

CURRICULUM VITAE

Sarah Costantino, PhD



PERSONAL INFORMATION

Name: Sarah Costantino
Date of birth: 04/08/1984
Place of birth: Naples, Italy
Scholar ID: qNrGrmwAAAAJ

BUSINESS ADDRESS

Center for Molecular Cardiology,
University of Zürich,
Wagistrasse 12, 8952 Schlieren
Switzerland

PHONE AND EMAIL

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EDUCATION

- 2010-2012 Ph.D. in Pharmacology and Experimental Medicine
Second University of Study of Naples, Naples, Italy
Supervisor: Prof. Liberato Berrino
19 December 2012 PhD Defense
- 2003-2008 Pharmaceutical Chemistry and Technology Faculty, University of
Naples "Federico II", Naples, Italy
Supervisor: Prof. Alfonso Mangoni
17 October 2008 Graduation with full marks and honour

POSITIONS

- 2016-present **Research Assistant**
Cardiovascular Epigenetics & Regenerative Medicine
Supervisor: Prof. Francesco Paneni
Center for Molecular Cardiology, University of Zurich, Switzerland
- 2014-2016 **Research Assistant**
Clinical and Molecular Cardiology
Supervisor: Prof. Francesco Cosentino
Department of Medicine, Cardiology Unit, Karolinska University Hospital, Solna
- 2013 **Postdoctoral Fellow**
Vascular Biology
Supervisor: Prof. Thomas Felix Luscher
Institute of Physiology, University of Zurich, Switzerland

FUNDING

- Swiss Heart Foundation (2018)
Principal Investigator. Epigenetic mechanisms of endothelial dysfunction in patients with rheumatoid arthritis. 50.000 CHF
- Holcim Foundation (2017)
Principal Investigator. Molecular mechanisms of obesity-related vascular dysfunction. 80.000 CHF.
- Research Grant from Center for Gender Medicine, Karolinska Institute (2014).
Principal Investigator. "Epigenetic signatures as a predictor of vascular risk in men and women with prediabetes". 20.000 Euro
- KI Research Foundation Grant (2014).
Principal Investigator. "Role of histone methyltransferase Set7 in obesity-related vascular dysfunction". 15.000 Euro
- Swedish Heart-Lung Foundation (2015-2016).
Co-Investigator. "AP-1 transcription factor JunD and vascular dysfunction in type 2 diabetes". 80.000 Euro
- European Foundation for the Study of Diabetes (2015).
Co-Investigator. "Epigenetic changes and endothelial insulin resistance: role of methyltransferase Set7". 99.000 Euro
- Swedish Research Council (2016).
Co-Investigator. "Role of methyltransferase Set7 in endothelial insulin resistance". 250.000 Euro

SUPERVISION OF GRADUATE STUDENTS

Shafeeq Ahmed Mohammed, Master Student (Stockholm)

Anichavezhi Devendran, Postdoc (Stockholm)

Shafaat Hussain, PhD student (Stockholm)

Christos Gkolfos, Master Student (Stockholm)

INDIVIDUAL SCIENTIFIC REVIEWING ACTIVITIES

European Heart Journal

Antioxidants & Redox Signaling

International Journal of Cardiology

Scientific Reports

BioMed Research International

Frontiers in Cardiovascular Medicine

Frontiers Physiology

REVIEWER FOR INTERNATIONAL GRANTS

Dutch Heart Foundation

Italian Ministry of Health

ACTIVE MEMBERSHIPS IN SCIENTIFIC SOCIETIES

Fellow of the European Society of Cardiology (FESC)

Member of the ESC Working Group on Thrombosis

Member of the ESC Working Group on Atherosclerosis and Vascular Biology

Member of the European Society of Clinical Investigation (ESCI)

Member of the American Heart Association (AHA)

AWARDS

- *ESC Young Investigator Award - Basic Science*
European Society of Cardiology,
Aug 30- Sept 4, 2019, Paris, France
- *ESC Young Investigator Award - Basic Science*
European Society of Cardiology,
Aug 25-29, 2018, Munich, Germany
- *ESC Best Poster Award*
European Society of Cardiology,
Aug 27- 31, 2016, Rome, Italy
- *ESC Young Investigator Award - Basic Science*
European Society of Cardiology,
Aug 29- Sept 2, 2015, London, UK

