

ISMRRM



Benelux

ANNUAL MEETING 2026



PROGRAM BOOK

ANTWERP, BELGIUM
30 JANUARY 2026



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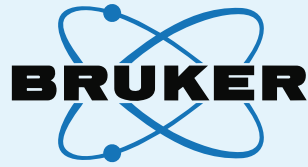
The Road to Clinical Impact



MRI research is a journey. From technical innovation to real-world use, our work moves step by step toward improving diagnosis, efficiency, and patient care.

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NVISION

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Welcome Letter

We are delighted to welcome you to the **ISMRM Benelux Chapter Meeting 2026 at BluePoint Antwerp!** This year, our focus is on the **Clinical Impact** of MRI, bridging cutting-edge research with real-world patient care. A theme which clearly also had a big impact on the community, indicated by a record breaking abstract submission numbers.

We are particularly excited to share with you the results of the **Clinical Unmet Need Challenge**. Three participating teams are excited to showcase their innovative solutions with you during our second plenary session, followed by insightful discussions with experts and the audience, a fresh format designed to spark collaboration and drive our field forward. In addition, don't miss our **Meme Challenge** and **Graphical Abstract Challenge** near the power-pitch posters, where submissions compete for audience-voted prizes!

Beyond the science, prepare for a day of connection and amusement. Look out for our **ISMRM Benelux Bingo** and other fun challenges running throughout the conference.

We are immensely grateful to our speakers, sponsors, and, most of all, to **you**, our vibrant community of researchers, clinicians, and industry professionals. Your passion is what makes this meeting a cornerstone of MR innovation in the Benelux.

Here's to a day of inspiration, practical insights, and valuable connections!

Warm regards,

Joppe Van Rumst

On behalf of the ISMRM Benelux Meeting Committee 2026



**Instrumentation
+
Innovation
+
United Researchers
=
Best Science**

PRECLINICAL IMAGING

Creating Imaging Innovation

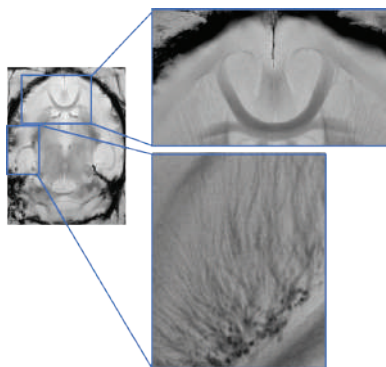
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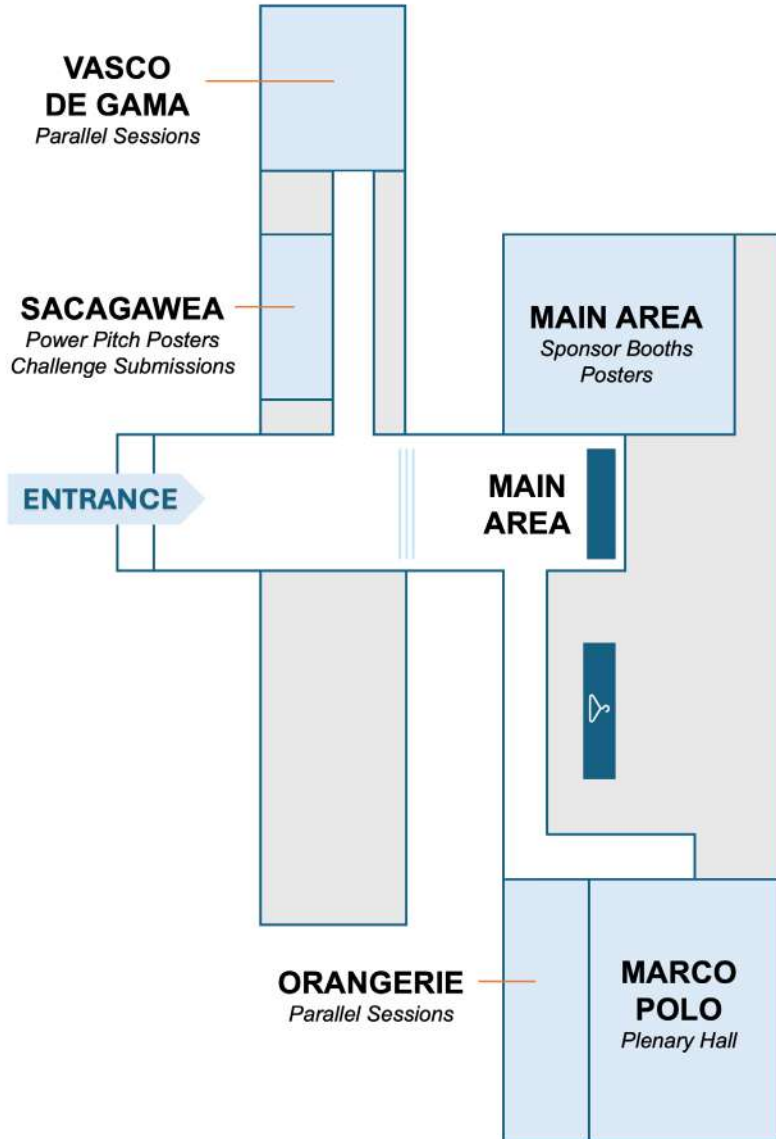
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Communications/Proceedings: Reagan Tompkins,
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Communications/Proceedings: Marialena Tsarouchi,
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Clinical representative/Proceedings Elon Wallert,
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BluePoint Map



