

Curriculum Vitae

GIUSEPPE VERGARO, MD, PhD, FHFA

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SUMMARY

I am currently Consultant Cardiologist at the Fondazione Toscana Gabriele Monasterio and Affiliate Researcher at the Scuola Superiore Sant'Anna, Pisa. As a former undergraduate and PhD student at the Scuola Sant'Anna, as well as working at the Fondazione Monasterio, I have focused my research interests on the pathophysiology of heart failure, spanning from the role of neural control on cardiac (dys)function to the study of circulating biomarkers of profibrotic pathways. During my joint PhD (Université Sorbonne, Paris & Scuola Sant'Anna, Pisa), I have developed skills in basic research which I am currently performing in Pisa (with the facilities of the Centro di Biomedicina Sperimentale), so that my original research activity is now ranging from the molecular effects of sacubitril/valsartan in a murine model of left ventricular systolic dysfunction to the investigation of the prognostic significance of cardiac biomarkers from large randomized clinical trials. Furthermore, I have been working on several research projects, some of which based on multicentre collaborations and funded by national and international agencies, aimed to investigate the epidemiology, novel diagnostic (based on both biomarkers and imaging tools), and therapeutic strategies in cardiac amyloidosis. In addition, I developed a keen interest on the mechanisms of disease progression in cardiac amyloidosis, with special reference to neurohormonal activation and fibrosis, that I am currently studying applying, among others, also genomic and proteomic approaches.

During the last few years I have also contributed to the set up of several national and international scientific collaborations with some of the most renowned groups in the field of heart failure (e.g. Alain Cohen Solal and Alexandre Mebazaa, Paris; Antoni Bayes-Genis and Josep Lupon, Barcelona; James L Januzzi, Boston). Further, I am actively participating to the initiatives of the European Society of Cardiology, as a Founder and Core Nucleus member of the Heart Failure Specialists of Tomorrow Committee and, more recently, as a member of several Study Groups and Committees.

I am also involved in educational activities at the University of Pisa (Dpt. of Physics) and at the Scuola Superiore Sant'Anna (undergraduate and PhD courses, 2nd Level Master in Clinical Pathophysiology and Management of Heart Failure), and I am serving as advisor for undergraduate and PhD students of both the University of Pisa and Scuola Sant'Anna. I am currently holding Italian National Qualification as Associate Professor (SSD 06/D1).

I am author of 141 peer-reviewed articles published on national and international Journals (Scopus H-index 22), editor of one book; 35% of papers published in the top 10% Journal by CiteScore; 20% of papers in the top 10% most cited worldwide (years 2016-2021; source Scopus SciVal).

CURRENT POSITION

Scuola Superiore Sant'Anna, Pisa, Italy

Assistant Professor, Health Science Interdisciplinary Center– since August 2022

Fondazione Toscana Gabriele Monasterio, Pisa, Italy

Consultant Cardiologist, Division of Cardiology and Cardiovascular Medicine – since August 2016

EDUCATIONAL BACKGROUND

Université Sorbonne Paris, Paris, France (*partetariat international*)

Doctorat de Biothérapies

Thesis Title: Voies profibrotique de l'aldosterone et de la galectine-3 dans l'insuffisance cardiaque

Advisors: Prof. Michele Emdin – Prof. Alain Cohen Solal

February 2017

Sant'Anna School of Advanced Studies, Pisa, Italy (*international partnership*)

PhD in Translational Medicine – *cum laude*

Thesis Title: Galectin-3 and aldosterone profibrotic pathways in the failing heart

Advisors: Prof. Michele Emdin – Prof. Alain Cohen Solal

February 2017

University of Florence, Florence, Italy

Specialization in Cardiovascular Diseases – 70/70 *cum laude*

Thesis Title: Galectin-3 and myocardial fibrosis in non-ischemic dilated cardiomyopathy