- *ESC Young Investigator Award - Basic Science*
European Society of Cardiology,
Aug 31- Sept 4, 2013, Amsterdam, Netherlands

EDITOR OF PEER-REVIEWED JOURNALS

- Antioxidant and Redox Signaling (IF: 6.5) 2019
Guest Editor. Special issue on "Vascular Biology"
- European Heart Journal (IF: 23.2). Associate Editor. 2019-present.
- Cardiovascular Diagnosis & Therapy (IF: 2.0). 2015
Guest Editor. Special issue on "Mechanism-based Therapeutic Strategies in Type
Diabetes"

INVITED SPEAKER OR CHAIR

- "*Epigenetics and precision medicine in cardiovascular patients*"
Epigenetics: Playing with the Game of Life
Sept 13-15, 2019, Halle, Germany
- "*How to dissect epigenetics*"
European Society of Cardiology
Aug 29- Sept 2, 2015, London, UK
- "*Transcriptional regulation of oxidant genes by epigenetic signatures*"
European Society of Cardiology
Aug 29- Sept 2, 2015, London, UK

PUBLICATION LIST

Bibliometrics

Total number of citations: 1240

Total impact factor: 340

H-Index: 20

Peer-reviewed publications in international scientific journals

1. Gonçalves IF, Acar E, **Costantino S**, Szabo PL, Hamza O, Tretter EV, Klein KU, Trojanek S, Abraham D, Paneni F, Hallström S, Kiss A, Podesser BK. Epigenetic modulation of tenascin C in the heart: implications on myocardial ischemia, hypertrophy and metabolism. *J Hypertens*. 2019. doi: 10.1097/HJH.0000000000002097. PMID: 30950975.
2. **Costantino S**, Paneni F. GLP-1-based therapies to boost autophagy in cardiometabolic patients: From experimental evidence to clinical trials. *Vascul Pharmacol*. 2019; 115:64-68. PMID: 30926561.
3. **Costantino S**, Akhmedov A, Melina G, Mohammed SA, Othman A, Ambrosini S, Wijnen WJ, Sada L, Ciavarella GM, Liberale L, Tanner FC, Matter CM, Hornemann T, Volpe M, Mechta-Grigoriou F, Camici GG, Sinatra R, Lüscher TF, Paneni F. Obesity-induced activation of JunD promotes myocardial lipid accumulation and metabolic cardiomyopathy. *Eur Heart J*. 2019; 40:997-1008. PMID: 30629164
4. De Sensi F, **Costantino S**, Limbruno U, Paneni F. Atrial fibrillation in the cardiometabolic patient. *Minerva Med*. 2019; 110:157-167. PMID:30371045
5. **Costantino S**, Ambrosini S, Paneni F. The epigenetic landscape in the cardiovascular complications of diabetes. *J Endocrinol Invest*. 2019; 42(5):505-511. PMID: 30291588.
6. **Costantino S**, Mohammed SA, Ambrosini S, Paneni F. Epigenetic processing in cardiometabolic disease. *Atherosclerosis*. 2018; 281:150-158. PMID:30290963
7. Paneni F, **Costantino S**. PCSK9 in diabetes: sweet, bitter or sour? *Eur Heart J*. 2019; 40(4): 369-371. PMID:30085009
8. **Costantino S**, Paneni F, Mitchell K, Mohammed SA, Hussain S, Gkolfos C, Berrino L, Volpe M, Schwarzwald C, Lüscher TF, Cosentino F. Hyperglycaemia-induced epigenetic changes drive persistent cardiac dysfunction via the adaptor p66Shc. *Int J Cardiol*. 2018; 268: 179-186. PMID:30047409

