopy using LCModel.**

J.J. Van Asten, E.C. Wiegers, A. Heerschap; Radiology and Nuclear Medicine, Radboud University Nijmegen Medical Center, Nijmegen/NETHERLANDS

MEET THE AUTHOR in the EPOS™ Area at PC#10, on Oct. 3, 16:40–17:10

524 16:08 **MEGA-PRESS for in vivo assessing glutathione inter-regional differences in human brain at 3T**

A. Bucur¹, F. Sanaei-Nezhad², B. Deakin¹, S.R. Williams²; ¹Neuroscience and Psychiatry Unit, University of Manchester, Manchester/UNITED KINGDOM, ²Centre for Imaging Sciences, University of Manchester, Manchester/UNITED KINGDOM

MEET THE AUTHOR in the EPOS™ Area at PC#11, on Oct. 3, 16:40–17:10

525 16:10 **Glutathione measurement using short-TE 1H MRS at 3T: accuracy and precision assessment**

L. Xin, R. Gruetter; Laboratory of functional and metabolic imaging, École Polytechnique Fédérale de Lausanne, Lausanne/SWITZERLAND

MEET THE AUTHOR in the EPOS™ Area at PC#12, on Oct. 3, 16:40–17:10

526 16:12 **Reproducible GABA and Glx – Scan time considerations**

M.K. Brix¹, L. Ersland², M.K. Beyer³, K. Hugdahl⁴, R. Grüner¹, G. Dwyer⁴, R. Noeske⁵, J. Evans⁶, A.R. Craven⁴; ¹Radiology Department, Haukeland University Hospital, Bergen/NORWAY, ²Department of Clinical Engineering, Haukeland University Hospital, Bergen/NORWAY, ³Department of Biological and Medical Psychology, Oslo University Hospital, Oslo/NORWAY, ⁴Department of Biological and Medical Psychology, University of Bergen, Bergen/NORWAY, ⁵MR Applications and Workflow Development, GE Healthcare, Berlin/GERMANY, ⁶CUBRIC, School of Psychology / Ysgol Seicoleg, Cardiff University / Prifysgol Caerdydd, Cardiff/UNITED KINGDOM

MEET THE AUTHOR in the EPOS™ Area at PC#13, on Oct. 3, 16:40–17:10

Scientific Programme

SATURDAY, OCTOBER 3, 2015

-
- 527 16:14 Reduced GABA in the left anterior cingulate of subjects with ultra-high-risk of schizophrenia**
P.E. Menschikov¹, M.V. Ublinskiy², T. Akhakov³, N.A. Semenova¹;
¹Russian Academy of Sciences, N. N. Semenov Institute of Chemical Physics, Moscow/
RUSSIAN FEDERATION, ²Russian Academy of Sciences, N.M.Emanuel Institute of Biochemical
Physics, Moscow/RUSSIAN FEDERATION, ³Ministry of Healthcare of Russia, NRI of Children
Emergent Surgery and Trauma, Moscow/RUSSIAN FEDERATION
MEET THE AUTHOR in the EPOS™ Area at PC#14, on Oct. 3, 16:40–17:10
-
- 528 16:16 Ongoing pain intensity is associated with cingulate GABA and NAA in osteoarthritis**
D. Reckziegel, F. Raschke, W.J. Cottam, D.P. Auer; School of Medicine, University of
Nottingham, Nottingham/UNITED KINGDOM
MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 16:40–17:10
-
- 529 16:18 Quantification of intramyocellular pH using 1H MRS carnosine at 7T**
L. Valkovic¹, I. Just Kukurova¹, B. Ukropcova², M. Tušek Jelenc¹, M. Chmelík¹,
J. Ukorpec², S. Trattnig¹, M. Krssak³; ¹High Field MR Centre, Department of Biomedical
Imaging and Image-Guided Therapy, Medical University of Vienna, Vienna/AUSTRIA, ²Institute
of Experimental Endocrinology, Slovak Academy of Sciences, Bratislava/SLOVAK REPUBLIC,
³Department of Internal Medicine III, Medical University of Vienna, Vienna/AUSTRIA
MEET THE AUTHOR in the EPOS™ Area at PC#15, on Oct. 3, 16:40–17:10
-
- 530 16:20 In vivo H-1 MR spectroscopy for oral cancer by one-dimensional chemical shift imaging at 3.0 Tesla--- from bench to bedside**
C.-H. Chen¹, C.-K. Wang², ¹Department of Ophthalmology, Kaohsiung Medical University
Chung-Ho Memorial Hospital, Kaohsiung/TAIWAN, ²Department of Radiology, National Cheng
Kung University Hospital, Tainan/TAIWAN
MEET THE AUTHOR in the EPOS™ Area at PC#16, on Oct. 3, 16:40–17:10
-
- 531 WITHDRAWN**
-
- 532 16:22 Localized ³¹P MRS reveals increased hepatic NADPH following 4 week of oral fructose challenge in healthy volunteers**
M. Gajdosik¹, C. Kienbacher², M. Chmelik¹, L. Valkovic¹, S. Traussnigg²,
M. Krebs³, M. Trauner², S. Trattnig¹, M. Krssak¹; ¹High-Field MR Center, Department of
Biomedical Imaging and Image-guided Therapy, Medical University of Vienna, Vienna/AUSTRIA,
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University of Vienna, Vienna/AUSTRIA, ³Division of Endocrinology & Metabolism, Department of
Internal Medicine III, Medical University of Vienna, Vienna/AUSTRIA
MEET THE AUTHOR in the EPOS™ Area at PC#17, on Oct. 3, 16:40–17:10

533 16:24 Metabolic profile of liver damage in hepatitis C and autoimmune hepatitis: a proton decoupled ^{31}P -MRS study

A. Hakkarainen¹, L. Puustinen², U. Nieminen², P. Arkkila², N. Lundbom³,

¹Radiology, Medical Imaging Center, Espoo/FINLAND, ²Gastroenterology, Helsinki University Central Hospital, Helsinki/FINLAND, ³Radiology, Medical Imaging Center, Helsinki/FINLAND

MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 16:40–17:10

534 16:26 Determination of ATP synthesis and CK exchange rate constants and metabolic fluxes in gastrocnemius muscle at rest and during exercise by DRESS localized ^{31}P -MRS FAST at 7T

M. Tušek Jelenc¹, M. Chmelík¹, W. Bogner¹, M. Krssak¹, S. Trattnig², L. Valkovic¹,

¹High Field MR Centre, Department of Biomedical Imaging and Image-guided Therapy, Medical University of Vienna, Vienna/AUSTRIA, ²High Field MR Centre, Department of Biomedical Imaging and Image-Guided Therapy, Medical University of Vienna, Vienna/AUSTRIA

MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 16:40–17:10

535 16:28 Saturation-transfer effects and longitudinal relaxation times of ^{31}P metabolites in the healthy human breast at 7 tesla.

W.J. Van Der Kemp, J.P. Wijnen, P.R. Luijten, D.W. Klomp; Radiology, UMC Utrecht, Utrecht/NETHERLANDS

MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 16:40–17:10

536 16:30 Towards direct detection of natural abundance glycogen C₂-C₆ resonances by localized ^{13}C MRS at 7T

E. Serés Roig, L. Xin, R. Gruetter; CIBM - LIFMET, Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne/SWITZERLAND

MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 16:40–17:10

537 16:32 Proton Nuclear Magnetic Resonance (1H NMR) spectroscopy for diagnosis and evaluation of treatment efficiency in Parkinson's disease.

C. Chassain¹, L. Mazuel², A. Cladière³, C. Speziale³, B. Jean³, F. Durif⁴,

¹MRI, CHU Gabriel Montpied Clermont-Ferrand, Clermont-Ferrand/FRANCE, ²UM5536

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MEET THE AUTHOR in the EPOS™ Area at PC#18, on Oct. 3, 16:40–17:10

538 16:34 Highlighting differences between GBM and brain metastasis using a blind source separation method applied to MRSI data

N.M. Pedrosa-De-Barros¹, V. Mocioiu², S. Ortega-Martorell³, U. Knecht¹,

C. Arus², J. Slotboom¹, M. Julià-Sapé⁴; ¹University Institute for Diagnostic and Interventional Neuroradiology, Inselspital, Bern/SWITZERLAND, ²Unit of the Biochemistry and Molecular Biology Department - "Grup d'Aplicacions Biomèdiques de la Ressonància Magnètica Nuclear, Universitat Autònoma de Barcelona, Cerdanyola De Valles/SPAIN, ³School of Computing and Mathematical Sciences, Liverpool John Moores University, Liverpool/UNITED KINGDOM, ⁴Bioquímica i Biologia Molecular, UAB, CIBER-BBN, Cerdanyola Del Vallès/SPAIN

MEET THE AUTHOR in the EPOS™ Area at PC#19, on Oct. 3, 16:40–17:10

Scientific Programme

SATURDAY, OCTOBER 3, 2015

17:20–18:20 59 Roundtable Discussion

Sidlaw

Incidental findings

Moderator: A. van der Lugt, Rotterdam/NL

540 Panellist - The research study perspective

A. Jackson; Biomedical Engineering, Imaging Science, Manchester/UNITED KINGDOM

541 Panellist - The screening perspective

C. Schlett; Heidelberg/GERMANY

542 Panellist - The ethical perspective

C.O. Schmidt; Ernst-Moritz-Arndt-Universität, Universität Greifswald/GERMANY

Scientific Programme

EPOS™ POSTERS

Animal models: body

543 Optimization of contrast-enhanced MRI of pancreas and pancreatic tumours in mice

A.-T. Perles-Barbacaru¹, A. Collignon², S. Robert³, F. Silvy², S. Germain², S. Garcia⁴, D. Lombardo², E. Mas², E. Beraud², **A. Viola¹**; ¹CRMBM UMR CNRS 7339, Aix-Marseille Université/CNRS, Marseille/FRANCE, ²CRO2, Inserm, UMR_S_911, Aix-Marseille Université/INSERM, Marseille/FRANCE, ³Inserm, UMR_S_1076, Aix-Marseille Université/INSERM, Marseille/FRANCE, ⁴Hôpital Nord, Laboratoire d'Anatomie-Pathologie, Aix-Marseille Université/AP-HM, Marseille/FRANCE

MEET THE AUTHOR in the EPOS™ Area at PC#20, on Oct. 3, 12:20–12:50

544 MR elastography of visceral and subcutaneous fat : preliminary results in foz/foz mice undergoing obesity-induced inflammation

P. Garteiser¹, B. Leporq¹, C. Coulon¹, I.A. Leclercq², B.E. Van Beers¹; ¹Center For Research on Inflammation, INSERM U1149, Paris/FRANCE, ²Laboratory of hepato-gastroenterology, Institut de Recherche Expérimentale et Clinique, Université Catholique de Louvain, Brussels/BELGIUM

MEET THE AUTHOR in the EPOS™ Area at PC#21, on Oct. 3, 12:20–12:50

545 3D quantitative T₁ and T₂ measurements of the rabbit abdominal aorta at clinical 7T

A. Saarig¹, B.F. Coolen¹, H. Dyvorne¹, B. Zhang¹, G.J. Strijkers², W.J.M. Mulder¹, A.J. Nederveen³, Z.A. Fayad¹, C. Calcagno¹; ¹TMI, Department of Radiology, Icahn School of Medicine at Mount Sinai, New York/NY/United States of America, ²Department of Biomedical Engineering and Physics, Academic Medical Center, Amsterdam/NETHERLANDS, ³Department of Radiology, Academic Medical Center, Amsterdam/NETHERLANDS

MEET THE AUTHOR in the EPOS™ Area at PC#22, on Oct. 3, 12:20–12:50

546 2D and 3D-MR-microscopy based anatomy vs. histology on tendons: a juvenile pig animal model

A. Berg¹, X. Deligianni², O. Bieri², M. Dedeyan³, M. Pretterklieber³; ¹Center for Medical Physics and Biomedical Engineering, MR-CE, Medical University of Vienna, Vienna/AUSTRIA, ²Division of Radiological Physics, Department of Radiology, University of Basel Hospital, Basel/SWITZERLAND, ³Center of Anatomy and Cell Biology; Department of Applied Anatomy, Medical University of Vienna, Wien/AUSTRIA

MEET THE AUTHOR in the EPOS™ Area at PC#23, on Oct. 3, 12:20–12:50

547 Multimodal imaging of pancreatic islets transplanted into the artificial scaffolds

A. Galisova¹, E. Fabryova², D. Jirák³, V. Herynek³, L. Kosinova², M. Jiratova², J. Kriz², M. Hajek³; ¹First Faculty of Medicine, Charles University in Prague, Prague/CZECH REPUBLIC, ²Center of Experimental Medicine, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, ³MR Unit, Department of Radiodiagnostic and Interventional Radiology, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC

MEET THE AUTHOR in the EPOS™ Area at PC#24, on Oct. 3, 12:20–12:50

Scientific Programme

EPOS™ POSTERS

548 Therapeutic effects of cannabidiol on acute reperfused myocardial infarction in rabbits: evaluated with 3.0T cMRI and histopathology

Y. Feng¹, T. Yin², Q. Xia³, Y. Liu¹, R. Oyen⁴, Y. Ni¹; ¹Department of Imaging and Pathology, University Hospital Gasthuisberg, Leuven, Belgium, KULeuven, Leuven/BELGIUM, ²Department of Imaging and Pathology, University Hospital Gasthuisberg, Leuven, Belgium, KULeuven, Leuven/BELGIUM, ³Department of Nuclear Medicine, Ren Ji Hospital, Shanghai Jiao Tong University, Shanghai/CHINA, ⁴Department of Imaging and Pathology, University Hospital Gasthuisberg, Leuven, Belgium, KULeuven, Leuven/BELGIUM

MEET THE AUTHOR in the EPOS™ Area at PC#25, on Oct. 3, 12:20–12:50

Animal models: brain

549 Design and use of a non invasive head restraint system for MRI of the non human primates

F. Balezeau, H. Slater, O. Joly, A. Milne, A. Thiele, T. Griffiths, C. Petkov; Institute of Neuroscience, Newcastle University, Newcastle Upon Tyne/UNITED KINGDOM

