

## **Salvatore Carbone, PhD, MS**

### **ADDRESS**

Department of Kinesiology & Health Sciences  
1020 W. Grace Street  
500 Academic Centre, Room 113c, P.O. Box 843021  
Richmond VA 23220  
Phone (804) 628-3980  
E-mail: [scarbone@vcu.edu](mailto:scarbone@vcu.edu)

### **LANGUAGE**

- Fluent in Italian and English.

### **CURRENT POSITIONS**

#### *Assistant Professor*

Department of Kinesiology & Health Sciences  
College of Humanities & Sciences  
Virginia Commonwealth University

#### *Assistant Professor, Affiliate Appointment*

Division of Cardiology, VCU Pauley Heart Center  
Department of Internal Medicine  
Virginia Commonwealth University

#### *Instructor, Adjunct Faculty*

Clinical Nutrition  
Master of Science in Food Science, Nutrition and Applied Dietetics (online program)  
Unitelma Sapienza University of Rome, Italy

### **PAST POSITIONS**

July 2016 – Aug 2019

#### *Research Instructor of Medicine, Faculty*

Division of Cardiology, VCU Pauley Heart Center  
Department of Internal Medicine  
Virginia Commonwealth University

### **EDUCATION**

Nov 2014 – Jan 2018      PhD in Molecular Medicine and Metabolism (*summa cum laude*)  
Endocrine and Metabolic Pathophysiology  
Department of Experimental Medicine  
Sapienza University of Rome

Dec 2011 – Oct 2013:      Master of Science in Molecular, Health and Nutritional Biology  
University of Urbino “Carlo Bo”  
Urbino, Italy

Oct 2008 – Nov 2011:      Bachelor of Science in Dietetics and Nutrition (*summa cum laude*)  
Sapienza University of Rome  
Rome, Italy

### **EXAMINATION AND LICENSING**

2011-present      Unrestricted License for the Practice of Dietitian,  
Italian Board of Allied Health Professionals

### **ACADEMIC APPOINTMENTS**

Aug 2019-present      *Assistant Professor*  
Department of Kinesiology & Health Sciences  
College of Humanities & Sciences  
Virginia Commonwealth University

Jan 2016-Aug 2019      *Research Instructor of Medicine, Faculty*  
Department of Internal Medicine,  
Division of Cardiology, VCU Pauley Heart Center  
Virginia Commonwealth University

Jan 2015-Dec 2015      *Research Assistant, Faculty*  
Department of Internal Medicine,  
Division of Cardiology, VCU Pauley Heart Center  
Virginia Commonwealth University

Dec 2013-Jan 2015      *Research Assistant*  
Department of Internal Medicine,  
Division of Cardiology, VCU Pauley Heart Center

Virginia Commonwealth University

Nov 2013-present

*Instructor, Adjunct Faculty*

Clinical Nutrition

Master of Science online program on

Food Science, Nutrition and Applied Dietetics

Sapienza University of Rome (Unitelma)

May 2012-Nov 2013

*Instructor, Adjunct Faculty*

Clinical Nutrition

Food Science, Nutrition and Applied Dietetics

Istituto Alta Formazione (I.A.F.)

Rome, Italy

Sep 2012-Dec 2012

*Instructor, Adjunct Faculty*

Clinical Nutrition

Dietetics and Clinical Nutrition

Campus Bio-Medico University

Rome, Italy

### **CLINICAL APPOINTMENTS**

Nov 2011-Nov 2013

*Clinical Dietitian*

Diabetes and Metabolism Unit

Department of Experimental Medicine

Sapienza University of Rome

Latina, Italy

Jul 2011-Jul 2012

*Clinical Dietitian*

Clinical Nutrition Unit

Department of Gastroenterology

Campus Bio-Medico University

Rome, Italy

### **MEMBERSHIP IN PROFESSIONAL SOCIETIES**

- 2011 – 2013

Member of the Italian Association of Dietetics and Clinical

Nutrition

- 2011 – present

Member of the European Federation of the Association of

Dietitians

- 2013 – present

Member of the American Heart Association

- 2015 – present            Member of the American Society for Parenteral and Enteral Nutrition
- 2016 – 2017            Member of the European Society of Preventive Medicine
- 2016 – 2017            Member of the European Society for Cardiology
- 2016 – present        Regular Member of the American Society for Nutrition
- 2017 – present        Member of the American Diabetes Association
- 2018 – present        Member of the Heart Failure Society of America

