

PERSONAL INFORMATION Marco Guazzi

JOB APPLIED FOR  
POSITION  
PREFERRED JOB  
STUDIES APPLIED FOR  
PERSONAL STATEMENT

MD, PhD, FESC, FACC, FAHA  
Professor of Cardiology  
Chief of University Cardiology Department  
IRCCS Policlinico San Donato  
University of Milan

WORK EXPERIENCE

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Settembre 2015-now **Full Professor of Cardiology and Chair of University Cardiology Department**  
University of Milan, IRCCS San Donato Hospital

April 2012-August 2018 **Chair Elected at “Exercise and Basic Translational Science” Nucleus**  
European Association for Cardiovascular Prevention and Rehabilitation (EACPR), ESC

April 2007-March 2012 **Director of the Arterial Hypertension and Heart Failure**  
San Paolo Hospital, Head Office of the University of Milan

December 2005-December 2007 **Chair of the Working Group “Exercise Physiology, Sports Cardiology and Cardiovascular Rehabilitation”**  
Italian Society of Cardiology

March 2005-Now **Associate Professor of Cardiology (title obtained in December 2002)**  
University of Milan

February 2002-March 2005 **Researcher at the University of Milan**  
**Director of Cardiopulmonary Laboratory**  
San Paolo Hospital, Cardiology Division

From 1999 to February 2002 **Professor on Contract**  
I School of Specialization in Cardiology, University of Milan

December 1992-February 2002 **Associate Consultant and Co-Director Heart Failure Unit**  
Monzino Foundation IRCCS, Cardiology Center of the University of Milan

## EDUCATION AND TRAINING

1999	<b>PhD in Cardiovascular Disease</b> University of Milan	Livello QEQ: 8
1998-1999	<b>Research Fellow</b> New England Medical Center (Prof. Marvin Konsam), Tufts University School of Medicine, Boston (MA)	Livello QEQ: 8
1997-1998	<b>Research Fellow</b> Boston University School of Medicine (Laboratory directed by Prof. Wilson Colucci), Boston (MA)	Livello QEQ: 8
1993	<b>Post-Graduate Degree, Cardiology Fellowship</b> University of Pavia	Livello QEQ: 8
1992 from June to September	<b>Visiting Fellow</b> University of San Diego (CA), Seaweed Canyon Laboratory (Prof. John Ross Jr)	
1990-1992	<b>Research Fellow</b> Cardiovascular Research Center of the National Research Council	Livello QEQ: 8
1987-1989	<b>Resident</b> Institute of Internal Medicine, University of Milan (Prof. Dioguardi)	Livello QEQ: 8
1984-1987	<b>Intern</b> Institute of Anatomy, University of Milan	Livello QEQ: 8
1989	<b>Doctor of Medicine</b> University of Milano, graduated cum laude	
1983	<b>Bachelor of Classic Studies</b> Liceo Classico Zaccaria Milano	

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C1	C1	C1

## Job-related skills

**RESEARCH INTERESTS AND CURRENT PROGRAMS**

His research primarily focuses on:

- The pathophysiological and prognostic insights derived by cardiopulmonary exercise testing. His group has developed several algorithms and strategies for using gas exchange analysis during exercise in the follow-up of patients with heart failure.
- The study of lung diffusion and its pathophysiological role in cardiac patients with different stage of severity and lung involvement
- The strategies by which heart failure therapies should be tailored to hemodynamic profiles, specifically, investigating the new form of therapies that may impact cardiac pulmonary hypertension with special emphasis on the effects of targeting the downstream NO pathway by PDE5 inhibition and sCG activation/stimulation.
- The identification of the pathogenetic mechanisms, clinical correlates and prognostic insights of impaired pulmonary hemodynamic and RV dysfunction in heart failure patients.
- The characterization of disease progression in valve heart disease and ischemic heart disease by monitoring and studying the functional and dynamic cardiac adaptations during different stress tests (exercise, fluid loading, tilt test).
- Assessment of clinical and prognostic significance of endothelial dysfunction in different disorders (CAD, hypertension, HF, atrial fibrillation)

He has established several clinical research programs into heart failure and pulmonary vascular disease evaluation and therapy.