9. Pastor-Arroyo EM, Gehring N, Krudewig C, **Costantino S**, Bettoni C, Knöpfel T, Sabrautzki S, Lorenz-Depiereux B, Pastor J, Strom TM, Hrabě de Angelis M, Camici GG, Paneni F, Wagner CA, Rubio-Aliaga I. The elevation of circulating fibroblast growth factor 23 without kidney disease does not increase cardiovascular disease risk.
Kidney Int. 2018; 94: 49-59. PMID:29735309.
10. Diaz-Cañestro C, Merlini M, Bonetti NR, Liberale L, Wüst P, Briand-Schumacher S, Klohs J, **Costantino S**, Miranda M, Schoedon-Geiser G, Kullak-Ublick GA, Akhmedov A, Paneni F, Beer JH, Lüscher TF, Camici GG. Sirtuin 5 as a novel target to blunt blood-brain barrier damage induced by cerebral ischemia/reperfusion injury.
Int J Cardiol. 2018; 260: 148-155. PMID: 29622432
11. **Costantino S**, Paneni F. Stem cell therapy in heart failure: Is the best yet to come?
Int J Cardiol. 2018; 260: 135-136. PMID: 29622428
12. **Costantino S**, Paneni F, Viridis A, Hussain S, Mohammed SA, Capretti G, Akhmedov A, Dalgaard K, Chiandotto S, Pospisilik JA, Jenuwein T, Giorgio M, Volpe M, Taddei S, Lüscher TF, Cosentino F. Interplay among H3K9-editing enzymes SUV39H1, JMJD2C and SRC-1 drives p66Shc transcription and vascular oxidative stress in obesity.
Eur Heart J. 2019; 40: 383-391. PMID: 29077881
13. **Costantino S**, Libby P, Kishore R, Tardif JC, El-Osta A, Paneni F. Epigenetics and Precision Medicine in Cardiovascular Patients: From Basic Concepts to the Clinical Arena.
Eur Heart J. 2018; 39: 4150-4158. PMID: 29069341
14. **Costantino S**, Camici GG, Mohammed SA, Volpe M, Lüscher TF, Paneni F. Epigenetics and Cardiovascular Regenerative Medicine in the Elderly.
Int J Cardiol. 2018; 250: 207-214. PMID: 28988828
15. **Costantino S**, Paneni F, Battista R, Castello L, Capretti G, Chiandotto S, Tanese L, Russo G, Pitocco D, Lanza GA, Volpe M, Lüscher TF, Cosentino F. Impact of Glycemic Variability on Chromatin Remodeling, Oxidative Stress and Endothelial Dysfunction in Type 2 Diabetic Patients with Target HbA_{1c} levels.
Diabetes. 2017; 66: 2472-2482. PMID: 28634176
16. Akhmedov A, Camici GG, Reiner MF, Bonetti N, **Costantino S**, Holy EW, Spescha RD, Stivala S, Clerigué AS, Speer T, Breitenstein A, Manz J, Lohmann C, Paneni F, Beer JH, Lüscher TF. Endothelial LOX-1 Activation Differentially Regulates Arterial Thrombus Formation Depending on oxLDL Levels: Role of the Oct-1/SIRT1 and ERK1/2 Pathways.
Cardiovasc Res. 2017; 113(5): 498-507. PMID: 28199510.
17. **Costantino S**, Paneni F, Lüscher TF, Cosentino F. Pin1 inhibitor Juglone prevents diabetic vascular dysfunction.
Int J Cardiol. 2016; 203:702-7. PMID: 26583846.

