

CURRICULUM VITAE

MELONI ANTONELLA

➤ WORK EXPERIENCE

- **January 1, 2017 – ongoing:** permanent job
PLACE OF WORK: Bioengineering Unit, Fondazione "G. Monasterio" CNR-Regione Toscana, Pisa, Italy
- **January 2, 2014 – December 31, 2016:** temporary job
PLACE OF WORK: Bioengineering Unit, Fondazione "G. Monasterio" CNR-Regione Toscana, Pisa, Italy
PROJECT: development of systems for the acquisition and the analysis of Magnetic Resonance images for the assessment of cardiac, hepatic and pancreatic iron overload in polytransfused patients.
- **December 11, 2007 – December 11, 2013:** research grant
PLACE OF WORK: Cardiovascular MR Unit, Fondazione "G. Monasterio" CNR-Regione Toscana, Pisa, Italy
RESEARCH THEME: development of a web-based network (MIOT - Myocardial Iron Overload in Thalassemia- network) constituted by haematological and pediatric centres specialized in thalassemia care and magnetic resonance imaging centres able to perform feasible and reproducible heart and liver iron overload assessment in a consistent number of thalassemia patients in a standardized and robust manner.

➤ **FELLOWSHIPS AND FOREIGN RESEARCH COLLABORATIONS**

- o **April 2013-July 2013 and November 2011-May 2012:** Post-doctoral Research Fellowship in the Division of Pediatric Cardiology at Children's Hospital of Los Angeles, California. Supervisor: John C. Wood, MD, PhD.
- o **12nd-17th September 2011:** Research activity at the Berlin Ultrahigh Field Facility B.U.F.F, Max-Delbrueck Center for Molecular Medicine, Berlin, Germany. Supervisor: Thoralf Niendorf, PhD.

➤ **EDUCATION AND TRAINING**

- o **16th May 2011** University of Pisa (Italy): PhD on Automatic, Robotics and Bioengineering. Thesis entitled: Data Mining of Biomedical Databases.
- o **21st September 2007** University of Pisa (Italy): certification to practice Engineer (Section A-Industry Sector).
- o **20th February 2007** University of Pisa (Italy): Master of Science Degree in Biomedical Engineering (grade 110/110 cum laude).
- o **13th October 2004** University of Pisa (Italy): Bachelor of Science Degree in Biomedical Engineering (grade 110/110).
- o **2001** High School Diploma (grade 100/100) at Liceo Scientifico Galilei Macomer (Italy) .

➤ **AWARDS AND ACKNOWLEDGEMENTS FOR THE SCIENTIFIC ACTIVITY**

- o Inclusion in the Stanford University's list of "World's Top 2%" scientists 2024.
- o First author of an abstract that received the “Scientific Exhibition Award” at the ECR (European Congress of Radiology) 2023.
- o First author of an abstract recognized as "clinically relevant" at the ASH (American Society of Hematology) Conference 2022.
- o Author of an abstract selected as ““High scorer Abstract” at the Annual EuroCMR (European CardiovascularMagnetic Resonance) Meeting 2019.
- o First author of an abstract recognized as “Best poster in Cardiovascular Magnetic Resonance” at the ESC (European Society of Cardiology) Congress 2015.
- o Trainee (Educational) Stipend: money award of US\$100.00 to help defray expenses in attending the ISMRM (International Society for Magnetic Resonance in Medicine) 21th Annual Meeting & Exhibition in Salt Lake City PLUS a waived seven-day registration to the annual meeting.

- o Travel grants from the ESC (European Society of Cardiology) Council on Basic Cardiovascular Science for the ESC Congress 2012.
- o Magna Cum Laude Merit Award for the 20th Annual ISMRM (International Society for Magnetic Resonance in Medicine) meeting for the abstract entitled "Are the preferential patterns of myocardial iron overload preserved at the CMR follow-up?".
- o Trainee (Educational) Stipend: money award of US\$150.00 to help defray expenses in attending the ISMRM (International Society for Magnetic Resonance in Medicine) 20th Annual Meeting & Exhibition in Melbourne PLUS a waived seven-day registration to the annual meeting.
- o First author of an abstract selected for the "Best oral abstract" session at the 10th Annual EuroCMR (European CardiovascularMagnetic Resonance) Meeting 2012 in Vienna.
- o First author of an abstract recognized as "clinically relevant" at the ASH (American Society of Hematology) Conference 2011.
- o Author of the abstract winner of the "best abstract award" at the Annual EuroCMR (European CardiovascularMagnetic Resonance) Meeting 2009 in Athens.

➤ **GRANTS AND RESEARCH PROJECTS**

- o A Phase 2b, Double-Blind Study to Investigate the Effect of LY3437943 on Renal Function in Participants with Overweight or Obesity and Chronic Kidney Disease with or without Type 2 Diabetes (ongoing clinical trial).
- o Inter-scanner transferability of myocardial T1 and T2 mapping: a single vendor multicenter study on healthy subjects. Co-Principal Investigator. Promoter: Fondazione Toscana Gabriele Monasterio (December 16, 2021 - ongoing).
- o MYocardial OXYgenation by Cardiovascular Magnetic Resonance: a feasibility study. Promoter: Fondazione Toscana Gabriele Monasterio (December 16, 2021 - ongoing).
- o Relationship between osteoporosis and cardiovascular risk in patients with thalassemia major. Project funded by the Italian Minister of Health (project code: GR-2013-02357762). Principal investigator. Promoter: Fondazione Toscana Gabriele Monasterio (October 15, 2016 – February 14, 2022).
- o E-MIOT (Extension-Myocardial Iron Overload in Thalassemia) project. Funding received by non-profit Industrial Sponsors. Promoter: Fondazione Toscana Gabriele Monasterio (October 18, 2015 – ongoing).
- o MIOT (Myocardial Iron Overload in Thalassemia) project. Funding received by non-profit Industrial Sponsors: € 1.280.000. Promoter: Fondazione Toscana Gabriele Monasterio (September 29, 2006 – June 30, 2016).

