





Sunday, November 9th

12:30 - 14:00	Conference registration opens © Ground Floor Foyer
	Setting up posters ♥ First Floor Foyer (Wandelhalle)

14:00 - 14:15 Opening address ♥ Lecture Hall

Educational sessions

Linda Heskamp, *UMC Utrecht, Netherlands* Jordi Diaz-Manera, *Newcastle University, UK*

14:15 - 16:15

Muscle MRI in clinical trials ○ Raum B. v. Langenbeck Ultrasound of muscles and nerves ○ Lecture Hall

14:15 - 14:55 Reproducible MRI protocols for multiple studies

Donnie Cameron, Radboud University Medical Centre, Netherlands

14:15 - 14:35 Brachial plexus and upper limb

Afarine Madani, Erasme University Hospital, Belgium

14:55 -15:35 Vendor-independent14:35 - 14:55 Lower limb nervesprogramming to boost imaging use inMarie Faruch, Toulouse University Hospital,multicenter studiesFrance

Andreia Gaspar, *Universidade de Lisboa*,

Portugal

14:55 - 15:15 Advanced ultrasound for muscle

15:35 - 16:15 Tips and tricks for imaging

Carlo Martinoli, *University of Genoa, Ital*

15:35 - 16:15 Tips and tricks for imaging
processingCarlo Martinoli, University of Genoa, ItalyFrancesco Santini, University of Basel,The state of the state

Switzerland Stephan Goedee, UMC Utrecht, Netherlands

15:35 - 16:15 Practical demonstration of the Canon ultrasound machine

16:15 - 16:45 Networking break ♥ Ground Floor Foyer

16:45 - 17:35 The inc and outs o

•	The ins and outs of skeletal muscle Raum B. v. Langenbeck	Exotic contrasts
	16:45 - 17:10 Basic muscle physiology: Pompe disease Anne Schänzer, <i>Justus-Leibig University</i> <i>Giessen, Germany</i>	16:45 - 17:10 Biophysical modelling of muscle microstructure Martijn Froeling, <i>UMC Utrecht, Netherlands</i>
	17:10 - 17:35 Clinical pathophysiology of neuromuscular disorders: LGMD Willem de Ridder, <i>Antwert University Hospital</i> , <i>Belgium</i>	17:10 - 17:35 CEST metabolic imaging of muscle Feliks Kogan, <i>Stanford University, USA</i>

17:35 - 18:35

Keynote lecture 1 ♥ Lecture Hall

Treating NMD's - The future perspective on imaging Andrew Blamire, *Newcastle University, UK*





Monday, November 10th

08:00	Conference desk opens • Ground Floor Foyer
09:00 - 11:00	Special focus session 1: Novel contrasts in imaging
09:00 - 09:25	Opportunities and challenges with sodium imaging Teresa Gerhalter, Medical University of Graz, Austria
09:25 - 09:50	Muscle fibrosis imaging with MRI: opportunities and challenges Aurea Bach, <i>University of Oxford, UK</i>
09:50 - 10:15	Potential of muscle fibrosis imaging with MSOT Lina Tan, Kinder-und Jugendklinik, Germany
10:15 - 11:02	Oral Presentations on Novel Contrasts in Imaging ♥ Lecture Hall
	O1.1 Non-Invasive Assessment of Histological Changes in Dystrophic and Developing Skeletal Muscles in GRMD and Control Dogs Using Bi-Component T2 Relaxometry Mapping Ericky Caldas de Almeida Araujo, <i>Institute of Myology, France</i> O1.2 Conventional and in-magnet cardiopulmonary exercise testing of patients with neuromuscular disease to investigate peripheral causes of exercise intolerance Melissa Hooijmans, <i>Vrije Universiteit Amsterdam, Netherlands</i> O1.3 Mapping Skeletal Muscle Mitochondrial Oxidative Phosphorylation in Health and SMA Using a novel technique OXCEST MRI Puneet Bagga, <i>St. Jude Children's Research Hospital, USA</i> O1.4 Magnetization transfer Imaging in late-onset Pompe disease Michele Giovanni Croce, University of Pavia, Italy
11:00 - 11:30	Networking break ♥ Ground Floor Foyer
11:30 - 12:30	Poster session 1 ♥ First Floor Foyer (Wandelhalle) Click here for details of Poster Session 1
12:30 - 13:30	Exhibition and lunch break • Ground Floor Foyer
13:30 - 15:30	Special focus session 2: Changing diagnostic patterns and outcome measures in MRI
13:30 - 14:00	MRI as an outcome measure: correlation with function Doris Leung, Kennedy Krieger Institute, USA
14:00 - 14:30	MRI in myopathies: diagnosis, follow-up and opportunities for new techniques Fengdan Wang, <i>Peking Union Medical College Hospital, China</i>
14:30 - 15:30	Oral presentations on Changing diagnostic patterns and outcomes in MRI V Lecture Hall
	O2.1 Towards an automated approach to muscle MRI segmentation, quantification and analysis for the characterisation and diagnosis of neuromuscular diseases Jose Verdu Diaz, <i>Newcastle University, UK</i>
	Continued on next page