18. Paneni F*, **Costantino S***, Kränkel N, Cosentino F, Lüscher TF. Reprogramming aging and longevity genes restores paracrine angiogenic properties of early outgrowth cells. (*co-first authors)
Eur Heart J. 2016;37(22):1733-7. PMID: 26941203
19. **Costantino S**, Paneni F, Lüscher TF, Cosentino F. MicroRNA Profiling Unveils Hyperglycemic Memory in the Diabetic Heart.
Eur Heart J. 2016;37(6):572-6.
20. **Costantino S**, Paneni F, Cosentino F. Ageing, metabolism and cardiovascular disease.
J Physiol. 2016; 594(8):2061-73. PMID: 26391109
21. Paneni F*, **Costantino S***, Battista R, Castello L, Capretti G, Chiandotto S, Scavone G, Villano A, Pitocco D, Lanza G, Volpe M, Lüscher TF, Cosentino F. Adverse Epigenetic Signatures by Histone Methyltransferase Set7 Contribute to Vascular Dysfunction in Patients with Type 2 Diabetes. (*co-first authors).
Circ Cardiovasc Genet. 2015;8(1):150-8. PMID: 25472959.
22. Paneni F*, **Costantino S***, Castello L, Battista R, Capretti G, Chiandotto S, Scavone G, Villano A, Pitocco D, Lanza G, Volpe M, Lüscher TF, Cosentino F. Targeting Prolyl-Isomerase Pin1 Protects Against Mitochondrial Oxidative Stress, Endothelial Dysfunction and Vascular Inflammation: Insights in Patients with Type 2 Diabetes. (*co-first authors).
Eur Heart J. 2015;36(13):817-28. PMID:24801072
23. Paneni F, **Costantino S**. Diabetes and cardiovascular disease: let's push forward with translational research.
Cardiovasc Diagn Ther. 2015;5(5):407-1. PMID:26543828
24. **Costantino S**, Paneni F, Cosentino F. Hyperglycemia: a bad signature on the vascular system.
Cardiovasc Diagn Ther. 2015;5(5):403-6. PMID:26543827
25. Paneni F, **Costantino S**, Cosentino F. Metformin and left ventricular remodeling after acute myocardial infarction: molecular mechanisms and clinical implications.
G Ital Cardiol. 2015;6(4):326-332. PMID:25789114
26. **Costantino S**, Paneni F, Cosentino F. Targeting chromatin remodelling to prevent cardiovascular disease in diabetes.
Curr Pharm Biotechnol. 2015;16(6):1-13. PMID:25860064
27. Paneni F, **Costantino S**; Cosentino F. Role of oxidative stress in endothelial insulin resistance.
World J Diabetes. 2015;6(2):326-332. PMID: 25789114

28. Paneni F, **Costantino S**, Cosentino F. Obesity-induced impairment of pluripotent stem cells: novel insights into vascular repair strategies. *Eur Heart J*. 2014, pii: ehu445. [Epub ahead of print]. PMID: 25411191
29. Paneni F*, **Costantino S***, Cosentino F. p66(Shc)-induced redox changes drive endothelial insulin resistance. (*co-first authors). *Atherosclerosis*. 2014;236(2):426-9. PMID: 25150941
30. Paneni F, **Costantino S**, Cosentino F. Molecular mechanisms of vascular dysfunction and cardiovascular biomarkers in type 2 diabetes. *Cardiovasc Diagn Ther*. 2014;4(4):324-32. PMID: 25276618
31. Paneni F, **Costantino S**, Cosentino F. Molecular pathways of arterial aging. *Clin Sci*. 2014;128(2):69-79. PMID:25236971
32. Paneni F, **Costantino S**, Cosentino F. Insulin resistance, diabetes and cardiovascular risk. *Curr Ather Rep*. 2014;16(7):419. PMID:24781596
33. Troiani T, Martinelli E, Napolitano S, Vitagliano D, Ciuffreda LP, **Costantino S**, Morgillo F, Capasso A, Sforza V, Nappi A, De Palma R, D'Aiuto E, Berrino L, Bianco R, Ciardiello F. Increased TGF- α as a mechanism of acquired resistance to the anti-EGFR inhibitor cetuximab through EGFR-MET interaction and activation of MET signaling in colon cancer cells. *Clin Cancer Res*. 2013;19(24):6751-65. PMID: 24122793
34. Martinelli E, Troiani T, D'Aiuto E, Morgillo F, Vitagliano D, Capasso A, **Costantino S**, Ciuffreda LP, Merolla F, Vecchione L, De Vriendt V, Tejpar S, Nappi A, Sforza V, Martini G, Berrino L, De Palma R, Ciardiello F. Antitumor activity of pimasertib, a selective MEK 1/2 inhibitor, in combination with PI3K/mTOR inhibitors or with multi-targeted kinase inhibitors in pimasertib-resistant human lung and colorectal cancer cells. *Int J Cancer*. 2013;133(9):2089-101. PMID: 23629727
35. Piegari E, De Angelis A, Cappetta D, Russo R, Esposito G, **Costantino S**, Graiani G, Frati C, Prezioso L, Berrino L, Urbanek K, Quaini F, Rossi F. Doxorubicin induces senescence and impairs function of human cardiac progenitor cells. *Basic Res Cardiol*. 2013;108(2):334. PMID: 23411815
36. Paneni F, Osto E, **Costantino S**, Mateescu B, Briand S, Coppolino G, Perna E, Mocharla P, Akhmedov A, Kubant R, Rohrer L, Malinski T, Camici GG, Matter CM, Mehta-Grigoriou F, Volpe M, Lüscher TF, Cosentino F. Deletion of the Activated Protein-1 Transcription Factor JunD Induces Oxidative Stress and Accelerates Age-Related Endothelial Dysfunction. *Circulation*. 2013;127(11):1229-40. PMID: 23410942
37. Paneni F, **Costantino S**, Volpe M, Luscher TF, Cosentino F. Epigenetic signatures and vascular risk in type 2 diabetes: a clinical perspective. *Atherosclerosis*. 2013;230(2):191-7. PMID:24075743