MEET THE AUTHOR in the EPOS™ Area at PC#10, on Oct. 1, 13:00–13:30

550 Imaging life-span changes in myelin content of the marmoset brain

F. Rémy¹, N. Vayssière¹, D. Matéo¹, A. Sadoun¹, L. Risser², M. Mescam¹, K. Strelníkova¹, C. Fonta¹; ¹Centre de Recherche Cerveau et Cognition, CNRS, Toulouse/FRANCE, ²Toulouse Mathematics Institute, CNRS, Toulouse/FRANCE

MEET THE AUTHOR in the EPOS™ Area at PC#11, on Oct. 1, 13:00–13:30

551 Structural covariance networks of the mouse brain

M. Paganini, A. Bifone, A. Gozzi; CNCS, Istituto Italiano di Tecnologia, Rovereto/ITALY

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

552 Neuronal Marker Recovery after Simvastatin Treatment in the Rat Brain Dementia

R. Tušková¹, B. Lipták², M. Dubovický², P. Szomolányi¹, S. Kasparová³; ¹High Field MR Centre, Department of Biomedical Imaging and Image-Guided Therapy, Medical University of Vienna, Vienna/AUSTRIA, ²Department of Toxicology and Laboratory Animals Breeding, Slovak Academy of Sciences, Institute of Experimental Pharmacology & Toxicology, Bratislava, Slovak Republic, Bratislava/SLOVAK REPUBLIC, ³Department of NMR Spectroscopy and Mass Spectroscopy, Slovak University of Technology in Bratislava, Faculty of Chemical and Food Technology, Institute of Analytical Chemistry, Bratislava, Slovak Republic, Bratislava/SLOVAK REPUBLIC

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

553 Longitudinal follow-up and characterization of brain lesions in mouse models of infectious diseases.

L. Vanherp, A. Hillen, G. Vande Velde, U. Himmelreich; Biomedical MRI, University of Leuven, Leuven/BELGIUM

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

554 Formaldehyde Fixation Kinetic of Whole Rat Brain by High Resolution 2.35 T MRI

T.M. Florio¹, B. Ranieri², I. Rosa², **A. Galante¹**, M. Alecci¹; ¹LNGS, INFN, L'Aquila/ITALY, ²Dept.

Life, Health and Environmental Sciences, University of L'Aquila, L'Aquila/ITALY

MEET THE AUTHOR in the EPOS™ Area at PC#15, on Oct. 1, 13:00–13:30

555 Neural and cognitive substrates of omega-3 fatty acid supplementation: a voxel-based morphometry study in aged mice.

M. Pagani¹, D. Cutuli², A. Liska¹, P. Caporali², D. Laricchiuta², F. Foti², C. Neri³, L. Petrosini³,

A. Gozzi¹; ¹CNCS, Istituto Italiano di Tecnologia, Rovereto/ITALY, ²University Sapienza, University

Sapienza, Rome/ITALY, ³Fondazione Santa Lucia, Fondazione Santa Lucia, Rome/ITALY

MEET THE AUTHOR in the EPOS™ Area at PC#16, on Oct. 1, 13:00–13:30

556 A novel theranostic formulation with remarkable anti-inflammatory effects

D. Calle-Hernandez¹, V. Negri², P. Ballesteros³, S. Cerdán¹; ¹Department of Experimental

Models of Human Diseases, Instituto de Investigaciones Biomédicas "Alberto Sols", Madrid/SPAIN,

²Experimental Animal Models for Human Diseases, Instituto de Investigaciones Biomédicas "Alberto Sols"

- CSIC, Madrid/SPAIN, ³Laboratory of Organic Synthesis and Molecular Imaging by NMR, Universidad

Nacional de Educación a Distancia, Madrid/SPAIN

MEET THE AUTHOR in the EPOS™ Area at PC#17, on Oct. 1, 13:00–13:30

557 Multiparametric magnetic resonance and phenotyping studies of a depression rat model: Identifying *in vivo* and *ex vivo* biomarkers

M. Antorán-Pilar, T. Navarro-Hernanz, R. Pérez-Carre, **P. López-Larrubia**; *Experimental*

models of human diseases, Instituto de Investigaciones Biomédicas, CSIC-UAM, Madrid/SPAIN

MEET THE AUTHOR in the EPOS™ Area at PC#18, on Oct. 1, 13:00–13:30

558 An fMRI study to describe the progression in the pain matrix after a somatosensory stimulus and nerve damage

R. Martin¹, S. Solis¹, M. Ortega², L. Magis³, A. Graff⁴, C. De La Fuente⁵, A.O. Rodriguez⁶,

F. Pellicer³; ¹Phys Dep, FC-UNAM, Df/MEXICO, ²School of Medicine, Emory University, Atlanta/United

States of America, ³Dirección de Investigaciones en Neurociencias, Instituto Nacional de Psiquiatría

Ramón de la Fuente, Df/MEXICO, ⁴Multimodal Neuroimaging Group, University of Toronto, Toronto/AB/

CANADA, ⁵Laboratorio de Psicología Experimental, Instituto Nacional de Neurología y Neurocirugía Manuel

Velasco Suárez, Df/MEXICO, ⁶Department of Electrical Engineering, Universidad Autónoma Metropolitana
Iztapalapa, Mexico Df/MEXICO

MEET THE AUTHOR in the EPOS™ Area at PC#19, on Oct. 1, 13:00–13:30

559 MRI reveals predisposition of P2X7 knockout mice for severe brain edema development after middle cerebral artery occlusion

M. Kaiser¹, **A. Penk²**, H. Franke¹, U. Krügel¹, W. Nörenberg¹, D. Huster², M. Schaefer¹;

¹Rudolf-Boehm-Institute of Pharmacology and Toxicology, University of Leipzig, Leipzig/GERMANY,

²Institute of Medical Physics and Biophysics, University of Leipzig, Leipzig/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#20, on Oct. 1, 13:00–13:30

Basic science: image analysis

560 WITHDRAWN

561 g-Factor map as regularization parameter for Compressed Sensing

M. Qureshi, Z. Bukhari, M. Kaleem, H. Omer; *EE Department, COMSATS Institute of Information Technology, Islamabad/PAKISTAN*

MEET THE AUTHOR in the EPOS™ Area at PC#21, on Oct. 3, 12:50–13:20

Scientific Programme

EPOS™ POSTERS

562 Optimizing the performance of GRAPPA using the spatial response function

M. Gutberlet¹, H. Köstler²; ¹Institute of Diagnostic and Interventional Radiology, Hannover Medical School, Hannover/GERMANY, ²Institute of Radiology, University of Würzburg, Würzburg/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#22, on Oct. 3, 12:50–13:20

563 WITHDRAWN

564 The impact of different physiological noise correction techniques in olfactory fMRI experiments at 3T

A. Cristobal-Huerta¹, E. Manzanedo¹, S. Borromeo², E. Molina², A.B. Solana³, A. Torrado-Carvajal², G. Luna², J.A. Hernández-Tamames²; ¹Medical Image Analysis Lab, Universidad Rey Juan Carlos, Mostoles/SPAIN, ²Medical Image Analysis and Biometry Lab, Universidad Rey Juan Carlos, Mostoles, Madrid/SPAIN, ³Global Research Centre, GE, Munich/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#24, on Oct. 3, 12:50–13:20

565 Artefact phantom for MR-guided interventions

R. Bahadir¹, M. Choli¹, K. Skopnik¹, J. Watzlaw², G. Schaefers³; ¹Consulting, MR:comp GmbH, Gelsenkirchen/GERMANY, ²Research, MR:comp GmbH, Gelsenkirchen/GERMANY, ³Services for MR Safety & Compatibility, MR:comp GmbH, Gelsenkirchen/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#25, on Oct. 3, 12:50–13:20

Basic science: intervention, safety, bioeffects, quality

566 Preliminary Results on the Simulation of Susceptibility Artifacts by Usage of Open-Source Software Only

E. Pannicke¹, M. Kaiser², G. Rose², R. Vick¹; ¹Chair of Electromagnetic Compatibility, Otto-von-Guericke University, Magdeburg/GERMANY, ²Department of Healthcare Telematics and Medical Engineering, Otto-von-Guericke University, Magdeburg/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#1, on Oct. 3, 12:50–13:20

567 Lead coupling with radiofrequency in active implanted medical device: impact of case impedance.

J. Kabil¹, A. Missoffe¹, P.-A. Vuissoz¹, C. Pasquier², J. Felblinger³; ¹Laboratoire IADI, Université de Lorraine, Nancy/FRANCE, ²U947, INSERM, Nancy/FRANCE, ³Imaging, CHU Nancy, Nancy/FRANCE

MEET THE AUTHOR in the EPOS™ Area at PC#2, on Oct. 3, 12:50–13:20

568 Investigation of MRI Switched Gradient Magnetic Field-Induced Heating of a Heart Valve Implant at 2.5 kHz

M. Abbas¹, I. Zainul², M. Kressmann¹, G. Schaefers³, D. Erni⁴; ¹Simulation, MR:comp GmbH, Gelsenkirchen/GERMANY, ²Numerical Simulation, MR:comp GmbH, Gelsenkirchen/GERMANY, ³Services for MR Safety & Compatibility, MR:comp GmbH, Gelsenkirchen/GERMANY, ⁴General and Theoretical Electrical Engineering, Duisburg-Essen University, Duisburg/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#3, on Oct. 3, 12:50–13:20

569 Impact of tissue properties on radiofrequency-induced ECG cable heating: a numerical study.

J. Kabil¹, T. Barbier¹, A. Missoffe¹, C. Pasquier², P.-A. Vuissoz¹, J. Felblinger³, ¹U947, INSERM, Nancy/FRANCE, ²Healtis, Company, Nancy/FRANCE, ³CIT-1433, INSERM, Nancy/FRANCE
MEET THE AUTHOR in the EPOS™ Area at PC#4, on Oct. 3, 12:50–13:20

570 Determination of a transmission line model of an insulated cable for radiofrequency interaction hazard evaluation

A. Missoffe¹, J. Kabil¹, J. Felblinger², C. Pasquier¹, P.-A. Vuissoz¹; ¹IADI U947, Université de Lorraine, Nancy/FRANCE, ²IADI U947, INSERM, Nancy/FRANCE
MEET THE AUTHOR in the EPOS™ Area at PC#5, on Oct. 3, 12:50–13:20

571 A Regularly Structured 3D Printed Grid Phantom for Quantification of MR Image Distortion

M.M. Jafar, C. Dean, M. Birch, M.E. Miquel; Clinical Physics, Bart's Health NHS Trust, London/UNITED KINGDOM
MEET THE AUTHOR in the EPOS™ Area at PC#17, on Oct. 3, 12:50–13:20

Basic science: molecular and cellular imaging

572 Optimization and Evaluation of Sugar-CEST-Imaging with a 3T MRI: A Phantom Study

F. Wickrath¹, D. Kessler¹, A. Müller-Lutz¹, B. Schmitt², H.-J. Wittsack¹; ¹Department of Diagnostic and Interventional Radiology, University Dusseldorf, Düsseldorf/GERMANY, ²Healthcare Sector, Siemens Ltd. Australia, Macquarie Park/NSW/AUSTRALIA
MEET THE AUTHOR in the EPOS™ Area at PC#17, on Oct. 3, 13:20–13:50

573 Development of a new diagnosis approach by MRI of papillary thyroid cancer using a vectorized contrast agent directed against galectin-1

D. Fanfone¹, N. Despretz¹, D. Stanicki¹, S. Laurent¹, R.N. Muller², L. Vander Elst¹, S. Saussez³, C. Burtea¹; ¹General, Organic and Biomedical Chemistry, University of Mons, Mons/BELGIUM, ²MRI and optical imaging, Center for Microscopy and Molecular Imaging, Gosselies/BELGIUM, ³Laboratory of Anatomy and Cell Biology, University of Mons, Mons/BELGIUM
MEET THE AUTHOR in the EPOS™ Area at PC#18, on Oct. 3, 13:20–13:50

Basic science: MR hardware

574 Travelling-wave surface antenna for 7T human brain MR imaging

O. Ipek, R. Gruetter; CIBM, EPFL, Lausanne/SWITZERLAND
MEET THE AUTHOR in the EPOS™ Area at PC#6, on Oct. 3, 12:50–13:20

575 SAR Study of a birdcage coil as a function of its rungs for rodent MRI at 7 T

A. Osorio¹, R. Martin¹, S. Solis¹, F. Vazquez¹, A.O. Rodriguez²; ¹Phys Dep, FC-UNAM, Df/MEXICO, ²Department of Electrical Engineering, Universidad Autonoma Metropolitana Iztapalapa, Mexico Df/MEXICO
MEET THE AUTHOR in the EPOS™ Area at PC#7, on Oct. 3, 12:50–13:20

576 Simulation of decoupling of an 8-element monopole head coil at 7 Tesla

C. Bruns, T. Herrmann, J. Mallow, J. Bernarding; Department of Biometrics and Medical Informatics, OVG University Magdeburg, Magdeburg/GERMANY
MEET THE AUTHOR in the EPOS™ Area at PC#8, on Oct. 3, 12:50–13:20

Scientific Programme

EPOS™ POSTERS

577 Optical for both active decoupling and conversion/transmission for a MR endoluminal coil

I. Saniour¹, R. Aydé¹, A.-L. Perrier², G. Gaborit³, **H. Dorez**¹, L. Duvillaret⁴, J. Dahdah⁴, R. Sablong¹, O. Beuf¹; ¹*MRI and optics, CREATIS, Villeurbanne/FRANCE*, ²*Radio Fréquences et Millimétrique, IMEP-LAHC, Le Bourget-Du-Lac/FRANCE*, ³*PHotonique, Optoélectronique Térahertz et Optomicroondes., IMEP-LAHC, Le Bourget-Du-Lac/FRANCE*, ⁴*Research, KAPTEOS, Sainte-Hélène-Du-Lac/FRANCE*

MEET THE AUTHOR in the EPOS™ Area at PC#9, on Oct. 3, 12:50–13:20

578 Volume coil with slotted end rings for MRI of turtle's head

S. Solis¹, R. Martin¹, F. Vazquez¹, G. Gutierrez-Ospina², **A.O. Rodriguez**³; ¹*Phys Dep, FC-UNAM, Df/MEXICO*, ²*Dep Celular Biology and Physiology, IIB-UNAM, Df/MEXICO*, ³*Department of Electrical Engineering, Universidad Autonoma Metropolitana Iztapalapa, Mexico Df/MEXICO*