Berlin, Germany, November 9th-11th, 2025

Preliminary Programme (subject to change)



O2.2 Comparison of manual vs. Artificial Intelligence-based muscle segmentation for evaluating disease progression in patients with CMT1A David Bendahan, *CRMBM*, *France*

O2.3 Quantitative muscle MRI for imaging denervation-induced muscle changes in patients with chronic inflammatory demyelinating polyneuropathy (CIDP) Petros Dimitrios Chatziandreou, *RUHR University Bochum, Germany*

O2.4 The utility of quantitative MRI parameters in monitoring disease progression in patients with Muscular dystrophy type 2 Viktória Kokošová, *University Hospital Brno, Czechia*

Quantitative muscle MRI in LGMDR1: Insights from a prospective longitudinal cohort study

Robert Rehmann, Berufsgenossenschaftliches Universitätsklinikum Bochum Bergmannsheil, Germany

15:30 - 16:00 Networking break ♥ Ground Floor Foyer

16:00 - 17:00 Keynote lecture 2: ♥ Lecture Hall

Muscle and nerve MRI, from research to clinical application Simonetta Gerevini, *Asst Papa Giovanni XXIII, Italy*

17:00 - 18:00 Round table discussion: ♥ Lecture Hall

Unmet needs for pharmaceutical trials Paolo Bettica, *Italfarmaco, Italy* Markus Karlsson, *AMRA, Sweden* Erik Niks, LUMC, Netherlands *Herb Stevenson, Sarepta , USA*

Elena Hernandez Martinez, *EMA*, *Netherlands* Kieren Hollingsworth, *Newcastle University*, *UK* Harmen Reyngoudt, *Institute of Myology*, *France* Krista Vandenborne, *University of Florida*, *USA*

18:00 - 19:30 Networking drinks reception ♥ Ground Floor Foyer





Tuesday, November 11th

08:00	Conference desk opens ♥ Ground Floor Foyer
09:00 - 11:00	Special focus session 1: o Lecture Hall Whole body imaging
09:00 - 09:30	Disease monitoring with whole body MR neurography Hans Katzberg, <i>University of Toronto, Canada</i>
09:30 - 10:00	Whole body MRI outcome measures in OPMD Jodi Warman, Ottowa Hospital Research Institute, Canada
10:00 - 11:00	Oral presentations on whole body imaging • Lecture Hall
	O3.1 Motor Unit Magnetic Resonance Imaging (MUMRI) as a novel biomarker in Spinal Muscular Atrophy (SMA) Matthew Birkbeck, Newcastle University, UK O3.2 Fasciculations detection in the legs of healthy volunteers using DTI Karleen Oonk, Umc Utrecht, Netherlands O3.3 MRI quantification of upper extremity muscle fat fraction in Dystrophinopathies: implications for mobility status stratification Kelly Rock, University of Florida, USA O3.4 Rethinking diaphragm ultrasound: diaphragm thickening reflects lung volume not contractile effort Jeroen van Doorn, Radboud University Medical Center, Netherlands O3.5 Bilateral analysis of upper limb endpoints in ambulant and non-ambulant Duchenne muscular dystrophy patients Michel Michaëls, Leiden University Medical Center, Netherlands
11:00 - 11:30	Networking break ♥ Ground Floor Foyer
11:30 - 12:30	Poster session 2 ♥ First Floor Foyer (Wandelhalle) Click here for details of Poster Session 2
12:30 - 13:30	Exhibition and lunch break ♥ Ground Floor Foyer
13:30 - 15:30	Special focus session 2: o Lecture Hall Technological innovations
13:30 - 14:30	Oral presentations on technological innovations ♥ Lecture Hall
	O4.1 Non-invasive MRI monitoring of glycogen accumulation in a mouse model of Pompe disease Nirbhay Yadav, <i>Johns Hopkins University, USA</i> O4.2 Mapping Lung Function in Late-onset Pompe Disease using Label-free Functional MRI Lina Tan, <i>Kinder- & Jugendklinik, Germany</i> O4.3 Comprehensive muscle tissue evaluation via whole-body MR Fingerprinting Constantin Slioussarenko, <i>Institute of Myology, France</i>
	continued on next page