- o MIOMED (Myocardial Iron Overload in Myelodysplastic Diseases) project. Funding received by non-profit Industrial Sponsor: € 180.000+VAT. Promoter: Fondazione Toscana Gabriele Monasterio (September 23, 2010 – May 30, 2014).
- o Inter-regional Network for Thalassemia: Health Technology Assessment of diagnostic-instrumental and therapeutic methods and iron overload monitoring (HTA-Thal). Project promoted by the Italian Region Basilicata and funded by the Italian Minister of Health. Duration: 24 months. Operative Unit number 08 (€ 60.000 of funding).

➤ **PERSONAL SKILLS AND EXPERTISE**

✓ **Languages**

- o Mother tongue: ITALIAN.
- o Other languages:
 - FRENCH: excellent (written and oral);
 - ENGLISH: good (written and oral);
 - SPANISH: good oral comprehension .

✓ **Computer Knowledge**

- o Excellent Knowledge of Microsoft Applications: WORD, EXCEL, ACCESS, POWERPOINT and EXPLORER.
- o Excellent Knowledge of INTERNET.
- o Good Knowledge of MATLAB.
- o Excellent Knowledge of R, SPSS, MEDCALC and JMP.
- o Excellent Knowledge of PAINT SHOP and ADOBE PHOTOSHOP.

✓ **Technical skills and competences**

- o Excellent knowledge of Statistics and Data Mining approaches.
- o Good knowledge of Cell Cultivation Techniques, acquired while working on master's degree thesis.
- o Chemistry Laboratory experience, acquired while working at both degrees.
- o Excellent Knowledge of image processing techniques.
- o Excellent Knowledge of Models and Methods in "Network Analysis" .

➤ **PUBBLICATIONS**

✓ **Books**

1. Case-based Atlas of Cardiovascular Magnetic Resonance. Published by Springer International Publishing, January 2023. DOI 10.1007/978-3-031-32593-9. Editors: A. Barison, S. Dellegrottaglie, G. Pontone, C. Indolfi. Chapter: Iron Overload Cardiomyopathies. A. Pepe, P. Sormani, **A. Meloni**, C. Torlasco. Pages 173-185.

✓ **Papers on Refereed Journals**

2. **A. Meloni**, V. Positano, P. Ricchi, A. Pepe, R. Cau. What is the importance of monitoring iron levels in different organs over time with magnetic resonance imaging in transfusion-dependent thalassemia patients? Expert Review of Hematology 2025. DOI: 10.1080/17474086.2025.2486379
3. L. A. De Santi, F. Orlandini, V. Positano, L. Pistoia, F. Sorrentino, G. Messina, M. G. Roberti, M. Missere, N. Schicchi, A. Vallone, M. F. Santarelli, A. Clemente, **A. Meloni**. Explainable Survival Analysis of Censored Clinical Data Using a Neural Network Approach. BioMedInformatics 2025; 5(2):17. <https://doi.org/10.3390/biomedinformatics5020017>.
4. **A. Meloni**, L. Pistoia, A. Spasiano, F. Sorrentino, G. Messina, M. Santodirocco, Z. Borsellino, V. Cecinati, V. Positano, G. Restaino, N. Schicchi, E. Grassedonio, A. Vallone, M. Emdin, A. Clemente, A. Barison. Prevalence and Correlates of Dilated and Non-Dilated Left Ventricular Cardiomyopathy in Transfusion-Dependent Thalassemia: Data from a National, Multicenter, Observational Registry. Journal of Cardiovascular Development and Disease 2025;12(3):103. <https://doi.org/10.3390/jcdd12030103>.
5. **A. Meloni**, G. Restaino, V. Positano, L. Pistoia, P. Keilberg, M. Santodirocco, A. Spasiano, T. Casini, M. Serra, E. De Marco, M. G. Roberti, S. Bagnato, A. Pepe, A. Clemente, M. Missere. Pancreatic Volume in Thalassemia: Determinants and Association with Alterations of Glucose Metabolism. Diagnostics 2025;15(5):568. <https://doi.org/10.3390/diagnostics15050568>.
6. **A. Meloni**, L. Saba, V. Positano, M. Taccori, L. Pistoia, E. De Marco, P. M. G. Sanna, F. Longo, P. Giovangrossi, C. Gerardi, A. Barone, D. Visceglie, V. Barra, A. Clemente, R. Cau. Left ventricular diastolic and systolic functions by cardiac magnetic resonance in beta-thalassemia major: correlation with clinical findings and cardiac complications. International Journal of Cardiovascular Imaging 2025. DOI: <https://doi.org/10.1007/s10554-025-03352-7>.
7. **A. Meloni**, L. Pistoia, D. Garamella, A. Parlato, V. Positano, P. Ricchi, T.