MEET THE AUTHOR in the EPOS™ Area at PC#10, on Oct. 3, 12:50–13:20

579 4 coils varactor diodes controller for tuning and matching

Y. Pilloud¹, M. Dehghani², R. Gruetter³; ¹*Ecole Polytechnique Fédérale de Lausanne, Laboratory for Functional and Metabolic Imaging, Lausanne/SWITZERLAND*, ²*Ecole Polytechnique Fédérale de Lausanne, 1Laboratory for Functional and Metabolic Imaging, Lausanne/SWITZERLAND*, ³*Ecole Polytechnique Fédérale de Lausanne, Centre d'Imagerie Biomédicale, Lausanne/SWITZERLAND*

MEET THE AUTHOR in the EPOS™ Area at PC#11, on Oct. 3, 12:50–13:20

580 Comparison of different surface coils for imaging the iris of the mouse eye

S. Liang, H. Kolster, U. Himmelreich; *Biomedical NMR unit, Department of Imaging and Pathology, KU Leuven, Leuven/BELGIUM*

MEET THE AUTHOR in the EPOS™ Area at PC#12, on Oct. 3, 12:50–13:20

581 Optimization of receive coil and resonant circuit for hyperpolarized xenon imaging with ultra-low field MRI

T. Yamamoto, T. Oida, H. Natsukawa, I. Hilschenz, Y. Ito, T. Kobayashi; *Department of Electrical Engineering, Graduate School of Engineering, Kyoto University, Kyoto/JAPAN*

MEET THE AUTHOR in the EPOS™ Area at PC#13, on Oct. 3, 12:50–13:20

582 Development of a low cost multi-channel tune and match device for transceiver arrays at high magnetic fields

N.I. Avdievich, J. Walzog, T. Steffen, A. Henning; *High-Field Magnetic Resonance, Max Planck Institute for Biological Cybernetics, Tübingen/GERMANY*

MEET THE AUTHOR in the EPOS™ Area at PC#14, on Oct. 3, 12:50–13:20

583 Coupling between RF coils and a parallel-plate waveguide for travelling wave MRI at 128 MHz

F. Vazquez¹, S. Solis¹, R. Martin¹, A. Osorio¹, A.O. Rodriguez²; ¹Phys Dep, FC-UNAM, Df/MEXICO, ²Department of Electrical Engineering, Universidad Autonoma Metropolitana Iztapalapa, Mexico Df/MEXICO

MEET THE AUTHOR in the EPOST™ Area at PC#15, on Oct. 3, 12:50–13:20

584 Improved B₁ homogeneity for In Vivo Application of the Birdcage Coil Architecture at 7 T Ultra-High Field MRI

T. Herrmann¹, J. Mallow¹, C. Bruns², J. Stadler³, J. Bernarding¹; ¹Department of Biometrics and Medical Informatics, OvG University Magdeburg, Magdeburg/GERMANY, ²Department for Biometrics and Medical Informatics, OVG University Magdeburg, Magdeburg/GERMANY, ³Special Lab Non-Invasive Brain Imaging, Leibniz Institute for Neurobiology, Magdeburg/GERMANY

MEET THE AUTHOR in the EPOST™ Area at PC#16, on Oct. 3, 12:50–13:20

Basic science: MR spectroscopy

585 Chemometric analyses of rat ¹H spectra quantification at 7T: preliminary results

K. Makarova¹, Z. Setkowicz², **S. Gazdzinski**³; ¹Physical Chemistry, Medical University of Warsaw, Warsaw/POLAND, ²Neurobiology, Jagiellonian University, Krakow/POLAND, ³Flight Safety, Military Institute of Aviation Medicine, Warsaw/POLAND

MEET THE AUTHOR in the EPOST™ Area at PC#7, on Oct. 3, 13:20–13:50

586 ¹H MRS based measure of tissue fatty acid unsaturation is inversely related to lipid content in the liver of healthy humans.

M. Gajdosik¹, S. Smajis², C. Kienbacher³, M. Trauner³, M. Krebs², S. Trattning¹, M. Krssak²; ¹High-Field MR Center, Department of Biomedical Imaging and Image-guided Therapy, Medical University of Vienna, Vienna/AUSTRIA, ²Department of Internal Medicine III, Medical University of Vienna, Vienna/AUSTRIA, ³Division of Gastroenterology & Hepatology, Department of Internal Medicine III, Medical University of Vienna, Vienna/AUSTRIA

MEET THE AUTHOR in the EPOST™ Area at PC#8, on Oct. 3, 13:20–13:50

587 Long echo time ¹H-MRS of adipose tissue unsaturation and water content - influence of T₂ and spectral linewidth on fatty acid composition indices

J.J.O. Lundbom¹, J. Kuula², A. Hakkarainen², M.-R. Taskinen³, N. Lundbom⁴; ¹German Diabetes Center, Leibniz Center for Diabetes Research at Heinrich Heine University, Institute for Clinical Diabetology, Düsseldorf/GERMANY, ²Radiology, Medical Imaging Center, Espoo/FINLAND, ³Helsinki University Hospital and Research Programs Unit, Diabetes & Obesity, University of Helsinki, Helsinki/FINLAND, ⁴Radiology, Medical Imaging Center, Helsinki/FINLAND

MEET THE AUTHOR in the EPOST™ Area at PC#9, on Oct. 3, 13:20–13:50

588 Metabolite assessment of breast cancer cells offers evidence of altered phospholipid metabolism

M.J. Caramujo¹, S. Cecchetti¹, P. Pisterzi¹, C.C. De Carvalho², F. Podo¹, E. Iorio¹; ¹Department of Cell Biology and Neurosciences, Istituto Superiore di Sanità, Rome/ITALY, ²iBB-Institute for Bioengineering and Biosciences, Department of Bioengineering, Instituto Superior Técnico, Universidade de Lisboa, Lisbon/PORTUGAL

MEET THE AUTHOR in the EPOST™ Area at PC#10, on Oct. 3, 13:20–13:50

Scientific Programme

EPOS™ POSTERS

589 Elucidating energy metabolism of boar and human sperm by ^{13}C MR spectroscopy

S. Reynolds¹, J. Pearson², A. Pacey², M.N. Paley¹; ¹Academic unit of Radiology, University of Sheffield, Sheffield/UNITED KINGDOM, ²Department of Human Metabolism, University of Sheffield, Sheffield/UNITED KINGDOM

MEET THE AUTHOR in the EPOS™ Area at PC#11, on Oct. 3, 13:20–13:50

590 WITHDRAWN

591 Long TE PRESS Acquisitions Incorporating Left-half Echo Sampling

R. Mukern¹, G. Gambarota², B. Gagoski³, M. Balasubramanian⁴; ¹Radiology, Children's Hospital, Boston/MA/United States of America, ²Biomedical Engineering, Universite de Rennes, Rennes/FRANCE, ³Radiology, Children's Hospital, Boston, Ma/United States of America, ⁴Radiology, Children's Hospital, Boston, Ma/MA/United States of America

MEET THE AUTHOR in the EPOS™ Area at PC#13, on Oct. 3, 13:20–13:50

592 Basis Set Choice Biases Quantification in Long TE Proton Spectroscopy

P.J. Lally¹, A. Bainbridge², S. Thayyil¹; ¹Centre for Perinatal Neuroscience, Imperial College London, London/UNITED KINGDOM, ²Medical Physics and Bioengineering, University College London Hospitals, London/UNITED KINGDOM

MEET THE AUTHOR in the EPOS™ Area at PC#14, on Oct. 3, 13:20–13:50

593 WITHDRAWN

594 Enhancement of In Vivo Lipid Signal Quantification by Means of a Fully Automatic Reference Deconvolution Algorithm

G. Steidle¹, L. Mauch², J. Machann¹, B. Yang², F. Schick¹; ¹Section on Experimental Radiology, University Hospital Tübingen, Tübingen/GERMANY, ²Institute of Signal Processing and System Theory, University of Stuttgart, Stuttgart/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#16, on Oct. 3, 13:20–13:50

Basic science: novel contrasts and methods

595 Paramagnetic contrast enhancement MRI of acute cerebral damage in dogs using non-gadolinium complext Mn-diaminocyclohexanetetraacetate (DCTA)

W.Y. Ussov¹, A.I. Bezlepkin¹, M.L. Belyanin², O.Y. Borodin³, E.E. Bobrikova¹; ¹Laboratory of Tomography, Institute of Cardiology, Tomsk/RUSSIAN FEDERATION, ²Biotechnology and Organic Chemistry, National Research Tomsk Polytechnic University, Tomsk/RUSSIAN FEDERATION, ³Radiology, Tomsk Cancer Regional Center, Tomsk/RUSSIAN FEDERATION

MEET THE AUTHOR in the EPOS™ Area at PC#18, on Oct. 3, 12:50–13:20

596 In vivo human brain imaging at 0.2 T with a whole body fast field-cycling system

G.R. Davies¹, L. Broche², **D.J. Lurie**¹, K.J. Pine³, P.J. Ross¹; ¹Biomedical Imaging Centre, University of Aberdeen, Aberdeen/UNITED KINGDOM, ²Aberdeen Biomedical Imaging Centre, University of Aberdeen, Aberdeen/UNITED KINGDOM, ³Imaging Neuroscience, University College London, London/UNITED KINGDOM

MEET THE AUTHOR in the EPOS™ Area at PC#19, on Oct. 3, 12:50–13:20

Basic science: perfusion, diffusion**597 Quantitative DCE-MRI of rectal cancer: Influence of multiple blood supplies and its corresponding arterial input functions on perfusion parameters**

T. Gaa¹, S. SudarSKI², F. Lietzmann¹, L.R. Schad¹, F.G. Zoellner³; ¹Computer Assisted Clinical Medicine, Heidelberg University, Medical Faculty Mannheim, Mannheim/GERMANY, ²Institute of Clinical Radiology and Nuclear Medicine, Heidelberg University, Medical Faculty Mannheim, Mannheim/GERMANY, ³Computer Assisted Clinical Medicine, Heidelberg University, Mannheim/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#1, on Oct. 3, 13:20–13:50

598 A microstructure-based model of motion-sensitive MRI in the liver

J.R. Solera Ureña¹, M.R. Orton², D.J. Collins², V.G. Kiselev¹; ¹Medizin Physik, Radiologische Klinik, Universitätsklinikum Freiburg, Freiburg/GERMANY, ²CR-UK and EPSRC Cancer Imaging Centre, Institute of Cancer Research, London/UNITED KINGDOM

MEET THE AUTHOR in the EPOS™ Area at PC#2, on Oct. 3, 13:20–13:50

599 Implementation of a Diffusion Tensor Imaging Phantom of the Lumbar Spinal Cord

J. Rausch, M. Ruttorf, L.R. Schad, **F.G. Zoellner**; Computer Assisted Clinical Medicine, Heidelberg University, Mannheim/GERMANY

MEET THE AUTHOR in the EPOS™ Area at PC#3, on Oct. 3, 13:20–13:50

600 Condition number and electric potential utilized for estimating DTI data quality after motion correction: simulation study

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MEET THE AUTHOR in the EPOS™ Area at PC#4, on Oct. 3, 13:20–13:50

601 Simulations of rotation of the anisotropic phantom in BSD-DTI

K. Borkowski¹, A.T. Krzyzak²; ¹Medical Physics and Biophysics, Faculty of Physics and Applied Computer Science, AGH University of Science and Technology, Cracow/POLAND, ²Fossil Fuels, Faculty of Geology, Geophysics and Environmental Protection, AGH University of Science and Technology, Cracow/POLAND

MEET THE AUTHOR in the EPOS™ Area at PC#5, on Oct. 3, 13:20–13:50

602 Pattern recognition and filtering of the b-matrix spatial distribution in the BSD-DTI technique.

K. Kłodowski¹, A.T. Krzyzak²; ¹Medical Physics and Biophysics, Faculty of Physics and Applied Computer Science, AGH University of Science and Technology, Cracow/POLAND, ²Fossil Fuels, Faculty of Geology, Geophysics and Environmental Protection, AGH University of Science and Technology, Cracow/POLAND

MEET THE AUTHOR in the EPOS™ Area at PC#6, on Oct. 3, 13:20–13:50

Scientific Programme

EPOS™ POSTERS

Basic science: processing and quantification

603 WITHDRAWN

604 Intra-MRI ECG artefact reduction : varying step size least mean squares

A. Guillou¹, S. Ménétré¹, G. Petitmangin¹, J. Felblinger², L. Bonenmains²; ¹Alsace, Schiller Médical, Wissembourg/FRANCE, ²Meurthe et Moselle, IADI - INSERM U947, Vandoeuvre-Lès-Nancy/FRANCE

MEET THE AUTHOR in the EPOS™ Area at PC#20, on Oct. 3, 13:20–13:50

605 Water-fat imaging with inhomogeneity correction by partial derivatives of measured phase

C.-B. Ahn, Y.-J. Yang; Department of Electrical Engineering, Kwangwoon University, Seoul/KOREA
MEET THE AUTHOR in the EPOS™ Area at PC#21, on Oct. 3, 13:20–13:50

606 Quantitative Susceptibility Mapping Using Replacement of Magic Angle Domain in k-space by a Domain Calculated from a Binary Susceptibility Distribution Image

E. Yamamoto¹, R. Momosawa²; ¹Center for Frontier Medical Engineering, Chiba University, Chiba/JAPAN, ²Graduate School of Engineering, Chiba University, Chiba/JAPAN

MEET THE AUTHOR in the EPOS™ Area at PC#22, on Oct. 3, 13:20–13:50

607 Characterisation and systematic selection of MRI phantoms for implementation as novel knee-based reference standards

B. Webb¹, A. Petrovic², T. Schwark¹, E. Scheurer¹; ¹Clinical Forensic Imaging, Ludwig Boltzmann Institute for Clinical Forensic Imaging, Graz/AUSTRIA, ²Institute of Medical Engineering, Graz University of Technology, Graz/AUSTRIA