38. Paneni F, Mocharla P, Akhmedov A, **Costantino S**, Osto E, Volpe M, Lüscher TF, Cosentino F. Gene silencing of the mitochondrial adaptor p66(Shc) suppresses vascular hyperglycemic memory in diabetes. *Circ Res*. 2012;111(3):278-89. PMID: 22693349
39. Troiani T, Vecchione L, Martinelli E, Capasso A, **Costantino S**, Ciuffreda LP, Morgillo F, Vitagliano D, D'Aiuto E, De Palma R, Tejpar S, Van Cutsem E, De Lorenzi M, Caraglia M, Berrino L, Ciardiello F. Intrinsic resistance to selumetinib, a selective inhibitor of MEK1/2, by cAMP-dependent protein kinase A activation in human lung and colorectal cancer cells. *Br J Cancer*. 2012;106(10):1648-59. PMID: 22569000

Abstracts at international congresses

1. **Costantino S**, Akhmedov A, Melina G, Mohammed SA, Wijnen WJ, Hornemann T, Volpe M, Sinatra R, Camici GG, Luscher TF, Paneni F. Obesity-induced Activation of JunD Promotes Myocardial Lipid Accumulation and Metabolic Cardiomyopathy. Scientific Sessions AHA 2018, Chicago, Illinois, USA
2. **Costantino S**, Akhmedov A, Melina G, Mohammed SA, Wijnen W, Othman A, Hornemann T, Volpe M, Sinatra R, Camici GG, Luscher TF, Paneni F. Modulation of JunD by miR-494-3p causes intra-myocardial lipid accumulation and obesity cardiomyopathy: a study in mice and humans. ESC Meeting 2018, Munich, Germany.
3. Akhmedov A, Montecucco F, Clerigue AS, **Costantino S**, Paneni F, Camici GG, Mach F, Luescher TF. Cardiac-specific overexpression of the transcription factor JunD promotes increased sensitivity to myocardial infarction. Frontiers in CardioVascular Biology Meeting 2018, Vienna, Austria. *Cardiovasc Res.* 2018; 114(S1): S15-S15. Meeting Abstract: 58
4. Akhmedov A, Montecucco F, Camici GG, Vdovenko D, **Costantino S**, Bonetti N, Canestro CD, Paneni F, Mach F, Luescher TF. GDF11 promotes increased sensitivity of the murine heart to ischemic injury. Frontiers in CardioVascular Biology Meeting 2018, Vienna, Austria. *Cardiovasc Res.* 2018; 114(S1): S74-S74. Meeting Abstract: P290
5. **Costantino S**, Akhmedov A, Wijnen WJ, Camici GG, Luscher TF, Paneni F. The AP-1 Member JunD Drives Cardiac Steatosis via Transcriptional Activation of PPAR γ : Insights into Obesity Cardiomyopathy. ESC Meeting 2017, Barcelona, Spain.
6. **Costantino S**, Camici, GG, Akhmedov A, Luscher TF, Paneni F. The Scaffold-Like Protein NF2 Drives Fatty Acid-Induced Endothelial Damage: Implications in Obesity and Insulin Resistance. ESCI 2017 - 51st Annual Scientific Meeting, Genoa, Italy *Eur J Clin Invest.* 2017; 47(S1): 33-33. Meeting Abstract: O3.18.
7. **Costantino S**, Paneni F, Mitchell K, Berrino L, Schwarzwald C, Volpe M, Luscher TF, Cosentino F. Targeting miR-218 and miR-34a Protects Against Maladaptive Chromatin Remodelling and Oxidative Stress in the Diabetic Heart. ESC Meeting 2016, Rome, Italy. *Eur Heart J.* 2016; 37(S1): 843-843. Meeting Abstract: P4320
8. Paneni F, **Costantino S**, Viridis A, Volpe M, Luscher TF, Taddei S, Cosentino F. Methyltransferase Set7 Drives Vascular Inflammation and Endothelial Dysfunction in Obesity. ESC Meeting 2016, Rome, Italy. *Eur Heart J.* 2016; 37(S1): 1009-1009. Meeting Abstract: P4976

9. **Costantino S**, Paneni F, Mitchell K, Berrino L, Schwarzwald C, Volpe M, Luscher TF, Cosentino F. miR-218 and miR-34a Drive Persistent Myocardial Oxidative Stress by Targeting Chromatin Remodelers DNMT3b and SIRT1: New Mechanistic Insights in Diabetic Cardiomyopathy. Frontiers in CardioVascular Biology Meeting 2016, Florence, Italy. *Cardiovasc Res.* 2016; 111(S1): S43-S43. Meeting Abstract: 225
10. **Costantino S**, Paneni F, Mitchell K, Berrino L, Schwarzwald C, Volpe M, Luscher TF, Cosentino F. Dynamic Interplay between Micronas and Chromatin Modulates Redox Signalling in the Diabetic Heart. Scientific Sessions AHA 2015, Orlando, Florida, USA
11. Paneni F, **Costantino S**, Viridis A, Capretti G, Chiandotto S, Luscher TF, Taddei S, Volpe M, Cosentino F. Methyltransferase SUV39H1 Drives Transcriptional Programs Favouring Oxidative Stress and Endothelial Dysfunction In Obesity. Scientific Sessions AHA 2015, Orlando, Florida, USA
12. **Costantino S**, Paneni F, Viridis A, Volpe M, Taddei S, Cosentino F. Chromatin Changes by Methyltransferase Set7 Induce Inflammatory Adhesion Molecules and Endothelial Dysfunction in Small Visceral Arteries From Insulin Resistant Subjects. ESC Meeting 2015, London, UK. *Eur Heart J.* 2015; 36(S1): 112-113. Meeting Abstract: P725
13. **Costantino S**, Paneni F, Berrino L, Volpe M, Luscher TF, Cosentino F. miR-218 and miR-34a Induce Oxidative Stress by Orchestrating Epigenetic Remodelling of DNA/Histone Complexes in the Diabetic Heart. ESC Meeting 2015, London, UK. *Eur Heart J.* 2015; 36(S1): 333-333. Meeting Abstract: 1852
14. Paneni F, **Costantino S**, Battista R, Capretti G, Chiandotto S, Volpe M, Cosentino F. Glycemic Excursions Trigger Senescence-Associated Pathways and Vascular Ageing Features in Patients with Type 2 Diabetes. ESC Meeting 2015, London, UK. *Eur Heart J.* 2015; 36(S1): 343-33. Meeting Abstract: 2013
15. Paneni F, **Costantino S**, Viridis A, Pospisilik AJ, Jenuwein T, Volpe M, Taddei S, Cosentino F. Interplay Between Chromatin Modifying Enzymes SUV39H1, SRC-1 and JMJD2C Triggers Redox Signalling and Vascular Dysfunction in Obesity. ESC Meeting 2015, London, UK. *Eur Heart J.* 2015; 36(S1): 781-781. Meeting Abstract: P4539
16. **Costantino S**, Paneni F, Mitchell K, Berrino L, Volpe M, Schwarzwald C, Luscher TF, Cosentino F. Reprogramming SIRT1-p66Shc Axis Suppresses Persistent Myocardial Dysfunction Despite Glycemic Control in Diabetic Mice. Scientific Sessions AHA 2015, Chicago, Illinois, USA