GE HealthCare @ ISMRM Annual Meeting 2026

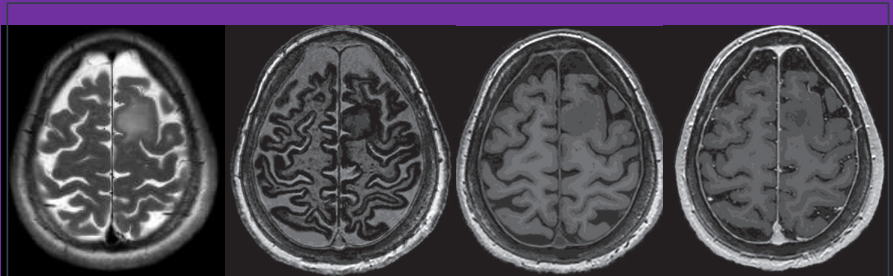
Discover how we can help to advance your research

SIGNA 7T - Fin2U MRI Flanders research center Zellik



Conventional Recon AI2019Recon DL

SIGNA Premier 3T - Abnormality of the Supramarginal Gyrus



Axial T2 PROPELLER

Axial EDGE

Axial T1 BRAVO

Axial T1 BRAVO Post Gad

SIGNA™ Premier 3.0T MR30.1 Hull Royal Infirmary - UK



GE HealthCare

PHILIPS

✦ Betere zorg voor meer mensen

In de zorg betekent tijd zoveel meer. Maar voor zorgverleners als jij is er simpelweg te weinig tijd. Daarom geven onze innovaties jou tijd voor wat er echt toe doet. Tijd om slimmer, makkelijker en duurzamer te zorgen. Zodat jij het allerbelangrijkste kunt geven dat er is: betere zorg voor meer mensen.



Ontdek meer

PROGRAM

8:45 - 9:30

Registration & Coffee

9:30 - 10:40

Opening Session
Power Pitches I

Marco Polo

10:40 - 11:40

Poster Session I + Coffee Break

11:40 - 12:40

Parallel Session I
Musculoskeletal & Cardiac MRI
Acquisition & Processing I
Neuroimaging I

*Vasco de Gama
Orangerie
Marco Polo*

12:40 - 13:40

Lunch
General Assembly Meeting

13:40 - 14:45

Clinical Challenge + Panel Discussion
Power Pitches II

Marco Polo

14:45 - 15:45

Poster Session II + Coffee Break

15:45 - 16:45

Parallel Session II
Abdominal & Breast MRI
Acquisition & Processing II
Neuroimaging II