MEET THE AUTHOR in the EPOS™ Area at PC#23, on Oct. 3, 13:20–13:50

608 WITHDRAWN

609 Sensitivity maps estimation using eigen value approach for sense reconstruction

A.S. Irfan, A. Nisar, H. Shahzad, H. Omer; Electrical Engineering Department, COMSATS Institute of Information Technology, Islamabad, Islamabad/PAKISTAN

MEET THE AUTHOR in the EPOS™ Area at PC#25, on Oct. 3, 13:20–13:50

Brain diseases

EPOS™ Posters of this topic can be found in a Lightning Talk, page 69 – 74

Clinical applications: body

610 Relative ADC measurement for focal liver lesions using renal cortex as the reference organ

C. Kafadar¹, G. Sonmez¹, A.K. Sivrioglu², M. Saglam¹, K. Kara¹, H. Mutlu¹; ¹Radiology, GATA Haydarpasa Teaching Hospital, Istanbul/TURKEY, ²Radiology, Kasimpasa Military Hospital, Istanbul/TURKEY

MEET THE AUTHOR in the EPOS™ Area at PC#1, on Oct. 3, 12:20–12:50

611 WITHDRAWN

612 Assessment the role of MRI in determining the amount of iron overload in patients with thalassemia using MATLAB software

J. Abdolmohammadi¹, A. Kiani Nazarlou²; ¹Radiology, Kurdistan university of medical science - Kurdistan, Iran, /Kurdistan/IRAN, ²Imaging, Tabriz University of medical science, Tabriz/IRAN

MEET THE AUTHOR in the EPOS™ Area at PC#3, on Oct. 3, 12:20–12:50

613 Contrast paramagnetic enhancement of coronary atherosclerotic lesions at ECG-gated MRI study of the heart using open MRI-scanners

W.Y. Usov¹, T.A. Bakhmetyeva¹, **T.A. Shelkovnikova**¹, P.I. Lukyanenok¹, V.E. Babokin¹, E.E. Bobrikova¹, V.A. Arhangelsky²; ¹Laboratory of Tomography, Institute of Cardiology, Tomsk/RUSSIAN FEDERATION, ²Design and Production, AZ MRI Co, Moscow/RUSSIAN FEDERATION

MEET THE AUTHOR in the EPOS™ Area at PC#4, on Oct. 3, 12:20–12:50

614 WITHDRAWN

615 Myocardial ShMOLLI T1 values are not significantly affected by GRAPPA or coil selection

K. Werys¹, A. Kubik², A. Dabrowska³, L. Malek⁴, M. Marczak⁴, S. Piechnik⁵, P. Bogorodzki¹; ¹Institute of Radioelectronics, Warsaw University of Technology, Warsaw/POLAND, ²Faculty of Physics, Warsaw University of Technology, Warsaw/POLAND, ³-, Medical University of Technology, Warsaw/POLAND, ⁴Magnetic Resonance Unit, Institute of Cardiology, Warsaw/POLAND, ⁵FMRIB, University of Oxford, Oxford/UNITED KINGDOM

MEET THE AUTHOR in the EPOS™ Area at PC#6, on Oct. 3, 12:20–12:50

616 WITHDRAWN

617 WITHDRAWN

618 Is macro-vascular increase in unilateral breast cancer associated with micro-vascular variation in breast fibroglandular tissues? An intravoxel incoherent motion (IVIM) breast MRI study

O.L. Wong¹, G. Lo Goh², J. Yuan¹, H.H.L. Chan², T.T. Wong², P.S.Y. Cheung²; ¹Medical Physics and Research Department, Hong Kong Sanatorium & Hospital, Hong Kong/HONG KONG, ²Department of Diagnostic & Interventional Radiology, Hong Kong Sanatorium & Hospital, Hong Kong/HONG KONG

MEET THE AUTHOR in the EPOS™ Area at PC#9, on Oct. 3, 12:20–12:50

Scientific Programme

EPOS™ POSTERS

619 Comparison of IVIM and a Simplified IVIM Approach for Differentiation of Breast Tumors

I. Vidic¹, J.R. Teruel², T. Sjøbakk², A. Østlie³, H. Fjøsne⁴, T.F. Bathen², P.E. Goa¹; ¹Physics, Norwegian University of Science and Technology (NTNU), Trondheim/NORWAY, ²Department of Circulation and Medical Imaging, Norwegian University of Science and Technology, Trondheim/NORWAY, ³Clinic of Radiology and Nuclear Medicine, Norwegian University of Science and Technology (NTNU), Trondheim/NORWAY, ⁴Department of Cancer Research and Molecular Medicine, Norwegian University of Science and Technology (NTNU), Trondheim/NORWAY

MEET THE AUTHOR in the EPOS™ Area at PC#10, on Oct. 3, 12:20–12:50

620 Does breast peritumoral tissue hold valuable information for texture analysis?

M. Fox, P. Gibbs, M.D. Pickles, L.W. Turnbull; Centre for Magnetic Resonance Investigations, Hull York Medical School at University of Hull, Hull/UNITED KINGDOM

MEET THE AUTHOR in the EPOS™ Area at PC#11, on Oct. 3, 12:20–12:50

621 Optimisation of Intravoxel Incoherent Motion (IVIM) Imaging for Breast Cancer with Clinical Results

N.L. Purvis¹, P. Gibbs², M.D. Pickles², L.W. Turnbull²; ¹Centre for MR Investigations, Hull York Medical School, Hull/UNITED KINGDOM, ²Centre for Magnetic Resonance Investigations, Hull York Medical School at University of Hull, Hull/UNITED KINGDOM

MEET THE AUTHOR in the EPOS™ Area at PC#12, on Oct. 3, 12:20–12:50

622 Outcome of high-risk lesions at MR-guided breast biopsy – clinical experience

S. Heinze-Paluchowska, E. Luczynska; Department of Radiology, Centre of Oncology, Maria Skłodowska-Curie Memorial Institute, Krakow Branch, Krakow/POLAND

MEET THE AUTHOR in the EPOS™ Area at PC#13, on Oct. 3, 12:20–12:50

623 Ultrasound-guided injection of contrast media for MR arthrography of shoulder joint using posterior medial approach - our experience

V. Salapura, A.K. Limpel Novak, G. Mitrović; Clinical Institute of Radiology, University Medical Centre Ljubljana, Ljubljana/SLOVENIA

MEET THE AUTHOR in the EPOS™ Area at PC#14, on Oct. 3, 12:20–12:50

624 MRI changes in patients with lateral epicondylitis treated by platelet-rich plasma or low-level laser therapy – comparative study before and at least 6 months after treatment.

M. Zabicka¹, K. Rowicki², A. Bachta³, A. Maliborski¹; ¹Radiology, Military Institute of Medicine, Warsaw/POLAND, ²Orthopaedy, Military Institute of Medicine, Warsaw/POLAND, ³Internal Medicine and Rheumatology, Military Institute of Medicine, Warsaw/POLAND

MEET THE AUTHOR in the EPOS™ Area at PC#15, on Oct. 3, 12:20–12:50

625 WITHDRAWN

626 3D versus 2D Magnetic Resonance Imaging of the Knee Joint at 1.5 and 3 Tesla

O. Abdulaal¹, L. Rainford¹, P. Macmahon², E. Kavanagh², P. Kenny², A. Mcgee¹, ¹Diagnostic Imaging, University College Dublin, Dublin/IRELAND, ²Radiology Department, Mater Misericordiae University Hospital, Dublin/IRELAND

MEET THE AUTHOR in the EPOS™ Area at PC#17, on Oct. 3, 12:20–12:50

627 WITHDRAWN**628 WITHDRAWN**

Clinical applications: neuro**629 WITHDRAWN****630 Alterations in levels of N-Acetylaspartate and myo-Inositol in subjects with risk of development Alzheimer's Disease**

V. Mato Abad¹, R. García-Álvarez², N. Malpica¹, J. Álvarez-Linera³, A. Frank⁴, J.A. Hernández-Tamames¹, ¹LAIMBIO, Universidad Rey Juan Carlos, Mostoles/SPAIN, ²Clinical Science Development Group, General Electric Healthcare, Buc/FRANCE, ³Neuroradiology, Hospital Ruber Internacional, Madrid/SPAIN, ⁴Neurology, Hospital Universitario La Paz, Madrid/SPAIN

MEET THE AUTHOR in the EPOS™ Area at PC#2, on Oct. 1, 13:00–13:30

631 WITHDRAWN**632 Combined DTI and fMRI improve success of neurosurgical planning in brain tumor patient's.**

Z. Fırat¹, A. Hamamci², A. Sarsilmaz¹, A. Ozgen¹, T. Guzelbey¹, U. Ture³, ¹Radiology, Yeditepe University Hospital, Istanbul/TURKEY, ²Biomedical Engineering, Yeditepe University, Istanbul/TURKEY, ³Nuersurgery, Yeditepe University Hospital, Istanbul/TURKEY

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

633 Optimized Combination of GABA-Edited MR Spectroscopy Data from Multi-Element Coil Arrays with Improved SNR

S. Yang¹, L. Fang², M. Wu², W. Mar³, A. Kumar², ¹Departments of Psychiatry and Radiology, University of Illinois at Chicago, Chicago/IL/United States of America, ²Department of Psychiatry, University of Illinois at Chicago, Chicago/IL/United States of America, ³Department of Radiology, University of Illinois at Chicago, Chicago/IL/United States of America

MEET THE AUTHOR in the EPOS™ Area at PC#5, on Oct. 1, 13:00–13:30

634 Preliminary Brain Tumour Identification Using APT CEST: A Comparison of two Schemes

J.E.M. Fairney¹, S.M. Fallatah², R. Jäger², M. Smits³, X. Golay⁴, ¹Medical Physics & Biomedical Engineering, UCL, London/UNITED KINGDOM, ²Brain repair and rehabilitation, UCL Institute of Neurology, London/UNITED KINGDOM, ³Radiology, Erasmus MC, Rotterdam/NETHERLANDS, ⁴Institute of Neurology, University College London, London/UNITED KINGDOM

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

635 Denoising Magnetic Resonance Spectroscopy Data via Wavelet Shrinkage

L. Fang¹, M. Wu¹, W. Mar², O. Ajilore¹, A. Kumar¹, **S. Yang³, ¹Department of Psychiatry, University of Illinois at Chicago, Chicago/IL/United States of America, ²Department of Radiology, University of Illinois at Chicago, Chicago/IL/United States of America, ³Departments of Psychiatry and Radiology, University of Illinois at Chicago, Chicago/IL/United States of America**

MEET THE AUTHOR in the EPOS™ Area at PC#7, on Oct. 1, 13:00–13:30

Scientific Programme

EPOS™ POSTERS

636 WITHDRAWN

637 Contrast-enhanced MRI of atherosclerotic lesion of the aortic wall

A.S. Maksimova¹, Y.E. Bobrikova¹, I.L. Bukhovets¹, P.I. Lukyanenok¹, V.E. Babokin², Y.V. Rogovskaya³, W.Y. Ussov¹; ¹X-ray and Tomography Department, Federal State Budgetary Scientific Institution «Research Institute for Cardiology», Tomsk/RUSSIAN FEDERATION, ²Cardiovascular Surgery Department, Federal State Budgetary Scientific Institution «Research Institute for Cardiology», Tomsk/RUSSIAN FEDERATION, ³Laboratory of pathomorphology, Federal State Budgetary Scientific Institution «Research Institute for Cardiology», Tomsk/RUSSIAN FEDERATION

MEET THE AUTHOR in the EPOS™ Area at PC#9, on Oct. 1, 13:00–13:30

Clinical imaging

EPOS™ Posters of this topic can be found in a Lightning Talk, page 51 – 55

Functional imaging & flow

EPOS™ Posters of this topic can be found in a Lightning Talk, page 38 – 44

Image analysis and diffusion imaging

EPOS™ Posters of this topic can be found in a Lightning Talk, page 81 – 86

Let it flow! Perfusion from bedside to bench and back

EPOS™ Posters of this topic can be found in a Lightning Talk, page 91 – 96

MRI pulse sequences

EPOS™ Posters of this topic can be found in a Lightning Talk, page 30 – 34

MR engineering & physics

EPOS™ Posters of this topic can be found in a Lightning Talk, page 60 – 65

MR spectroscopy

EPOS™ Posters of this topic can be found in a Lightning Talk, page 101 – 105

Novel contrast (agents)

EPOS™ Posters of this topic can be found in a Lightning Talk, page 21 – 25

Scientific Programme

PAPER POSTERS

Animal models: brain

- 638 Exercice training exacerbates the sensitivity of the type 2 diabetic Goto-Kakizaki (GK) rat heart to ischaemia-reperfusion injury by impairing energy metabolism and function.

