

Sabato Sorrentino, MD
-Curriculum Vitae-

PERSONAL INFORMATIONS

Date of birth: 07 August 1983
Place of birth: Nola, NA
Citizenship: Italian
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TITLES AND QUALIFICATIONS

2016- present: Research Fellow at Department of Interventional Cardiovascular Research and Clinical Trials, The Zena and Michael A. Wiener Cardiovascular Institute, Mount Sinai School of Medicine, New York, NY

2014-2017: PhD in “Biomarkers of chronic and complex diseases” at Magna Graecia University, Catanzaro, Italy

2014: Board in Cardiology, Magna Graecia University, Catanzaro, Italy

2009: Unrestricted License to practice Medicine and Surgery in Italy and all other Countries of the European Community.

2008: Graduation in “Medicina e Chirurgia”, Federico II University, Napoli

2002: General certificate of Secondary Education

RESEARCH TRAINING

2006 - 2008: Pre-graduated fellow, Cardiology Division, Molecular and Cellular Cardiology Laboratory, University Federico II, Naples.

2009 – 2014: Post-graduated fellow, Division of Cardiology, University Magna Graecia Catanzaro, Italy.

Research interests: Coronary physiology, Acute coronary syndrome, Thrombosis, Restenosis, Hypertension, Anticoagulants, Non-coding RNA.

Summary of expertise

- Experimental and theoretical studies on:
 - Biomarkers of new generation in the treatment and prevention of cardiovascular diseases
 - Coronary flow (Fractional Flow Reserve, FFR, instantaneous free ratio, iFR)
 - Bioresorbable vascular scaffolds and Drug eluting stents
- Membership in various experimental protocols (*in vitro* and *in vivo*) concerns the study of restenosis, post-infarct remodeling and limb ischemia.
- Participation and collaboration to database management related procedures, regulations and methods.

GRANTS AND AWARDS

2015-Best Abstract Award
Italian Society of Cardiology (SIC)

2016-MSD Italia-Merck Sharp & Dhome Corporation grant from the Italian Society of Cardiology (SIC).

SCIENTIFIC ASSOCIATIONS

- Member of Italian Society of Cardiology (SIC)
- Member of Italian Society of Invasive Cardiology (SICI-GISE)
- Member of European Association of Percutaneous Cardiovascular Interventions (EAPCI)
- Member of European Society of Cardiology (ESC)

JOURNAL REFEREE

- Circulation Journal
- ATVB (Arteriosclerosis, Thrombosis, and Vascular Biology)
- Catheterization and Cardiovascular Interventions
- Plose One
- Journal of Cardiovascular Medicine
- Medicine
- Diabetes Research and Clinical Practice
- Cardiolink

SKILLS

Languages: Italian (mother tongue); English (Preliminary English Test during PhD Program)

Computer Skill: Highly confident with Prism Graphpad, EndNote, LabChart 7, Microsoft Office, Adobe Photoshop, and internet research

