

Curriculum vitae

Personal information

Surname / First name

Domenico Sergi

Address

E-mail(s)

domenicosergi@gmail.com

Nationality

Italian

Date of birth

14/10/1977

Gender

Male

Mother Tongue

Italian

Other Languages

English good level

French good level

Education and training

Dates

3/11/2009: Specialized in Cardiology with 50/50 magna cum laude. **Thesis** "First experience with the automatic implantable defibrillator with ST segment monitoring system".

2006-2009: Fellow in Cardiology in the Adult Cardiology Department directed by Professor Francesco Romeo at Tor Vergata Hospital (PTV) in Rome.

2006: Licensed to practice Medicine

1995-2006: Specialized Degree in Medicine And Surgery at Tor Vergata University in Rome, graduation vote 107/110. **Experimental Thesis:** "Functional assessment of collateral circulation in patients with chronic total coronary occlusion by transthoracic Doppler and adenosine infusion".

1995: High School Specializing in Classical Studies, graduation vote 54/60

Work Experience

18/8/2011-12/10/2014 Consultant in the Department of Cardiology, Electrophysiology Laboratory, at "Tor Vergata" University Hospital, Rome

Since 13/10/2014 Temporary Assistant professor in the Department of Cardiology, Electrophysiology Laboratory, at "Tor Vergata" University Hospital, Rome

Stages

1st April 2010 – 1st June 2011: Training Fellowship as Specialist in Cardiology in the Department of Arrhythmology directed by Dr. M. Scaglione, at "C.Massaia" Civil Hospital of Asti

1st April 2008 – 1st April 2009: Training Fellowship in the Department of Arrhythmology directed by Dr. M.G. Bongioni, Cardiothoracic Medicine Division, at Cisanello Hospital, Pisa

Research experience

2014: Winner of the open competitive exam for temporary Assistant professor based on qualifications

2009: Winner of the competition for research fellow held by "Tor Vergata" University of Rome " for having conducted a research project on " Coronary Heart Disease and Diabetes"

18th of May 2015: PhD degree in Experimental Cardiovascular Pathophysiology at "Tor Vergata" University of Rome.