## **SCIENTIFIC AND SCHOLARLY ACTIVITIES**

### **Courses Thought**

Virginia Commonwealth University:

**HPEX 345:** Nutrition for Health and Disease (Fall 2019)

**Invited lectures** (including lectures for undergraduate students, graduate students, residents, fellows and faculty members)

- 2019                    *Diet, Cardiovascular Disease and Heart Failure*  
School of Medicine – Lecture for Students (M1, M2)  
Virginia Commonwealth University, Richmond, VA
- 2019                    *Diet, Obesity and HFpEF*  
Heart Failure Grand Rounds  
Virginia Commonwealth University, Richmond, VA
- 2019                    *Glucose-lowering Agents to Improve Cardiorespiratory Fitness in Heart Failure*  
Session: Ten Simple Tips for Treating Patients with Diabetes and Heart Failure  
HFSA Annual 23<sup>rd</sup> Scientific Meeting  
Philadelphia, PA
- 2019                    *Diabetes Management for the Cardiologist(s)*  
Cardiology Grand Rounds  
Virginia Commonwealth University, Richmond, VA
- 2019                    *Treatment of Diabetes in Patients with Heart Failure: a New Opportunity to Reduce Cardiovascular Risk*

- Heart Failure Grand Rounds  
Virginia Commonwealth University, Richmond, VA
- 2019 *Diet, Obesity, and Cardiovascular Disease*  
School of Pharmacy – Elective Cardiology course  
Virginia Commonwealth University, Richmond, VA
  - 2018 *Unsaturated Fatty Acids Enriched-diet to Improve  
Cardiorespiratory Fitness, Metabolic Flexibility and Glucose  
Tolerance in Obese Patients*  
Cardiology Grand Rounds  
Virginia Commonwealth University, Richmond, VA
  - 2018 *Diet and Nutrition to Improve Physical Performance*  
Department of Physical Therapy – Lecture for Students  
Virginia Commonwealth University, Richmond, VA
  - 2018 *Obesity and Cardiovascular Disease*  
Department of Kinesiology and Health Sciences – Lecture for  
Students  
Virginia Commonwealth University, Richmond, VA
  - 2018 *Diet for the Prevention of Cardiovascular and Metabolic  
Disease*  
Department of Kinesiology and Health Sciences – Lecture for  
Students  
Virginia Commonwealth University, Richmond, VA
  - 2018 *Diet, Cardiovascular Disease and Heart Failure*  
Department of Physical Therapy – Lecture for Students  
Virginia Commonwealth University, Richmond, VA
  - 2018 *Diabetes Treatment and Cardiovascular Diseases*  
Grab 'n Go Continuing Education for Physicians and  
Pharmacists  
School of Pharmacy  
Virginia Commonwealth University, Richmond, VA
  - 2018 *Is there a "Healthy" and a "Sick" Fat in HF?*  
Session: Fat, Frailty, Supplements, and the Microbiome: The  
Need-to-Know about Nutrition in HF