PUBLICATIONS

- Schoos M, Chandrasekhar J, Baber U, Bhasin A, Sartori S, Aquino M, Vogel B, Farhan S, **Sorrentino S**, Kini A, Kruckoff M, Moliterno D, Henry TD, Weisz G, Gibson CM, Iakovou I, Colombo A, Steg PG, Witzentichler B, Chieffo A, Cohen D, Stuckey T, Ariti C, Dangas G, Pocock S, Mehran R. Causes, Timing, and Impact of Dual Antiplatelet Therapy Interruption for Surgery (from the Patterns of Non-adherence to Anti-platelet Regimens In Stented Patients Registry). *Am J Cardiol*. 2017 Jun 28. pii: S0002-9149(17)31024-X.
- Giustino G, Harari R, Baber U, Sartori S, Stone GW, Leon MB, Windecker S, Serruys PW, Kastrati A, Von Birgelen C, Kimura T, Stefanini GG, Dangas GD, Wijns W, Steg PG, Morice MC, Camenzind E, Weisz G, Smits PC, **Sorrentino S**, Sharma M, Farhan S, Faggioni M, Kandzari D, Galatius S, Jeger RV, Valgimigli M, Itchhaporia D, Mehta L, Kim HS, Chieffo A, Mehran R. Long-term Safety and Efficacy of New-Generation Drug-Eluting Stents in Women With Acute Myocardial Infarction: From the Women in Innovation and Drug-Eluting Stents (WIN-DES) Collaboration. *JAMA Cardiol*. 2017 Jun 28.
- Linke A, Chandrasekhar J, Sartori S, Lefevre T, van Belle E, Schaefer U, Tchetché D, Sardella G, Webb J, Colombo A, Windecker S, Vogel B, Farhan S, **Sorrentino S**, Sharma M, Snyder C, Asgar A, Dumonteil N, Tamburino C, Hink U, Violini R, Stella P, Bernstein D, Deliargyris E, Hengstenberg C, Baber U, Mehran R, Anthopoulos P, Dangas G; BRAVO-3 Investigators. Effect of valve design and anticoagulation strategy on 30-day clinical outcomes in Transcatheter Aortic Valve Replacement: Results From The BRAVO 3 Randomized Trial. *Catheter Cardiovasc Interv*. 2017 May 12.
- Hengstenberg C, Chandrasekhar J, Sartori S, Lefevre T, Mikhail G, Meneveau N, Tron C, Jeger R, Kupatt C, Vogel B, Farhan S, **Sorrentino S**, Sharma M, Snyder C, Husser O, Boekstegers P, Hambrecht R, Widder J, Hildick-Smith D, De Carlo M, Wijngaard P, Deliargyris E, Bernstein D, Baber U, Mehran R, Anthopoulos P, Dangas G; BRAVO-3 Investigators. Impact of pre-existing or new-onset atrial fibrillation on 30-day clinical outcomes following Transcatheter Aortic Valve Replacement: Results From The BRAVO 3 Randomized Trial. *Catheter Cardiovasc Interv*. 2017 May 11.

- Gareri C, Iaconetti C, **Sorrentino S**, Covello C, De Rosa S, Indolfi C. miR-125a-5p Modulates Phenotypic Switch of Vascular Smooth Muscle Cells by Targeting ETS-1. *J Mol Biol.* 2017 May 11. pii: S0022-2836(17)30222-X. doi: 10.1016/j.jmb.2017.05.008.
- **Sorrentino S**, Giustino G, Mehran R, Kini AS, Sharma SK, Faggioni M, Farhan S, Vogel B, Indolfi C, Dangas GD. Everolimus-Eluting Bioresorbable Scaffolds versus Metallic Everolimus-Eluting Stents: Meta-Analysis of Randomized Controlled Trials. *J Am Coll Cardiol.* 2017 Apr 12. pii: S0735-1097(17)37013-4. doi: 10.1016/j.jacc.2017.04.011
- Giustino G, **Sorrentino S**, Mehran R, Faggioni M, Dangas G. Effect of Cerebral Embolic Protection on the Risk of Death or Stroke After TAVR -A Clinical Event Meta-Analysis. *J Am Coll Cardiol.* 2017 Jan 31;69(4):465-466.
- Carino A, De Rosa S, **Sorrentino S**, Polimeni A, Sabatino J, Caiazzo G, Torella D, Spaccarotella C, Mongiardo A, Strangio A, Filippis C, Indolfi C. Modulation of Circulating MicroRNAs Levels during the Switch from Clopidogrel to Ticagrelor. *Biomed Res Int.* 2016;2016:3968206.
- Iaconetti C, **Sorrentino S**, De Rosa S, Indolfi C. Exosomal miRNAs in Heart Disease. *Physiology (Bethesda).* 2016 Jan;31(1):16-24.
- Polimeni A, Passafaro F, De Rosa S, **Sorrentino S**, Torella D, Spaccarotella C, Mongiardo A, Indolfi C. Clinical and Procedural Outcomes of 5-French versus 6-French Sheaths in Transradial Coronary Interventions. *Medicine (Baltimore).* 2015 Dec;94(52):e2170.
- **Sorrentino S**, De Rosa S, Ambrosio G, Mongiardo A, Spaccarotella C, Polimeni A, Sabatino J, Torella D, Caiazzo G, Indolfi C. The duration of balloon inflation affects the luminal diameter of coronary segments after bioresorbable vascular scaffolds deployment. *BMC Cardiovasc Disord.* 2015 Dec 11;15(1):169.
- Polimeni A, De Rosa S, Sabatino J, **Sorrentino S**, Indolfi C. Impact of intracoronary adenosine administration during primary PCI: A meta-analysis. *Int J Cardiol.* 2016 Jan 15;203:1032-41.
- Iaconetti C, De Rosa S, Polimeni A, **Sorrentino S**, Gareri C, Carino A, Sabatino J, Colangelo M, Curcio A, Indolfi C. Down-regulation of miR-23b induces phenotypic switching of vascular smooth muscle cells in vitro and in vivo. *Cardiovasc Res.* 2015 Sep 1;107(4):522-33
- Indolfi C, Passafaro F, Mongiardo A, Spaccarotella C, Torella D, **Sorrentino S**, Polimeni A, Emanuele V, Curcio A, De Rosa S. Delayed sudden radial artery