- 1: Maiuolo J, Mareta A, Gliozzi M, Musolino V, Carresi C, Bosco F, Mollace R, Scarano F, Palma E, Scicchitano M, Nucera S, Sergi D, Muscoli S, Gratteri S, Muscoli C, Mollace V. Ethanol-induced cardiomyocyte toxicity implicit autophagy and NFkB transcription factor. *Pharmacol Res.* 2018 Jul;133:141-150. doi: 10.1016/j.phrs.2018.04.004. Epub 2018 Apr 19. PubMed PMID: 29679641.
- 2: Acconcia MC, Caretta Q, Romeo F, Borzi M, Perrone MA, Sergi D, Chiarotti F, Calabrese CM, Sili Scavalli A, Gaudio C. Meta-analyses on intra-aortic balloon pump in cardiogenic shock complicating acute myocardial infarction may provide biased results. *Eur Rev Med Pharmacol Sci.* 2018 Apr;22(8):2405-2414. doi:10.26355/eurrev_201804_14833. PubMed PMID: 29762859.
- 3: Carresi C, Musolino V, Gliozzi M, Maiuolo J, Mollace R, Nucera S, Mareta A, Sergi D, Muscoli S, Gratteri S, Palma E, Bosco F, Giancotta C, Muscoli C, Marino F, Aquila I, Torella D, Romeo F, Mollace V. Anti-oxidant effect of bergamot polyphenolic fraction counteracts doxorubicin-induced cardiomyopathy: Role of autophagy and c-kit(pos)CD45(neg)CD31(neg) cardiac stem cell activation. *J Mol Cell Cardiol.* 2018 Jun;119:10-18. doi: 10.1016/j.yjmcc.2018.04.007. Epub 2018 Apr 12. PubMed PMID: 29654879.
- 4: Borzi M, Intorcia A, Perrone MA, Grilli G, Sergi D, Borzi M, Romeo F. Ranolazine treatment in the heterogeneous symptomatic stable coronary artery disease population. *J Cardiovasc Med (Hagerstown).* 2018 Apr;19(4):186-190. doi: 10.2459/JCM.0000000000000627. PubMed PMID: 29432398.
- 5: Versaci F, Vizzari G, Sergi D, Andò G, Trivisonno A, Romeo F. How often is patent foramen ovale an innocent bystander? *Clin Case Rep.* 2017 Oct 26;5(12):1992-1994. doi: 10.1002/ccr3.1237. eCollection 2017 Dec. PubMed PMID: 29225842; PubMed Central PMCID: PMC5715411.
- 6: Saitto G, Nardi P, Ussia GP, Sergi D, Prati P, Russo M, Romeo F, Ruvolo G. Percutaneous aortic leak closure in a small and frail annulus after double heart valve replacement. *J Cardiovasc Med (Hagerstown).* 2017 Nov;18(11):916-919. doi: 10.2459/JCM.0000000000000571. PubMed PMID: 28914661.
- 7: Forleo GB, Summari F, Rocca DGD, Lanzillo C, Ticconi F, Sergi D, Santini L, Romeo F. Arrhythmogenic right-ventricular cardiomyopathy and cardiac microvascular disease: a rare association or a possible link? *J Cardiovasc Med (Hagerstown).* 2017 Oct;18(10):796-797. doi: 10.2459/JCM.0b013e328361d1c7. PubMed PMID: 28857927.
- 8: Intorcia A, Perrone MA, Morgagni R, Sergi D, Marchei M, Borzi M, Romeo F. A rare case of multiple thrombi in a giant left atrium. *J Cardiovasc Med (Hagerstown).* 2017 Oct;18(10):837-838. doi: 10.2459/JCM.0000000000000535. PubMed PMID: 28614214.
- 9: Versaci F, Vizzari G, Sergi D, Trivisonno A, Andò G, Nardi S, Ussia GP, Romeo F. Cardiac resynchronization therapy before and after MitraClip implantation: An advantageous upgrading to reduce mitral regurgitation. *Cardiovasc Revasc Med.* 2017 Sep;18(6S1):26-29. doi: 10.1016/j.carrev.2017.01.006. Epub 2017 Jan 17. PubMed PMID: 28119045.
- 10: Romeo F, Acconcia MC, Sergi D, Romeo A, Francioni S, Chiarotti F, Caretta Q. Percutaneous assist devices in acute myocardial infarction with cardiogenic shock: Review, meta-analysis. *World J Cardiol.* 2016 Jan 26;8(1):98-111. doi: 10.4330/wjc.v8.i1.98. PubMed PMID: 26839661; PubMed Central PMCID: PMC4728111.
- 11: Forleo GB, Di Biase L, Panattoni G, Mantica M, Parisi Q, Martino A, Pappalardo A, Sergi D, Tesaro M, Papavasileiou LP, Santini L, Calò L, Tondo C, Natale A, Romeo F. Improved implant and postoperative lead performance in CRT-D patients implanted with a quadripolar left ventricular lead. A 6-month follow-up analysis from a multicenter prospective comparative study. *J Interv Card Electrophysiol.* 2015 Jan;42(1):59-66. doi: 10.1007/s10840-014-9956-1. Epub 2014 Dec 13. PubMed PMID: 25504267.
- 12: Santini L, Legramante J, Condemi F, Santucci L, Panattoni M, Crobeddu P, Sergi D, Forleo G, Romeo F. Non-invasive hemodynamic analysis in cardiac resynchronization therapy patients wearing quadripolar left ventricular leads: the importance of pacing electrode selection. *Minerva Cardioangiol.* 2014

Dec;62(6):449-59. Epub 2014 Oct 2. PubMed PMID: 25275712.

13: Ussia GP, Cammalleri V, Marchetti AA, Sarkar K, De Vico P, Muscoli S, Sergi D, Marchei M, Ippoliti A, Romeo F. Transcatheter aortic valve implantation through distal axillary artery: novel option for vascular access. *J Cardiovasc Med (Hagerstown)*. 2015 Apr;16(4):271-8. doi: 10.2459/JCM.0000000000000063. PubMed PMID: 25036268.

14: Ussia GP, Cammalleri V, Sergi D, De Vico P, Romeo F. Annulus remodeling and double orifice repair using a multiple clip approach in complex mitral valve anatomy. *JACC Cardiovasc Interv*. 2014 Jun;7(6):e53-4. doi: 10.1016/j.jcin.2013.09.017. PubMed PMID: 24947727.

15: Ussia GP, Cammalleri V, Marchei M, Sergi D, De Vico P, Muscoli S, Sarkar K, Romeo F. Hemodynamic patterns of residual interatrial communication after transcatheter MitraClip repair. *J Cardiovasc Med (Hagerstown)*. 2014 Apr;15(4):343-9. PubMed PMID: 24699012.

16: Cammalleri V, Ussia GP, Marchei M, Muscoli S, Sergi D, Macrini M, Romeo F. Percutaneous closure of patent foramen ovale with Atriasept II device in nickel allergic patients. *J Cardiovasc Med (Hagerstown)*. 2014 Apr;15(4):350-2. doi: 10.2459/01.JCM.0000435613.63310.d8. PubMed PMID: 24685961.