HFSA Annual 22<sup>nd</sup> Scientific Meeting  
Nashville, TN

- 2018 *The Obesity Paradox in Cardiovascular Diseases: Focus on Heart Failure*  
Cardiology Grand Rounds  
Virginia Commonwealth University, Richmond, VA
- 2018 *Heart Failure: Research and Nutrition Implications*  
Dietetic Interns Series  
Virginia Commonwealth University, Richmond, VA
- 2018 *Dietary Fats – Good, Bad and Ugly: Implication for NAFLD and Obesity*  
Gastroenterology and Hepatology - SCAN-ECHO Hepatology Conference  
Hunter Holmes McGuire VA Medical Center
- 2018 *Diet, Obesity, and Cardiovascular Disease*  
School of Pharmacy – Elective Cardiology course  
Virginia Commonwealth University, Richmond, VA
- 2018 *Diet, Obesity and Heart Failure with Preserved Ejection Fraction: A Translational Approach.*  
Division of Pulmonary Disease and Critical Care Medicine,  
Fellows Lecture Series  
Virginia Commonwealth University, Richmond, VA
- 2017 *SGLT2 inhibitors for the prevention of cardiovascular events in diabetes*  
Division of General Internal Medicine Podcast, Episode 30  
Virginia Commonwealth University, Richmond, VA  
<https://rampages.us/dgimpodcast/2017/07/19/sglt2-inhibitors-prevention-of-cardiovascular-events-in-diabetes/>
- 2017 *SGLT2 inhibitors for the prevention of cardiovascular events in diabetes*  
Division of General Internal Medicine Grand Rounds  
Virginia Commonwealth University, Richmond, VA
- 2017 *The Mediterranean Diet*

- YMU faculty development program  
Virginia Commonwealth University, Richmond, VA
- 2017
  - Obesity, Obesity Paradox and Ongoing Research*
  - YMU faculty development program
  - Virginia Commonwealth University, Richmond, VA
- 2017
  - Diet and Cardiovascular Disease*
  - Clinical Research Service Unit for Nutrition Month Series
  - Virginia Commonwealth University, Richmond, VA
- 2017
  - Diet, Cardiovascular Disease and Heart Failure*
  - School of Pharmacy – Elective Cardiology course
  - Virginia Commonwealth University, Richmond, VA
- 2017
  - Obesity and Heart Failure*
  - School of Pharmacy – Elective Cardiology course
  - Virginia Commonwealth University, Richmond, VA
- 2017
  - High-sugar and High-fat Diet: Cardiac and Metabolic Implications*
  - 'Panorama Diabete Conference'
  - The Italian Society of Diabetes (SID)
  - Young SID Investigators Session
  - Riccione, Italy
- 2017
  - Obesity, Diet and Cardiorespiratory Fitness in HFpEF*
  - Internal Medicine Research Conference
  - Virginia Commonwealth University, Richmond, VA
- 2016
  - The Mediterranean Diet*
  - YMU faculty development program
  - Virginia Commonwealth University, Richmond, VA
- 2016
  - Obesity, Obesity Paradox and Ongoing Research*
  - YMU faculty development program
  - Virginia Commonwealth University, Richmond, VA
- 2016
  - The Mediterranean Diet*
  - YMU faculty development program
  - Virginia Commonwealth University, Richmond, VA

- 2016                    *Obesity, Obesity Paradox and Ongoing Research*  
YMU faculty development program  
Virginia Commonwealth University, Richmond, VA
  
- 2016                    *Heart Failure: Research and Nutrition Implications*  
Dietetic Interns Series  
Virginia Commonwealth University, Richmond, VA
  
- 2015                    *Obesity and Heart Failure*  
Heart Failure Conference Lecture Series  
Virginia Commonwealth University, Richmond, VA
  
- 2015                    *Impact of Diet on Diabetes and Heart Risk*  
American Diabetes Association meeting  
Virginia Commonwealth University, Richmond, VA
  
- 2015                    *Obesity and Heart Failure*  
Cardiology Core Lecture Series for General Cardiology  
Fellows  
Virginia Commonwealth University, Richmond, VA
  
- 2014                    *Nutrition in the ICU*  
Coronary ICU Conference Series  
Virginia Commonwealth University, Richmond, VA
  
- 2014                    *Obesity and Heart Failure*  
Dietetic Interns Series  
Virginia Commonwealth University, Richmond, VA
  
- 2014                    *The Mediterranean Diet*  
School of World Studies,  
International Studies 101  
Virginia Commonwealth University, Richmond, VA
  