rupture after left transradial coronary catheterization: a case report. *Medicine* (Baltimore). 2015 Mar;94(10):e634.

- Indolfi C, Mongiardo A, Spaccarotella C, Torella D, Caiazza G, Polimeni A, **Sorrentino S**, Micieli M, Sabatino J, Curcio A, De Rosa S. The instantaneous wave-free ratio (iFR) for evaluation of non-culprit lesions in patients with acute coronary syndrome and multivessel disease. *Int J Cardiol*. 2014 Oct 28;178C:46-54.
- De Rosa S, Passafaro F, Polimeni A, **Sorrentino S**, Indolfi C. A novel quick and easy test for radial artery occlusion with the laser Doppler scan. *JACC Cardiovasc Interv*. 2014 Aug;7(8):e89-90.
- Curcio A, Torella D, Iaconetti C, Pasceri E, Sabatino J, **Sorrentino S**, Giampà S, Micieli M, Polimeni A, Henning B.J, Leone A, Catalucci D, Ellison G.M, Condorelli G, Indolfi C. MicroRNA-1 Downregulation Increases Connexin 43 Displacement and Induces Ventricular Tachyarrhythmias in Rodent Hypertrophic Hearts. *PLOS ONE*, July 2013 Volume 8-Issue 7.
- Iaconetti C, Polimeni A, **Sorrentino S**, Sabatino J, Pironti G, Esposito G, Curcio A, Indolfi C. Inhibition of miR-92a increases endothelial proliferation and migration in vitro as well as reduces neointimal proliferation in vivo after vascular injury. *Basic Res Cardiol* (2012) 107:296
- Indolfi C, **Sorrentino S**, Aquila I, Torella D. Prospettive di terapia cellulare in cardiologica (Cellule staminali e medicina rigenerativa 2009: attualità e prospettive, 16-20 Marzo 2009, VIII Corso Formazione Avanzata, Collegio Ghislieri, Pavia).
- Schiattarella G.G, Perrino C, Gargiulo G, **Sorrentino S**, Franzone A, Capretti G, Esposito G, Chiariello M. Nuovi concetti nella segnalazione β -adrenergica: prospettive terapeutiche per lo scompenso cardiac. *G Ital Cardiol Vol 11* Marzo 2010.
- Capretti G, Franzone A, Schiattarella G.G, Gargiulo G, Sannino A, **Sorrentino S**, Perrino C, Esposito G, Chiariello M. The second cAMP messenger and cardiac function regulation: the role of adenylate cyclase *Trends Med* 2009; 9(3):129-136.
- Schiattarella G.G, Franzone A, Sannino A, Capretti G, Petretta P, Galasso G, **Sorrentino S**, Perrino C, Esposito G, Chiariello M. Ruolo dell'enzima fosfatidil inositolo 3-Chinasi γ nella angiogenesi mediata dalle EPCs, (Workshop su microsfere polimeriche e cellule staminali autologhe: nuovi studi sulla possibilità di rigenerazione del miocardio infartuato. Istituto Nazionale per le Ricerche Cardiovascolari).

- Franzone A, Schiattarella G.G, Capretti G, **Sorrentino S**, Pironti G, Sannino A, Perrino C, Esposito G, Chiariello M. Gli effetti biologici delle statine nella malattia aterosclerotica (Trends Med 2009; 9 (1):19-26).
- Capretti G, Di Serafino L, **Sorrentino S**, Franzone A, Schiattarella GG, Sannino A, Gargiulo G, Pironti G, Esposito G, Chiariello M. Impianto di stent percutaneo nel trattamento di una stenosi dell'aorta addominale come prima manifestazione di Lupus Eritematoso Sistemico. Italian Journal of Practice Cardiology:Pag 22.

