Final programme

MRI³ of Tomorrow:
Innovation, Integration, Impact

ISMRM - ITALIAN CHAPTER

XVII CONGRESSO NAZIONALE

AIRMM

ASSOCIAZIONE ITALIANA
RISONANZA MAGNETICA IN MEDICINA

NOVARA

18 - 20 MARZO 2026

Auditorium Cattaneo
Università degli Studi del Piemonte Orientale
"Amedeo Avogadro" - Complesso Perrone

ISMRM | Italian CHAPTER

ISMRM ONE COMMUNITY FOR CLINICIANS AND SCIENTISTS

18 - 20
Marzo 2026
NOVARA

XVII CONGRESSO NAZIONALE

AIRMM

ASSOCIAZIONE ITALIANA
RISONANZA MAGNETICA IN MEDICINA

XVII CONGRESSO NAZIONALE
AIRMM

ASSOCIAZIONE ITALIANA DI RISONANZA MAGNETICA IN MEDICINA

18-20 Marzo 2026 - Novara

Con il patrocinio di:

XVII CONGRESSO NAZIONALE
AIRMM
ASSOCIAZIONE ITALIANA
RISONANZA MAGNETICA IN MEDICINA

ISMRM | Italian CHAPTER

ISMRM ONE COMMUNITY FOR CLINICIANS AND SCIENTISTS

Presidente del Congresso

Francesco Sardanelli *(Milano)*

Past President

Raffaele Lodi *(Bologna)*

Consiglieri

Laura Biagi *(Pisa)*
Eleonora Cavallari *(Torino)*
Anna Colarieti *(Novara)*
Cesare Gagliardo *(Palermo)*
Nicholas Landini *(Roma)*
Denis Peruzzo *(Lecco)*
Gianfranco Vornetti *(Bologna)*
Moreno Zanardo *(Milano)*

Local Chairs

Alessandro Carriero
Università del Piemonte Orientale,
Dipartimento di Medicina Traslazionale
Ospedale Maggiore della Carità,
Dipartimento di Radiologia - Novara

Anna Colarieti
Università del Piemonte Orientale,
Dipartimento di Medicina Traslazionale
Ospedale Maggiore della Carità,
Dipartimento di Radiologia - Novara

FACULTY

Carlo Asteggiano (Pavia)
Domenico Aquino (Busto Arsizio)
Luca Bertana (Treviso)
Laura Biagi (Pisa)
Angelo Bifone (Torino)
Emma Biondetti (Chieti)
Pietro Bontempi (Verona)
Mauro Botta (Novara)
Marco Bozzali (Torino)
Marco Brambilla (Novara)
Rossella Canese (Roma)
Andrea Capozzi (Glostrup, DK; Lausanne, CH)
Alessandro Carriero (Novara)
Antonella Castellano (Milano)
Massimo Caulo (Chieti)
Eleonora Cavallari (Torino)
Matteo Cencini (Pisa)
Anna Colarieti (Novara)
Patrizia Cornacchione (Roma)
Mirco Cosottini (Pisa)
Renato Cuocolo (Salerno)
Enrico De Vita (Londra)
Stefano Diciotti (Bologna)
Andrea Falini (Milano)
Cesare Gagliardo (Palermo)
Francesca Galbani (Novara)
Massimo Galia (Palermo)
Roberto Gasparotti (Brescia)
James T. Grist (Oxford, UK)
Ludovica Laschena (Roma)
Nicholas Landini (Roma)
Raffaele Lodi (Bologna)
Gianfranco Loi (Novara)
Dario Longo (Torino)
Lucia Manganaro (Roma))
Giovanni Morana (Treviso)
Antonio Napolitano (Roma)
Federica Pediconi (Roma)
Denis Peruzzo (Lecco)
Filippo Pesapane (Milano)
Maria Picchio (Milano)
Paolo Preziosa (Milano)
Veronica Rizzo (Roma)
Francesco Sardanelli (Milano)
Luca Maria Sconfienza (Milano)
Francesco Secchi (Milano)
Alessandra Splendiani (L'Aquila)
Alessandro Stecco (Vercelli)
Caterina Tonon (Bologna)
Michela Tosetti (Pisa)
Gianfranco Vornetti (Bologna)
Claudio Votta (Roma)
Fulvio Zaccagna (Cambridge, UK)
Moreno Zanardo (Milano)