M. Desrois¹, C. Lan¹, M. Macia¹, B. Portha², D. Bailbé², B. Giannesini¹, D. Bendahan¹, J. Movassat², P.J. Cozzone¹, M. Bernard¹; ¹CRMBM UMR 7339, Aix-Marseille Université, CNRS, Marseille Cedex/FRANCE, ²Laboratoire de Biologie et Pathologie du Pancréas Endocrine (B2PE), UMR 8251, Unité BFA, Université Paris-Diderot, CNRS, Paris/FRANCE

MEET THE AUTHOR in the Paper Poster Area, on Oct. 1, 13:00–13:30

Basic science: MR spectroscopy

- 639 Estimation of the Fatty Acids composition in a fat sample using MRS at 9.4 T

D.F. Aguirre-Reyes¹, F.C. Zaccoñi², P. Irarrazaval³, M.E. Andia⁴; ¹Computation Sciences and Electronics, Universidad Técnica Particular de Loja, Loja/ECUADOR, ²Organic Chemistry, Pontificia Universidad Católica de Chile, Santiago/CHILE, ³Electrical Engineering, Pontificia Universidad Católica de Chile, Santiago/CHILE, ⁴Radiology, Pontificia Universidad Católica de Chile, Santiago/CHILE

MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 13:20–13:50

Basic science: novel contrasts and methods

- 640 Measurements of Rotating Frame Relaxation Time Constants in Hypertrophic Mouse Model

M.A. Khan, E. Ylä-Herttuala, H. Hakkarainen, S. Laidinen, S. Ylä-Herttuala, T. Liimatainen; A. I. Virtanen Institute for Molecular Sciences, University of Eastern Finland, Kuopio/FINLAND

MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 12:50–13:20

- 641 Combination of MPRAGE and Phase images (MPRAGE*) for improved detection of thalamic substructures

B. Bender, S. Wagner, **U. Klose**; Department of Diagnostic and Interventional Neuroradiology, University Hospital Tübingen, Tübingen/GERMANY

MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 12:50–13:20

- 642 High precision excitation-force monitoring in Magnetic Resonance Rheology

J. Bindl¹, A.-L. Kofahl², S. Theilenberg¹, S. Napiletzki², B. Schemmann², B. Schu-Schätter², J. Finsterbusch³, C. Urbach², K. Maier⁴; ¹HISKP, Universität Bonn, Bonn/GERMANY, ²HISKP, Universität Bonn, Bonn/GERMANY, ³Departement of Systems Neuroscience, University Medical Center Hamburg-Eppendorf, Hamburg/GERMANY, ⁴Helmholtz-Institut für Strahlen- und Kernphysik, Universität Bonn, Bonn/GERMANY

MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 12:50–13:20

Scientific Programme

PAPER POSTERS

643 Voxel-wise trajectory reconstruction in a drop experiment designed for the human brain

S. Theilenberg¹, J. Bindl¹, A.-L. Kofahl², S. Napiletzki², B. Schemmann¹,
B. Schu-Schäffer², J. Finsterbusch³, C. Urbach⁴, K. Maier⁴, ¹HISKP, Universität Bonn, Bonn/GERMANY, ²HISKP, Universität Bonn, Bonn/GERMANY, ³Department of Systems Neuroscience, University Medical Center Hamburg-Eppendorf, Hamburg/GERMANY, ⁴Helmholtz-Institut für Strahlen- und Kernphysik, Universität Bonn, Bonn/GERMANY

MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 12:50–13:20

Basic science: perfusion, diffusion

644 A simple, modular, polyvinylpyrrolidone temperature-controlled phantom for quantitative MR quality control

M.-V. Papoutsaki¹, J.M. Winfield², H.G. Parkes¹, M.A. Boss³, M.R. Orton¹, N.M. Desouza¹, ¹Radiotherapy and Imaging, Institute of Cancer Research, London/UNITED KINGDOM, ²Radiotherapy and Imaging, Royal Marsden NHS Foundation Trust, London/UNITED KINGDOM, ³NIST, National Institute of Standards and Technology, Boulder/United States of America

MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 13:20–13:50

645 Adaptive B-value Selection for Optimized Diffusion MRI Acquisition

R. De Luis-Garcia¹, D. Hernando², S. Aja¹, C. Cobos-Huerga³, P. Irarrazaval⁴, G. Varela⁴, C. Alberola¹; ¹Laboratorio de Procesado de Imagen, Universidad de Valladolid, Valladolid/SPAIN, ²Department of Radiology, University of Wisconsin-Madison, Madison/WI/United States of America, ³Radiology, Hospital Campo Grande, Valladolid/SPAIN, ⁴Electrical Engineering, Pontificia Universidad Católica de Chile, Santiago/CHILE

MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 13:20–13:50

646 Modification of Signal-to-Noise Calculation for use in Spatial Mapping

C. Rockel, **M.D. Noseworthy**; Imaging Research Centre, McMaster University, Hamilton/ON/CANADA
MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 13:20–13:50

647 Diffusion Tensor Imaging of the Kidney with a Single Shot Turbo Spin Echo Sequence

F. Hilbert, T. Wech, H. Neubauer, S. Veldhoen, T. Bley, **H. Köstler**; Department of Diagnostic and Interventional Radiology, University of Würzburg, Würzburg/GERMANY
MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 13:20–13:50

Basic science: processing and quantification

648 Fast Longitudinal and Transverse Relaxation Rates of Water and Brain Metabolites: Simultaneous Quantification Procedure Using STEAM

A. Tisell¹, P. Lundberg²; ¹Center for Medica Image Science and Visualization, Linköping University, Linköping/SWEDEN, ²Radiation physics, Center for Medical Image Science and Visualization, Linköping University, Linköping/SWEDEN

MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 13:20–13:50

649 Simultaneous T1-weighted Imaging and Proton Density Fat Fraction Mapping Using Single-Scan Multi-Echo Spoiled GRE

F. Fallah¹, F. Schick², B. Yang¹; ¹Institute of Signal Processing and System Theory, University of Stuttgart, Stuttgart/GERMANY, ²Section on Experimental Radiology, University Hospital of Tübingen, Tübingen/GERMANY

MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 13:20–13:50

Brain diseases

Paper Posters of this topic can be found in a Lightning Talk, page 69 – 74

Clinical applications: body

650 Wrist Injuries in Elderly Women is Overlooked when Using X-ray in Comparison to MRI

J.H. Eckmann, L. Brix, R. Nielsen; Department of Radiology, Silkeborg Regional Hospital, Silkeborg/DENMARK

MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 12:20–12:50

651 Breast MRI parameter maps: texture analysis as a predictor of response

P. Gibbs, M.D. Pickles, L.W. Turnbull; Centre for MR Investigations, Hull York Medical School at University of Hull, Hull/UNITED KINGDOM

MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 12:20–12:50

652 Quantification of whole body fat and muscle using Magnetic Resonance Imaging

M.R. Lopez Gonzalez¹, Y. Algindan², N. Brosnahan², G. Thom², L. Govan², C. Hankey², G. Roditi³, M. Lean²; ¹Clinical Physics and Bioengineering, NHS, Glasgow/UNITED KINGDOM, ²Human Nutrition, University of Glasgow, Glasgow/UNITED KINGDOM, ³Radiology, NHS Greater Glasgow and Clyde, Glasgow/UNITED KINGDOM

MEET THE AUTHOR in the Paper Poster Area, on Oct. 3, 12:20–12:50

Clinical applications: neuro

653 A clinical preliminary 31P MRS study of brain tumors at 1.5 T field strength using the 3D CSI sequence

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MEET THE AUTHOR in the Paper Poster Area, on Oct. 1, 13:00–13:30

Scientific Programme

PAPER POSTERS

654 Characterisation of Carotid Atherosclerotic Plaque ex-vivo using 7T MRI and Histology

M.R. Lopez Gonzalez¹, W. Holmes², S.Y. Foo³, W. Stewart⁴, B. Condon¹, G. Welch⁵,

K. Muir⁶, K. Forbes⁷; ¹Clinical Physics and Bioengineering, NHS, Glasgow/UNITED KINGDOM,

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MEET THE AUTHOR in the Paper Poster Area, on Oct. 1, 13:00–13:30

Clinical imaging

Paper Posters of this topic can be found in a Lightning Talk, page 51 – 55

Functional imaging & flow

Paper Posters of this topic can be found in a Lightning Talk, page 38 – 44

Image analysis and diffusion imaging

Paper Posters of this topic can be found in a Lightning Talk, page 81 – 86

Let it flow! Perfusion from bedside to bench and back

Paper Posters of this topic can be found in a Lightning Talk, page 91 – 96

MRI pulse sequences

Paper Posters of this topic can be found in a Lightning Talk, page 30 – 34

MR engineering & physics

Paper Posters of this topic can be found in a Lightning Talk, page 60 – 65

MR spectroscopy

Paper Posters of this topic can be found in a Lightning Talk, page 101 – 105

Novel contrast (agents)

Paper Posters of this topic can be found in a Lightning Talk, page 21 – 25

Scientific Programme

CLINICAL REVIEW POSTERS

Case reports, small clinical series, pictorial reviews

655 Unusual, incidental littoral cell angioma of the spleen: cross-sectional imaging findings (ultrasound, contrast-CT, contrast-MRI and PET-CT)

P.P. Arcuri¹, S. Roccia², A. Serrao³, B. Vavalà³, G. Fodero³, A. Pingitore⁴; ¹Radiology, A.O. Pugliese-De Lellis, Catanzaro/ITALY, ²LAmezia Terme, INPS, Lamezia Terme/ITALY, ³Radiology, A.O. Pugliese-Ciaccio, Catanzaro/ITALY, ⁴tbc, tbc, London/UNITED KINGDOM

MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 3, 12:20-12:50

656 Third Degree Skin Burns Caused by an MRI Compatible Electrocardiographic Monitoring System

L. Brix¹, C. Isaksen¹, B.H. Kristensen², D. Tufa³; ¹Department of Radiology, Silkeborg Regional Hospital, Silkeborg/DENMARK, ²Department of Radiology, chriisak@rm.dk, Silkeborg/DENMARK, ³Department of Radiology, Donika Tufa, Silkeborg/DENMARK

MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 3, 12:20-12:50

657 Hemangioendothelioma: importance of imaging findings and multidisciplinary approach in its diagnosis and treatment

S. Butorac¹, F. Tuka², M. Tanka³, V. Demko⁴, B. Begaj⁵, A. Gjika⁴, A. Mustafa⁴, K. Alimeri⁴, G. Guri⁴, J. Seiti⁶, B. Veizaj⁴; ¹Department of Radiology, Mother Teresa University Hospital Central, Tirana/ALBANIA, ²Department of Radiology, Mother Teresa University Hospital Center, Tirana/ALBANIA, ³Department of Radiology, Service of Pediatric Radiology, Mother Teresa University Hospital Central, Tirana/ALBANIA, ⁴Department of Radiology, Trauma and Orthopedic University Hospital Service "Prof. Dr. Panajot Boga"; Mother Teresa UHC, Tirana/ALBANIA, ⁵Department of Radiology, Trauma and Orthopedic University Hospital Service "Prof. Dr. Panajot Boga"; Mother Teresa UHC and Military UHC, Tirana/ALBANIA, ⁶Department of Cardiology, Ultrasound Unit, Mother Teresa University Hospital Center, Tirana/ALBANIA

MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 3, 12:20-12:50

658 The Clinical Impact of Severe Respiratory Motion Artefact and Gadoxetate Disodium

C. Turbet, **G. Cowell**; Radiology, Victoria Infirmary, Glasgow/UNITED KINGDOM

MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 3, 12:20-12:50

659 Transrectally delivered, MR-guided laser interstitial thermal therapy in recurrent prostate cancer - early results

B.M. Greenwood, J.F. Feller, S.T. May, W. Jones; Clinical Services, Desert Medical Imaging, Indian Wells/CA/United States of America

MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 3, 12:20-12:50

660 The effect of nicotine patches on the neural activity in the reward circuit of smokers: an fMRI study with visual stimulation

K. Liberman, S. Herremans, P. Van Schuerbeek, J. De Mey, N. Buls; Radiology, UZ Brussel, Brussels/BELGIUM

MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 3, 12:20-12:50

Scientific Programme

CLINICAL REVIEW POSTERS

661 A Case of acute onset Succinic Semialdehyde Dehydrogenase Deficiency: Neuroimaging Findings and Literature Review

D.D. Lin¹, K. Wang², P.B. Barker¹; ¹Radiology, Johns Hopkins University, Baltimore/MD/United States of America, ²Radiology, Johns Hopkins University, Baltimore/United States of America

MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 3, 12:20–12:50

662 High-Resolution MR Lymphangiography: how to make visible the invisible.

M.A. Mazzei¹, F.G. Mazzei², F. Gentili¹, D. Guerrieri², G. Bettini¹, S. Guerrini¹, N. Cioffi Squitieri¹, P. Gennaro³, L. Volterrani¹; ¹Medical, Surgical and Neuro Sciences, Diagnostic Imaging, University of Siena, Siena/ITALY, ²Diagnostic Imaging, Azienda Ospedaliera Universitaria Senese, Siena/ITALY, ³Medical, Surgical and Neuro Sciences, Surgery, University of Siena, Siena/ITALY

MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 3, 12:20–12:50

663 Assessment of cerebral blood flow in patients with cerebral small vessel disease: a systematic review

Y. Shi, M.J. Thrippleton, I. Marshall, J. Wardlaw; Centre for Clinical Brain Sciences (CCBS), The University of Edinburgh, Sb/UNITED KINGDOM

MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 3, 12:20–12:50

664 Cerebral Blood Flow assesment using pCASL in healthy pediatric subjects

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MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 3, 12:20–12:50

665 Angio-uro dynamic functional MRI: difference between this new technique and the traditional investigations in patients with pathology of the urinary tract (work in progress)

A. Viviani, L. Moreschi, E. Ricci; Radiologia, ASL 3 PT Ospedale di Pescia, Pescia/ITALY

MEET THE AUTHOR in the Clinical Review Poster Area, on Oct. 3, 12:20–12:50

Scientific Programme

SOFTWARE EXHIBITS

MEET THE AUTHOR time slots:
October 1–3, 15:20–15:40

Moorfoot

Data analysis: MR imaging / spectroscopy

666 NCprocessing: a software to determine non-compacted and compacted masses from MRI

S. Bricq¹, J. Frandon², B. Puech³, M. Bernard⁴, M. Guye⁴, A. Cochet¹, G. Habib⁵, D. Fagret⁶, A. Jacquier³, A. Lalande¹; ¹Le2i, UMR CNRS 6306, Université de Bourgogne, Dijon/FRANCE, ²Service de radiologie, CHU, Grenoble/FRANCE, ³Département de Radiologie, Hôpital de La Timone, AP-HM, Marseille/FRANCE, ⁴CRMBM UMR 7339, Aix-Marseille Université, CNRS, Marseille Cedex/FRANCE, ⁵Département de Cardiologie, Hôpital de La Timone, AP-HM, Marseille/FRANCE, ⁶Service de Médecine Nucléaire, CHU, Grenoble/FRANCE

MEET THE AUTHOR in Room Moorfoot on desk 1

667 MRXCAT Showcase: Introduction to Numerical Phantoms for Cardiovascular MR



Certificate
of Merit

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MEET THE AUTHOR in Room Moorfoot on desk 2

668 Robust registration software of multi-parametric cardiac MR data with presence of motion-related artefacts and intensity non-homogeneity