- 2013                    *Interactive Lunch with the Dietitian*  
Italian Association of Clinical Diabetologists (AMD)  
Rome, Italy

**Grant support** (Active and Completed)



1. Unsaturated Fatty Acids to Improve Cardiorespiratory Fitness in Patients with Obesity and HFpEF. American Heart Association, Career Development Award 19CDA34660318 2019-2022. Randomized controlled trial investigating the effects of the supplementation of foods rich in unsaturated fatty acids on body composition, cardiac function and cardiorespiratory fitness in patients with obesity and heart failure with preserved ejection fraction. Active: \$231,000. *Role*: **Principal Investigator**.
2. Effects of IL-1 Blockade on Exercise Capacity in Patients with Recently Decompensated Systolic Heart Failure. NIH/NHLBI R61HL139943 2018-2023. Phase II clinical trial investigating the effects of interleukin-1 blockade in patients with heart failure. Principal Investigators: Antonio Abbate, MD, PhD, Benjamin Van Tassell, PharmD. Active. *Role*: **Co-Investigator and Responsible for Clinical Trial Operations**.
3. Unsaturated Fatty Acids Enriched-diet to Improve Metabolic Flexibility and Glucose Tolerance in Obese Patients: A Whole Room Indirect Calorimeter Feasibility Study. VCU Pauley Heart Center, Virginia Commonwealth University – Pilot Project Grant Program 2017-2018. Completed: \$25,000 (no salary support). *Role*: **Principal Investigator**.
4. Effects of Curcumin Supplementation on Gut Barrier Function in Patients with Metabolic Syndrome. Victoria Johnson Center for Critical Care and Pulmonary Research, Virginia Commonwealth University – Pilot Project Grant 2017-2018. Completed: \$25,000 (no salary support). Principal Investigator: Shobha Ghosh, PhD. *Role*: **Co-Principal Investigator**.
5. Mouse metabolic chamber, Higher Education Equipment Trust Fund (HEETF). The HEETF allows to purchase research equipment that cost \$100,000 or more. We have recently been awarded with \$330,000 for the purchase of the Mouse Metabolic Chamber, which will become part of the VCU Core Facilities. 2017. Active: \$330,000 (no salary support). Principal Investigator: Francesco Celi, MD, MHSc. *Role*: **Co-Principal Investigator**.
6. Treatment of Diabetes in Patients with Systolic Heart Failure. Summary: Phase IV clinical trial of canagliflozin or sitagliptin in patients with systolic heart failure and diabetes assessing the effects on peak aerobic exercise capacity. Investigator Initiated Study Sponsored by Janssen Therapeutics - 2016-2019. Active: \$809,347. Principal Investigator: Antonio Abbate, MD, PhD. *Role*: **Co-Principal Investigator**.
7. Unsaturated Fatty Acids Enriched-diet to Improve Cardiorespiratory Fitness in Obese Patients: A Feasibility Study. Department of Internal Medicine, Virginia

Commonwealth University - DOIM Pilot Project Grant Program 2017-2018. Completed: \$20,000 (no salary support). *Role*: **Principal Investigator**.