XVII CONGRESSO NAZIONALE

AIRMM

ASSOCIAZIONE ITALIANA
RISONANZA MAGNETICA IN MEDICINA

PROGRAMMA SCIENTIFICO

March 18, 2026

Workshop organised by the AIRMM Young Club
Advanced MRI techniques for clinical applications

13:00 - 13:30 | **Registration**

13:30 - 14:00 | **Introduction to the Workshop**

14:00 - 15:30 | **Session 1**
Moderators: *Anna Colarieti, Nicholas Landini*

MR Fingerprinting: beyond T1/T2 and application to pediatric patients
Matteo Cencini

Advanced diffusion and microstructural imaging
Enrico De Vita

Zero and ultra-short echo time: musculoskeletal application
Luca Bertana

Discussion

15:30 - 16:00 | **Coffee Break**

16:00 - 17:30 | **Session 2**
Moderators: *Eleonora Cavallari, Gianfranco Vornetti*

New perspectives in preclinical and clinical MRI-CEST applications
Dario Longo

Amide proton transfer imaging in neuro-oncology
Antonella Castellano

Clinical application of 4D flow in cardiovascular MRI
Francesco Secchi

Discussion

17:30 - 18:00 | **Young Club projects awards**

18:00 - 19:00 | **Keynote lecture**
Contrast AI-enhanced MRI
Angelo Bifone

XVII CONGRESSO NAZIONALE
AIRMM
ASSOCIAZIONE ITALIANA RISONANZA MAGNETICA IN MEDICINA

ISMRM | Italian CHAPTER

ISMRM ONE COMMUNITY FOR CLINICIANS AND SCIENTISTS

Scientific Programme

FIRST DAY - March 19, 2026

Congress ISMRM Italian Chapter 2026

MRI³ of Tomorrow: Innovation, Integration, Impact

07:45 - 08:30 | **Registration**

08:30 - 08:45 | **Introduction and Greetings from the Authorities**
Francesco Sardanelli, Alessandro Carriero, Anna Colarieti

Prof. Menico Rizzi, Magnifico Rettore dell'Università degli Studi del Piemonte Orientale

Prof. Renzo Boldorini, Preside della Facoltà di Medicina dell'Università degli Studi del Piemonte Orientale

Stefano Scarpetta, Direttore Generale AOU Ospedale Maggiore della Carità

Prof. Massimiliano Panella, Direttore del Dipartimento di Medicina Traslazionale, Università del Piemonte Orientale.

Domenico Spanò, Presidente Ordine TSRM e PSTRP di Novara-Verbano-Cusio-Ossola-Vercelli-Biella

Carmela Galdieri, Presidente Commissione d'Albo nazionale dei Tecnici Sanitari di Radiologia Medica.

SESSION 1

08:45 - 10:00 | **Session 1 - Advanced MRI**
Moderators: *Alessandro Carriero, Caterina Tonon*

Multinuclear MRI: techniques
James T. Grist

Multinuclear MRI: clinical applications
Fulvio Zaccagna

MR fingerprinting
Michela Tosetti

Biophysical mechanisms driving high-relaxivity in new GBCAs
Mauro Botta

Discussion

Scientific Programme

FIRST DAY - March 19, 2026

SESSION 2

10:00 - 11:00 | Session 2 - Across the borders in the human body: nerves outside the spine
Moderators: *Antonella Castellano, Cesare Gagliardo*

Nerve plexuses
Roberto Gasparotti

Peripheral nerves
Carlo Asteggiano

Ultrasound versus MRI
Luca Maria Sconfienza

Discussion

11:00 - 11:30 | Coffee Break and Poster Session

11:30 - 12:00 | AIRMM Travel Grants Awards

12:00 - 13:00 | Oral Communications - NO ECM
Pushing the boundaries of MRI technology
Moderator: *Denis Peruzzo*

Another brick in the wall: INRIM contribution to OSI² one 50 mt low-field scanner
U. Zanovello et al.