C. Wang¹, C. Stirrat¹, S. Alam¹, M. Dweck¹, C. Chin¹, T. Macgillivray², C. Gray², D.E. Newby¹, S. Semple²; ¹BHF Centre for Cardiovascular Science, University of Edinburgh, Edinburgh/UNITED KINGDOM, ²Clinical Research Imaging Centre, University of Edinburgh, Edinburgh/UNITED KINGDOM

MEET THE AUTHOR in Room Moorfoot on desk 3

669 A robust automated multi-parametric registration software applied to neonatal MR neuro data



Certificate
of Merit

C. Wang¹, T. Macgillivray², Y. Koutraki¹, J.P. Boardman³, S. Sparrow³, E. Moore³, R. Pataky³, S. Semple²; ¹BHF Centre for Cardiovascular Science, University of Edinburgh, Edinburgh/UNITED KINGDOM, ²Clinical Research Imaging Centre, University of Edinburgh, Edinburgh/UNITED KINGDOM, ³MRC Centre for Reproductive Health, University of Edinburgh, Edinburgh/UNITED KINGDOM

MEET THE AUTHOR in Room Moorfoot on desk 4

670 United Diffusion Kurtosis Imaging toolbox



Certificate
of Merit

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MEET THE AUTHOR in Room Moorfoot on desk 5

Scientific Programme

SOFTWARE EXHIBITS

MEET THE AUTHOR time slots:

October 1–3, 15:20–15:40

Moorfoot

671 Simulation of SPACE Imaging

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MEET THE AUTHOR in Room Moorfoot on desk 6

672 Efficient optimally L₁ regularized magnitude weighted QSM

J.G. Bouwman, P.R. Seevinck; Image Sciences Institute, University Medical Center Utrecht, Utrecht/
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MEET THE AUTHOR in Room Moorfoot on desk 7

673 Journey through k-space

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Technology, Islamabad/PAKISTAN, ²Electrical Engineering, COMSATS Institute of IT, Islamabad/PAKISTAN

MEET THE AUTHOR in Room Moorfoot on desk 8

674 Vendor-independent rapid sequence prototyping with JEMRIS and Pulseq

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MEET THE AUTHOR in Room Moorfoot on desk 9

675 Computational framework “bloCh” for a multidimensional RF pulse design using optimal control theory

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MEET THE AUTHOR in Room Moorfoot on desk 10

676 Open-source hardware based stimulation system for functional MRI

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Radiology Department, Institute for Clinical and Experimental Medicine, Prague/CZECH REPUBLIC, ²MR,
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MEET THE AUTHOR in Room Moorfoot on desk 11

677 jSIPRO 2.0 - New version of java Spectroscopic Imaging PROcessing software

F. Jiru¹, A. Skoch¹, M. Dezortova¹, M. Dezortova¹, M. Hajek²; ¹Dept. Diagnostic and
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MEET THE AUTHOR in Room Moorfoot on desk 12

678 jMRUI plugin software (jMRUI2XML) to allow automated MRS processing and XML-based standardized output

V. Mocioiu¹, S. Ortega-Martorell², I. Olier³, M. Jablonski⁴, J. Starcukova⁴, P. Lisboa², C. Arus¹, M. Julià-Sapé⁵; ¹Biochemistry and Molecular Biology Department, Universitat Autònoma de Barcelona, Cerdanyola De Valles/SPAIN, ²School of Computing and Mathematical Sciences, Liverpool John Moores University, Liverpool/UNITED KINGDOM, ³Manchester Institute of Biotechnology, The University of Manchester, Manchester/UNITED KINGDOM, ⁴Institute of Scientific Instruments, Czech Academy of Sciences, Brno/CZECH REPUBLIC, ⁵Bioquímica i Biologia Molecular, UAB, CIBER-BBN, Cerdanyola Del Vallès/SPAIN

MEET THE AUTHOR in Room Moorfoot on desk 13

679 Quality Processing Assurance Extension for the MRS Quantitation Software jMRUI

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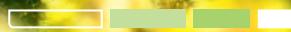
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View from Calton-Hill



ESMRMB NETWORKING EVENTS

MEET THE STARS IN MR:

Thursday, October 1, 2015

13:15-14:15

Always wanted to meet that MR-leader all of whose papers you've read?
Have a question for the expert in your field?
Or want to hear how to make it in the world of MRI?

Now is your chance! We invited a selection of true stars in the field of MR to talk to you. They are not only the world-experts in their field, but also excellent public speakers and true opinion-leaders... true stars.

Come and say hello at this fun and informal event, where you're guaranteed to broaden your network, hear interesting stories and have an excellent start of the ESMRMB conference.

COLLABORATIONS CAFÉ:

Saturday, October 3, 2015

08:00-09:00

In the Collaborations Café we will meet to set up collaborations, to exchange ideas, to broaden our network.

In preparation, during the first two days of the conference, you post your idea, topic or subject on the Collaborations Board. This can be a pulse sequence you have developed and would like to find a study population for. Or an idea for a study, for which you're searching collaborators.

In the Collaborations Café we will discuss these topics together, so you can leave the conference full of new ideas and inspiring collaborations. Remember to bring your business cards!

ESMRMB

Educational Programmes

School of MRI

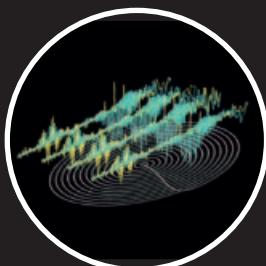
**Educational courses for physicians and
MR technologists/radiographers**



- Duration of the courses: 2.5 days, Thursday – Saturday
- Interactive character as 50% of the total teaching time is used for repetitions in small groups (max. 17 people per group) to intensify the learning experience
- Professional and didactically experienced teachers
- An application for CME accreditation of all courses will be made to the European Accreditation Council for Continuing Medical Education (EACCME)
- Limited to 65 participants per course

Lectures on MR

**Educational courses for physicists and
other basic scientists or clinical scientists**



- Duration of the courses: 2 – 2.5 days
- 40% of the total teaching time is used for repetitions, exercises, and practical demonstrations to practice and intensify the learning experience
- Accredited by the European Federation of Organisations for Medical Physics (EFOMP)
- Limited to 50 participants per course

Hands-On MRI

**Educational courses for MRI technologists,
radiographers and interested physicians**



- Duration of the courses: 2.5 days, Thursday – Saturday
- 50% vendor specific hands-on training on the scanner and workstations
- An application for CME accreditation of all courses will be made to the European Accreditation Council for Continuing Medical Education (EACCME)
- Limited to 30 participants per course

Teach-the-Teacher

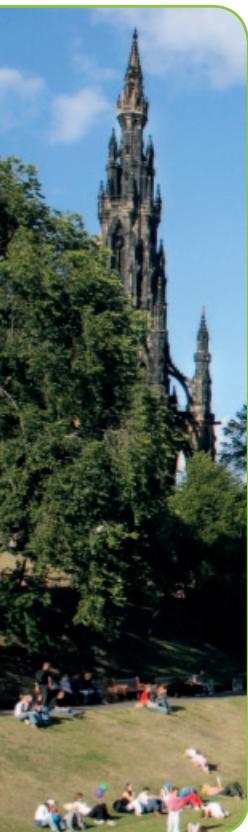


The ESMRMB is very proud of the new joint initiative of the ESMRMB and the ISMRM, introduced in 2013.

ESMRMB and ISMRM together offer young academic radiologists from emerging countries the opportunity of a two-month fellowship in one of the leading MRI centres worldwide to be trained as an ESMRMB/ISMRM certified teacher in a specific field of applied MRI (eg. MSK, cardiac, abdominal MRI).



Important Addresses



Scott Monument,
Princes Street Gardens

Congress Venue

Edinburgh International Conference Centre (EICC)
The Exchange Edinburgh
Morrison Street
EH3 8EE Edinburgh, UK
www.eicc.co.uk

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Vienna, September 2015

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Accreditation

The 'ESMRMB 2015 – 32nd Annual Scientific Meeting' 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 2015 – 32nd Annual Scientific Meeting' 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.

EFOMP accredits the International Conference **ESMRMB 2015** to be held in Edinburgh/UK, October 1 – 3, 2015, as a Continuing Professional Development (CPD) event for Medical Physicists, **with a maximum of 22 hours**. According to the EFOMP recommendations, this is equivalent to 22 CPD credit-points. The Accreditation Code for the event is: **CG002/2015**

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 after the congress in the MyUserArea (login with your last name and Personal ID as printed on your badge) under MyConfirmations.

Congress Language

The official congress language is English.

Preview Centre

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

Opening hours of the Preview Centre

Wednesday, September 30:	16:00–18:00
Thursday – Saturday, October 1–3:	07:45–18:30





General Information

Registration

Onsite registration fees in Euro (€)

Full Fee

Member*	€ 580
Senior Member*	€ 285
Non-Member	€ 805

Student, Resident in training

Member*	€ 200
Non-Member**	€ 410

MR technologist/radiographer

Member*	€ 200
Non-Member**	€ 405

All prices are inclusive of 20% VAT.

* Members of the equivalent membership type in good standing who have paid their 2015 membership fee.
IWPFI registrants: confirmation of IWPFI registration (invoice) required.

** Registration as student, IWPFI student registrant, 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, September 30:	15:00-18:00
Thursday-Friday, October 1-2:	07:00-19:00
Saturday, October 3:	07:00-15:00

Payment

Onsite, payment can be made by credit card (Visa and Eurocard/Mastercard) or in cash (only in GBP or Euro).

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 pre-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 0

Registration	Technical Exhibition
Coat Check	Paper Poster and Clinical Review Poster Exhibition
Coffee Area	Lecture Room
Strathblane Hall	EPOST™ Exhibition and Software Exhibition
Tinto	Lecture Room
Moorfoot	Networking Events
Kilsyth	
Lomond Foyer	

Level 1

Harris Suite	Preview Centre (Slide Centre)
Ochil Suite	Board Meeting Room

Level 3

Pentland	Plenary Session Room, Lecture Room (main auditorium)
Sidlaw	Lecture Room
Fintry	Lecture Room

Please proceed to pages 159 – 161 for the floorplans of the congress venue!

Social Event

The Welcome Reception will be held at the National Museum of Scotland (Chambers Street, Edinburgh EH1 1JF), on Thursday, October 1 at 19:00.

Technical Exhibition

Opening hours of the technical exhibition:

Thursday:	08:30-17:30
Friday:	08:30-17:30
Saturday:	08:30-17:30

For information on ESMRMB 2015 exhibitors, please refer to page 163.

Wireless LAN - Internet

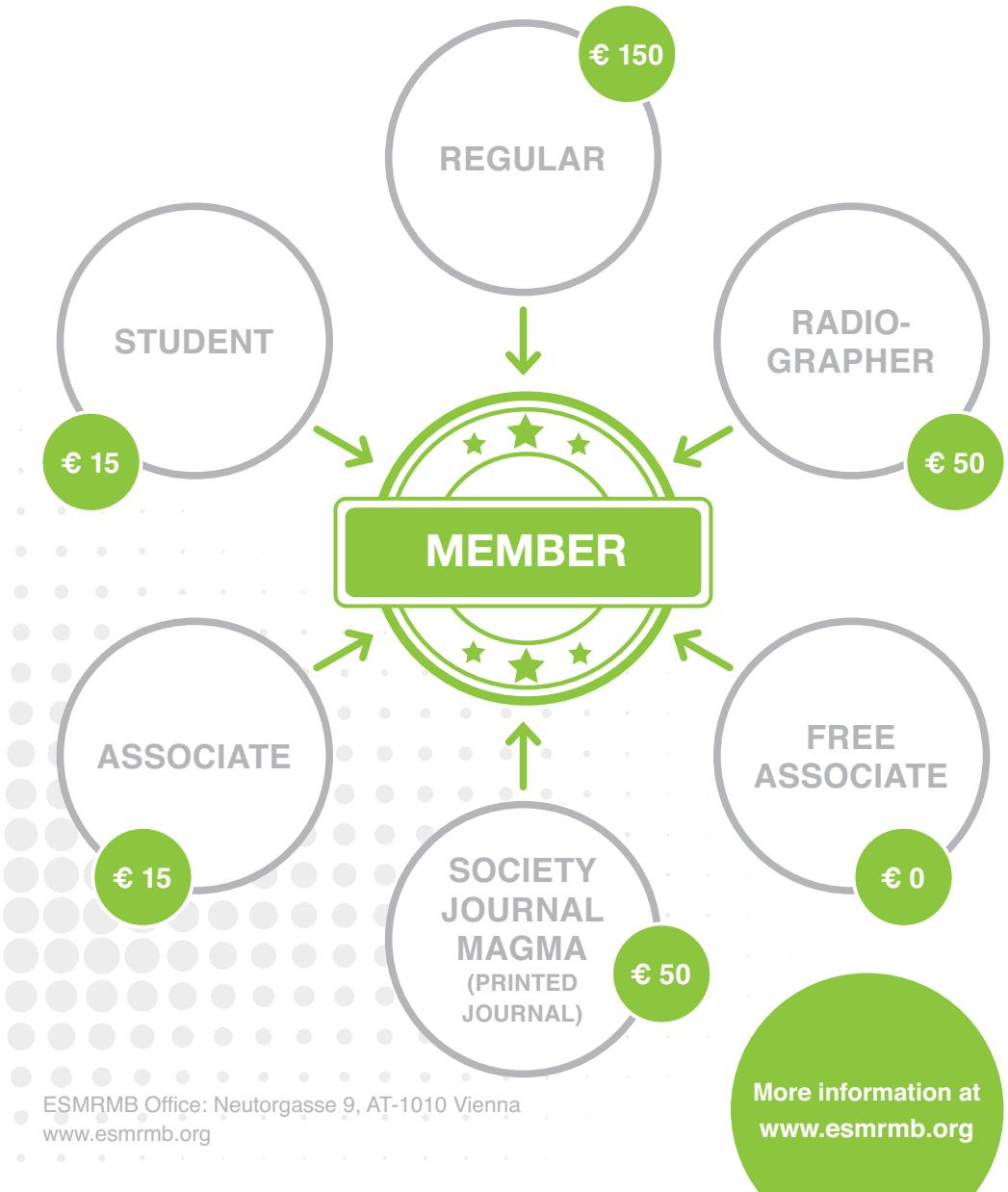
Wireless LAN will be available to delegates throughout the congress centre. This service is provided free of charge to delegates.

Network: delegate

Password: Exchange



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Bayer HealthCare kindly provided financial support to ESMRMB & the Annual Scientific Congress in Edinburgh 2015





ESMRMB 2015 – Industry-sponsored Symposia

Thursday, October 1
12:10–13:10

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Siemens

**Translating MRI research power
into clinical care**

Content to be announced

Thursday, October 1
12:10–13:10

TOSHIBA

Leading Innovation >>>

Toshiba

**State of the art MR acquisitions and
post-processing**

**Advanced 3T MR clinical solutions and
Research collaboration perspectives**
Alexandru Cernicanu, PhD
Toshiba Medical Systems Europe B.V.,
the Netherlands

**Advanced Neuro MR at 3T including
non-contrast angio and CEST-Zapped**
Yasutaka Fushimi, MD, PhD
Kyoto University, Japan

**Advanced MR post-processing clinical
solutions. Towards quantitative MR
with IVIM and other advanced methods**
Timothé Bouteiller, PhD
Bruno Traire
Olea Medical, France





Friday, October 2

12:30–13:30



GE

Imagine what MR can be.

GE MR Vision

Mark Stoesz
GE Global Marketing Premium Product Manager, Milwaukee, USA

From MR research to clinical practice

Martin Graves, PhD
Cambridge University Hospitals NHS Foundation Trust, United Kingdom

Experience using PET/MR in the radiotherapy department

Patrik Brynolfsson
Medical Physicist, PET/MRI
Umeå University Hospital, Sweden

Friday, October 2

12:30–13:30



Philips

Sidlaw

Innovation for you. Innovation with you.

The benefits of Multiband acceleration in ASL and functional MRI applications

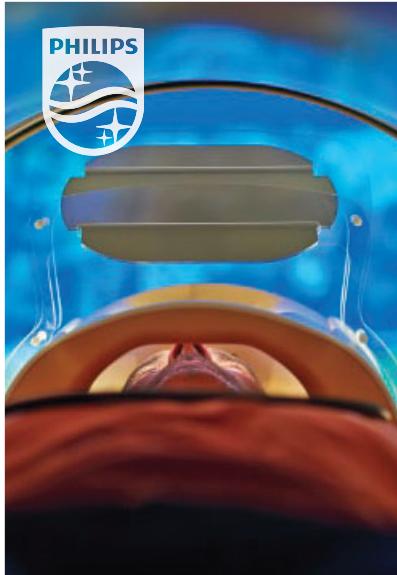
Dr. Sue Francis
Associate Professor and Reader in Physics, Faculty of Science, University of Nottingham, United Kingdom

The expanding role of MRI

in radiation therapy

Dr. Nico van den Berg
MRI Physicist and Associate Professor at University Medical Center Utrecht, the Netherlands





Designed for first time right imaging

The MRI experience is a challenge for patients young and old. Inconclusive image quality due to patient motion is a constant issue, making it difficult for clinicians to get accurate results in the first attempt. At the same time, one repeat exam can throw an entire day's schedule off by two to three hours, affecting throughput and patient satisfaction. Ingenia 1.5T S is designed for “First Time Right” imaging and addresses the issue in a holistic way.

Expect nothing less – Explore what Ingenia 1.5T S can mean for you at
www.philips.com/ingenia15ts

**Don't miss Philips lunch symposium at ESMRMB 2015
on Friday, October 2nd, 12:30 – 13:30.**

innovation you

Ingenia 1.5T S is not yet CE Marked. Not available for sale in all regions.

PHILIPS

Floorplans



Level 0

booth # Exhibitor

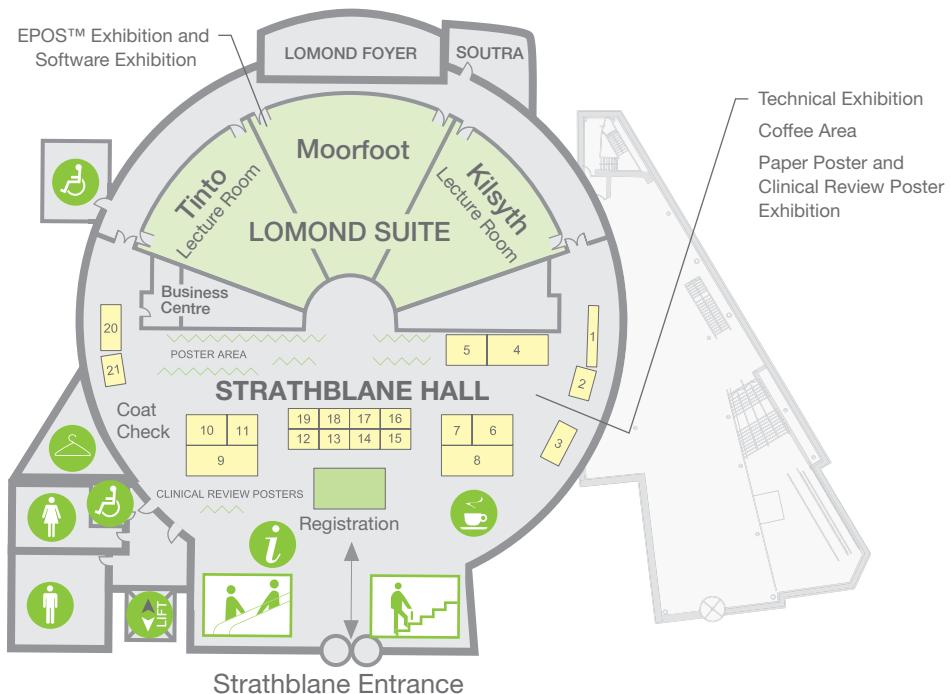
sorted by booth number

1	Wisepress
2	MR Solutions Ltd.
3	Mediso Medical Imaging Systems
4	Toshiba Medical Systems
5	Bayer Pharma
6	Bracco
7	Philips Healthcare
8	Siemens Healthcare
9	Bruker BioSpin
10	GE Healthcare
11	ISMRM

booth # Exhibitor

sorted by booth number

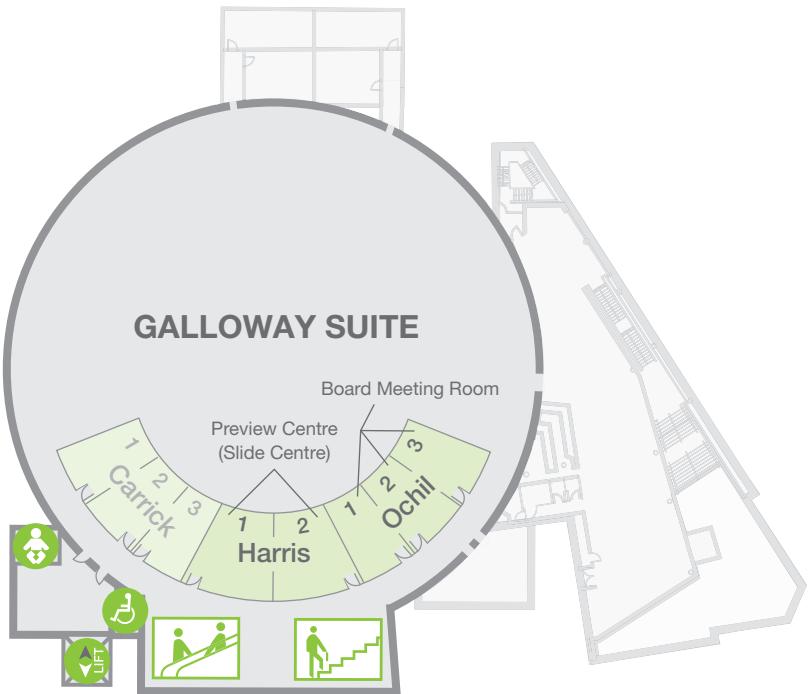
12	Rapid Biomedical
13	Pure Devices
14	Circle Cardiovascular Imaging Inc.
15	Hitachi Medical Systems Europe
16	Skope Magnetic Resonance Technologies
17	MR:comp / MRI-Tec
18	PulseTec Limited
19	ScanMed
20	ESMRMB
21	ZMT Zurich MedTech AG





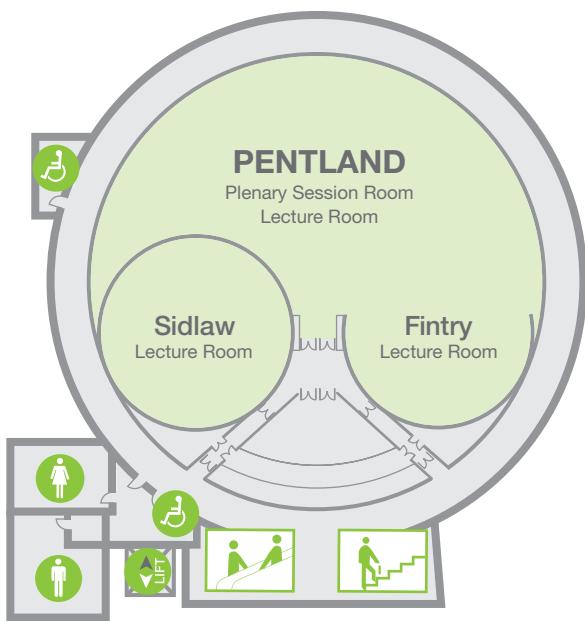
Floorplans

Level 1





Level 3



www.siemens.com/terra

MAGNETOM Terra

Translate 7T research power into clinical care

Welcome to a whole new world in magnetic resonance imaging. MAGNETOM Terra is designed to unlock the full power and potential of 7T imaging. All in one, whether for anatomical, functional, or metabolic imaging, or for basic research, MAGNETOM Terra increases your potential outcomes. Get ready to enter new territories in translating research into better patient MRI and exploit groundbreaking opportunities.

MAGNETOM Terra is still under development and not commercially available yet. Its future availability cannot be ensured.

With MAGNETOM Terra:

- **Unlock research beyond clinical limits** with 8-channel parallel transmit
- **Change the game in UHF business** with Siemens' 50% lighter 7T magnet
- **Double SNR for more precision** with clinical applications in Dual Mode
- **Join the largest research community** with over 65% of all UHF users

Exhibition Guide



Exhibitor

sorted by company name

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Bracco	6
Bruker BioSpin	9
Circle Cardiovascular Imaging Inc.	14
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Skope Magnetic Resonance Technologies	16
Toshiba Medical Systems	4
Wisepress	1
ZMT Zurich MedTech AG	21

booth

booth # Exhibitor

sorted by booth number

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6	Bracco
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18	PulseTeq Limited
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Exhibition Guide

Bayer Pharma AG

Müllerstrasse 178
13353 Berlin
GERMANY

Phone: +49 30 468 1111
www.radiology.bayer.co.uk

booth #5

Bayer Radiology & Interventional is a world-leading diagnostic imaging and therapeutic solutions provider established in January 2012. Mobilizing the combined power of Bayer's Medrad and Diagnostic Imaging unit integration, R&I transforms insight into innovation to enable improved patient care & productivity in CT, MRI, PET & interventional studies. The comprehensive & continually evolving R&I portfolio includes medical devices, contrast & radiation-dose management software, contrast media & equipment service. R&I tailors customer solutions that can help healthcare teams perform their work with greater confidence and satisfaction.

Bracco

Centro Galleria 2
Via Cantonale
6928 Manno
SWITZERLAND

mediarelations.imaging@bracco.com
www.braccoimaging.com

booth #6

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.

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, and Gastrointestinal Endoscopy. The diagnostic imaging portfolio is completed by a range of medical devices, advanced administration systems and informatics solutions.

The Company operates in over 100 markets worldwide, either directly or indirectly, through subsidiaries, joint ventures, licenses and distribution partnership agreements.

To learn more about Bracco Imaging, visit www.braccoimaging.com



Bruker BioSpin

**Rudolf-Plank Str. 23
76275 Ettlingen
GERMANY**

**Phone: +49 721 5161 6500
www.bruker.com/mri**

booth #9

Bruker BioSpin is the worldwide technology and market leader in preclinical Magnetic Resonance Imaging MRI. Bruker BioSpin provides animal MRI and small animal imaging solutions for the emerging market of preclinical and molecular MR imaging. By combining state-of-the-art rf coil and gradient technology with ultra-high field magnets, our systems deliver high spatial resolution inside living organisms.

We enable you to come closer to the molecular and cellular level research you are aiming at. Thanks to the innovative modular concept of our products, virtually any small animal MR imaging application in life science, biomedical and preclinical research can be conducted.

Circle Cardiovascular Imaging Inc.

**250, 815 8th Avenue SW
Calgary, AB T2P 3P2
CANADA**

**Phone: +1 403 453 2061
Fax: +1 403 338 1895
jocelyn@circlecv.com
www.circlecv.com**

booth #14

Circle Cardiovascular Imaging Inc. develops and markets cardiac post-processing software that allows for the evaluation and analysis of MR and CT images. Available for clinical and research use, the stand-alone software provides full DICOM and PACS connectivity. Circle operates worldwide and its products (cvi42, cmr42, ct42, and report42) have been approved for the Canadian, American, Australian, Korean and European markets. Circle's goal is to contribute to quality in cardiovascular imaging and research.





Exhibition Guide

ESMRMB

**European Society for
Magnetic Resonance in
Medicine and Biology**

**Neutorgasse 9
1010 Vienna
AUSTRIA**

**Phone: +43 1 535 13 06
Fax: +43 1 535 70 41
office@esmrmb.org
www.esmrmb.org**

booth #20

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. Another initiative has furthermore started in cooperation with the ISMRM in 2013: the Teach-the-Teachers programme offers young academic radiologists from emerging countries the opportunity of a two month fellowship in one of the leading MRI centres worldwide to be trained as an ESMRMB/ISMRM certified teacher in a specific field of applied MRI.

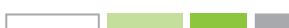
GE Healthcare

**283, rue de la Minière
78 533 Buc
FRANCE**

www.gehealthcare.com

booth #10

GE Healthcare provides transformational medical technologies and services to meet the demand for increased access, enhanced quality and more affordable healthcare around the world. GE (NYSE: GE) works on things that matter - great people and technologies taking on tough challenges. From medical imaging, software & IT, patient monitoring and diagnostics to drug discovery, biopharmaceutical manufacturing technologies and performance improvement solutions, GE Healthcare helps medical professionals deliver great healthcare to their patients. For more information visit our website www.gehealthcare.com





**Hitachi Medical Systems
Europe Holding AG**

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SWITZERLAND**

**Phone: +41 41 748 63 33
Fax: +41 41 748 63 32
welcome@hitachi-medical-
systems.com
www.hitachi-medical-
systems.com**

booth #15

Hitachi Medical Systems Europe is the European headquarters of Hitachi Medical Corporation Japan, which is part of the leading international electronics company Hitachi Ltd Group. With a history stretching back over 100 years, we have extensive experience of Open MRI, powerful high-field MRI and multi-slice CT as well as ultrasound imaging and optical topography. With 30 years of MRI tradition, our expertise in magnet, gradient and RF technology makes us a recognized leader in Open MRI. Our patient-friendly MR and CT systems combine outstanding image quality with advanced clinical applications and unbeatable economic performance. Visit our booth #15 and discover Hitachi's latest developments.

**ISMRM
International Society for
Magnetic Resonance in
Medicine**

**2300 Clayton Road,
Suite 620
Concord, California, 94520
UNITED STATES**

**info@ismrm.org
www.ismrm.org**

booth #11

The International Society for Magnetic Resonance in Medicine (ISMRM) is a nonprofit professional association dedicated to promoting communication, research, development and application of magnetic resonance techniques in medicine and biology. The ISMRM is a community made up of clinicians, physicists, engineers, biochemists and technologists – professionals united by a common interest in the ongoing dialogue between the scientific and clinical communities. In addition to sponsoring an annual meeting and other major educational and scientific workshops, it publishes two journals. The ISMRM 24th Annual Meeting & Exhibition will be held in Singapore 7-13 May 2016.





Exhibition Guide

Mediso Medical Imaging Systems

**1022, Budapest
Alsótörökész str. 14.
HUNGARY**

**Location:
1047, Budapest
Baross u. 91-95.
HUNGARY**

**gabor.nemeth@mediso.com
www.mediso.com**

booth #3

Mediso has been working in the field of nuclear and molecular medicine since 1990 with a profile of development, manufacturing, sales and servicing of multi-modality in-vivo imaging systems. The company offers complete solutions from hardware design to evaluation and quantification software, both for clinical patient care and high-level life science research into all animal models in between rodents and primates. Besides the unique triple-modality clinical SPECT-CT-PET hybrid AnyScan® system, Mediso launched the world's first pre-clinical integrated PET-MRI and SPECT-MRI cameras as members of the nanoScan® high-end small animal imager family, consisting of SPECT, PET, CT and MRI modalities. Mediso runs successfully two complex clinical diagnostic, research and educational centres and offers clinical and evaluation software trainings for the international medical community.

MR:comp / MRI-Tec

**Buschgrundstr. 23
45894 Gelsenkirchen
GERMANY**

**Phone: +49 209 1497730 0
Fax: +49 209 149773088
info@mrcmp.com
www.mrcmp.com**

booth #17

www.MRI-Tec.com is your provider for all products and services for the MRI environment. Benefit from our strength the competence of our strong partners. MRI-Tec is distributing worldwide MR Safe and MR Conditional products like equipment, tools and accessories. Offering MR:comp's seminars in USA and Europe for several occupational groups concerning MR Safety and Compatibility as well as www.mrcmp.com consulting services for R&D and MRI safety testing for implants and other medical devices according to standardized test methods of ASTM, IEC, ISO. Get also MagResource in the EU, the most complete and up-to-date database of MRI implant safety information in the world, www.MagResource.eu. www.MagResource.com provides a searchable online database of printable MRI safety information for medical implants. Our database lists over 7500 implants & features daily updates. MagResource database has the most comprehensive and up-to-date MRI Implant Safety information in the world. MagResource is designed by an MRI tech for MRI tech's.



MR Solutions Ltd.

Ashbourne House
The Guildway
Old Portsmouth Road
Guildford
Surrey
GU31LR
UNITED KINGDOM

Phone: +44 1483 532146
Fax: +44 1483 594084
katie.tre-vett@mrsolutions.com
www.mrsolutions.com

booth #2

Philips Healthcare

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5680 DA Best
THE NETHERLANDS

Phone: +31 40 2785600
healthcare@philips.com
www.philips.com/healthcare

booth #7

MR Solutions is the Worlds' leading developer of cryogen free, preclinical MR imaging systems at 3T, 4.7T AND 7T. The company also supplies PET & SPECT modular units to accessorise its system for simultaneous or in line imaging possibilities. MR Solutions' has over 30 years of imaging and magnet technology development behind it and can upgrade existing unsupported or failing magnets or convert Clinical systems for pre clinical use. The company is also a key supplier of Spectrometers for clinical system operation to OEM's and research institutes worldwide.

At Philips, we look beyond technology to the experiences of patients, providers and caregivers across the health continuum. We unlock insights leading to solutions for the most meaningful moments of care, whether in the hospital or the home. We bring together clinical breadth and depth of expertise, technology and services, actionable data, consultative new business models and partnerships.

Together, with our customers, we take risks and share responsibility – so that we can transform how care is delivered and experienced. It's a unique perspective empowering us all to create a healthier future. Learn more at booth 7.





Exhibition Guide

PulseTeq Limited

**64-66 High St, Chobham,
Surrey, GU24 8AA
UNITED KINGDOM**

**sales@pulseteq.com
www.pulseteq.com**

booth #18

PulseTeq offers a wide range of RF coils for clinical research and pre-clinical applications along with phantoms, test methods and support for your research programmes.

Coils for clinical research including custom multi-element 1H receive coils and a range of coil designs for multinuclear applications. The latter cover the full range of MR nuclei including ³¹P, ¹³C, ²³Na, ¹⁹F, ³He and ¹²⁹Xe. These coils can be offered for customised to a range of applications including in the brain, calf, thigh, liver, and heart. Designs include multi-element coils and dual frequency coils, the latter including quadrature coil designs optimised for spectral decoupling. Coils for pre-clinical applications cover both birdcage coils and surface coils for hydrogen imaging along with a range of multinuclear coils, both single and dual frequency configurations.

PulseTeq offers a complete service, not just our RF coils but also phantoms, calibration methods, QA methods, installation options and advice on getting the best from your product.

Pure Devices GmbH

**Eisenbahnstrasse 53
97084 Würzburg
GERMANY**

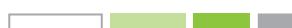
**Phone: +49 931 7105 35 90
Fax: +49 931 7105 35 95
info@pure-devices.com
www.pure-devices.com**

booth #13

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, electro-technicians 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 Biomedizinische
Geräte / RAPID Biomedical
GmbH**

**Technologiepark, Pav. 4
Kettelerstrasse 3-11
97222 Rimpf
GERMANY**

**Phone: +49 93 65 88 26 0
Fax: +49 93 65 88 26 99
info@rapidbiomed.de
www.rapidbiomed.de**

booth #12

RAPID Biomedical stands for customized RF coils that are individually designed to the need of the scientific MR community. Through the high level RF expertise and attentive alliances with the MR system manufacturers we offer full compatibility for our coil solutions whether standard or customized.

In more than 15 years of company history RAPID Biomedical has delivered over 1200 different coil designs into more than 30 countries all over the world. We have thorough experience in designing and manufacturing coils from low field (from 0.2 T) to UHF human and animal scanners up to 21 T NMR systems. The range of non-proton solutions delivered by RAPID Biomedical includes 11 different nuclei (and counting). The coils are manufactured in Rimpf near Wuerzburg, Germany.

The current R&D work concentrates on PET/MR compatible coils, coil packages for hyperpolarized nuclei, human 7 T coils, 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 on the exhibition floor. Take your chance in our traditional quiz and see RAPID products and scientific results first hand.

ScanMed

**9840 S 140th St,
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USA**

**Phone: +1 402 934 2650
Fax: +1 402 778 9699
sales@scanmed.com
www.scanmed.com**

booth #19

ScanMed is the industry-leader in MRI coil innovation, Repair and Refurbishment, Contract Engineering, and Contract Manufacturing. Our innovative Game-Changer product line includes first-of-a-kind MRI coils such as the wearable diaper-like PROCURE Coil for prostate/pelvic imaging, wearable Kinematic Shoulder Coil, Orbit and Mandible Array, and Blanket Coil - yes, a coil array housed in a blanket! ScanMed boasts the most sophisticated tools with the ability to rapid prototype and achieve "shortest time to production" in the industry using our various design software, 3D printers, injection molding, tool making, painting and most importantly our own 1.5T 16 channel MRI system for performance and diagnostic testing. Whether you are a researcher seeking a one-of-a-kind MRI antenna or an OEM desiring fast, reliable and affordable contracting, we have the coil design and manufacturing services to meet your need on any MRI scanner. IS09001 and IS013485 Certified.





Exhibition Guide

Siemens Healthcare GmbH

**Henkestraße 127
91052 Erlangen
GERMANY**

**Phone: +49 69 6682 6602
Contact.Healthcare@
siemens.com
www.healthcare.siemens.com**

booth #8

The Siemens Healthcare GmbH 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.

Managing rapid procedure growth, minimizing costs and improving satisfaction, while at the same time achieving clinical excellence are some of the central challenges affecting healthcare around the globe. Magnetic Resonance, a Business Unit of Siemens Healthcare, turns these challenges into opportunities. Four unique technologies, Tim, Dot, Trendsetting Applications, and Life Design, offer our customers exceptional image quality, efficiency & speed, and patient friendliness, while at the same time offering investment protection. Equipped with these technologies and a very strong global collaboration network, we enable our customers to lead MRI.

**Skope Magnetic Resonance
Technologies LLC**

**Gloriastrasse 35
8092 Zurich
SWITZERLAND**

**Phone: +41 43 500 80 60
contact@skope.ch
www.skope.ch**

booth #16

Skope stands for excellence in dynamic field measurement, characterization, calibration, and control.

We offer unique products for state-of-the-art field management to MR engineers and MR scientists.

With our cameras you would measure the encoding field dynamics immediately present in your MR system. This is a prerequisite for the successful implementation of your enhanced MR methods such as fast imaging, quantitative phase contrast imaging, high-field, and diffusion imaging.

MR manufacturers and MR research institutes hence save money and time by accelerating R&D and catalyzing advanced applications.





Toshiba Medical Systems

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2718 RP Zoetermeer
THE NETHERLANDS**

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Fax: +31 7936 89 444
info@tmse.nl
www.toshiba-medical.eu**

booth #4

For over 130 years Toshiba's research and development has improved the health and welfare of people around the world. Today, Toshiba Medical Systems offers a full range of diagnostic imaging products and is a reliable service partner in more than 120 countries around the globe. Our Mission is to deliver the best quality products and services, as well as the industry's best aftersales support through long-term, customer focused partnerships.

Wisepress Medical Bookshop

**25 High Path
Merton Abbey
London
SW19 2JL
UNITED KINGDOM**

**Phone: +44 20 8715 1812
Fax: +44 20 8715 1722
marketing@wisepress.com
www.wisepress.com**

booth #1

Wisepress.com, Europe's leading conference bookseller, has a range of books and journals relevant to the themes of the meeting. In addition to attending 200 conferences per year, Wisepress has a comprehensive medical and scientific bookshop online with great offers. Follow us on Twitter for the latest news @WisepressBooks.





Exhibition Guide

ZMT Zurich MedTech AG

**Zeughausstrasse 43
8004 Zurich
SWITZERLAND**

**Phone: +41 44 245 9765
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s4l-sales@zurichmedtech.com
www.zurichmedtech.com**

booth #21

ZMT Zurich MedTech AG, a leading SME located in Zurich Switzerland, is committed to empowering medical technology with cutting-edge computational simulation tools and dedicated test systems. ZMT is a sister company of Schmid & Partner Engineering AG (SPEAG). Together, our close ties to two leading research institutions, the IT'IS Foundation and ETH Zurich, guarantee the most advanced products and services with an unmatched level of reliability. Our product Sim4Life is the first commercial multiphysics, multiscale simulation platform for computational BioMed and Life Sciences applications in complex anatomies. Sim4Life enables researchers, clinicians, and manufacturers to mimic real biomedical and physiological environments, optimize device design and safety, accelerate decisions, and achieve lower costs.

Welcome!

Join us at ESMRMB's Welcome Reception!

Thursday, October 1, 19:00

National Museum of Scotland
Chambers Street
EDINBURGH EH1 1JF

Please present your badge at the main entrance!

The ESMRMB Local Organising Committee would like to thank the following companies for their support:

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Edinburgh Imaging
www.ed.ac.uk/edinburgh-imaging


BRUKER

 **Bayer HealthCare**

Bayer HealthCare kindly provided financial support to
ESMRMB & the Annual Scientific Congress in Edinburgh 2015

2014 Impact Factor :
2. 869 !
(ranked 30 / 125)

- 2015 MAGMA Special Issues !
“Tissue segmentation in MRI”
with Fritz Schick as Guest-Editor
(the papers are currently under review)

**“Ultrahigh Field MR:
Cutting Edge Technologies Meet Clinical Practice”**
with Markus Barth, Frank Kober, Thoralf Niendorf,
Siegfried Trattnig as Guest-Editors
See the call for papers on-line
(deadline : October 31, 2015)

- 2014 MAGMA Special Issue:
“X-nuclei magnetic resonance imaging”
with Simon Konstandin and
Lothar Schad as Guest-editors

- 2013 MAGMA Special Issue:
“MRI and PET together: friends or foes”
with Thomas Beyer and
Ewald Moser as Guest-editors

*Reviewing cycle
(first answer to authors):
5 weeks*
*Time to publication on-line
after acceptance:
3 weeks*

Editor in Chief:
Patrick J. Cozzzone

Online manuscript submission
and peer-review process via
<http://mc.manuscriptcentral.com/magma>

ESMRMB 2016

SEPT. 29 – OCT. 1

VIENNA/AT

ESMRMB
European Society for Magnetic Resonance in Medicine and Biology

33RD ANNUAL SCIENTIFIC MEETING



The European Forum for MR research
and clinical practice
www.esmrmb.org

www.esmrmb.org