He is actually PI of the following trials:

- EuroEx: prediction of CV risk by cardiopulmonary testing: the Euro-EX Population based trial
- LAS-HF: Left Atrial Dynamics as a predictor of risk for clinical worsening and rehospitalization in Heart Failure.
- RVR-HF: Right Ventricular Remodeling in left myocardial infarction: definition of geometric changes and underlying mechanisms in the long-term follow-up.

He served the Scientific Committees for the 2010 AHA Task Force on Guidelines for Cardiopulmonary Exercise Testing and Chaired the 2012 EACPR/AHA Joint Statement on Cardiopulmonary Exercise Testing, the Statement Update 2016 and the Heart Failure Guidelines 2016.

Prof. Guazzi serves the Editorial Board of the European Journal of Preventive Cardiology and the Journal of Cardiac Failure, JACC Heart Failure, European Journal of Preventive Cardiology.

As current appointment he serves as Treasurer of the European Association of Preventive Cardiology at the European Society of Cardiology..

He is part of the Steering Committee of several national and international trials.

He is one of the author of the HFpEF Consensus Document: "How to Diagnose Heart Failure with Preserved Ejection Fraction – the HFA-PEFF-SCORE. An updated Consensus Recommendation from the Heart Failure Association (HFA) of the European Society of Cardiology (ESC)", 2019 European Heart Journal in press.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user  
[Digital competences](#) - [Self-assessment grid](#)

Other skills

**ASSISTANT ACTIVITY**

From 1992 to February 2002 carried out his medical division uninterrupted activity as assistant in the Cardiology Centre, IRCCS, head office of the Cardiology Institute of the University of Milan. For the whole period the diagnostics activity has been carried out in the echocardiography diagnostics and cardiorespiratory physiopathology laboratories. In these laboratories also conducted a strong research activity in myocardial functions in different physiological and physiopathological conditions and performed spirometric evaluations and the pulmonary gas exchange at rest and during exercise in patients with heart failure.

From March 2002 to April 2007 was chief of the Cardiopulmonary Physiopathology Laboratory, in the Cardiology Division of San Paolo hospital. From May 2006 was director of the Cardiopulmonary Unit afferent to the Cardiology Division of San Paolo hospital.

From April 2007 to March 20002 was chair of the Departmental Unit **Arterial Hypertension and Heart Failure** afferent to the Department of Medical Specialties, San Paolo hospital.

From March 2012 is Associate Professor of Cardiology and Head Heart Failure Unit, Cardiopulmonary Laboratory, IRCCS, Policlinico San Donato Milanese.

From September 2015 is Full Professor of Cardiology at the Department for Health and Science, University of Milano and Head of the Cardiology University Department at the IRCCS, Policlinico San Donato, Milano.

**DIDACTIC WORK**

From 1992 to 2001 performed trainings, workshops, tutorial activity during the combined course cardiovascular disease at the Cardiology Institute in the University of Milan.

- From 1995 to February 2001 performed his readership (lessons and tutorial activity), I School of Specialization in Cardiology of the University of Milan.
- From February 2001 is fellow of the School Council and conducts the readership (lessons), II School of Specialization in Cardiology of the University of Milan.
- From 1996 to 2003 readership, CPX Test, practical and theoretical Course, Institute of Cardiology, University of Milan.
- February 2002 didactic and tutorial work (Clinical and Semiotics Course I) for graduating students in Medicine and Chemistry, University Campus of San Paolo hospital, University of Milan
- in October 2004, 2006 and 2007 readership and tutor at the European Practicum on the CPX stress test, organized every year by Prof. Karlman Wasserman, University of Los Angeles, Torrance, California.
- From May 2006 was part of the teaching staff and conducted the didactic work of the Graduation Course in Physiotherapy, University of Milan.
- From October 2006 was part of the faculty and conducted the didactic work of the Graduation Dietary Course, University of Milan.
- From January 2008 was part of the faculty of the Cardiovascular Specialization School, University of Milan.
- From December 2009 was part of the faculty of the Unique Cardiovascular Chemistry Specialization School, University of Milan.
- From March 2012 regular teacher of the Cardiovascular Clinics and Semeiotics I Course for students of the Graduation Course in Medicine and Chemistry, university campus at IRCCS Policlinico San Donato hospital.
- From March 2013 organizes the annual English Course Applications and Development of Cardiopulmonary Test and Stress Echocardiography in Cardiology.
- From March 2016 organizes the EACPR Hands on Course Performing Exercise Measures and Intervention Trials in Heart Failure.