17. **Costantino S**, Paneni F, Cosentino F. p66Shc-induced Redox Changes Drive Endothelial Insulin Resistance.
Scientific Sessions AHA 2015, Chicago, Illinois, USA
18. Paneni F, **Costantino S**, Battista R, Capretti G, Castello L, Chiandotto S, Scavone G, Lanza G, Volpe M, Cosentino F. Glycemic Variability Is Associated with Persistent Epigenetic Changes and Endothelial Dysfunction in Type 2 Diabetic Subjects with Optimal Glycemic Control.
Scientific Sessions AHA 2015, Chicago, Illinois, USA
19. Paneni F, **Costantino S**, Viridis A, Capretti G, Chiandotto S, Lüscher TF, Taddei S, Volpe M, Cosentino F. Chromatin Modifying Enzymes SUV39H1, JMJD2C and SRC-1 mediate p66Shc-Induced Vascular Oxidative Stress in Obese Subjects.
Scientific Sessions AHA 2015, Chicago, Illinois, USA
20. **Costantino S**, Paneni F, Cosentino F. In Vivo Silencing of Mitochondrial Adaptor p66Shc Gene Improves Endothelial Insulin Resistance in Obese Mice.
ESC Meeting 2014, Barcelona, Spain.
Eur Heart J. 2014; 35(S1): 274-274. Meeting Abstract: P1512
21. Paneni F, **Costantino S**, Battista R, Castello L, Capretti G, Chiandotto S, Del Sal G, Volpe M, Luscher TF, Cosentino F. Prolyl-Isomerase-1 (Pin1) Causes Endothelial Dysfunction and Vascular Inflammation in Diabetes: a Study in Mice And Humans.
ESC Meeting 2014, Barcelona, Spain.
Eur Heart J. 2014; 35(S1): 347-347. Meeting Abstract: 1803
22. **Costantino S**, Paneni F, Battista R, Capretti G, Castello L, Chiandotto S, Volpe M, Luscher TF, Cosentino F. Acetyltransferase Gcn5 Triggers Nox2 Upregulation and Oxidative Stress in Diabetes.
ESC Meeting 2014, Barcelona, Spain.
Eur Heart J. 2014; 35(S1): 376-376. Meeting Abstract: 2148
23. **Costantino S**, Paneni F, Viridis A, Volpe M, Taddei S, Cosentino F. Methyltransferase Set7 Induces NF-kB-Dependent Vascular Inflammation and Dysfunction in Visceral Fat Arteries of Obese Individuals.
ESC Meeting 2014, Barcelona, Spain.
Eur Heart J. 2014; 35(S1): 681-682. Meeting Abstract: 3827
24. Paneni F, **Costantino S**, Viridis A, Capretti G, Chiandotto S, Luscher TF, Taddei S, Volpe M, Cosentino F. Epigenetic Signatures Induced by Chromatin Modifying Enzymes SUV39H1 and SRC-1 Regulate Vascular p66Shc Expression and Oxidative Stress in Obese Individuals.
ESC Meeting 2014, Barcelona, Spain.
Eur Heart J. 2014; 35(S1): 689-689. Meeting Abstract: 3933

25. Paneni F, **Costantino S**, Battista R, Castello L, Chiandotto S, Capretti G, Scavone G, Lanza G, Volpe M, Cosentino F. Postprandial Hyperglycemia but Not Glycated Hemoglobin Predicts Adverse Epigenetic Signatures and Vascular Dysfunction in Type 2 Diabetic Patients with Optimal Glycemic Control.
ESC Meeting 2014, Barcelona, Spain.
Eur Heart J. 2014; 35(S1): 689-689. Meeting Abstract: 3932
26. **Costantino S**, Paneni F, Mitchell K, Berrino L, Volpe M, Schwarzwald C, Luscher TF, Cosentino F. SIRT1 Drives Persistent Myocardial Dysfunction Via Epigenetic Regulation of Mitochondrial Adaptor p66Shc in the Diabetic Heart.
ESC Meeting 2014, Barcelona, Spain.
Eur Heart J. 2014; 35(S1): 857-857. Meeting Abstract: 4788
27. Paneni F, **Costantino S**, Battista R, Capretti G, Castello L, Chiandotto S, Luscher TF, Volpe M, Cosentino F. Epigenetic Signatures Induced By Methyltransferase Set7 Drive Endothelial Dysfunction and Vascular Inflammation in Patients with Type 2 Diabetes.
ESC Meeting 2014, Barcelona, Spain.
Eur Heart J. 2014; 35(S1): 1025-1025. Meeting Abstract: 5742
28. **Costantino S**, Paneni F, Berrino L, Volpe M, Luscher TF, Cosentino F. Epigenetic Regulation of p66Shc by SIRT1 Causes Persistent Myocardial Oxidative Stress and Inflammation Despite Optimal Glycemic Control in Diabetes.
Scientific Sessions AHA. 2013, Dallas, Texas, USA
Circulation. 2013; 128(22S). Meeting Abstract: 16558
29. **Costantino S**, Paneni F, Battista R, Capretti G, Castello L, Chiandotto S, Volpe M, Luscher TF, Cosentino F. Epigenetic Remodeling of Nox2 by Acetyltransferase Gen5 Drives Hyperglycemia-Induced Endothelial Oxidative Stress.
Scientific Sessions AHA. 2013, Dallas, Texas, USA
Circulation. 2013; 128(22S). Meeting Abstract: 16519
30. Paneni F, **Costantino S**, Capretti G, Viridis A, Chiandotto S, Rocca B, Luscher TF, Taddei S, Volpe M, Cosentino F. Reprogramming Epigenetic Changes Blunts p66Shc-induced Vascular Dysfunction in Experimental and Human Obesity: Insights for Mechanisms-Based Therapeutic Strategies.
Scientific Sessions AHA. 2013, Dallas, Texas, USA
Circulation. 2013; 128(22S). Meeting Abstract: 16505
31. Paneni F, **Costantino S**, Castello L, Battista R, Capretti G, Chiandotto S, Luscher TF, Lanza G, Volpe M, Cosentino F. Epigenetic Signatures of p66Shc Promoter Contribute to Persistent Endothelial Dysfunction in Type 2 Diabetics With Optimal Glycemic Control.
Scientific Sessions AHA. 2013, Dallas, Texas, USA
Circulation. 2013; 128(22S). Meeting Abstract: 16527

32. Paneni F, **Costantino S**, Castello L, Battista R, Capretti G, Chiandotto S, Volpe M, Luscher TF, Cosentino F. Targeting Prolyl-isomerase-1 Protects Against Hyperglycemia-induced Endothelial Dysfunction and Vascular Inflammation: Alterations in Patients With Type 2 Diabetes. Scientific Sessions AHA. 2013, Dallas, Texas, USA
Circulation. 2013; 128(22S). Meeting Abstract: 16477
33. Paneni F, **Costantino S**, Krankel N, Cosentino F, Luscher TF. Reprogramming of p66Shc and JunD Improves Age-Related Dysfunction of Angiogenic Early Outgrowth Cells
Scientific Sessions AHA. 2013, Dallas, Texas, USA
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34. **Costantino S**, Paneni F, Battista R, Castello L, Capretti G, Chiandotto S, Volpe M, Luscher TF, Cosentino F. Acetyltransferase Gene Non-Derepressible 5 Mediates Hyperglycemia-Induced Endothelial Oxidative Stress in Patients with Type 2 Diabetes.
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