Advisors: Prof. Michele Emdin – Prof. Luigi Padeletti

June 2014

Sant'Anna School of Advanced Studies, Pisa, Italy

Diploma in Medical Sciences – 100/100 *cum laude*

Thesis Title: Plasma renin activity in the prognosis of heart failure

Advisors: Prof. Michele Emdin – Prof. Fabio A. Recchia

October 2009

University of Pisa, Pisa, Italy

Medicine Degree, 110/110 *summa cum laude*

Thesis Title: Nerve Growth Factor and adrenergic modulation in heart failure

Advisor: Prof. Michele Emdin

July 2008

RESEARCH EXPERIENCE

Gabriele Monasterio Foundation, Division of Cardiovascular Medicine, Pisa, Italy

Research activity in the field of neurohormonal activation, biomarkers, reflex systems and autonomic modulation in heart failure. Supervisor: Prof. Michele Emdin, Prof. Claudio Passino – March 2006 to present

Visiting Student at Harvard Medical School, Cardiovascular Research Center, and at Cornell University Medical College, Div. of Cardiology. New York, NY and Boston, MA, USA

Supervisors: Prof. Roger J. Hajjar and Prof. Stephen Scheidt – October 2006

National Council of Research, Laboratory of Cardiovascular Pathophysiology, Pisa, Italy
Research activity in the field of gene therapy in porcine models of heart failure. Supervisor: Prof. Fabio A. Recchia – March 2005 to March 2006

GRANTS AND AWARDS

Best Poster Award, European Society of Cardiology Congress Abstract title: *Chronic obstructive pulmonary disease in heart failure: influence on circulating biomarkers and outcome* – August 2020

Senior PhD Student Presentation Award

PhD DAY Translational Medicine

Scuola Superiore Sant'Anna, Pisa – July 2016

Senior PhD Student Presentation Award

PhD DAY Translational Medicine

Scuola Superiore Sant'Anna, Pisa – July 2015

Junior PhD Student Presentation Award

PhD DAY Translational Medicine

Scuola Superiore Sant'Anna, Pisa – July 2014

European Society of Cardiology Research Grant awardee

Project title: *Galectin-3 and aldosterone profibrotic pathways in the failing heart*

Host: INSERM Unit 942 Paris-Diderot University Hopital Lariboisiere, Paris

Supervisor: Prof. Alain Cohen-Solal – October 2013

European Society of Cardiology First Contact Initiative Grant awardee

Project title: *Effects of renin inhibition on aldosterone breakthrough in a rat model of heart failure*

Host: INSERM Unit 942 Paris-Diderot University Hopital Lariboisiere, Paris

Supervisor: Dr. Claude Delcayre – April 2012

Young Investigator Award first prize, European Society of Cardiology Heart Failure Congress, Goteborg

Abstract title: *Plasma renin activity and angiotensinogen M235T polymorphism are determinants of aldosterone escape in patients with systolic heart failure* – May 2011

Young Investigator Award finalist, European Society of Cardiology Heart Failure Congress, Berlin

Abstract title: *PR_A is an independent prognostic factor across the entire spectrum of heart failure clinical status* – May 2010

International Federation of Medical Students Associations Research Grant. Project title: *Application of molecular techniques to diagnostic pathology*. Supervisor: Prof. Ryohei Katoh, Yamanashi University, Japan – August 2005

CLINICAL TRAINING COURSES AND ACCREDITATION

Good Clinical Practice for Investigational Site Staff. TransCelerate BioPharma, Inc.
October 2021

Course "Centro di Biomedicina Sperimentale: Aspetti normativi e procedure Operative"
September 2014

Cardiovascular Imaging Association (EACVI, formerly EAE) of the ESC Adult Transthoracic Echocardiography Certification. December 2012

Centro Cardiologico Monzino, Milano Cardiopulmonary exercise testing: physiological basis, indications and interpretation. May 2011

Gabriele Monasterio Foundation, Pisa Basic training ACC/ASNC in nuclear cardiology. May 2010