- Casini, E. De Marco, E. Corigliano, Z. Borsellino, D. Visceglie, R. De Caterina, A. Pepe, F. Cademartiri. Early Detection of Myocardial Involvement in Thalassemia Intermedia Patients: Multiparametric Mapping by Magnetic Resonance Imaging. *Journal of Magnetic Resonance Imaging* 2025;61:1650-1661. <https://doi.org/10.1002/jmri.29625>.
8. **A. Meloni**, C. Nugara, A. De Luca, C. Cavallaro, C. Cappelletto, A. Barison, G. Todiere, C. Grigoratos, S. Mavrogeni, G. Novo, F. Grigioni, M. Emdin, G. Sinagra, E. Quaia, F. Cademartiri, A. Pepe. Absence of long-term incremental prognostic value of inducible wall motion abnormalities on dipyridamole stress CMR in patients with suspected or known coronary artery disease. *European Radiology* 2025;35:1687-1696. <https://doi.org/10.1007/s00330-024-11229-x>.
 9. V. Positano, **A. Meloni**, L. A. De Santi, L. Pistoia, Z. Borsellino, A. Cossu, F. Massei, P. M. G. Sanna, M. F. Santarelli, F. Cademartiri. Convolutional neural networks for automatic MR classification of myocardial iron overload in thalassemia major patients. *European Radiology* 2025;35(3):1522-1532. [do. https://doi.org/10.1007/s00330-024-11245-x](https://doi.org/10.1007/s00330-024-11245-x).
 10. **A. Meloni**, L. Saba, F. Cademartiri, V. Positano, L. Pistoia, R. Cau. Cardiovascular magnetic resonance in β -thalassemia major: beyond T2*. *La radiologia medica* 2024;129(12):1812-1822. <https://doi.org/10.1007/s11547-024-01916-6>.
 11. L. Pistoia, **A. Meloni**, V. Positano, A. Quota, E. Corigliano, G. Messina, S. Renne, M. Zerbini, S. Romani, G. Sinagra, L. Ait Ali, S. Mavrogeni, A. Lupi, F. Cademartiri, A. Pepe. Biatrrial and Biventricular Reference Ranges Based on Cardiac Magnetic Resonance in Sickle Cell Disease Patients Without Heart Damage. *Diagnostics* 2024; 14: 2816. <https://doi.org/10.3390/diagnostics14242816>.
 12. C. Fatigati, **A. Meloni**, S. Costantini, A. Spasiano, F. Ascione, F. Cademartiri, P. Ricchi. Renal Findings in Patients with Thalassemia at Abdominal Ultrasound: Should We Still Talk about “Incidentalomas”? Results of a Long-Term Follow-Up. *Diagnostics*. 2024;14(18):2047. <https://doi.org/10.3390/diagnostics14182047>.
 13. **A. Meloni**, R. Cau, L. Saba, V. Positano, C. De Gori, M. Occhipinti, S. Celi, E. Bossone, J. Bertacchi, B. Punzo, C. Mantini, C. Cavaliere, E. Maffei, F. Cademartiri. Photon-Counting Computed Tomography Angiography of Carotid Arteries: A Topical Narrative Review with Case Examples. *Diagnostics* 2024;14(18):2012. <https://doi.org/10.3390/diagnostics14182012>.
 14. **A. Meloni**, L. Pistoia, P. Ricchi, F. Longo, V. Cecinati, F. Sorrentino, Z. Borsellino, S. Bagnato, V. Rossi, P. Fina, A. Riva, S. Renne, G. Peritore, V. Positano, F. Cademartiri. Magnetic Resonance Evaluation of Tissue Iron Deposition and Cardiac Function in Adult Regularly Transfused Thalassemia

- Intermedia Compared with Thalassemia Major Patients. *Journal of Clinical Medicine* 2024;13(16):4791. <https://doi.org/10.3390/jcm13164791>.
15. **A. Meloni**, E. Maffei, V. Positano, A. Clemente, C. De Gori, S. Berti, L. La Grutta, L. Saba, E. Bossone, C. Mantini, C. Cavaliere, B. Punzo, S. Celi, F. Cademartiri. Technical principles, benefits, challenges, and applications of photon counting computed tomography in coronary imaging: a narrative review. *Cardiovascular Diagnosis and Therapy* 2024. <https://dx.doi.org/10.21037/cdt-24-52>.
 16. A. Meloni, L. Saba, V. Positano, L. Pistoia, A. Campanella, A. Spasiano, M. C. Putti, I. Fotzi, A. Cossu, E. Corigliano, A. Massa, P. Keilberg, F. Cademartiri, R. Cau. Global longitudinal strain by cardiac magnetic resonance is associated with cardiac iron and complications in beta-thalassemia major patients. *International Journal of Cardiology* 2024;413:132319. doi: 10.1016/j.ijcard.2024.132319.
 17. D. Neglia, C. Caselli, E. Maffei, F. Cademartiri, **A. Meloni**, E. Bossone, L. Saba, S-E. Lee, JM. Sung, D. Andreini, MH. Al-Mallah, MJ. Budoff, K. Chinnaiyan, JH. Choi, EJ. Chun, E. Conte, I. Gottlieb, M. Hadamitzky, YJ. Kim, BK. Lee, JA. Leipsic, H. Marques, P. de Araújo Gonçalves, G. Pontone, S. Shin, PH. Stone, H. Samady, R. Virmani, J. Narula, LJ. Shaw, JJ. Bax, FY. Lin, JK. Min, and H-J. Chang. Rapid Plaque Progression Is Independently Associated With Hyperglycemia and Low HDL Cholesterol in Patients With Stable Coronary Artery Disease: A PARADIGM Study. *Circulation: Cardiovascular Imaging*. 2024;17:e016481.
 18. **A. Meloni**, L. Saba, V. Positano, L. Pistoia, A. Spasiano, M. C. Putti, T. Casini, A. Cossu, E. Corigliano, A. Massa, F. Cademartiri, R. Cau. Left and right atrioventricular coupling index in patients with beta-thalassemia major. *International Journal of Cardiovascular Imaging* 2024. <https://doi.org/10.1007/s10554-024-03146-3>.
 19. R. Cau, L. Saba, A. Balestrieri, **A. Meloni**, L. Mannelli, L. La Grutta, E. Bossone, C. Mantini, C. Politi, J. S. Suri, C. Cavaliere, B. Punzo, E. Maffei, F. Cademartiri. Photon-Counting Computed Tomography in Atherosclerotic Plaque Characterization. *Diagnostics* 2024; 14(11):1065. <https://doi.org/10.3390/diagnostics14111065>.
 20. P. Ricchi, L. Pistoia, V. Positano, A. Spasiano, T. Casini, M. C. Putti, Z. Borsellino, A. Cossu, G. Messina, P. Keilberg, C. Fatigati, S. Costantini, S. Renne, G. Peritore, F. Cademartiri, **A. Meloni**. Liver steatosis in patients with transfusion-dependent thalassaemia. *British Journal of Haematology* 2024;204(6):2458-67.
 21. **A. Meloni**, L. Pistoia, P. Ricchi, F. Longo, V. Cecinati, F. Sorrentino, L. Cuccia, E. Corigliano, V. Rossi, R. Righi, P. Fina, S. Renne, L. Barbuto, V. Positano, F. Cademartiri. Multiparametric cardiac magnetic resonance in

- patients with thalassemia intermedia: new insights from the E-MIOT network. *La radiologia medica* 2024;129(6):879-89.
22. **A. Meloni**, A. De Luca, C. Nugara, C. Cavallaro, C. Cappelletto, A. Barison, G. Todiere, C. Grigoratos, G. Novo, F. Grigioni, M. Emdin, G. Sinagra, S. Mavrogeni, E. Quaia, F. Cademartiri, A. Pepe. The additive prognostic value of end-systolic pressure-volume relation by stress CMR in patients with known or suspected coronary artery disease. *International Journal of Cardiovascular Imaging* 2024;40(6):1341-51.
 23. **A. Meloni**, E. Maffei, A. Clemente, C. De Gori, M. Occhipinti, V. Positano, S. Berti, L. La Grutta, L. Saba, R. Cau, E. Bossone, C. Mantini, C. Cavaliere, B. Punzo, S. Celi, F. Cademartiri. Spectral Photon-Counting Computed Tomography: Technical Principles and Applications in the Assessment of Cardiovascular Diseases. *Journal of Clinical Medicine* 2024;13(8):2359. <https://doi.org/10.3390/jcm13082359>
 24. **A. Meloni**, L. Pistoia, A. Spasiano, A. Cossu, T. Casini, A. Massa, S. Bagnato, M. C. Putti, S. Maffei, V. Positano, A. Pepe, F. Cademartiri, C. Vassalle. Oxidative Stress and Antioxidant Status in Adult Patients with Transfusion-Dependent Thalassemia: Correlation with Demographic, Laboratory, and Clinical Biomarkers. *Antioxidants*. 2024;13(4):446. <https://doi.org/10.3390/antiox13040446>.
 25. **A. Meloni**, L. Pistoia, P. Ricchi, S. Bagnato, F. Longo, G. Messina, S. Bagnato, V. Rossi, S. Renne, R. Righi, P. Fina, V. Positano, F. Cademartiri. Impact of genotype on multi-organ iron and complications in patients with non-transfusion-dependent β -thalassemia intermedia. *Annals of Hematology* 2024. doi: 10.1007/s00277-024-05741-9.
 26. L. Pistoia, **A. Meloni**, V. Positano, F. Longo, Z. Borsellino, A. Spasiano, R. Righi, S. Renne, D. Izzo, K. Savino, S. Mavrogeni, E. Quaia, F. Cademartiri, A. Pepe. Multiparametric Cardiac Magnetic Resonance Assessment in Sickle Beta Thalassemia. *Diagnostics* 2024;14:691.
 27. **A. Meloni**, L. Saba, V. Positano, L. Pistoia, M. Porcu, F. Massei, P. M. G. Sanna, F. Longo, P. Giovangrossi, C. Argento, C. Gerardi, F. Cademartiri, R. Cau. Left atrial strain in patients with β -thalassemia major: a cross-sectional CMR study. *European Radiology* 2024. doi: 10.1007/s00330-024-10667-x.
 28. **A. Meloni**, L. Pistoia, P. Ricchi, A. Maggio, V. Cecinati, F. Longo, F. Sorrentino, Z. Borsellino, A. Salvo, V. Rossi, E. Grassedonio, G. Restaino, S. Renne, R. Righi, V. Positano, F. Cademartiri. Prognostic Role of Multiparametric Cardiac Magnetic Resonance in Neo Transfusion-Dependent Thalassemia. *Journal of Clinical Medicine* 2024;13(5):1281. <https://doi.org/10.3390/jcm13051281>.
 29. **A. Meloni**, L. Pistoia, M.C. Putti, F. Longo, E. Corigliano, P. Ricchi, V. Rossi, T. Casini, R. Righi, S. Renne, G. Peritore, L. Barbuto, V. Positano, F. Cademartiri. Pancreatic iron in pediatric transfusion-dependent beta-

- thalassemia patients: A longitudinal MRI study. *Pediatric Blood & Cancer* 2024. doi: 10.1002/pbc.30923. Epub ahead of print. PMID: 38385860.
30. P. Ricchi*, **A. Meloni***, L. Pistoia, M. R. Gamberini, L. Cuccia, M. Allò, M. C. Putti, A. Spasiano, R. Rosso, V. Cecinati, R. Righi, S. Renne, G. Peritore, A. Vallone, V. Positano, E. Quaia, F. Cademartiri, A. Pepe. (*RP and MA contributed equally to this work). Longitudinal prospective comparison of pancreatic iron by magnetic resonance in thalassemia patients transfusion-dependent since early childhood treated with combination deferiprone-desferrioxamine vs deferiprone or deferasirox monotherapy. *Blood Transfusion* 2024;22(1):75-85. DOI: 10.2450/BloodTransfus.485.
 31. **A. Meloni**, L. Pistoia, C. Vassalle, A. Spasiano, I. Fotzi, S. Bagnato, M. C. Putti, A. Cossu, F. Massei, P. Giovangrossi, S. Maffei, V. Positano, F. Cademartiri. Low Vitamin D Levels Are Associated with Increased Cardiac Iron Uptake in Beta-Thalassemia Major. *Diagnostics* 2023;13(24):3656. <https://doi.org/10.3390/diagnostics13243656>.
 32. **A. Meloni**, A. Carnevale, P. Gaio, V. Positano, C. Passantino, A. Pepe, A. Barison, G. Todiere, C. Grigoratos, G. Novani, L. Pistoia, M. Giganti, F. Cademartiri, A. Cossu. Liver T1 and T2 mapping in a large cohort of healthy subjects: normal ranges and correlation with age and sex. *Magnetic Resonance Materials in Physics, Biology and Medicine* 2023. <https://doi.org/10.1007/s10334-023-01135-6>.
 33. **A. Meloni**, M. Parravano, L. Pistoia, A. Cossu, E. Grassedonio, S. Renne, P. Fina, A. Spasiano, A. Salvo, S. Bagnato, C. Gerardi, Z. Borsellino, F. Cademartiri, V. Positano. Phenotypic Clustering of Beta-Thalassemia Intermedia Patients Using Cardiovascular Magnetic Resonance. *Journal of Clinical Medicine* 2023;12(21):6706; <https://doi.org/10.3390/jcm12216706>.
 34. **A. Meloni**, L. Pistoia, P. Ricchi, V. Positano, F. Longo, Z. Borsellino, V. Cecinati, G. Messina, E. Corigliano, R. Rosso, R. Righi, G. Peritore, S. Renne, A. Vallone, F. Cademartiri. Pancreatic T2* Magnetic Resonance Imaging for Prediction of Cardiac Arrhythmias in Transfusion-Dependent Thalassemia. *Journal of Clinical Medicine* 2023;12:6015. <https://doi.org/10.3390/jcm12186015>.
 35. **A. Meloni**, L. Pistoia, A. Lupi, R. Righi, A. Vallone, M. Missere, S. Renne, P. Fina, A. Riva, M. R. Gamberini, V. Cecinati, F. Sorrentino, R. Rosso, G. Messina, P. Ricchi, V. Positano, S. Mavrogeni, E. Quaia, F. Cademartiri, A. Pepe. Impact of the COVID-19 Pandemic on Iron Overload Assessment by MRI in Patients with Hemoglobinopathies: The E-MIOT Network Experience. *Tomography* 2023;9:1711–1722.
 36. A. Barison, R. Ceolin, A. Palmieri, P. P. Tamborrino, G. Todiere, C. Grigoratos, I. A. Gueli, C. De Gori, A. Clemente, L. Pistoia, A. Pepe, G. D. Aquaro, V. Positano, M. Emdin, F. Cademartiri, **A. Meloni**. Biventricular Tissue Tracking with Cardiovascular Magnetic Resonance: Reference Values of Left- and Right-Ventricular Strain. *Diagnostics* 2023; 13(18): 2912; <https://doi.org/10.3390/diagnostics13182912>.

37. **A. Meloni**, F. Cademartiri, V. Positano, S. Celi, S. Berti, A. Clemente, L. La Grutta, L. Saba, E. Bossone, C. Cavaliere, B. Punzo, E. Maffei. Cardiovascular Applications of Photon-Counting CT Technology: A Revolutionary New Diagnostic Step. *Journal of Cardiovascular Development and Disease*. 2023; 10(9):363. <https://doi.org/10.3390/jcdd10090363>.
38. **A. Meloni**, L. Pistoia, V. Positano, A. Spasiano, M. C. Putti, I. Fotzi, E. Corigliano, A. Cossu, A. Massa, F. Massei, G. Alberini, F. Cademartiri. Correlates of splenic T2* measurements in transfusion-dependent thalassaemia and comparison between non-splenectomised and splenectomised patients. *British Journal of Haematology* 2023;203(3):e93-e97. doi: 10.1111/bjh.19034.
39. F. Moscucci, S. Sciomer, S. Maffei, **A. Meloni**, I. Lospinuso, M. Carnovale, A. Corrao, I. Di Diego, C. Caltabiano, M. Mezzadri, A. V. Mattioli, S. Gallina, P. Rossi, D. Magrì, G. Piccirillo. Sex Differences in Repolarization Markers: Telemonitoring for Chronic Heart Failure Patients *Journal of Clinical Medicine*. 2023; 12(14):4714. <https://doi.org/10.3390/jcm12144714>.
40. **A. Meloni**, L. Barbuto, V. Positano, L. Pistoia, A. Spasiano, T. Casini, F. Massei, C. Argento, P. Giovangrossi, A. Barone, L. Romano, F. Cademartiri. Pattern and clinical correlates of renal iron deposition in adult beta-thalassemia major patients. *Clinical and Experimental Medicine* 2023;23(7):3573-3579. doi: 10.1007/s10238-023-01133-x.
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- Salvatori, P. Pepe, M. Lombardi, A. Pepe. Cardiac iron overload and function by CMR in different phenotypic groups of Thalassemia Intermedia patients. Congresso CARDIO-IFC, Pisa, 18-19 Marzo 2010.
717. **A. Meloni**, A. Pepe, V. Positano, B. Favilli, D. De Marchi, P. Keilberg, A. Maggio, M. Capra, M. F. Santarelli, M. Midiri, MD, L. Landini, M. Lombardi. The influence of myocardial fibrosis and blood oxygenation on heart T2* values in thalassemia patients. Primo Congresso IFC-FGM, Pisa 26-27 Marzo 2009.
718. **A. Meloni**, V. Positano, A. Pepe, B. Favilli, M. C. Dell'Amico, D. De Marchi, P. Keilberg, M. Lombardi. Characterization of cardiac and hepatic iron overload progression in thalassemia major patients by MRI. Primo Congresso IFC-FGM, Pisa 26-27 Marzo 2009.
719. A. Pepe, A. Ramazzotti **A. Meloni**, et al. Comparison of deferasirox, deferiprone, and desferrioxamine effectiveness on myocardial iron concentrations and biventricular function by quantitative MR in beta-thalassemia major. *Giornale Italiano di Cardiologia*, Dicembre 2008; 9 (Suppl 1-12): E180.
720. A. Pepe, **A. Meloni**, F. Formisano, et al. Prevalence, clinical and instrumental correlates of myocardial fibrosis and necrosis by delayed contrast enhancement cardiovascular magnetic resonance in thalassemia patients. *Giornale Italiano di Cardiologia*, Dicembre 2008; 9 (Suppl 1-12): E209.
721. A. Pepe, A. Ramazzotti **A. Meloni**, et al. MRI multislice multiecho T2* for segmental and global quantification of myocardial iron: multi-centre validation of the transferability in the MIOT (Myocardial Iron Overload in Thalassemia) network. *Giornale Italiano di Cardiologia*, Dicembre 2008; 9 (Suppl 1-12): E179.
722. A. Pepe, **A. Meloni**, A. Ramazzotti, et al. Multislice multiecho T2* cardiovascular magnetic resonance could detect heterogeneous myocardial iron distribution in thalassemia patients. *Giornale Italiano di Cardiologia*, Dicembre 2008; 9 (Suppl 1-12): P57.
723. **A. Meloni**, V. Positano, A. Pepe, M. F. Santarelli, L. Landini. A Monte Carlo approach for optimization of iron overload assessment by multiecho cardiac magnetic resonance. *Atti del Congresso Nazionale di Bioingegneria 2008*, Pisa, Italy, 3-5/07/2008. Patron editore. p 559-560.
724. **A. Meloni**, V. Positano, A. Pepe, M. F. Santarelli, A. Ramazzotti, D. De Marchi, B. Favilli, S. Cavallini, M. Lombardi, L. Landini. Multislice multiecho T2* cardiovascular magnetic resonance can detect heterogeneous myocardial iron distribution in thalassemia patients. 19° Congresso della Fisiologia Clinica. 20 Maggio 2008, Pisa.
725. A. Pepe, V. Positano, B. Favilli, A. Ramazzotti, **A. Meloni**, P. Keilberg, C. Santarasci, F. Fabrizio, F. Formisano, A. Spasiano, M. Lombardi. Prevalence, clinical, and instrumental correlates of myocardial fibrosis and necrosis by delayed contrast enhancement CMR in thalassemia major patients. 19°

Congresso della Fisiologia Clinica. 20 Maggio 2008, Pisa.

➤ CONGRESSES AND MEETINGS

✓ International Congresses

- “SCMR (Society for Cardiovascular Magnetic Resonance) 28th Annual Scientific Sessions, January, 29-February 1, 2025, Washington DC, USA. 5 rapid-fire abstracts.
- “29th EHA (European Hematology Association) Congress, Madrid, Spain, June 13-16 2024”. 3 posters.
- “ISMRM (International Society for Magnetic Resonance in Medicine) Annual Meeting & Exhibition, May 04-09, 2024, Singapore.” 2 power-pitch and 1 e-poster.
- “CMR (Cardiovascular Magnetic Resonance) 2024 - The global CMR conference” January 25-27, 2024, London, UK”. 5 rapid-fire abstracts.
- “EHA (European Hematology Association) Congress 2023, Francoforte, Germania, June 8-11, 2023.” 4 posters.
- “ISMRM (International Society for Magnetic Resonance in Medicine) Annual Meeting & Exhibition, June 03-08, 2023, Toronto, Canada.” 1 e-poster.
- “SCMR (Society for Cardiovascular Magnetic Resonance) 26th Annual Scientific Sessions. Virtual attendance. January, 25-28, 2023.” 3 e-posters.
- “64th ASH (America Society of Hematology) Annual Meeting and Exposition, December 10-13, 2022, New Orleans. Louisiana”. 4 posters.
- “31 Pisa Congress: Coronary artery risk in the III Millenium”. Pisa, Italy, October 13-15, 2022.
- “ESC (European Society of Cardiology) Congress 2022, Barcelona, Spain, August 26-29, 2022”. Moderazione della sessione “CMR in the evaluation of cardiomyopathies and heart failure”.
- EHA (European Hematology Association) Congress 2022, Vienna, Austria, June 9-12, 2022”. 4 posters.
- “Joint Annual Meeting ISMRM-ESMRMB & ISMRT 31st Annual Meeting”. London, United Kingdom, May 07-12, 2022. 3 e-posters.
- “SCMR (Society for Cardiovascular Magnetic Resonance) 25th Annual Scientific Sessions (Virtual). February 2-5, 2022.” 1 e-poster.
- “ESCR (European Society of Cardiovascular Radiology) 2021 Online edition 2.0. October 21-23, 2021”. 5 e-posters.

- “EHA (European Hematology Association) 2021 Virtual Congress. June 9-17 2021”. 2 e-posters.
- “ISMRM (International Society for Magnetic Resonance in Medicine) Virtual Conference & Exhibition. May 15-20, 2021”. 3 e-posters.
- “EuroCMR 2021 Online Edition - 18th Annual Meeting on CMR congress of the European Association of Cardiovascular Imaging. May 06-08, 2021”. 3 e-posters.
- “EACVI (European Association of Cardiovascular Imaging) - Best of Imaging 2020 – Online Edition. December 11-12, 2020”. 2 e-posters.
- “ISMRM (International Society for Magnetic Resonance in Medicine) Virtual Conference & Exhibition. August 08-14, 2020”. 5 e-posters.
- “ECR (European Congress of Radiology) 2020 Online. July 15-19, 2020”. 4 oral presentations.
- “SCMR (Society for Cardiovascular Magnetic Resonance) 23rd Annual Scientific Sessions, Orlando, FL, USA. February 12-15, 2020.” 3 posters. Moderation of the Lecture Session 18: Game Changer: What’s New in CMR of Iron Overload Cardiomyopathy? (Saturday, February 15, 2020; 11:10 AM – 11:55 AM)
- “ESC (European Society of Cardiology) Congress 2019 together with World Congress of Cardiology, Paris, France, 31 August-4 September 2019”. Presentazione orale e presentazione di 3 posters.
- “24th EHA (European Hematology Association) Congress, Amsterdam, The Netherlands, June 13-16 2019”. 4 posters.
- “ISMRM (International Society for Magnetic Resonance in Medicine) 27th Annual Meeting, Montreal, Canada, 11-16 May 2019”. 4 e-posters.
- “ESC (European Society of Cardiology) Congress 2018, 25-29 Aug 2018, Munich, Germany”. 6 posters.
- “ISMRM (International Society for Magnetic Resonance in Medicine) 26th Annual Meeting, Paris, France, 16-21 June 2018”. 3 e-posters.
- “22nd EHA (European Hematology Association) Congress, Madrid, Spain, June 22-25, 2017”. 2 posters.
- “ISMRM (International Society for Magnetic Resonance in Medicine) 25th Annual Meeting, Honolulu, 22-27 April 2017”. 6 posters.
- “SCMR (Society for Cardiovascular Magnetic Resonance) 20th Annual Scientific Sessions, Washington, DC, USA. February 1-4, 2017.” 1 oral presentation, Presentazione orale, 1 power pitch, and 4 posters.
- “21st EHA (European Hematology Association) Congress, Copenhagen, Denmark, June 9-12, 2016”. 2 e-posters.

- “ISMRM (International Society for Magnetic Resonance in Medicine) 24th Annual Meeting, Singapore, 07-13 May 2016”. Oral presentation, 1 e-poster, and 1 poster.
- 7 DEEP General Assembly Meeting, Padua (Italy) April 13th -15th, 2016. Faculty presentation.
- “SCMR (Society for Cardiovascular Magnetic Resonance) 19th Annual Scientific Sessions, Los Angeles, California, January 27-30, 2016.” 3 posters.
- “Florence International Symposium on Advances in Cardiomyopathies, 12th Meeting Of The European Myocardial And Pericardial Diseases Working Group Of The ESC, Florence, October 22-24, 2015.” 3 posters.
- “ESC (European Society of Cardiology) Congress 2015, 29 Aug 2015 - 02 Sept 2015, London, UK”. 6 posters.
- “ISMRM (International Society for Magnetic Resonance in Medicine) 23th Annual Meeting, Toronto, ON, Canada, 31 May -5 June 2015”. Oral presentation, 1 e-poster, and 2 posters.
- SCMR/ISMRM Workshop: Myocardial Tissue Characterization with MR Relaxometry: Principles and Emerging Methods, February 4-5, 2015, Nice, France.
- “ESC (European Society of Cardiology) Congress 2014, 30 Aug 2014 - 03 Sept 2014, Barcelona, Spain”. 3 posters.
- “12nd EuroCMR Meeting – Vienna, Austria, May 15-17 2014”. 9 posters.
- “ISMRM (International Society for Magnetic Resonance in Medicine) 22th Annual Meeting, Milan, Italy, 10-16 May 2014”. 6 e-posters.
- “SCMR (Society for Cardiovascular Magnetic Resonance) 17th Annual Scientific Sessions, New Orleans, Louisiana, January 16-19, 2014.” Oral presentation and 5 posters.
- “55th ASH (American Society of Hematology) Annual Meeting and Exposition, December 7-10, 2013, New Orleans. Louisiana”. Oral presentation and 6 posters.
- “ESC (European Society of Cardiology) Congress 2013, 31 Aug 2013 - 04 Sept 2013, Amsterdam, Netherlands”. 3 oral presentations and 4 posters.
- “ISMRM (International Society for Magnetic Resonance in Medicine) 21st Annual Meeting, Salt Lake City, UT, USA, 20-26 April 2013”. 3 e-posters and 2 posters.
- “SCMR (Society for Cardiovascular Magnetic Resonance) 16th Annual Scientific Sessions, San Francisco, California, January 31 - February 3, 2013.” 3 e-posters and 3 posters.
- “2013 SCMR-ISMRM Workshop: New Horizons in High-field Cardiovascular Imaging: Promises and Progress. San Francisco, California, January 30-31, 2013.” Faculty invitation.

- “54th ASH (America Society of Hematology) Annual Meeting and Exposition, December 8-11, 2012, Atlanta, Georgia”. 1 poster.
- “ESC (European Society of Cardiology) Congress 2012, 25 Aug 2012 - 29 Aug 2012, Munich, Germany”. Oral presentation and 2 posters.
- “ISMRM (International Society for Magnetic Resonance in Medicine) 20th Annual Meeting, Melbourne, Australia, 5-11 May 2012”. 4 e-posters.
- “SCMR (Society for Cardiovascular Magnetic Resonance) 15th Annual Scientific Sessions, Orlando, Florida, February 1-5, 2012.” 4 posters.
- “53rd ASH (America Society of Hematology) Annual Meeting and Exposition, December 10-13, 2011, San Diego, California”. 7 posters.
- “ESC (European Society of Cardiology) Congress 2011, 27 Aug 2011 - 31 Aug 2011, Paris, France”. Oral presentation and 6 posters.
- “2nd Annual Scientific Symposium on Ultrahigh Field Magnetic Resonance: Clinical Needs, Research Promises and Technical Solutions. Friday, June 24 2011, Max Delbrück Communications Center (MDC.C), Berlin”.
- “CARS (Computed Assisted Radiology and Surgery) 25th International Congress and Exhibition, June 22-25 2011”. Oral presentation and 1 poster.
- “ISMRM (International Society for Magnetic Resonance in Medicine) 19th Annual Meeting & Exhibition. 7-13 May 2011, Montreal, 4 e-posters.
- “2011 SCMR/Euro CMR Joint Scientific Sessions, Nice, France. 3-6 February 2011”. 3 posters.
- “ESC (European Society of Cardiology) Congress 2010, Stockholm – Sweden, 28 Aug 2010 - 01 Sep 2010”. 6 posters.
- “15th EHA (European Hematology Association), Barcelona, Spain, 10-13 June”. 4 posters.
- “8th EuroCMR Meeting 2010 –Florence, Italy, May 27-29 2009”. 1 poster.
- “ISMRM (International Society for Magnetic Resonance in Medicine) Annual Meeting, Stockholm, Sweden, 1-7 May 2010”. Oral presentation and 3 e-posters.
- “Ninth International Conference on Intelligent Systems Design and Applications (ISDA) – Pisa, Italy, November 30- December 2, 2009”. Oral presentation.
- “World Congress on Medical Physics and Biomedical Engineering - Munich, Germany, September 7–12, 2009”. Oral presentation. Chair of the session: Th. 04/3.13, Modeling and Simulation for Imaging - Tuesday, Sep 8 - 15.00/16.45, Hall 12b.
- “7th EuroCMR Meeting 2009 - Athens, Greece, May 21-23 2009”. “Stendista”. 1 poster.
- “50th ASH (America Society of Hematology) Annual Meeting, December 6-

9, 2008, San Francisco, California". 2 posters.

- "Advances in Medical, Signal and Information Processing (MEDSIP 2008), 14-16 July 2008, Lido Palace Hotel, Santa Margherita Ligure, Italy". 1 poster.

✓ **National Congresses**

- "Generiamo il futuro". Conferenza sulla Ricerca nelle Scienze della Vita in Toscana. Evento annuale POR FESR 2014-2020. Siena, September 14, 2018.
- Risonanza magnetica in medicina 2017: dalla ricerca tecnologica avanzata alla pratica clinica. Gaeta, June 8-9, 2017.
- "77° Congresso Nazionale della Società Italiana di Cardiologia, Roma, December 17-19, 2016". 5 oral presentations and 3 posters.
- VIII Congresso Nazionale S.I.T.E. Genova, October 9-11, 2014.
- "75° Congresso Nazionale della Società Italiana di Cardiologia, Roma, 13-15 December, 2014". 10 oral presentaions and 1 poster.
- "Secondo Congresso Nazionale di Bioingegneria, Torino, 8-10 July, 2010". 2 posters.
- "69° Congresso Nazionale della Società Italiana di Cardiologia, Roma December 13-16, 2008". 1 poster.
- "Primo Congresso Nazionale di Bioingegneria, Pisa, 3-5 luglio 2008". Presentazione di un poster in data 04/07/2008.

✓ **Investigator meetings**

- "ERN-EuroBloodNet Online 4th Progress Meeting". Monday 7th November 2022 – 9am to 4pm.
- "Oxygenation-Sensitive CMR Symposium, online version." November 19-20, 2021 (3 hours each day).
- "Le malattie rare e gli European Reference Networks." Pisa, February 22, 2020.
- "ERN-EuroBloodNet interactive session at EHA Congress." Friday 14th June.
- "ERN EuroBloodNet, Board of Network meeting." Parigi, December 8, 2018.
- "HTA-Thal: meeting di chiusura." Roma, June 28, 2011.
- "I Investigator Meeting del progetto MIOMED." Pisa, October 18-19, 2010.
- Riunione dei sottogruppi "diagnostica" e "linee guida" del progetto "Rete interregionale per la Talassemia: HTA dei percorsi diagnostico-strumentali e terapeutici e monitoraggio dell'accumulo di ferro (HTA-Thal)". Università Cattolica di Roma, May 11, 2009.

- “III Investigator Meeting del progetto MIOT”. Palermo, November 6-7, 2008.
- “Primo incontro del progetto Rete interregionale per la Talassemia: HTA dei percorsi diagnostico-strumentali e terapeutici e monitoraggio dell’accumulo di ferro (HTA-Thal)”. Potenza, April 14-16, 2008.
- “II Investigator Meeting del progetto MIOT.” Parma, November 22-23, 2007.

✓ **ECM Events**

- “MIOT Network: una rete al servizio del paziente con emoglobinopatia.” Virtual Meeting. November 25-27, 2020.
- “MIOT Network: una rete in crescita per il paziente con emoglobinopatia.” Ancona, November 14-15, 2019.
- “MIOT Network in a nutshell”. Cagliari, March 29, 2019.
- “MIOT Network in a nutshell”. Catania, May 31, 2019.
- “MIOT Network: una rete in crescita per il paziente con emoglobinopatia.” Napoli, November 15-16, 2018.
- “MIOT NELLE Emoglobinopatie: network decennale nella gestione del paziente con patologia rara fra presente e futuro.” Ferrara, October 12-13, 2017.
- “EMOGLOBINOPATIE E MIOT: 10 anni di network nella gestione del paziente con patologia rara fra presente e futuro.” Parma, December 15-16, 2016.
- “eMIOT nelle EMOGLOBINOPATIE: il valore aggiunto del fare network nella gestione del paziente con malattia rara.” Pisa, November 26-27, 2015.
- “EMOGLOBINOPATIE E MIOT: il valore aggiunto clinico diagnostico e prognostico del fare rete nella gestione del paziente con malattia rara.” Palermo, November 27-28, 2014.
- “EMOGLOBINOPATIE E MIOT: il valore aggiunto clinico diagnostico e prognostico del fare rete nella gestione del paziente con malattia rara.” Taranto, November 28-29, 2013.
- “EMOGLOBINOPATIE E MIOT: il valore aggiunto clinico diagnostico e prognostico del fare rete nella gestione del paziente con malattia rara.” Roma, November 22-23, 2012.
- TALASSEMIA: il contributo scientifico del MIOT network nella diagnosi e nel follow up del paziente talassemico.” Catania, October 20-21, 2011.
- “Talassemia: il ruolo della RM T2* nella diagnosi e nel follow-up terapeutico con chelanti di ferro. Update 2010.” Ferrara, October 12-13, 2010.

- “Talassemia Major: il ruolo della RM T2* nella diagnosi e nel follow-up terapeutico con chelanti di ferro.” Firenze, September 3-4, 2009.

➤ **PERSONAL TRAITS**

- o Excellent attitude towards relationship
- o Spontaneity
- o Imagination
- o Flexibility
- o Determination
- o Dynamism
- o Problem solving

I confirm that the information provided on this CV is accurate and reflects my current employment and qualifications.

Pisa, April 15, 2025