*Vasco de Gama
Orangerie
Marco Polo*

16:45 - 17:20

Awards Ceremony
Closing Remarks

Marco Polo

17:30-18:30

Networking Reception

Main Area

18:30-21:00

Dinner

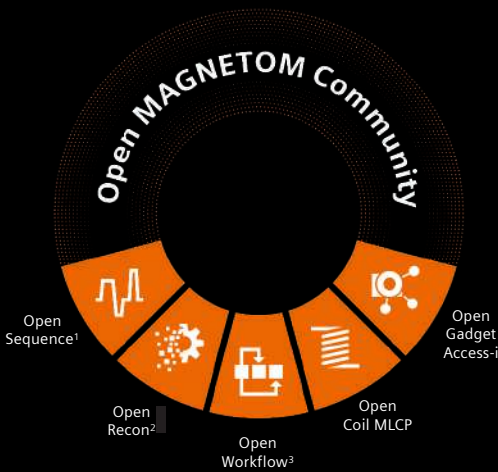
Main Area

Open Innovation Interfaces



Fueling innovation in MRI
with the market leader in MRI

[siemens-healthineers.com/open-magnetom-community](https://www.siemens-healthineers.com/open-magnetom-community)



Create

directly in the scanner environment

Apply

solutions seamlessly in clinical workflows

Scale

capabilities beyond your institutions

¹ The product is currently under development and not commercially available. It's not for sale in the U.S.A. Its future availability cannot be ensured.

² Open Recon is to add clinical reconstructions to the system, if signed and released for clinical use by SHS. Any other recon used e.g., by researchers is automatically labelled not for diagnostic use, which may require observation of national regulations. Researchers need to accept the related T&C to get the SDK for building their own containers.

³ Open Workflow is pending 510(k) clearance and is not yet commercially available in the United States. Its future availability cannot be guaranteed.

Power Pitches I

Plenary session, 10:25 - 10:40

Marco Polo

Posters can be found in the Sacagawea Room during the following Poster I session

PP-01 Jelmer Van Lune - *UMC Utrecht*

Deep learning-based relaxometry from conventional brain MRI: applications to a large-scale, clinically heterogeneous dataset

PP-02 Antonio Portaluri - *Radboudumc*

Evaluating Synthetic T2-Weighted Breast MRI: A Multi-Reader, Multicenter Study

PP-03 Roos de Lange - *UMC Utrecht*

Fetal Cardiac MRI to Improve the Diagnosis of Congenital Heart Disease: the FUTURE 2.0 study

PP-04 Alette Tijburg - *University of Twente*

Robust Quantification Pipeline for Gastrointestinal Metabolism using Dynamic Deuterium Metabolic Imaging at 7T

PP-05 Ivana Kancheva - *Leiden UMC*

Studying Blood-to-CSF Water Transport Using Non-Invasive Long-TE pseudo-Continuous Arterial Spin Labeling in Healthy Mice

Parallel Session I - Musculoskeletal & Cardiac MRI

11:20 - 12:40

Vasco de Gama

Moderators: Renske Merton, *Amsterdam UMC*
Susi Rauh, *Leiden UMC*

O-01 Özge Fındık Şener - *Leiden UMC*
MRI monitoring of ultrasound-guided intramuscular administration of non-viral gene editing delivery in Duchenne muscular dystrophy

O-02 Maaïke Smit - *Leiden UMC*
Studying functional and pathological effects on dynamic phase-contrast MRI measurements in muscles: A simulation framework

O-03 Esther Steijvers-Peeters - *Scannexus*
Quantitative Susceptibility Mapping of the knee cartilage at 7 Tesla with ASPIRE Multi-Echo Gradient Echo and water-fat Total Field Inversion

O-04 Luc de Ruiter - *Amsterdam UMC*
3D radial 4D flow with rigid motion detection and correction

O-05 Kadir Berat Yildirim - *TU Delft*
Measuring B1+ distortion of metallic implants: Analysis of Magnitude- and Phase-Based Methods under strong B0-inhomogeneities