Human and deep learning variability in glioma segmentation: a comparative analysis of CNN, Swin-UNETR, and expert neuroradiologists
N. Pecco et al.

A deep learning framework for reliable and reproducible fetal brain biometry in MRI
F. Maccarone et al.

Visual neural decoding performance on different semantic classes of stimuli
L. Veronese et al.

Generative artificial intelligence model for MRI images normalization: a multicentric study on gliomas characterization via radiomics analysis
A. Lindemann et al.

Scientific Programme

FIRST DAY - March 19, 2026

Impact of N4 bias field correction for brain tumor MRI and machine learning in neuroimaging
A. Bonadeo et al.

Advancing prostate imaging with oxygen-responsive MRI biomarkers: a preliminary experience
D. Cavalli et al.

Algebraic connectivity as a criterion for weighting encapsulated subnetworks in hypergraphs in AD
G. Dolci et al.

Advanced ultrafast multi-echo MRI techniques for quantitative T2* mapping of the prostate
D. Cavalli

Reproducibility of MR-EPT protocol across intra-vendor scanners for tissues' conductivity determination
F. Liporace et al.

13:00 - 14:00 | **Lunch**

SESSION 3

14:00 - 15:00 | **Session 3 - Predicting and monitoring response to therapy in oncology**
Moderators: *Anna Colarieti, Federica Pediconi*

Monitoring response to neoadjuvant therapy of breast cancer
Veronica Rizzo

Using MRI to guide online adaptive radiotherapy
Gianfranco Loi

Techniques for online adaptive MR-guided radiotherapy
Claudio Votta

Discussion

Scientific Programme

FIRST DAY - March 19, 2026

SESSION 4

15:00 - 16:00 | Session 4 - The clinical relevance of preclinical MRI
Moderators: *Rossella Canese, Marco Bozzali*

Development of treatments for neurological diseases
Paolo Preziosa

Advanced MR imaging techniques for the evaluation of treatment response
Domenico Aquino

Development of theranostics with PET-MRI
Maria Picchio

Physico-technical challenges in preclinical MRI
Pietro Bontempi

Discussion

16:00 - 16:30 | Coffee Break and Poster Session

16:30 - 17:00 | Symposium Company Workshop - BRACCO
Not accredited for CME credits

Moderator: *Francesco Sardanelli*
Molecule characteristics and impact on clinical routine
Gunter Erb (MRI Medical Director Europe, Bracco)

AiMIFY: when AI meets contrast-enhanced MRI
Gunter Erb, Sonia Colombo Serra (Bracco R&D)

Q&A

17:00 - 18:00 | Oral communications submitted/accepted at 2026 ISMRM & ISMRT
Not accredited for CME credits
Transforming care through clinical MRI innovation
Moderators: *Antonio Napolitano, Patrizia Cornacchione*

Investigating the impact of tract-specific and gestational age-dependent effects in fetal brain spherical deconvolution
M. Di Stefano et al.

Scientific Programme

FIRST DAY - March 19, 2026

Subcortical nuclei in the action-observation network investigated at ultra-high field
P. Ambrosi et al.

3D T1 mapping reveals oxygen transfer into cerebrospinal fluid during hyperoxia
E. Biondetti et al.

No evidence for increased white matter perivascular space burden in children with autism spectrum disorder: an automated quantitative MRI study
C. Girardi et al.