17: Biscione C, Forleo GB, Costantino MF, Sergnese O, Aluigi S, Sergi D, Mariano E, Dores E, Di Luozzo M, Romeo F. Preoperative echocardiographic measures as predictors of left ventricular dysfunction after mitral valve repair. *Int J Cardiol*. 2014 Feb 1;171(2):e35-6. doi: 10.1016/j.ijcard.2013.11.120. Epub 2013 Dec 7. PubMed PMID: 24373630.

18: Forleo GB, Panattoni G, Schirripa V, Papavasileiou LP, Della Rocca DG, Politano A, Ticconi F, Biscione C, Sergi D, Di Molfetta A, Santini L, Capria A, Romeo F. Device monitoring of heart failure in cardiac resynchronization therapy device recipients: a single-center experience with a novel multivector impedance monitoring system. *J Cardiovasc Med (Hagerstown)*. 2013 Oct;14(10):726-32. doi: 10.2459/JCM.0b013e3283650587. PubMed PMID: 23996011.

19: Forleo GB, Panattoni G, Schirripa V, Della Rocca DG, Sergi D, Santini L, Tesaro M, Romeo F. Early detection of high voltage lead failure with an unusual and unexpected device alert. *Heart*. 2013 Dec;99(23):1786-7. doi: 10.1136/heartjnl-2013-304666. Epub 2013 Aug 16. PubMed PMID: 23955720.

20: Di Renzo L, Rizzo M, Sarlo F, Colica C, Iacopino L, Domino E, Sergi D, De Lorenzo A. Effects of dark chocolate in a population of normal weight obese women: a pilot study. *Eur Rev Med Pharmacol Sci*. 2013 Aug;17(16):2257-66. PubMed PMID: 23893195.

21: Forleo GB, Di Biase L, Mantica M, Panattoni G, Santamaria M, Parisi Q, Sergi D, Papavasileiou LP, Santini L, Tondo C, Natale A, Romeo F. First clinical experience with the new four-pole standard connector for high-voltage ICD leads. Early results of a multicenter comparison with conventional implant outcomes. *J Interv Card Electrophysiol*. 2013 Oct;38(1):11-8. doi: 10.1007/s10840-013-9814-6. Epub 2013 Jul 3. PubMed PMID: 23820882.

22: Santini L, Capria A, Di Molfetta A, Mahfouz K, Panattoni G, Minni V, Sergi D, Forleo GB, Romeo F. Endothelial dysfunction is a marker of systemic response to the cardiac resynchronization therapy in heart failure. *J Card Fail*. 2013 Jun;19(6):419-25. doi: 10.1016/j.cardfail.2013.05.001. PubMed PMID: 23743492.

23: Romeo F, Acconcia MC, Sergi D, Romeo A, Muscoli S, Valente S, Gensini GF, Chiarotti F, Caretta Q. The outcome of intra-aortic balloon pump support in acute myocardial infarction complicated by cardiogenic shock according to the type of revascularization: a comprehensive meta-analysis. *Am Heart J*. 2013 May;165(5):679-92. doi: 10.1016/j.ahj.2013.02.020. Epub 2013 Mar 26. Review. PubMed PMID: 23622904.

24: Romeo F, Acconcia MC, Sergi D, Romeo A, Gensini GF, Chiarotti F, Caretta Q. Lack of intra-aortic balloon pump effectiveness in high-risk percutaneous coronary interventions without cardiogenic shock: a comprehensive meta-analysis of randomised trials and observational studies. *Int J Cardiol*. 2013 Sep 1;167(5):1783-93. doi: 10.1016/j.ijcard.2012.12.027. Epub 2013 Jan 5. PubMed PMID: 23295041.