Parallel Session I - Acquisition & Processing I

11:20 - 12:40

Orangerie

Moderators: Andor Veltien, *Radboudumc*
Daan Christiaens, *KU Leuven*

O-06 Gerrit Arends - *UMC Utrecht*

Towards high-performance breast diffusion MRI: evaluation of temperature, nerve stimulation, and diffusion measurements with a prototype breast gradient insert

O-07 Martina Savić - *TU Delft*

Design and Validation of 3D-Printed Microstructure Phantoms to Assess Diffusion-Mediated Susceptibility Effects on R2 and R2*

O-08 Stephanie Gonzalez Riedel - *TU Eindhoven*

Extending an MRI simulator for education (eduMRIsim) with realistically simulated artefacts

O-09 Konstantinos Olympios - *UMC Utrecht*

3D Rapid Deuterium Metabolic Imaging of the Human Brain at 7T using Low-Rank Subspace Modeling

O-10 Mathijs Kikken - *UMC Utrecht*

Absolute MR Thermometry for RF Safety Assessment Using Spectroscopy and Metabolite Cycling

Parallel Session I - Neuroimaging I

11:20 - 12:40

Marco Polo

Moderators: Rodrigo Massera, *KU Leuven*
Thijs de Buck, *Spinoza Centre for Neuroimaging*

O-11 Anne Rückert - *UMC Utrecht*
Self-Supervised Deep Learning for Label-Free Brain Metastasis Detection in Clinical MR Imaging

O-12 Christian Vogel - *Spinoza Centre for Neuroimaging*
Variable T1 in deep brain stimulation targets requires patient-specific optimization of inversion recovery protocols at 7T

O-13 Helena Durrant - *Leiden UMC*
Influence of pCASL labeling duration on blood-to-CSF water exchange measurements: better SNR and proof of direct exchange

O-14 Madda Debiasi - *Leiden UMC*
High-resolution directional CSF velocity quantification in humans at 7T

O-15 Dario De Smet - *University of Antwerp*
Revealing the underlying pathophysiological mechanisms of MdDS with the use of functional magnetic resonance imaging

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Power Pitches II

Plenary session, 10:30 - 10:45

Marco Polo

*Posters can be found in the Sacagawea Room
during the following Poster II session*

PP-06 Karleen Oonk - *UMC Utrecht*
**Evaluation of leg muscle fasciculations in healthy volunteers
using diffusion tensor imaging (DTI)**

PP-07 Jonas Maes - *University of Antwerp*
**Direct estimation of anatomical changes in longitudinal MRI with
recurrent inference machines**

PP-08 Luuk Vos - *Amsterdam UMC*
**Spatiotemporal relationship between hamstring muscle
activation and strain rate during dynamic knee flexion**

PP-09 Lloyd Plumart - *UMC Groningen*
**Cross-sectional mapping of optic nerve neurodegeneration in
glaucoma using diffusion MRI**

PP-10 Ana Boamfa - *University of Twente*
**Imaging the Lactating Breast: Dixon MRI for Quantifying
Composition Changes Following Milk Expression**