	O4.4 Assessing Isometric Muscle Strength Using Shape and Fiber Orientation
	Models
	Salim Bin Ghouth, NYU Langone Health, USA
	O4.5 Open MRI Pipeline for muscle strain calculation Marta Brigid Maggioni, <i>University of Basel, Switzerland</i>
14:30 - 15:00	Advanced MRI neurography
	Christoph Mooshage, University Hospital Heidelberg, Germany
15:00 - 15:30	Ultrafast MRI imaging
	Nicol Seiberlich, University of Michigan in Ann Arbor, USA
15:30 - 16:00	Prize giving and closing of Conference ♥ Lecture Hall Linda Heskamp, UMC Utrecht, Netherlands Jordi Diaz-Manera, Newcastle University, UK





Preliminary Appendix (subject to change)



Monday, November 10th

11:30 - 12:30	Poster session 1 ♥ First Floor Foyer (Wandelhalle)
	P1.01 Volume of fasciculation measured on diffusion-weighted MRI correlates with muscle weakness in older adults Gabrielle Baxter, NYU Grossman School of Medicine, USA
	P1.02 Intraepineurial fat fraction: A novel MR Neurography-based biomarker in Transthyretin amyloidosis polyneuropathy David Bendahan, <i>CRMBM France</i>
	P1.03 Deciphering of skeletal muscle involvement in cystinosis with whole-body muscle MRI Edouard Berling, <i>Raymond Poincaré University Hospital, France</i>
	P1.04 Rotator Cuff Using a Fresh Cadaveric Pig Model David Berry, <i>University of California, San Diego, USA</i>
	P1.05 From Histology to Simulation: Open-Source Muscle Phantoms for Diffusion MRI Modeling David Berry, <i>University of California, San Diego, USA</i>
	P1.06 Pre- and post-skeletal muscle biopsy quantitative magnetic resonance imaging reveals correlations with histopathological findings Alice De Lorenzo, <i>BG Universitätsklinikum Bergmannsheil, Germany</i>
	P1.07 Withdrawn
	P1.08 MYO-RESO: Quantitative muscle MRI as biomarker of muscle involvement in myotonic dystrophy type I Sebastian Ariel Figueroa Bonaparte, <i>Hospital Universitario Germans Trias i Pujol, Spain</i>
	P1.09 Quantitative muscle MRI in inclusion body myositis (IBM): A prospective cohort study Johannes Forsting, <i>Bg University Hospital Bergmannsheil, Ruhr-University Bochum, Germany</i>
	P1.10 Evaluation of cell diameter distribution in a cross-sectional cohort and its correlation with muscle force. Martijn Froeling, Umc Utrecht, Netherlands
	P1.11 Effect of gradient non-linearity correction on whole leg Diffusion Tensor Imaging Martijn Froeling, <i>Umc Utrecht, Netherlands</i>
	P1.12 A Non-invasive Exploration of the Pathophysiology of Chronic Exertional Compartment Syndrome Madison George, <i>Stanford University, USA</i>
	P1.13 Muscle diffusion tensor imaging in Late-Onset Pompe Disease Giulia Guicciardi, <i>University of Pavia, Italy</i>
	P1.14 Creatine-CEST-based pH mapping in healthy volunteer leg muscles Valentin Henriet, <i>Institute of Myology, France</i>





Preliminary Appendix (subject to change)



P1.15 Determinants of qMRI variation in skeletal muscle: Effects of sex, age and mucle volume Linda Heskamp, <i>Umc Utrecht, Netherlands</i>
P1.16 Whole-body DTI for assessing fasciculation and muscle microstructure in ALS in 10 minutes Linda Heskamp, <i>Umc Utrecht, Netherlands</i>
P1.17 Dynamics not Magnitude of exercise hyperemia correlate with aerobic muscle metabolic performance Melissa Hooijmans, <i>Vrije Universiteit, Netherlands</i>
P1.18 Advancing clinical trials in myotonic dystrophy type 1: refining radiological, clinical and patient-reported outcome measures Louise Iterbeke, <i>KU Leuven, Belgium</i>
P1.19 Quadriceps Fatiguability and Recovery after Exercise Through the Menstrual Cycle Carly Jones, Stanford University, USA
P1.20 Progression of Miyoshi muscular dystrophy in thigh muscles monitored by quantitative MRI Ivica Just, <i>Medical University of Vienna, Austria</i>
P1.21 Tracking Muscle DegeneraP1.21 tion and Disease Activity in FSHD Using Qualitative Longitudinal MR Imaging Teresa Gerhalter, <i>Medical University of Graz, Austria</i>
P1.22 Multi-parametric 1H MRI of lower leg muscle in patients with Becker muscular dystrophy Yvonne Mileder, <i>Tu Graz, Austria</i>
P1.23 Baseline quantitative whole-body muscle MRI and functional outcomes from a prospective natural history study in adults with FSHD1 Matthias Opsomer, <i>KU Leuven, Belgium</i>