AHA Basic Life Support course, Pisa. May 2007

AHA Advanced Cardiovascular Life Support course, Pisa. May 2007

MEMBERSHIPS

Fellow of the Heart Failure Association of the European Society of Cardiology (ESC), 2019-now

Study Group on Atrial Disease of the ESC Heart Failure Association (HFA), Member 2020-2022

Study Group on Lung Disease and Sleep Disorders of the ESC HFA, Member 2020-2022

Innovation in Heart Failure Committee of the ESC HFA, Member 2020-2022

Membership Committee of the ESC HFA, Member 2020-2022

Exercise Physiology and Training Committee of the ESC HFA, Member 2020-2022

Heart Failure Specialists of Tomorrow Committee of the ESC HFA, Member 2018-2020

Study Group on Heart Transplantation of the ESC HFA, Member 2018-2020

Gold Member of the Heart Failure Association of the European Society of Cardiology, 2017- now

Professional Member of the European Society of Cardiology, 2019 - now

Member of the Working Group on Myocardial Function of the European Society of Cardiology, 2016- now

Socio Ordinario, Società Italiana di Cardiologia, 2017- now

Member Società Italiana per l'Amiloidosi, 2017- now

TEACHING

National Qualification as Associate Professor Settore Scientifico Disciplinare 06/D1 Malattie dell'Apparato Cardiovascolare e Malattie dell'Apparato Respiratorio - 9 Nov 2020 – 9 Nov 2029

Board Member of the PhD Programme "Health Science Technology and Management", Scuola Superiore Sant'Anna, Pisa, Academic Year 2020-21

Teacher, Course “Introduzione alla ricerca clinica”, Scuola Superiore Sant’Anna, Academic Years 2015-2016, 2016-2017, 2017-2018

“Incarico di co-docenza”, Course “Elementi di fisiologia, fisiopatologia e diagnostica”, Department of Physics, Università di Pisa, Academic Year 2018-now

Coordinator and Teacher, **“Master Universitario di II livello”** in “Fisiopatologia clinica e management dello scompenso cardiaco”, Scuola Superiore Sant’Anna, Pisa, Academic Year 2018-now

Teacher, **“Master Universitario di II livello”** in “Innovation in Cardiac Surgery: Advances in Minimally Invasive Therapeutics”, Scuola Superiore Sant’Anna, Pisa, Academic Year 2018-2019

EDITORIAL ACTIVITY

Editorial Board Member, *European Heart Journal Open*, 2021- current

Editorial Board Member, *International Journal of cardiology*, 2020 – current

Associate Editor, *JACC Case Reports*, 2020 – current

Associate Editor, *BMC Cardiovascular Disorders*, 2019 – current

Academic Editor, *PLoS One*, 2020 – current

Guest Associate Editor for *Frontiers in Physiology*.

Review Editor for *Frontiers in Cardiovascular Medicine*.

Reviewer for *European Heart Journal*; *Circulation*; *European Journal of Heart Failure*; *ESC Heart Failure*; *Circulation: Heart Failure*; *Circulation: Arrhythmia and Electrophysiology*; *Frontiers in Physiology*; *International Journal of Cardiology*; *Scientific Reports*; *PloS One*; *Journal of Cardiovascular Medicine*; *Journal of the Renin-Angiotensin-Aldosterone System*; *Journal of Molecular and Cellular Medicine*; *Anais da Academia Brasileira de Ciências*.

Top Reviewer awardee

International Journal of Cardiology – 2017

Abstract Grader for the *Heart Failure Congress of the European Society of Cardiology* 2017-now

PUBLICATIONS

Author of 155 peer-reviewed articles. H-index 25 (Scopus)

Selected papers

Rapezzi C, Aimo A, Serenelli M, Barison A, **Vergaro G**, Passino C, Panichella G, Sinagra G, Merlo M, Fontana M, Gillmore J, Quarta CC, Maurer MS, Kittleson MM, Garcia-Pavia P, Emdin M. Critical Comparison of Documents From Scientific Societies on Cardiac Amyloidosis: JACC State-of-the-Art Review. *J Am Coll Cardiol*. 2022 Apr 5;79(13):1288-1303. doi: 10.1016/j.jacc.2022.01.036. PMID:

35361352.