Parallel Session II - Abdominal & Breast MRI

15:45 - 16:45

Vasco de Gama

Moderators: Maarten Terpstra, *UMC Utrecht*
Nienke Wassenaar, *Amsterdam UMC*

O-16 Willemijn Deen - *Leiden UMC*

**Renal Perfusion at Midfield (0.6 T) Using Arterial Spin Labeling:
Feasibility and Comparison to 3 T**

O-17 Germen Wennemars - *Radboudumc*

**Feasibility of automated roadmapping and holographic
visualization for MR-guided endovascular liver procedures**

O-18 Jamila Guichelaar - *UMC Utrecht*

**Microstructural Assessment of Oral Squamous Cell Carcinoma
Using Time-Dependent Diffusion MRI**

O-19 Mart van Straten - *Leiden UMC, TU Eindhoven*

**Breast Diffusion-Weighted Multi-shot EPI with Model-Based Deep
Learning Reconstruction**

O-20 Nika Rasoolzadeh - *Radboudumc*

**Comparative Analysis of AI and Radiologist Assessments for
Breast Cancer Detection on MRI**

Parallel Session II - Acquisition & Processing II

15:45 - 16:45

Orangerie

Moderators: Edwig Versteeg, *UMC Utrecht*
Martijn Nagtegaal, *Leiden UMC*

O-21 Maria Paula Del Popolo - *UMC Utrecht*

**CL+ μ GUIDE: Posterior-Guided Sequence Optimisation for
Multidimensional MRI**

O-22 Yahya Almasri - *UMC Utrecht*

**High-Acceleration Silent EPI with Reduced Distortion Using
Ultrasonic Gradient Encoding**

O-23 Dilara Tank - *Amsterdam UMC*

**Overcoming the Spatial-Temporal Trade-off in DCE MRI Using
Recurrent Inference Machines**

O-24 Hanne Baeyens - *KU Leuven*

**Direction-interleaved spirals for direct estimation of mean
diffusion-weighted images**

O-25 Ben Neijndorff - *Netherlands Cancer Institute*

**Reproducibility of intravoxel incoherent motion imaging: impact
of the fitting algorithm**

Parallel Session II - Neuroimaging II

15:45 - 16:45

Marco Polo

Moderators: Daphne Boucherie, *Amsterdam UMC*
Patrick Fuchs, *University of Antwerp*

O-26 Rob Colaes - *KU Leuven*

Identifying Risk Factors for Cancer-Related Cognitive Decline using Multimodal MRI

O-27 Tom Hendricks - *TU Eindhoven*

SIINR: Structurally Informed Implicit Neural Representations for Super-Resolution of Highly Anisotropic Clinical Diffusion MRI

O-28 Fieke Prinse - *Erasmus MC, Leiden UMC*

Neuroinflammatory changes in symptomatic frontotemporal lobar degeneration measured using 7T diffusion-weighted spectroscopy

O-29 Shakira van der Panne - *Amsterdam UMC*

DCE-MRI gadolinium leakage assessment in a novel mouse model of ultrasound-microbubble mediated blood-brain barrier opening

O-30 Anne Voogdt - *Ghent University*

Influence of hormonal contraception on cerebral perfusion



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Preclinical MR scanner
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9.4T - 7.0T - 4.7T - 3.0T
Cryogen-free - large bore 42 cm

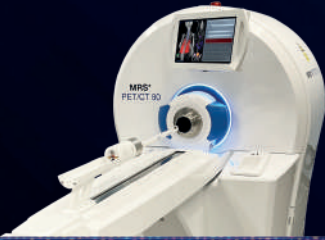
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Preclinical SPECT-PET/MR scanner
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MRS*SPECT-PET/CT

Preclinical SPECT-PET/CT scanner
CLIP ON Technology MR compatible



Oncology

Cardiology

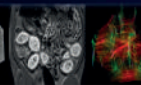
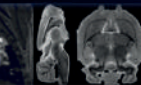
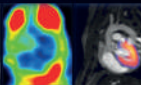
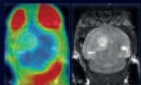
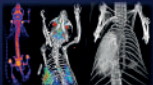
Neurology



Angiography

Diffusion

Relaxometry



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Poster Index

ODD numbers in Poster Session I,
EVEN numbers in Poster Session II

ABDOMINAL MRI

P-01	Li Shen Ho, <i>UMC Utrecht</i>	How reproducible is ^{31}P MRSI of the liver at 7T? A multicenter test-retest study
P-02	Arend Heerschap, <i>Radboudumc</i>	Diffusion-weighted MR spectroscopy of the pathological prostate