Preliminary Appendix (subject to change)



Tuesday, November 11th

11:30 - 12:30	Poster session 2 ♥ First Floor Foyer (Wandelhalle)
	P2.01 Personalized progressive resistance training and towards muscle profiling in patients with neuromuscular diseases Lisa Pomp, <i>Umc Utrecht, Netherlands</i>
	P2.02 Associations between MRI muscle structure and tensiomyography contractile parameters in older adults Katarina Puš, <i>Science and Research Centre Koper, Slovenia</i>
	P2.03 Investigating the effect of pulse-width in NMES with dynamic MRI in the forearm muscles Sabine Räuber, <i>University of Basel, Switzerland</i>
	P2.04 The "muscle toolbox": A multi-center multi-parametric natural history study in children with neuromuscular diseases using a harmonized protocol Susi Rauh, <i>Leiden University Medical Center, Netherlands</i>
	P2.05 Deep automatic and interactive segmentation in MRI of pathological skeletal muscles Louis Rigler, <i>Institute of Myology, France</i>
	P2.06 MRI quantification of lower body muscle fat fraction is associated with NSAD functional decline in men with Becker muscular dystrophy Kelly Rock, <i>University of Florida, USA</i>
	P2.07 Determining the repeatability of the rapid qDESS sequence in the quantification of muscle-water T2 of the upper leg Gabriel Rossetto, <i>Newcastle University, UK</i>
	P2.08 Use of a rapid qDESS sequence to measure skeletal muscle T2 during intense exercise compared with MESE and spectroscopy Gabriel Rossetto, <i>Newcastle University, UK</i>
	P2.09 MyoQMRI 2.0 - A comprehensive open-source pipeline for quantitative muscle imaging Francesco Santini, <i>University of Basel, Switzerland</i>
	P2.10 Quantitative muscle MRI to assess muscle tissue preservation during a 10-Day extended fast: A Single-case pilot study Lara Schlaffke, BG Universitätsklinikum Bergmannsheil gGmbH / FH Dortmund, Germany
	P2.11 Agreement between 3D ultrasound and DTI for assessing tibialis anterior muscle architecture - a pilot study Lara Schlaffke, BG Universitätsklinikum Bergmannsheil gGmbH / FH Dortmund, Germany
	P2.12 Spatial heterogeneity of strain from dynamic magnetic resonance imaging using automated anatomically relevant partitioning of individual calf muscles Shantanu Sinha, <i>University of California San Diego, USA</i>

continued on next page





P2.13 Body Mass Index related differences in strains and co-activation in calf muscles using compressed sensing accelerated 4D Flow Magnetic Resonance Imaging Shantanu Sinha, <i>University of California San Diego, USA</i>
P2.14 A simulation framework for dynamic phase-contrast MRI of the muscle Maaike Smit, <i>Leiden University Medical Center (LUMC)</i> , <i>Netherlands</i>
P2.15 Evaluation of quantitative muscle MRI and intelligent phenotyping housing system as advanced and objective phenotyping methods in a mouse model of calpainopathy Nicolina Südkamp, BG Universitätsklinikum Bergmannsheil gGmbH / FH Dortmund, Germany
P2.16 Cross-manufacturer comparison of quantitative muscle MRI in healthy volunteers Johanna Thomä, <i>BG University Hospital Bergmannsheil Bochum, Germany</i>
P2.17 Development of a quantitative muscle ultrasound protocol for murine models of neuromuscular disorders Jeroen van Doorn, <i>Radboud University Medical Center, Netherlands</i>
P2.18 Respiratory muscle shear wave elastography to assess respiratory muscle function in congenital myopathies Jeroen van Doorn, <i>Radboud University Medical Center, Netherlands</i>
P2.19 Spatiotemporal relationship between hamstring muscle activation and strain rate during dynamic knee flexion: A combined multi-channel electromyography and 3D time-resolved phase contrast study Luuk Vos, <i>Amsterdam Umc, Netherlands</i>
P2.20 Correlations between muscle fat fraction MRI and instrumented gait assessments in Dysferlinopathy patients lan Wilson, <i>Newcastle University, UK</i>
P2.21 Blood flow restriction training induced morphology changes in M. quadriceps femoris – a prospective pilot study Lionel Butry, <i>BG University Hospital Bergmannsheil Bochum, Germany</i>
D2 22 Exploring foundation module for multipless muscle as greentation in

P2.22 Exploring foundation models for multi-class muscle segmentation in neuromuscular disorders: Accuracy and uncertainty in MR Imaging Domenico Aquino, *Fondazione IRRCS Instituto Neurologico C. Besta, Italy*