Speed versus quality in low-field MRI: quantitative analysis and radiological evaluation of standard and accelerated images
B. Lena et al.

PyGROG: an open-source Python library for efficient non-Cartesian to Cartesian k-space gridding in magnetic resonance imaging
M. Cencini et al.

Myelin water fraction mapping from T1 relaxometry for multisite datasets harmonization
M. Lancione et al.

Choice of IVIM-DWI fitting substantially impacts parameter estimation in multi-center renal studies
S. Pasini et al.

AI-based reconstruction of accelerated brain MRI on a unique 0.5T open-bore MR system
S. Schiavi et al.

Evaluation of high temporal resolution dynamic contrast-enhanced MRI for breast cancer screening: a retrospective analysis
A. Rotili et al.

SANDI diffusion imaging to characterize brain tumor microstructure: clinical feasibility and preliminary histopathological validation
G. Savini et al.

Scientific Programme

FIRST DAY - March 19, 2026

18:00 - 18:30 | Symposium Company Workshop - PHILIPS
Not accredited for CME credits

Metodi di AI nella pratica clinica avanzata
Paolo Bonacina, Sales Specialist MR Philips

Q&A

18:30 | Assemblea dei Soci AIRMM

Scientific Programme

SECOND DAY - March 20, 2026

08:15 - 08:30 | **Opening**
Francesco Sardanelli, Anna Colarieti

SESSION 5

08:30 - 09:30 | Session 5 - Body MRI: abbreviated screening protocols and replacement for whole-body PET/CT
Moderators: *Alessandro Stecco, Lucia Manganaro*

Biparametric MRI for prostate cancer screening
Ludovica Laschena

Fast MRI for pancreatic cancer screening
Giovanni Morana

"All-in-One" whole body MRI
Massimo Galia

Discussion

SESSION 6

09:30 - 10:30 | Session 6 - Ultra-low-field portable MRI
Moderators: *Andrea Falini, Raffaele Lodi*

A David versus Goliath challenge in MRI
Cesare Gagliardo

Clinical practice in Italy: L'Aquila
Alessandra Splendiani

Clinical practice in Italy: Chieti
Massimo Caulo

Discussion

10:30 - 11:00 | **Coffee Break and Poster Session**

Scientific Programme

SECOND DAY - March 20, 2026

11:00 - 12:00 | **Oral Communications - Not accredited for CME credits**
MRI at the core of the diagnostic workflow
Moderators: *Francesco Secchi, Pietro Bontempi*

Preoperative evaluation of breast cancer: diagnostic performance of contrast-enhanced mammography compared to magnetic resonance imaging
G. Rossini et al.

Quantifying iron-related susceptibility of paramagnetic rim lesions of multiple sclerosis with χ-separation
G. Vornetti et al.

Longitudinal MRI assessment of neurite and soma density after autologous hematopoietic stem cell transplantation in MS
E. Cipriano et al.

Patterns of sulcal morphometry alterations in adult myotonic dystrophy type 1
G. Sighinolfi et al.

Deep learning and atlas-based MRI segmentation enable longitudinal characterization of healthy mouse brain
E. Micotti et al.

Basal ganglia and thalamic network alterations in hereditary spastic paraplegia type 4
F. Punzetti et al.

Beyond hypothalamus in narcolepsy type 1: NBS connectome-based characterization of white matter alterations in the sleep–arousal network
L. Motta et al.

Amide proton transfer MRI for brain tumor characterization: preoperative assessment and differentiation of tumor progression from treatment effects
N. Milanesi et al.

Scientific Programme

SECOND DAY - March 20, 2026

Effects of modifiable dementia risk factors on brain metabolism and structure through multimodal MRI in transgenic mouse models
G. Palombelli et al.

T2 mapping come biomarker di imaging quantitativo dell'infiammazione attiva nella malattia di Crohn: studio preliminare
M. Korshunova et al.