ACQUISITION STRATEGIES

P-04	Michael McGrory, <i>UMC Utrecht</i>	Ultrasonic Encoding to Enable Fast and Silent 3D Quantitative Mapping Using MR-STAT
P-05	Maaïke van Tol, <i>Leiden UMC</i>	Mapping pulsatility along the vascular tree using time-encoded arterial spin labeling MRI
P-06	Lotte van der Voort, <i>UMC Utrecht</i>	Assessing the contribution of a hypercapnic-induced local blood volume change on DENSE MRI derived volumetric strain
P-07	Zoia Laraib, <i>Radboudumc</i>	Image Quality in Breast DWI Using DL readout-segmented EPI: A Comparison with Standard readout-segmented EPI at 3T
P-08	Eva Guzmán Chacón, <i>Donders Centre for Cognitive Neuroimaging</i>	Comparing accelerated encoding strategies for Multi-echo Gradient Echo Quantitative Imaging free of physiological artifacts
P-09	Oscar van der Heide, <i>UMC Utrecht</i>	A Vendor-Agnostic Pulseseq Implementation of MR-STAT for fast, high resolution quantitative MRI
P-10	Sander Kiewiet, <i>University of Twente</i>	Simulation-guided optimization of TSE sequence parameters using derivative-free gradient descent
P-11	Bas Onck, <i>University of Twente</i>	Discontinuous measurement of T1 by Delayed Acquisition and Spoiled Excitation Relaxometry (DASHER)
P-12	Fei Xu, <i>UMC Utrecht</i>	Whole brain T1, T2, PD & T2* quantification in 5 minutes with multi-echo MR-STAT

Poster Index

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EVEN numbers in Poster Session II

CARDIOVASCULAR MRI

P-29	Ali Amiri, <i>TU Delft</i>	Trans-stenotic pressure gradient estimation in the FDA benchmark nozzle using phase-contrast MRI and a modified Bernoulli model
P-30	Thomas Olausson, <i>UMC Utrecht</i>	Characterizing Cardiac Dynamics of Arrhythmic Patients with 3D+t CMR-MOTUS and Dynamic Mode Decomposition
P-31	Maarten Terpstra, <i>UMC Utrecht</i>	Fast undersampled dynamic MRI reconstruction using explicit representation learning with Gaussian splatting

CONTRAST MECHANISMS

P-13	Maxime Imperatori, <i>Maastricht UMC+</i>	Microplastics in MR imaging
P-14	Merijn Calis, <i>Ghent University</i>	Measurement of Intracranial Pressure using MR Elastography in a Phantom Model: An Experimental Study
P-15	Ayda Arami, <i>TU Delft</i>	Towards Imaging Microbubble Contrast Agents with MRI: Simulation, Phantom, and Pre-clinical Results
P-16	Martijn Nagtegaal, <i>Leiden UMC</i>	T1 and T2 mapping of the human brain across magnetic field strengths from 0.047 T to 7.0 T

LOW FIELD MRI

P-54	Daisy van den Berg, <i>Amsterdam UMC</i>	Generalization of accelerating low-field MRI using the CIRIM network and knee, spine and brain data
P-55	Mart Kortman, <i>University of Twente</i>	A low-field tilting MRI based assessment of the visibility and position of polypropylene mesh after sacrocolporectomy
P-56	Beatrice Lena, <i>Leiden UMC</i>	Speed versus Quality in Low-Field MRI: Quantitative Analysis and Radiological Evaluation of Standard and Accelerated images

Poster Index

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DIFFUSION MRI

P-68	Ilse Peek, <i>UMC Utrecht</i>	Fiber-specific estimation of intra-voxel T1 relaxation time in the human brain cortex with multidimensional MRI
P-69	Marina Di Stefano, <i>UMC Utrecht</i>	Optimizing spherical deconvolution for fetal brain imaging: tract and gestational age effects
P-70	Jeroen de Groot, <i>UMC Utrecht</i>	Protocol Optimization for IMPULSED-Based ex-vivo Microstructural Assessment Using OGSE and PGSE Simulations
P-71	Siebe Leysen, <i>KU Leuven</i>	A sparse, multidimensional diffusion MRI representation for clinically feasible rotation-invariant microstructure mapping
P-72	Daan Kuppens, <i>Amsterdam UMC</i>	Spatially-Aware Neural Controlled Differential Equations for IVIM MRI Parameter Estimation in Esophageal Cancer Patients