- 25: Ussia GP, Cammalleri V, De Vico P, Sergi D, Romeo F. Transcatheter closure of paravalvular leak secondary to left ventricular peri-annular pseudoaneurysm. *Eur Heart J Cardiovasc Imaging*. 2013 Jun;14(6):517. doi: 10.1093/ehjci/jes304. Epub 2013 Jan 2. PubMed PMID: 23288889.
- 26: Forleo GB, Della Rocca DG, Panattoni G, Schirripa V, Sergi D, Magliano G, Tesaro M, Santini L, Romeo F. Clinical and electrical performance of currently available MRI-safe pacing systems. Do all devices perform in the same way? *Int J Cardiol*. 2013 Sep 1;167(5):2340-1. doi: 10.1016/j.ijcard.2012.11.005. Epub 2012 Nov 17. PubMed PMID: 23168010.
- 27: Di Molfetta A, Forleo GB, Santini L, Fresiello L, Papavasileiou LP, Magliano G, Sergi D, Capria A, Romeo F, Ferrari G. A novel methodology for AV and VV delay optimization in CRT: results from a randomized pilot clinical trial. *J Artif Organs*. 2013 Sep;16(3):273-83. doi: 10.1007/s10047-013-0701-9. Epub 2013 Mar 16. PubMed PMID: 23504186.
- 28: Di Renzo L, Rizzo M, Sarlo F, Colica C, Iacopino L, Domino E, Sergi D, De Lorenzo A. Effects of dark chocolate in a population of normal weight obese women: a pilot study. *Eur Rev Med Pharmacol Sci*. 2013 Aug;17(16):2257-66. PubMed PMID: 23893195.
- 29: Predazzi IM, Mango R, Norata GD, Di Daniele N, Sergi D, Romeo F, Novelli G. Pharmacogenetics in cardiovascular disorders: an update on the principal drugs. *Am J Cardiovasc Drugs*. 2013 Apr;13(2):79-85. doi: 10.1007/s40256-013-0020-9. Review. PubMed PMID: 23539170.
- 30: Biscione C, Mariano E, Sergi D, Tarsia G, Viceconte N, Bernardo V, Mango R, Del Prete G, Romeo F. Large coronary aneurysm following laser angioplasty of the left anterior descending coronary artery. *J Cardiovasc Med (Hagerstown)*. 2012 May;13(5):334-5. doi: 10.2459/JCM.0b013e328352909f. PubMed PMID: 22450865.
- 31: Forleo GB, Mantica M, Di Biase L, Panattoni G, Della Rocca DG, Papavasileiou LP, Santamaria M, Santangeli P, Avella A, Sergi D, Santini L, Tondo C, Natale A, Romeo F. Clinical and procedural outcome of patients implanted with a quadripolar left ventricular lead: early results of a prospective multicenter study. *Heart Rhythm*. 2012 Nov;9(11):1822-8. doi: 10.1016/j.hrthm.2012.07.021. Epub 2012 Jul 25. PubMed PMID: 22841876.
- 32: Forleo GB, Tesaro M, Panattoni G, Della Rocca DG, Papavasileiou LP, Sergi D, Di Molfetta A, Santini L, Romeo F. Impact of continuous intracardiac ST-segment monitoring on mid-term outcomes of ICD-implanted patients with coronary artery disease. Early results of a prospective comparison with conventional ICD outcomes. *Heart*. 2012 Mar;98(5):402-7. doi: 10.1136/heartjnl-2011-300801. Epub 2011 Nov 23. PubMed PMID: 22115985.
- 33: Forleo GB, Della Rocca DG, Papavasileiou LP, Panattoni G, Sergi D, Duro L, Mahfouz K, Magliano G, Santini L, Romeo F. Predictive value of fragmented QRS in primary prevention implantable cardioverter defibrillator recipients with left ventricular dysfunction. *J Cardiovasc Med (Hagerstown)*. 2011 Nov;12(11):779-84. doi: 10.2459/JCM.0b013e32834ae458. PubMed PMID: 21941203.
- 34: Gaita F, Leclercq JF, Schumacher B, Scaglione M, Toso E, Halimi F, Schade A, Froehner S, Ziegler V, Sergi D, Cesarani F, Blandino A. Incidence of silent cerebral thromboembolic lesions after atrial fibrillation ablation may change according to technology used: comparison of irrigated radiofrequency, multipolar non irrigated catheter and cryoballoon. *J Cardiovasc Electrophysiol*. 2011 Sep;22(9):961-8. doi: 10.1111/j.1540-8167.2011.02050.x. Epub 2011 Mar 31. PubMed PMID: 21453372.
- 35: Di Molfetta A, Santini L, Forleo GB, Cesario M, Tota C, Sgueglia M, Sergi D, Ferrari G, Romeo F. Use of a comprehensive numerical model to improve biventricular pacemaker temporization in patients affected by heart failure undergoing to CRT-D therapy. *Med Biol Eng Comput*. 2010 Aug;48(8):755-64. doi: 10.1007/s11517-010-0623-0. Epub 2010 Jul 9. PubMed PMID: 20617393.
- 36: Bongiorno MG, Di Cori A, Soldati E, Zucchelli G, Segreti L, Solarino G, De Lucia R, Sergi D. [Iatrogenic risk of permanent pacemaker and defibrillator implantation]. *G Ital Cardiol (Rome)*. 2009 Jun;10(6):395-406. Review. Italian. PubMed PMID: 19603611.

Research experience

Competition winner for fixed-term researcher titles in 2014

Winner of competition for qualifications announced by the University of Rome "Tor Vergata" for conducting research on "Ischemic Heart Disease and Diabetes" in 2009.

PhD achieved at the University of Rome "Tor Vergata" in Experimental Pathophysiology with Cardiovascular address on 18/05/2015.

Roma, __15/04/2019_____

A handwritten signature in black ink, appearing to read 'Domenico Sergi', with a stylized flourish at the end.

Domenico Sergi