SESSION 7

12:00 - 13:00 | Session 7- Artificial intelligence for MRI
Moderators: *Filippo Pesapane, Emma Biondetti*

Checklists for high quality AI research
Renato Cuocolo

The challenge of AI reproducibility in radiology
Stefano Diciotti

Optimizing MRI workflow acquisition and post-processing using AI
Moreno Zanardo

13:00 - 14:00 | Lunch

SESSION 8

14:00 - 15:00 | Session 8 - Advanced neuro MRI
Moderators: *Gianfranco Vornetti, Laura Biagi*

High-field and ultrahigh-field MRI
Mirco Cosottini

Hyperpolarized and deuterium imaging
Eleonora Cavallari

Low-cost hyperpolarization: from hardware design to nuclear spins relaxation properties
Andrea Capozzi

Discussion

Scientific Programme

SECOND DAY - March 20, 2026

15:00 - 15:30 | Symposium Company Workshop - CANON
Not accredited for CME credits

Moderators: *Anna Colarieti, Moreno Zanardo*

AI powering the entire MRI workflow
Stefano Orofino (MR PM and BDM, Canon Medical Systems)

Scientific collaboration in clinical MRI research
Maria Marcella Laganà (Business Analysis Manager, Canon Medical Systems)

15:30 - 16:00 | Coffee Break and Poster Session

16:00 - 17:00 | Oral Communications - Not accredited for CME credits
When MRI truly makes the difference
Moderators: *Marco Brambilla, Francesca Galbani*

Diagnostic accuracy and inter-reader agreement of the NACVI-RADS for bladder cancer treated with neoadjuvant chemotherapy: a prospective validation study
G. Bincoletto et al.

MRI detection of contrast-agent–free nanoparticles
F. Garello et al.

Multicentre repeatability and reproducibility of renal PC-MRI measurements in healthy volunteers: preliminary findings
G. Villa et al.

Quantitative MRI biomarkers of skeletal muscle adaptation and functional recovery after robotic-assisted gait rehabilitation
D. Peruzzo et al.

Conventional and advanced neuroimaging for the assessment of vorasidenib treatment in IDH-mutant lower-grade gliomas
G. Nocera et al.

Quantitative MRI of the spinal cord in cervical myelopathy: assessment of microstructural damage for outcome improvement. Interim imaging analysis for quantitative tool development
L. A. Cappellini et al.

Scientific Programme

SECOND DAY - March 20, 2026

MRI-based analysis of thalamic nuclei involvement and pain response after Gamma Knife thalamotomy: a retrospective study
C. Punziano et al.

Long-term outcome of 9G MRI-guided vacuum-assisted breast biopsy (VABB): results of 334 single-center procedures and underestimation rate of high-risk lesions over 15 years
G. Rescinito et al.

Effects of indicaxanthin on brain activity: a preliminary high-field (3T) resting-state fMRI study
A. Inzerillo et al.

Beyond nerves: a biomarker-driven diagnostic approach to peripheral hereditary neuropathies using muscle MRI
M. Schifino et al.

17:00 - 18:00 | **Best Oral Communications and Posters Awards - Not accredited for CME credits**
Moderators: *Raffaele Lodi, Francesco Sardanelli*

18:00 - 18:15 | **Conclusions**
Francesco Sardanelli, Raffaele Lodi

XVII CONGRESSO NAZIONALE

AIRMM

ASSOCIAZIONE ITALIANA
RISONANZA MAGNETICA IN MEDICINA

INFORMAZIONI GENERALI

Informazioni generali

QUOTE DI ISCRIZIONE

Workshop organised by the AIRMM Young Club
Advanced MRI techniques for clinical applications
Euro 100,00 indipendentemente dallo status di Socio o non Socio AIRMM e dall'età.
Il Workshop è gratuito per chi è iscritto al Congresso.