INTERVENTIONAL MRI

P-42	Koen Custers, <i>TU Eindhoven</i>	Simultaneous T1-based and PRFS Thermometry with Multi-Echo MP2RAGE sequence
P-43	Shota Hodono, <i>Donders Centre for Cognitive Neuroimaging, Radboud University</i>	3D Displacement Vector Field Imaging for Transcranial focused Ultrasound Stimulation (TUS) cross-beam localization
P-44	Evangelia Ilia, <i>University of Twente</i>	Extended Reality for MRI-Guided Percutaneous Interventions : Evaluation on a Prostate Phantom
P-45	Erik Arts, <i>University of Twente</i>	Out-of-bore Respiratory Tracking for MRI-guided Percutaneous Interventions using a Noise Navigator
P-46	Osman Akdag, <i>The Netherlands Cancer Institute</i>	Inter-patient heterogeneity of T1 and T2 relaxation times and visibility of liver metastases treated on an MR-linac

Poster Index

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FUNCTIONAL MRI

P-73	Ximaine van der Burg, <i>Leiden UMC</i>	Implementation of visual stimulation fMRI to assess cerebrovascular reactivity in mice
P-74	Sjir Schielen, <i>TU Eindhoven</i>	Localized Frequency Differences between Functional Brain Networks in Autism through Wavelet Analysis
P-75	Josh Wilhelm, <i>Spinoza Centre for Neuroimaging</i>	Stimulus-driven phase encoding to track temporal dynamics across cortical areas and layers using 7T fMRI
P-76	Amina Zidane Burgess, <i>Spinoza Centre for Neuroimaging</i>	Cerebellar and cerebral BOLD patterns during social reciprocity: a 7T interactive drawing task fMRI study
P-77	Emiel Roefs, <i>Leiden UMC</i>	Vasomotor dysfunction in cerebral amyloid angiopathy (CAA) characterized by VASO and BOLD fMRI
P-78	Thijs Roos, <i>Amsterdam UMC</i>	Flickering Light-Induced Modulation of Cerebrovascular-CSF Flow Coupling: an fMRI study
P-79	Anne Marijn Bruijn, <i>Amsterdam UMC</i>	Linking functional connectivity to striatal dopamine signaling: a connectome-based predictive modeling approach
P-80	Choi Deblieck, <i>University of Antwerp</i>	Brain Plasticity Beyond Earth: IPL/SPL Connectivity after Spaceflight Relates to Adaptive Spatial Cognition in Cosmonauts
P-81	Justyna Gula, <i>Maastricht UMC+</i>	fMRI Connectivity-Based Clustering of PVNH to guide SEEG implantation
P-82	Eline Vansina, <i>Amsterdam UMC</i>	Effects of nuisance regression strategies on functional connectivity in awake and anaesthetised preclinical resting-state fMRI
P-83	Soetkin Beun, <i>Ghent University</i>	Sex Differences in DMN Connectivity in Aging Are Independent of Vascular Lesion Burden and Cognitive Status.
P-84	Daphne Boucherie, <i>Amsterdam UMC</i>	Dose-dependent modulation of target-enriched functional networks by S-ketamine: a pharmacological MRI study

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MUSCULOSKELETAL MRI

P-32	Laura Barendsz, <i>TU Eindhoven</i>	Potassium Enables Wideband Dielectric Property Estimation via Multinuclear MRI-Based $^1\text{H}^{23}\text{Na}^{39}\text{K}$-TiCEPT
P-33	David Heesterbeek, <i>UMC Utrecht</i>	3D Quasi-static elastography on physiological timescales
P-34	Linda Heskamp, <i>UMC Utrecht</i>	Determinants of qMRI variation in skeletal muscle: Effects of sex, age and muscle volume
P-35	Isabel Engelen, <i>UMC Utrecht</i>	Whole-body DTI for assessing fasciculations and muscle microstructure in ALS
P-36	Evgenios Kornaropoulos, <i>University of Liège</i>	From Vendor-Based to Open-Source Diffusion MRI for Quantitative Mapping of Lumbosacral Nerve Roots
P-37	Jiqing Huang, <i>University of Liège</i>	Impact of Magnetic Field Strength on Radiomics-Based Knee Injury Diagnosis
P-38	Daniëlle Blom, <i>Maastricht UMC+</i>	A robust calibration approach for deuterium metabolic imaging of skeletal muscle at 7 T using a dual-tuned $^1\text{H}/^2\text{H}$ surface coil
P-39	Max van Riel, <i>UMC Utrecht</i>	Robust muscle function analysis from time-resolved 4D strain measurements
P-40	Susi Rauh, <i>Leiden UMC</i>	Integration of a harmonized protocol for the diagnosis of neuromuscular disease in the clinical workflow across centers
P-41	Pandichelvam Veeraiah, <i>Scannexus</i>	Test-retest reliability of ^{13}C-MRS with an adiabatic excitation pulse to quantify glycogen in human muscle and liver at 7T

Poster Index

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HARDWARE DEVELOPMENT

P-47	Jules Vliem, <i>TU Eindhoven</i>	Design, Construction, and Characterization of a 37 mT Inward-Outward Pair Magnet for ULF Brain Imaging
P-48	Lyanne Bude, <i>TU Eindhoven</i>	Design and evaluation of a toroidal based surface element for multi-channel array at 37.5mT MRI
P-49	Koen Vat, <i>UMC Utrecht</i>	Performance evaluation of receive arrays with respect to the ultimate intrinsic SNR for 14 T head imaging
P-50	Mahmut Can Aridasir, <i>TU Eindhoven</i>	Switchable Mirrored Box Antenna for Tunable B_1^+ Field Control and SAR Optimization in an 8-Channel Array at 7T MRI
P-51	Alexandra de Boer, <i>Erasmus MC</i>	A Receive Array for MR-Guided Hyperthermia Therapy in the Intact Breast at 1.5T: A Proof of Concept Design
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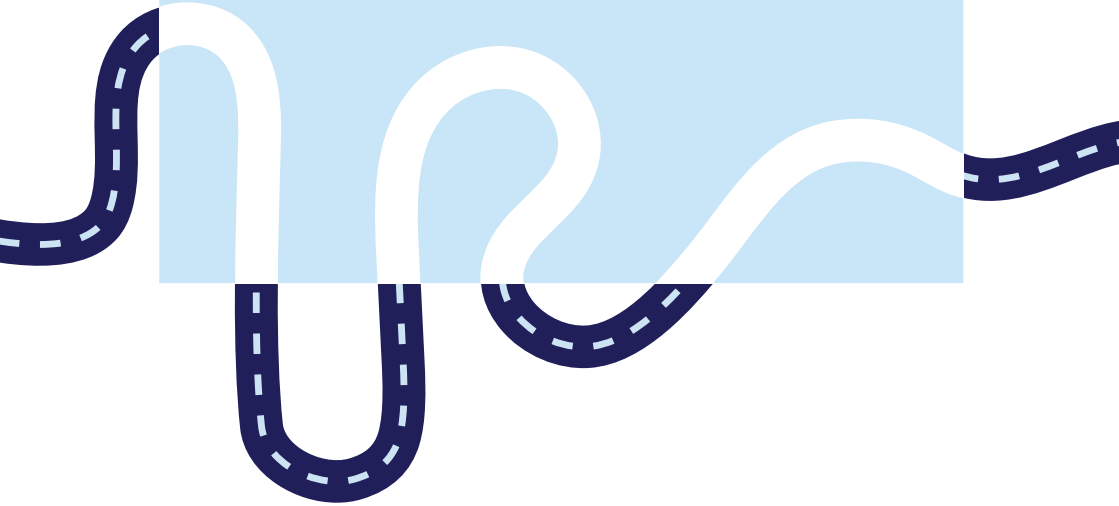


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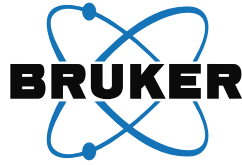


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