8. SGLT2 inhibitors in diabetic patients with heart failure with reduced ejection fraction  
Summary: Open-label study in diabetic patients with heart failure with reduced ejection fraction, treated with SGLT2 inhibitor. Primary end-point: change in plasma renin-activity and aldosterone; interval change in aerobic exercise capacity. American Heart Association, Mid-Atlantic Affiliate - Mentored Clinical and Population Research Award 2016-2018. Completed: \$154,000. *Role*: **Principal Investigator**.
9. Targeting Relaxin Receptor 1 for Protection of the Aging Diabetic Heart. The major goals of this project are to examine the role of relaxin receptor 1 (RXFP1) gain- and loss-of-function in myocardial ischemia-reperfusion injury in the aging diabetic heart. National Institute of Health – NIA. R21AG053654-01 – 2016-2018. Completed. Principal Investigator: Fadi Salloum, PhD. *Role*: **Co-Investigator**.
10. Cardioprotection of SP16 in diet-induced obesity in mice. The goal of this project is to determine whether the use of SP16 prevents cardiac dysfunction in a mouse model of Western diet-induced cardiac dysfunction. Investigator Initiated Study sponsored by Serpin Pharmaceuticals – 2017-2018. Active: \$61,000. Principal Investigator: Stefano Toldo, PhD. *Role*: **Co-Investigator**.
11. Interleukin-1 blockade in acute myocardial infarction. Summary: Randomized clinical trial enrolling patients with ST-segment elevation acute myocardial infarction treated with anakinra, a IL-1 antagonist, at two different doses or placebo for 14 days. Primary endpoint: interval change in aerobic exercise capacity. National Heart Blood Lung Institute, National Institute of Health 2014-2017. Active: \$652,839. Principal Investigators: Antonio Abbate, MD, PhD; Benjamin Van Tassell, PharmD. *Role*: **Co-Investigator**.
12. Interleukin-1 blockade in recently decompensated heart failure. Summary: Randomized clinical trial enrolling patients with recent hospital admission for heart failure and treated with anakinra, a IL-1 antagonist, or placebo for 12 weeks. Primary endpoint: interval change in aerobic exercise capacity. National Heart Blood Lung Institute, National Institute of Health 2013-2015. Completed: \$694,433. Principal Investigators: Antonio Abbate, MD, PhD; Benjamin Van Tassell, PharmD. *Role*: **Co-Investigator**.
13. Interleukin-1 blockade in heart failure with preserved ejection fraction. Summary: Randomized clinical trial enrolling patients with prior hospital admission for heart failure with preserved ejection fraction and treated with anakinra, a IL-1 antagonist, or placebo for 12 weeks. Primary endpoint: interval change in aerobic exercise

capacity. National Heart Blood Lung Institute, National Institute of Health 2014-2016. Completed: \$607,858. Principal Investigators: Antonio Abbate, MD, PhD; Benjamin Van Tassel, PharmD. *Role*: **Co-Investigator**.

14.A Randomized, Double-blind, Placebo-controlled, Event Driven Trial of Quarterly Subcutaneous Canakinumab in the Prevention of Recurrent Cardiovascular Events Among Stable Post-myocardial Infarction Patients With Elevated hsCRP. Novartis Pharmaceuticals – Multi-center clinical trial. This includes also an Investigator Initiated Substudy focused on patients with Heart Failure available only at VCU. Completed: \$735,000. Principal Investigator for VCU and Principal Investigator for Substudy: Antonio Abbate, MD, PhD. *Role*: **Co-Investigator**.

### **Clinical and pre-clinical Studies Training**

2013-present	Collaborative Institutional Training Initiative (CITI)
2013-present	Animal Care and Use in Research and Education: Post-Procedure Care of Mice and Rats in Research: Minimizing Pain and Distress
2014-present	E-ROC: Ethical Research Oversight Course, The Boston University
2014-present	Handling Dangerous Goods Training
2015-present	Good Clinical Practice (GCP) Training

### **TEACHING** (in addition to the invited lectures described above)

2011-2013	Supervisor for Dietetics Interns from Dec 2011 to Nov 2013 at Diabetes and Metabolism Unit, Sapienza University of Rome
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2013-present	Master of Science in Food Science, Nutrition and Applied Dietetics, Online Program. Sapienza University of Rome (Unitelma).
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Subjects of teaching:

- Nutrition and Dietetics in Obesity
- Nutrition and Dietetics in Diabetes
- Nutrition and Dietetics in Cardiovascular Disease with a focus on Heart Failure
- Nutrition and Dietetics in Cancer
- Nutrition and Dietetics in Sport
- Nutritional Status Assessment in Healthy Individuals and in Patients with Diseases
- Body Composition Assessment in Physiological and Pathological conditions.

- 2013-present Thesis Director for graduate students (primarily physicians, biologists, nutritionists, exercise physiologists and nurses) enrolled in the Master of Science in Food Science, Nutrition and Applied Dietetics, Online Program, Sapienza University of Rome (Unitelma).
- 2016 Faculty for the Study Abroad (Italy) for VCU Honor Students Program: "Discover Medicine in Italy" (Director: Antonio Abbate, MD, PhD):
- Introduction to Translational Research, which included classrooms seminars, assigned reading and laboratory sessions
  - Introduction to Medical Semiotics, which included classrooms seminar, assigned reading and hands-on experience in the clinical setting.
- At the end of the 3-week program, the students developed a Research Proposal that involved a Translational Research Project.
- 2017 Program Director for the Study Abroad (Italy) for VCU Honor Students Program: "Discover Medicine in Italy":
- Introduction to Translational Research, which included classrooms seminars, assigned reading and laboratory sessions
  - Introduction to Medical Semiotics, which included classrooms seminar, assigned reading and hands-on experience in the clinical setting.
- At the end of the 3-week program, the students developed a Research Proposal that involved a Translational Research Project.
- 2017-present Nutrition Research Rotation, Lead Preceptor for VCU Dietetic Interns.
- 2017-present Cardio Nutrition Outpatient Clinic Rotation, Lead Preceptor for VCU Dietetic Interns.

### **Service to the community and the University**

- 2013-present Peer-Reviewer, *PLoS ONE*
- 2015-present Peer-Reviewer, *BMC Cardiovascular Disorders, Histology and Histopathology, Journal of Human Nutrition & Food Science*
- 2015-present Editorial Board Member, *Immunoendocrinology*
- 2015-present Institutional Review Board (IRB), Full member, Virginia Commonwealth University
- 2016-present Abstract Review Committee, American Society for Parenteral and Enteral Nutrition (ASPEN).

2016-present Peer-Reviewer, *Metabolism Clinical and Experimental*

2017-present Poster Professor, American Society for Parenteral and Enteral Nutrition (ASPEN), Clinical Nutrition Week 2017

2017-present Peer-Reviewer, *Austin Journal of Nutrition and Metabolism, Journal of Nutrition, Mayo Clinic Proceedings: Innovations, Quality & Outcomes, Motriz, Journal of Physical Education, European Journal of Clinical Investigation, Heart and Circulation, Mayo Clinic Proceedings*

2017-present Editorial Board Member, *GSL Journal of Cardiovascular Disease, EC Cardiology*

2017-present Healthspan Group, Advisory Board

2017-present Communications Group Committee Member of the European Federation of the Association of Dietitians (EFAD)

2017-present Conference Monitoring Committee Member, American Society for Parenteral and Enteral Nutrition (ASPEN), Clinical Nutrition Week 2018

2018-present Abstract Review Committee, American Society for Nutrition (ASN)

2018-present Peer-Reviewer, *Advances in Nutrition, Diabetes/Metabolism Research and Reviews, BMC Nutrition, Journal of the American Heart Association, Diabetes/Metabolism: Research & Reviews, Circulation: Heart Failure, Molecular Nutrition and Food Research, Expert Opinion on Pharmacotherapy, Nutrition and Metabolic Insights, BMJ Open, JACC: Heart Failure, Nutrition, Metabolism and Cardiovascular Diseases*

2018-present Research Committee Member, American Society for Parenteral and Enteral Nutrition (ASPEN)

2018-present Social Media Facilitator for: "What Every Cardiologist Needs to Know About Comprehensive CV Risk Reduction in Diabetes", American Heart Association Scientific Session 2018, Chicago, IL

2018-present Editorial Board Member, *Diabetes/Metabolism: Research & Reviews*

2019-present Peer-Reviewer, *The Lancet, Nutrients, European Journal of Pharmacology, Journal of Cardiovascular Pharmacology, Heart Failure Reviews, Cardiovascular Diabetology, Frontiers in Cardiovascular Medicine, Journal of Diabetes, International Journal of Cardiology, Future Cardiology, The American Heart Journal, The Journal of Clinical Endocrinology & Metabolism, International Journal of Obesity.*

2019-present	Grant Reviewer, ZonMw's Translational Research Program (PTO-2), Health Holland
2019-present	Editorial Board Member, <i>Diabetology &amp; Metabolic Syndrome; Diseases</i> .
2019-present	At-Large Elected Member (2-year term), Energy & Macronutrient Metabolism Research Interest Section, American Society for Nutrition
2019-present	Editorial Board Member, <i>Minerva Cardioangiologica</i>

### **Honors**

2017	Junior Faculty Travel Grant, Department of Internal Medicine, School of Medicine, Virginia Commonwealth University, Richmond, VA
2018	Rising Stars in Healthcare 'Under 40', OurHealth, Richmond, VA
2018	Heart Failure Society of America Nominee for 2020-2025 USDA Dietary Guidelines Advisory Committee Member

### **PUBLICATIONS IN JOURNALS**

*Total publications: 86 (including in press)*

*Google Scholar citations: 1,158*

*Google Scholar H-index: 20*

Pubmed: <https://www.ncbi.nlm.nih.gov/myncbi/salvatore.carbone.1/bibliography/public/>

Google scholar: <https://scholar.google.com/citations?user=pJlmencAAAAJ&hl=en>

1. Abbate A, Trankle CR, Buckley LF, Lipinsky MJ, Appleton D, Kadariya D, Canada JM, **Carbone S**, Roberts CS, Abouzaki NA, Melchior R, Christopher S, Turlington J, Mueller G, Garnett J, Thomas C, Markley R, Wohlford G, Puckett L, Medina de Chazal H, Chiabrando JG, Bressi E, Del Buono MG, Schatz A, Vo C, Dixon DL, Biondi-Zoccai G, Kontos MC, Van Tassell BW. Interleukin-1 blockade Inhibits the Acute Inflammatory Response in Patients with STsegment Elevation Myocardial Infarction. *J Am Heart Assoc* 2019. In press.
2. **Carbone S**, Lavie CJ, Elagizi A, Arena R, Ventura H. The Impact of Obesity in Heart Failure. *Heart Fail Clin* 2020;16(1):71-80. Corresponding Author. Invited Review.
3. Kumar N, Contaifer D, Madurantakam P, **Carbone S**, Price E, Van Tassell BW, Brophy D, Wijesinghe D. Dietary bioactive fatty acids as modulators of immune function: Implications on human health. *Nutrients* 2019. In press. Review.

4. Ozemek C, Tiwari SC, Sabbahi A, **Carbone S**, Lavie CJ. Impact of therapeutic lifestyle changes in resistant hypertension. *Prog Cardiovasc Dis* 2019. In press. Invited Review.
5. Billingsley HE, Rodriguez-Miguel P, Del Buono MG, Abbate A, Lavie CJ, **Carbone S**. Lifestyle Interventions with a Focus on Nutritional Strategies to Increase Cardiorespiratory Fitness in Chronic Obstructive Pulmonary Disease, Heart Failure, Obesity, Sarcopenia and Frailty. *Nutrients* 2019. In press. Corresponding Author. Invited Review.
6. Graham G\*, **Carbone S\***, Wang J, Dixon DL, Jovin IS, Carl DE, Gehr TW, Ghosh S. Impaired delivery of cholesterol effluxed from macrophages to hepatocytes by serum from CKD patients may underlie increased CVD risk. *Kidney International Reports* 2019. In press. \*Equal contribution.
7. **Carbone S**, Billingsley HE, Lavie CJ. The Effects of Dietary Sugars on CVD and CVD-Related Mortality: Finding the Sweet Spot. *Mayo Clin Proc* 2019. In press. Corresponding Author. Invited Editorial.
8. van Wezenbeek J, Canada JM, Ravindra K, **Carbone S**, Kadariya D, Trankle CR, Wohlford G, Buckley LF, Del Buono MG, Billingsley HE, Viscusi M, Tchoukina I, Shah K, Arena R, Van Tassell BW, