

Curriculum Vitae

Maria Marketou



Present Position

- Associate Professor of Cardiology, Faculty of Medicine, University of Crete, Cardiology Department, Heraklion University General Hospital
- Head of Cardiovascular Prevention and Hypertension Outpatient Clinic, Heraklion University General Hospital
- Head of the Hypertension Excellence Centre (ESH) of Heraklion University General Hospital, Cardiology Department
- Head of Cardiac Rehabilitation Programme of Heraklion University General Hospital
- Head of Cardiovascular Home Care Programme of Heraklion University General Hospital
- Head of Cardio-Oncology Outpatient Clinic of Heraklion University General Hospital
- Head of the Molecular Cardiology Laboratory, Faculty of Medicine, University of Crete
- Head of Cardiorespiratory Laboratory
- Member of Echocardiography Laboratory
- Author, co-author of > 150 articles in peer-reviewed medical literature (cited pubmed, h-index 33)

Training and Education

- Internal Medicine (1995-1996), Agios Nikolaos General Hospital, Greece
- Cardiology (1996-1999), Cardiology Department, Heraklion University General Hospital, Greece
- Postgraduate training in the USA, at the Hypertension and Atherosclerosis Section of Boston University Medical School, working under the supervision of Professor Haralambos Gavras. (January 2008 – July 2009)

Post Graduate Degrees

- Medical Degree, University of Crete (1993)
- Medical Board Certification in Cardiology, Greece (1999)
- Doctoral Dissertation, PhD, University of Crete (2001)
- Hypertension Specialist, European Society of Hypertension (2014)
- EACVI Adult Transthoracic Echocardiography Certification (2021)

Current Fellowships/Memberships

- Member of European Society of Hypertension – Hypertension Specialist
- Fellow of the European Society of Cardiology (ESC)
- Silver Member of European Association of Preventive Cardiology (EAPC) of ESC
- Member of European association of Cardiovascular Imaging (EACVI)
- Member of Heart Failure Association of ESC

Scientific Activities

Currently:

- Member of the ESC Digital Health Committee (2022 -)
- Member of the European Exam in Core Cardiology MCQ Writing Group (2019-)
- Member of the nucleus of EAPC Primary Care and Risk Factors Management Section (2024 -)
- Member of the nucleus of ESC Council of Hypertension
- Abstract reviewer EAPC and ESC Congresses
- Invited to chair, speak or serve as a discussant at numerous European Society of Hypertension, EAPC and ESC annual congresses and meetings
- Active abstract submitter and presenter at multiple EAPC, ESH and ESC annual congresses

Other (Inter)national Committee(s) Participation

- Immediate Past-Chair of the Working Group of Hypertension of the Hellenic Society of Cardiology
- Greek National Representative for the ESC Guidelines for Hypertension
- Member of the National Committee for Postgraduate Training in Hypertension, Greek National Board of Health
- Member of the National Scientific Committee for Evaluation of Methodology and Application of Health Quality Indicators in Greece

- Member of the Scientific Committee and Coordinator of the MSc programme, Faculty of Medicine, University of Crete entitled “Exercise and Exercise-Based Rehabilitation in Patients with Cardiovascular Diseases”
- Vice-President of the Organising Committee of the ACC Middle East & Mediterranean Meeting, 2-4 November 2023, Athens, Greece
- Member of the Organising Committee, 31st European Meeting on Hypertension and Cardiovascular Protection, Athens, Greece, June 17-20, 2022
- Organising and Scientific Committee Member of numerous local and national medical congresses
- Member of the Hellenic Society of Cardiology
- Member of the Hellenic Hypertension Society
- Member of European Society of Hypertension
- Scientific Journal Reviewer (American Journal of Cardiology, American Journal of Physiology- Heart and Circulatory Physiology, Bioscience Reports, Cardiovascular Diabetology, Cochrane Heart, Circulation: Cardiovascular Imaging, Endocrinology Diabetes and Metabolism Case Reports, Expert Review of Cardiovascular Therapy, Genes, Heart, Hypertension, International Journal of Cardiology, International Journal of Molecular Sciences, Journal of Cardiovascular Translational Research, Journal of Clinical Medicine, Journal of Human Hypertension, Scandinavian Cardiovascular Journal, etc.)
- Reviewer of ACC Annual Congress Abstracts

Editorial Boards

- Atherosclerosis Plus
- Frontiers in Cardiovascular Medicine

Publications: >150, h-index 33, citations 16333

- Theofilis P, Leontsinis I, Farmakis D, Avramidis D, Argyriou N, Didagelos M, Zarifis I, Thomopoulos C, Kitsiou A, Koutsopoulos G, Kourgianidis G, Kostopoulos A, Manta E, **Marketou M**, Bistola V, Bibis G, Naka KK, Ntavlouros P, Oikonomou E, Patsilnakos S, Patsourakos N, Sawafta A, Schismenos V, Trikas A, Chalikias G, Chatzieleftheriou C, Tsioufis K. Trends in Utilization of Guideline-Directed Cardiorenal Protective Therapies for Chronic Kidney Disease in Patients with Cardiovascular Morbidity: Real World Data from Two Cross-Sectional Snapshots

(HECMOS I and II). *Biomedicines*. 2025;13(8):1987. doi: 10.3390/biomedicines13081987.

- Mach F, Koskinas KC, Roeters van Lennep JE, Tokgözoğlu L, Badimon L, Baigent C, Benn M, Binder CJ, Catapano AL, De Backer GG, Delgado V, Fabin N, Ference BA, Graham IM, Landmesser U, Laufs U, Mihaylova B, Nordestgaard BG, Richter DJ, Sabatine MS; ESC/EAS Scientific Document Group. 2025 Focused Update of the 2019 ESC/EAS Guidelines for the management of dyslipidaemias. *Eur Heart J*. 2025 Aug 29;ehaf190. doi: 10.1093/eurheartj/ehaf190.
- Vardas EP, **Marketou M**, Vardas PE. Medicine, healthcare and the AI act: gaps, challenges and future implications. *Eur Heart J Digit Health*. 2025 Apr 23;6(4):833-839. doi: 10.1093/ehjdh/ztaf041. eCollection 2025 Jul.
- Gkantaifi A, Papadopoulos C, Toumpourleka M, **Marketou M**, Mauri D, Giakoumettis G, Mavroudis D, Tolia M. A Prospective Study on the Role of Strain Echocardiography in Detecting Early Radiation-induced Cardiotoxicity in Left-sided Breast Cancer Patients. *Rev Recent Clin Trials*. 2025 May 8.
- Mia S, Siokatas G, Sidiropoulou R, Hoffman M, Fragkiadakis K, Markopoulou E, Elesawy MI, Roy R, Blair S, Kuwabara Y, Rapushi E, Chaudhuri D, Makarewich CA, Gao E, Koch WJ, Schilling JD, Molkentin JD, **Marketou M**, Drosatos K. Hepato-cardiac interorgan communication controls cardiac hypertrophy via combined endocrine-autocrine FGF21 signaling. *Cell Rep Med*. 2025 Jun 17;6(6):102125.
- Leontsinis I, Liori S, Farmakis D, Valatsou A, Vlachakis P, Verikokou CA, Vlad ID, Giannaris V, Giannopoulos G, Dimitriadis K, Theofilis P, Karakostas G, Komporozos C, Konstantinides G, Lambropoulos S, Lioni A, Makris A, Makridis P, Mamarelis I, **Marketou M**, Naka A, Nikitas G, Davlouros P, Oikonomou E, Papaioannou N, Pipilis A, Sawafta A, Skantzikas P, Siarkos M, Sinanis T, Skordis K, Spiromitros G, Stamoulopoulos I, Tsatiris K, Tsiachris D, Fosteris M, Foukarakis E, Chrysochoou C, Filippatos G, Tsioufis K. Heart failure burden and care among cardiology inpatients: insights from the Hellenic Cardiorenal Morbidity Snapshot (HECMOS) study. *Clin Res Cardiol*. 2025 Apr 22.
- Aleksova A, Fluca AL, Pierri A, Barbati G, Beltrami AP, Padoan L, Merro E, **Marketou M**, Zwas D, D'Errico S, Sinagra G, Janjusevic M. Amyloid β 1-40 Predicts Long-Term Mortality Rate in Patients With Acute Myocardial Infarction. *J Am Heart Assoc*. 2025 Apr 15;14(8):e035620. doi: 10.1161/JAHA.124.035620.

- Korela D, Foukarakis E, Plevritaki A, Maragkoudakis S, Anastasiou I, Patrianakos A, Kapsoritakis N, Koukouraki S, Bourogianni O, Pontikoglou C, Psillaki M, Padadaki HA, Zaganas I, Samonakis D, Detorakis E, Petrakis I, Stylianou K, Chlouverakis G, Giannakoudakis E, Simantirakis E, Kochiadakis G, **Marketou M**. Deterioration of Myocardial Global Longitudinal Strain and Its Relationship with Arterial Stiffness in Patients with Cardiac Amyloidosis: A Six-Month Follow-Up. *J Clin Med*. 2025 Mar 18;14(6):2078
- **Marketou ME**, Anastasiou I, Furlis A, Alevizaki A, Kochiadakis G. Efficacy of an Internet of Things-based system for cardiac rehabilitation monitoring: insights from the IntellIoT pivotal trial in heart failure patients. *Eur Heart J Digit Health*. 2024 Dec 19;6(2):293-297.
- Aleksova A, Fluca AL, Beltrami AP, Dozio E, Sinagra G, **Marketou M**, Janjusevic M.J Part 2-Cardiac Rehabilitation After an Acute Myocardial Infarction: Timing and Gender Differences in Adherence; Where Do We Stand? *J Clin Med*. 2025 Feb 11;14(4):1189.
- Kallistratos M, Konstantinidis D, Dimitriadis K, Sanidas E, Katsi V, Androulakis E, Vlachopoulos C, Toutouzas K, Kanakakis J, Sideris S, Kafkas N, Mavrogianni AD, Papadopoulos CH, Stefanidis A, Patsourakos N, Kachrimanidis I, Papaioannou N, Tsioufis C, Kochiadakis G, **Marketou M**. Exercise and cardiac rehabilitation in hypertensive patients with heart failure with preserved ejection fraction: A position statement on behalf of the Working Group of Arterial Hypertension of the Hellenic Society of Cardiology. *Hellenic J Cardiol* 2024 Jan-Feb;75:82-92. doi: 10.1016/j.hjc.2023.08.008.
- **Marketou M**, et al. Peripheral Blood MicroRNA-21 as a Predictive Biomarker for Heart Failure With Preserved Ejection Fraction in Old Hypertensives. *Am J Hypertens* 2024 Mar 15;37(4):298-305. doi: 10.1093/ajh/hpad109.
- **Marketou ME**, et al. Visceral fat and cardiometabolic future in children and adolescents: a critical update. *Pediatr Res* 2023 Nov;94(5):1639-1647. doi: 10.1038/s41390-023-02709-9.
- **Marketou et al**. Differences in MicroRNA Expression in Pericoronary Adipose Tissue in Coronary Artery Disease Compared to Severe Valve Dysfunction. *Angiology* 2023 Jan;74(1):22-30. doi: 10.1177/00033197221121617.
- Angelaki E, Barmparis GD, Kochiadakis G, Maragkoudakis S, Savva E, Kampanieris E, Kassotakis S, Kalomoirakis P, Vardas P, Tsironis GP, **Marketou ME**. Artificial intelligence-based opportunistic screening for the detection of arterial hypertension through ECG signals. *J Hypertens* 2022 Dec 1;40(12):2494-2501. doi: 10.1097/HJH.0000000000003286.

- Angelaki E, **Marketou ME**, et al. Detection of abnormal left ventricular geometry in patients without cardiovascular disease through machine learning: An ECG-based approach. *J Clin Hypertens (Greenwich)* 2021 May;23(5):935-945. doi: 10.1111/jch.14200.

Major Research Interest(s)

I have a strong research interest in the pathophysiology and management of hypertension and cardiovascular risk factors. I lead several programs of research in cardiovascular risk factors management. One of my major research projects evaluates pathophysiological mechanisms and practices in patients with hypertension and HFpEF. I also investigate the impact of digital health and AI algorithms in the management of hypertension and cardiovascular risk factor in patients with cardiovascular diseases.

Clinical Trials

- Experienced Principal Investigator (PI) and sub-Investigator in several International Clinical Trials mainly in the field of hypertension, digital health and primary health care.
- Principal Investigator in several clinical studies focusing on cardiovascular prevention, hypertension and cardiovascular disease risk factors, health population and digital health.

EU-Funded Projects

- Senior Investigator in **IntelloT** ('Intelligent, distributed, human-centred & trustworthy IoT environments')
- Principal Investigator in **H-PASS** ("Health Professionals' and the "DigitAl team" Skills advancement")
- Senior Investigator in the following EU-funded projects in collaboration with the primary health care sector
 - 1) JA TRANSFER OF BEST PRACTICES IN PRIMARY CARE 'JA CIRCE (CoI)
 - 2) **ARISTOTELES** - Applying ARTificial Intelligence to Define clinical trajectoryS for personalized predicTiOn and early deTEctiOn of comorbidiTy and multimorbidiTy pattErnS ()
 - 3) **EUVABECO** Project- European vaccination beyond COVID. The COVID-19 crisis reshaped global vaccination strategies, leading to the swift development of innovative practices. The EUVABECO project, funded by the EU Commission's EU4Health Programme aims to equip EU Member States with validated implementation plans for these practices, accommodating diverse contexts to enable cross-border deployment.

Supporting-the-Community Projects

With the Regional Authority of Crete, I have organised and spoken at seminars and events to promote the importance of preventive cardiology at every level of community- from primary and secondary schools to general community and senior citizen events. Mentoring nurses and encouraging them to grow professionally is a private passion.