QUOTE DI ISCRIZIONE AL CONGRESSO

Iscrizioni al Congresso	Deadline Early Bird (entro il 6 marzo 2026)	Regular (dopo il 7 marzo 2026)
Socio AIRMM Ordinario	Euro 300,00	Euro 370,00
Socio AIRMM Ordinario Junior	Euro 120,00	Euro 180,00
Non Socio	Euro 400,00	Euro 470,00
Non Socio under 35	Euro 220,00	Euro 280,00

Le quote si intendono comprensive di IVA

La quota di iscrizione al Congresso comprende:

- Partecipazione al Workshop del giorno 18 marzo 2026
- Accesso ai lavori congressuali del 19 e 20 marzo 2026
- Kit congressuale
- Crediti ECM solo qualora il partecipante a fine Congresso superi il questionario di apprendimento, compili il questionario di valutazione e soddisfazione (obbligo di frequenza del Congresso per almeno il 90% delle ore formative e timbratura in entrata e in uscita per ogni giorno).
- Attestato di partecipazione
- Servizi catering come da programma (Coffee Break e pranzi)

REGOLAMENTO ISCRIZIONI:

Al sito **www.congressonazionaleairmm2026.it** sarà possibile iscriversi al Congresso fino ad esaurimento posti.

MODALITÀ DI PAGAMENTO

È possibile iscriversi effettuando il pagamento con carta di credito, collegandosi alla piattaforma iscrizioni, dopo aver compilato i dati richiesti, il sistema in automatico visualizzerà l'importo e gli estremi del pagamento.

ATTESTATO DI PARTECIPAZIONE

Tutti i partecipanti regolarmente iscritti avranno diritto a un attestato di partecipazione.

CREDITI ECM

Il congresso sarà accreditato come unico evento dal 19 al 20 marzo 2026 per le seguenti categorie professionali:
Biologo, Chimico, Fisico, Medico Chirurgo (tutte le specializzazioni), Psicologo,
Tecnico Sanitario di Radiologia Medica.

N. Evento ECM: 1357-474606
N. Crediti: 10

Per avere diritto ai crediti ECM è necessario:
• aver frequentato almeno il 90% dell'attività formativa dell'evento
• superare il test di apprendimento (75% delle risposte corrette)

SEDE DEL CONGRESSO
Auditorium Cattaneo
Università degli Studi del Piemonte Orientale
"Amedeo Avogadro" - Complesso Perrone
Via Ettore Perrone, 18, 28100 Novara (NO)

AWARDS
MIGLIORI COMUNICAZIONI ORALI E POSTER
Durante il Congresso le comunicazioni orali e i poster verranno valutati dai membri del Consiglio Direttivo e dai partecipanti presenti tramite una votazione interattiva. Le migliori comunicazioni orali e i migliori poster saranno premiati.

Evento realizzato con il contributo non condizionante di

SIEMENS Healthineers

AIRS MEDICAL

EMMEDI Instruments

BAYER

BRUKER

Canon
CANON MEDICAL

PHILIPS

FUJIFILM

3B SRL
DEALER IN HEALTHCARE

Guerbet

NVISION

BRACCO
LIFE FROM INSIDE

www.congressonazionaleairmm2026.it

SEGRETERIA ORGANIZZATIVA
First Class Srl

Via Vittoria Colonna, 40 - 20149 Milano
Phone: +39 02 30066329
info@fclassevents.com

www.fclassevents.com

PROVIDER ECM
EDU.CO

Via Paolo Lomazzo, 34 - 20154 Milano
mail: info@educo-ecm.it
Tel. +39 02 40029228

XVII CONGRESSO NAZIONALE

AIRMM

ASSOCIAZIONE ITALIANA
RISONANZA MAGNETICA IN MEDICINA

ISMRM Italian CHAPTER

ISMRM ONE COMMUNITY FOR CLINICIANS AND SCIENTISTS

SEGRETERIA ORGANIZZATIVA

FIRSTCLASS
We Make Things Happen

PROVIDER ECM

EDU.co