Driving licence B

ADDITIONAL INFORMATION

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**Publications** Author of 1 book, 13 book chapters and author or co-author of more than 879 publications (papers 371 and 508 abstracts).  
 Total Impact Factor: 2405  
 Impact Factor as first Author= **1148.1**  
 Sum of the time Cited= **10740**  
 Sum of Times Cited without self-citations= **7.427**  
 Average citations per item= **14.28**  
 Contemporary Factor (H-index) = **54**

Principal 10 Publications in the last 10 years

1. Guazzi M, Vicenzi M, Arena R, Guazzi MD. Pulmonary hypertension in heart failure with preserved ejection fraction: a target of phosphodiesterase-5 inhibition in a 1-year study. *Circulation* 2011;124:164-174. I.F. = 18.880
2. Guazzi M, Bourlag B. Pulmonary hypertension due to left heart disease. *Circulation* 2012;126:975-990.review I.F. = 18.880
3. Guazzi M, Bandera F, Pelissero G, Castelveccchio S, Menicanti L, Ghio S, Temporelli P, Arena R. Tricuspid annular plane systolic excursion and pulmonary systolic pressure relationship in heart failure: an index of right ventricular contractility and prognosis. *American Journal of Physiology* 2013;305:H 1373-81 I.F. = 3.077
4. Guazzi M. Pulmonary hypertension in heart failure preserved ejection fraction. Prevalence, pathophysiology and clinical perspectives. *Circulation Heart Failure* 2014 1;7:367-377 I.F. = 5.684
5. Guazzi M, Villani S, Generati G, Ferraro OE, Pellegrino M, Alfonzetti E, Labate V, Gaeta M, Sugimoto T, Bandera F. Right ventricular contractile reserve and pulmonary circulation uncoupling during exercise challenge in heart failure. Pathophysiology and clinical phenotypes. *JACC Heart Failure*. 2016 Aug;4(8):625-35 I. F. = 8.202
6. Guazzi M, Arena R, Halle M, Myers J, Lavie C, Piepoli M. EACPR/AHA Joint Scientific Statement Focused Update: Clinical Recommendations for Cardiopulmonary Exercise Testing Data Assessment in Specific Patient Populations. *Circulation*. 2016 Jun 14;133(24):e694-711. I. F. = 18.880
7. Guazzi M, Naeije R. Pulmonary Hypertension in Heart Failure: Pathophysiology, Pathobiology, and Emerging Clinical Perspectives. *J Am Coll Cardiol*. 2017 Apr 4;69(13):1718-1734. doi: 10.1016/j.jacc.2017.01.051 I. F. = 16.834
8. Guazzi M, Dixon D, Labate V, Beussink-Nelson L, Bandera F, Cuttica MJ, Shah SJ. RV Contractile Function and its Coupling to Pulmonary Circulation in Heart Failure With Preserved Ejection Fraction: Stratification of Clinical Phenotypes and Outcomes. *JACC Cardiovasc Imaging*. 2017 Oct;10(10 Pt B):1211-1221. I. F. = 10.247
9. Guazzi M, Bandera F, Ozemek C, Systrom D, Arena R. Cardiopulmonary Exercise Testing. What is its Value? *J Am Coll Cardiol*. 2017 Sep 26;70(13):1618-1636. doi: 10.1016/j.jacc.2017.08.012. I. F. = 16.834
10. Guazzi M. "Recovering" the Recognition for VO2 Kinetics During Exercise Recovery in Heart Failure: A Good Practice in Need of More Exercise. *JACC Heart Fail*. 2018 Apr;6(4):340-342. doi: 10.1016/j.jchf.2018.01.020. Epub 2018 Mar 7. I.F. = 8.202

Personal information

I authorize the handling of personal information in this curriculum, according to D.Lgs n. 196/03 and following modifications and Regulations EU 679/2016 (General Regulations concerning Data Protection or GRDP) and art. 7 of University Regulations concerning protection of personal information.

I authorize, according to D.lgs 14/03/2013 n. 33 concerning transparency, in case of conferment of the position and of the fellowship, the publication of this curriculum in the web site of Università degli Studi di Milano in the section "Amministrazione trasparente", "Consulenti e collaboratori".

Date, 09/08/2019

Signature

A handwritten signature in black ink, appearing to read "Marco Guazzi", written in a cursive style.