SELECTED ABSTRACT

- **Sorrentino S**, Usman Baber U, Chandrasekhar J, Farhan S, Faggioni M, Vogel B, Sartori S, Kovacic J, Moreno P, Suleman J, Vijay P, Giustino G, Dangas G, Mehran R, Kini A, Sharma S. Clinical Outcomes associated with Impella versus IABP use in Stable Patients Undergoing High Risk Percutaneous Coronary Intervention. Accepted as Poster communication at ACC 2017
- **Sorrentino S**, Usman Baber U, Chandrasekhar J, Farhan S, Faggioni M, Vogel B, Sartori S, Kovacic J, Moreno P, Srinivas K, Vijay P, Giustino G, Dangas G, Mehran R, Kini A, Sharma S. Impella or Intra Aortic Balloon Pump Support in Patients Undergoing High Risk Percutaneous Coronary Intervention A real World Single Center Experience. Accepted as Poster communication at ACC 2017
- **Sorrentino S**, Polimeni A, Iaconetti C, Sabatino J, Gareri G, Carino A, Passafaro F, Colangelo M, Covello C, Carvelli A, Caria F, Tavernese A, Curcio A, De Rosa S, Indolfi C. Mir-16 Modulates Endothelial Dysfunction After Balloon Injury In A Rat Model Of Chronic Peripheral Ischemia (American Heart Association Congress 2013, Poster).
- Iaconetti C; Polimeni A; **Sorrentino S**; Sabatino J; Gareri C; Passafaro F; Colangelo M; Covello C; Caria F; Carvelli A; Curcio A; De Rosa S; Indolfi C. Down-Regulation of miR-23/27/24 Clusters by TGF- β 1 Signalling Induces Phenotypic Switching of Vascular Smooth Muscle Cells in vitro and in Response to Vascular Injury in vivo (American Heart Association Congress 2012, Poster).
- **Sorrentino S**; Polimeni A; Iaconetti C; Sabatino J; Gareri C; Passafaro F; Colangelo M; Covello C; Caria F; Carvelli A; Miceli M; Giampà S; Curcio A; De Rosa S; Indolfi C. The Role of Mir-16 on Endothelial Dysfunction in Rat with Atherosclerotic Diet with a Chronic Model of Femoral Artery Occlusion and Carotid Balloon Injury (AHA Congress 2012, Abstract 19506, Poster).

- **Sorrentino S**, Iaconetti C, Polimeni A, Sabatino J, Gareri C, Carino A, Passafaro F, Colangelo M, Covello C, Carvelli A, Caria F, Tavernese A, Curcio A, Torella D, De Rosa S, Indolfi C. Remote ischemia enhances balloon injury-induced endothelial dysfunction and neointimal area in rat carotid arteries: the role of miR-16 (Italian Society of Cardiology 2013, Oral Communication).

- **Sorrentino S**, Iaconetti C, Polimeni A, Sabatino J, Giampà S, Micieli M, Mercurio P, Torella D, Curcio A, Ciro Indolfi C. L'ischemia remota determina una modulazione della risposta endoteliale al danno vascolare: il ruolo di miR-16 (SIC Congress 2012, Abstract N° O260).

- Indolfi C, Polimeni A, Mongiardo A, Spaccarotella C, **Sorrentino S**, Miceli M, Giampa S, Curcio A, Torella D, Caiazzo G, De Rosa S, TCT-230 Instantaneous wave-Free Ratio (iFR) and Gradient (iFG): new promising adenosine-independent alternative to fractional flow reserve. Preliminary results from the FORECAST Study Article in Journal of the American College of Cardiology 60(17) · October 2012

- **Sorrentino S**, Iaconetti C, Polimeni A, Sabatino J, Giampa S, Miceli M, Mercurio P, Torella D, Curcio A, Indolfi C. Endothelial cells stimulation with serum from PAD patients dysregulates microRNAs and related molecular targets (SIC Congress 2011, Codice Abstract N° C489).

- **Sorrentino S**, Polimeni A, Iaconetti C, Pironti G, Schiattarella G, Curcio A, Esposito G, Torella D, Indolfi C. miR-21 Antagonism Improves Left Ventricular Remodeling and Function After Myocardial Infarction in Mice (SIC Congress 2010, Abstract C174).

07/08/2017