Aimo A, Castiglione V, Rapezzi C, Franzini M, Panichella G, **Vergaro G**, Gillmore J, Fontana M, Passino C, Emdin M. RNA-targeting and gene editing therapies for transthyretin amyloidosis. *Nat Rev Cardiol*. 2022 Mar 23. doi:10.1038/s41569-022-00683-z. Epub ahead of print. PMID: 35322226.

Aimo A, Fabiani I, Giannoni A, Mandoli GE, Pastore MC, **Vergaro G**, Spini V, Chubuchny V, Pasanisi EM, Petersen C, Poggianti E, Taddei C, Castiglione V, Latrofa S, Panichella G, Sciacaluga C, Georgiopoulos G, Passino C, Cameli M, Emdin M. Multi-chamber speckle tracking imaging and diagnostic value of left atrial strain in cardiac amyloidosis. *Eur Heart J Cardiovasc Imaging*. 2022 Mar 16;jeac057. doi: 10.1093/ehjci/jeac057. Epub ahead of print. PMID: 35292807.

Gentile F, Borrelli C, Sciarrone P, Buoncristiani F, Spiesshoefer J, Bramanti F, Iudice G, **Vergaro G**, Emdin M, Passino C, Giannoni A. Central Apneas Are More Detrimental in Female Than in Male Patients With Heart Failure. *J Am Heart Assoc*. 2022 Mar;11(5):e024103. doi: 10.1161/JAHA.121.024103. Epub 2022 Feb 22. PMID: 35191313.

Banydeen R, **Vergaro G**, Denev A, Monfort A, Emdin M, Lairez O, Giguet AG, Inamo J, Nevriere R. Restrictive spirometry pattern and abnormal cardiopulmonary response to exercise in transthyretin cardiac amyloidosis. *Eur Respir J*. 2022 Feb 24;59(2):2102838. doi: 10.1183/13993003.02838-2021. PMID: 34996829.

Vergaro G, Aimo A, Januzzi JL Jr, Richards AM, Lam CSP, Latini R, Staszewsky L, Anand IS, Ueland T, Rocca HB, Bayes-Genis A, Lupón J, de Boer RA, Yoshihisa A, Takeishi Y, Gustafsson I, Eggers KM, Huber K, Gamble GD, Leong KTG, Yeo PSD, Ong HY, Jaufeerally F, Ng TP, Troughton R, Doughty RN, Emdin M, Passino C. Cardiac biomarkers retain prognostic significance in patients with heart failure and chronic obstructive pulmonary disease. *J Cardiovasc Med (Hagerstown)*. 2022 Jan 1;23(1):28-36. doi: 10.2459/JCM.0000000000001281. PMID: 34839321.

Nicol M, Siguret V, **Vergaro G**, Aimo A, Emdin M, Dillinger JG, Baudet M, Cohen-Solal A, Villesuzanne C, Harel S, Royer B, Arnulf B, Logeart D. Thromboembolism and bleeding in systemic amyloidosis: a review. *ESC Heart Fail*. 2022 Feb;9(1):11-20. doi: 10.1002/ehf2.13701. Epub 2021 Nov 16. PMID: 34784656; PMCID: PMC8787981.

Pucci A, Aimo A, Musetti V, Barison A, **Vergaro G**, Genovesi D, Giorgetti A, Masotti S, Arzilli C, Prontera C, Pastormerlo LE, Cocceani MA, Ciardetti M, Martini N, Palmieri C, Passino C, Rapezzi C, Emdin M. Amyloid Deposits and Fibrosis on Left Ventricular Endomyocardial Biopsy Correlate With Extracellular Volume in Cardiac Amyloidosis. *J Am Heart Assoc*. 2021 Oct 19;10(20):e020358. doi: 10.1161/JAHA.120.020358. Epub 2021 Oct 8. PMID: 34622675; PMCID: PMC8751897.

Gentile F, Sciarrone P, Zamora E, De Antonio M, Santiago E, Domingo M, Aimo A, Giannoni A, Passino C, Codina P, Bayes-Genis A, Lupon J, Emdin M, **Vergaro G**. Body mass index and outcomes in ischaemic versus non-ischaemic heart failure across the spectrum of ejection fraction. *Eur J Prev Cardiol*. 2021 Aug 9;28(9):948-955. doi: 10.1177/2047487320927610. PMID: 34402870.

Vergaro G, Aimo A, Campora A, Castiglione V, Prontera C, Masotti S, Musetti V, Chianca M, Valleggi A, Spini V, Emdin M, Passino C. Patients with cardiac amyloidosis have a greater neurohormonal activation than those with non-amyloidotic heart failure. *Amyloid*. 2021 Aug 16:1-7. doi: 10.1080/13506129.2021.1966624. Epub ahead of print. PMID: 34396857.

Sciacaluga C, Ghionzoli N, Mandoli GE, Sisti N, D'Ascenzi F, Focardi M, Bernazzali S, **Vergaro G**, Emdin M, Valente S, Cameli M. The role of non-invasive imaging modalities in cardiac allograft

vasculopathy: an updated focus on current evidences. *Heart Fail Rev.* 2021 Aug 12. doi: 10.1007/s10741-021-10155-0. Epub ahead of print. PMID: 34383194.

Emdin M, Perfetto F, Aimo A, **Vergaro G**, Buda G, Cappelli F, Pieroni M, Grippo G, Sorini Dini C, Canale ML, Olivotto I, Cameli M, Casolo G. Percorso clinico-assistenziale in rete per la diagnosi e la gestione del paziente con amiloidosi cardiaca. Documento di consenso ANMCO Toscana e SIC Tosco-Umbra [Approach to the diagnosis and management of patients with cardiac amyloidosis. A consensus document by the Tuscan section of the Italian Association of Hospital Cardiologists (ANMCO) and the Tusco-Umbrian section of the Italian Society of Cardiology (SIC)]. *G Ital Cardiol (Rome)*. 2021 Aug;22(8):621-634. Italian. doi: 10.1714/3641.36218. PMID: 34310565.

Vergaro G, Gentile F, Meems LMG, Aimo A, Januzzi JL Jr, Richards AM, Lam CSP, Latini R, Staszewsky L, Anand IS, Cohn JN, Ueland T, Gullestad L, Aukrust P, Brunner-La Rocca HP, Bayes-Genis A, Lupón J, Yoshihisa A, Takeishi Y, Egstrup M, Gustafsson I, Gaggin HK, Eggers KM, Huber K, Gamble GD, Ling LH, Leong KTG, Yeo PSD, Ong HY, Jaueferally F, Ng TP, Troughton R, Doughty RN, Devlin G, Lund M, Giannoni A, Passino C, de Boer RA, Emdin M. NT-proBNP for Risk Prediction in Heart Failure: Identification of Optimal Cutoffs Across Body Mass Index Categories. *JACC Heart Fail.* 2021 Sep;9(9):653-663. doi: 10.1016/j.jchf.2021.05.014. Epub 2021 Jul 7. PMID: 34246607.

Castiglione V, Aimo A, **Vergaro G**, Saccaro L, Passino C, Emdin M. Biomarkers for the diagnosis and management of heart failure. *Heart Fail Rev.* 2021 Apr 14. doi: 10.1007/s10741-021-10105-w. Epub ahead of print. PMID: 33852110.

Castiglione V, Franzini M, Aimo A, Carecci A, Lombardi CM, Passino C, Rapezzi C, Emdin M, **Vergaro G**. Use of biomarkers to diagnose and manage cardiac amyloidosis. *Eur J Heart Fail.* 2021 Feb;23(2):217-230. doi: 10.1002/ejhf.2113. Epub 2021 Feb 21. PMID: 33527656.

Martini N, Aimo A, Barison A, Della Latta D, **Vergaro G**, Aquaro GD, Ripoli A, Emdin M, Chiappino D. Deep learning to diagnose cardiac amyloidosis from cardiovascular magnetic resonance. *J Cardiovasc Magn Reson.* 2020 Dec 7;22(1):84. doi: 10.1186/s12968-020-00690-4. PMID: 33287829; PMCID: PMC7720569.

Girolami F, **Vergaro G**, Pieroni M, Passantino S, Giannotti G, Grippo G, Canale ML, Favilli S, Cappelli F, Olivotto I, Casolo G. Percorso clinico proposto dall'ANMCO Toscana per la diagnosi genetica delle cardiomiopatie in un sistema assistenziale in rete [Clinical pathway for cardiomyopathies: a genetic testing strategy proposed by ANMCO in Tuscany]. *G Ital Cardiol (Rome)*. 2020 Dec;21(12):926-934. Italian. doi: 10.1714/3472.34547. PMID: 33231212.

Vergaro G, Sciarrone P, Prontera C, Masotti S, Musetti V, Valleggi A, Giannoni A, Senni M, Emdin M, Passino C. Renin profiling predicts neurohormonal response to sacubitril/valsartan. *ESC Heart Fail.* 2021 Feb;8(1):719-724. doi: 10.1002/ehf2.13085. Epub 2020 Nov 20. PMID: 33216460; PMCID: PMC7835599.

Emdin M, Aimo A, Castiglione V, **Vergaro G**, Georgiopoulos G, Saccaro LF, Lombardi CM, Passino C, Cerbai E, Metra M, Senni M. Targeting Cyclic Guanosine Monophosphate to Treat Heart Failure: JACC Review Topic of the Week. *J Am Coll Cardiol.* 2020 Oct 13;76(15):1795-1807. doi: 10.1016/j.jacc.2020.08.031. PMID: 33032741.

Nicol M, Deney A, Lairez O, **Vergaro G**, Emdin M, Carecci A, Inamo J, Montfort A, Nevriere R, Damy T, Harel S, Royer B, Baudet M, Cohen-Solal A, Arnulf B, Logeart D. Prognostic value of cardiopulmonary exercise testing in cardiac amyloidosis. *Eur J Heart Fail.* 2021 Feb;23(2):231-239. doi: 10.1002/ejhf.2016. Epub 2020 Oct 22. PMID: 33006180.

Genovesi D, **Vergaro G***, Giorgetti A, Marzullo P, Scipioni M, Santarelli MF, Pucci A, Buda G, Volpi E, Emdin M. [18F]-Florbetaben PET/CT for Differential Diagnosis Among Cardiac Immunoglobulin Light Chain, Transthyretin Amyloidosis, and Mimicking Conditions. *JACC Cardiovasc Imaging*. 2021 Jan;14(1):246-255. doi: 10.1016/j.jcmg.2020.05.031. Epub 2020 Aug 5. PMID: 32771577. *Co-first Author

Giannoni A, Gentile F, Sciarrone P, Borrelli C, Pasero G, Mirizzi G, **Vergaro G**, Poletti R, Piepoli MF, Emdin M, Passino C. Upright Cheyne-Stokes Respiration in Patients With Heart Failure. *J Am Coll Cardiol*. 2020 Jun 16;75(23):2934-2946. doi: 10.1016/j.jacc.2020.04.033. PMID: 32527403.

Aimo A, Januzzi JL Jr, **Vergaro G**, Richards AM, Lam CSP, Latini R, Anand IS, Cohn JN, Ueland T, Gullestad L, Aukrust P, Brunner-La Rocca HP, Bayes-Genis A, Lupón J, de Boer RA, Takeishi Y, Egstrup M, Gustafsson I, Gaggin HK, Eggers KM, Huber K, Gamble GD, Ling LH, Leong KTG, Yeo PSD, Ong HY, Jaufeerally F, Ng TP, Troughton R, Doughty RN, Passino C, Emdin M. Circulating levels and prognostic value of soluble ST2 in heart failure are less influenced by age than N-terminal pro-B-type natriuretic peptide and high-sensitivity troponin T. *Eur J Heart Fail*. 2020 Nov;22(11):2078-2088. doi: 10.1002/ejhf.1701. Epub 2020 Jan 9. PMID: 31919929.

Boldrini M, Cappelli F, Chacko L, Restrepo-Cordoba MA, Lopez-Sainz A, Giannoni A, Aimo A, Baggiano A, Martinez-Naharro A, Whelan C, Quarta C, Passino C, Castiglione V, Chubuchnyi V, Spini V, Taddei C, **Vergaro G**, Petrie A, Ruiz- Guerrero L, Moñivas V, Mingo-Santos S, Mirelis JG, Dominguez F, Gonzalez-Lopez E, Perlini S, Pontone G, Gillmore J, Hawkins PN, Garcia-Pavia P, Emdin M, Fontana M. Multiparametric Echocardiography Scores for the Diagnosis of Cardiac Amyloidosis. *JACC Cardiovasc Imaging*. 2020 Apr;13(4):909-920. doi: 10.1016/j.jcmg.2019.10.011. Epub 2019 Dec 18. PMID: 31864973.

Vergaro G, Ghionzoli N, Innocenti L, Taddei C, Giannoni A, Valleggi A, Borrelli C, Senni M, Passino C, Emdin M. Noncardiac Versus Cardiac Mortality in Heart Failure With Preserved, Midrange, and Reduced Ejection Fraction. *J Am Heart Assoc*. 2019 Oct 15;8(20):e013441. doi: 10.1161/JAHA.119.013441. Epub 2019 Oct 5. PMID: 31587602; PMCID: PMC6818034.

Vergaro G, Aimo A, Barison A, Genovesi D, Buda G, Passino C, Emdin M. Keys to early diagnosis of cardiac amyloidosis: red flags from clinical, laboratory and imaging findings. *Eur J Prev Cardiol*. 2020 Nov;27(17):1806-1815. doi: 10.1177/2047487319877708. Epub 2019 Oct 4. PMID: 31581822.

Vergaro G, Aimo A, Prontera C, Ghionzoli N, Arzilli C, Zyw L, Taddei C, Gabutti A, Poletti R, Giannoni A, Mammini C, Spini V, Passino C, Emdin M. Sympathetic and renin-angiotensin-aldosterone system activation in heart failure with preserved, mid-range and reduced ejection fraction. *Int J Cardiol*. 2019 Dec 1;296:91-97. doi: 10.1016/j.ijcard.2019.08.040. Epub 2019 Aug 17. PMID: 31443984.

Emdin M, Aimo A, Rapezzi C, Fontana M, Perfetto F, Seferović PM, Barison A, Castiglione V, **Vergaro G**, Giannoni A, Passino C, Merlini G. Treatment of cardiac transthyretin amyloidosis: an update. *Eur Heart J*. 2019 Dec 1;40(45):3699-3706. doi: 10.1093/eurheartj/ehz298. PMID: 31111153.

Emdin M, Aimo A, **Vergaro G**, Bayes-Genis A, Lupón J, Latini R, Meessen J, Anand IS, Cohn JN, Graving J, Gullestad L, Broch K, Ueland T, Nymo SH, Brunner-La Rocca HP, de Boer RA, Gaggin HK, Ripoli A, Passino C, Januzzi JL Jr. sST2 Predicts Outcome in Chronic Heart Failure Beyond NT-proBNP and High-Sensitivity Troponin T. *J Am Coll Cardiol*. 2018;72:2309-2320.

Vergaro G, Januzzi JL Jr, Cohen Solal A, Aimo A, Arzilli C, Zyw L, Valleggi A, Giannoni A, Prontera C, Barison A, Poletti R, Gabutti A, Mammini C, Passino C, Emdin M. NT-proBNP prognostic value is maintained in elderly and very elderly patients with chronic systolic heart failure. *Int J Cardiol*. 2018;271:324-330.

Vergaro G, Iacoviello M. Is there a "renal paradox" in chronic heart failure? *Int J Cardiol.* 2018. pii: S0167-5273(18)32731-1.

Aimo A, Januzzi JL Jr, **Vergaro G**, Ripoli A, Latini R, Masson S, Magnoli M, Anand IS, Cohn JN, Tavazzi L, Tognoni G, Gravning J, Ueland T, Nymo SH, Brunner-La Rocca HP, Bayes-Genis A, Lupón J, de Boer RA, Yoshihisa A, Takeishi Y, Egstrup M, Gustafsson I, Gaggin HK, Eggers KM, Huber K, Tentzeris I, Tang WHW, Grodin J, Passino C, Emdin M. Prognostic Value of High-Sensitivity Troponin T in Chronic Heart Failure: An Individual Patient Data Meta-Analysis. *Circulation.* 2018;137:286-297.

Aimo A, **Vergaro G**, Castiglione V, Barison A, Pasanisi E, Petersen C, Chubuchny V, Giannoni A, Poletti R, Maffei S, Januzzi JL Jr, Passino C, Emdin M. Effect of Sex on Reverse Remodeling in Chronic Systolic Heart Failure. *JACC Heart Fail.* 2017;5:735-742.

Aimo A, **Vergaro G**, Ripoli A, Bayes-Genis A, Pascual Figal DA, de Boer RA, Lassus J, Mebazaa A, Gayat E, Breidhardt T, Sabti Z, Mueller C, Brunner-La Rocca HP, Tang WH, Grodin JL, Zhang Y, Bettencourt P, Maisel AS, Passino C, Januzzi JL, Emdin M. Meta-Analysis of Soluble Suppression of Tumorigenicity-2 and Prognosis in Acute Heart Failure. *JACC Heart Fail.* 2017;5:287-296.

Aimo A, **Vergaro G**, Passino C, Ripoli A, Ky B, Miller WL, Bayes-Genis A, Anand I, Januzzi JL, Emdin M. Prognostic Value of Soluble Suppression of Tumorigenicity-2 in Chronic Heart Failure: A Meta-Analysis. *JACC Heart Fail.* 2017;5:280-286.

Vergaro G, Prud'homme M, Fazal L, Merval R, Passino C, Emdin M, Samuel JL, Cohen Solal A, Delcayre C. Inhibition of Galectin-3 Pathway Prevents Isoproterenol-Induced Left Ventricular Dysfunction and Fibrosis in Mice. *Hypertension.* 2016;67:606-612.

Vergaro G, Del Franco A, Giannoni A, Prontera C, Ripoli A, Barison A, Masci PG, Aquaro GD, Cohen Solal A, Padeletti L, Passino C, Emdin M. Galectin-3 and myocardial fibrosis in nonischemic dilated cardiomyopathy. *Int J Cardiol.* 2015;184:96-100.

Poletti R, **Vergaro G**, Zyw L, Prontera C, Passino C, Emdin M. Prognostic value of plasma renin activity in heart failure patients with chronic kidney disease. *Int J Cardiol.* 2013;167:711-715.

Vergaro G, Emdin M, Iervasi A, Zyw L, Gabutti A, Poletti R, Mammini C, Giannoni A, Fontana M, Passino C. Prognostic value of plasma renin activity in heart failure. *Am J Cardiol.* 2011;108:246-251

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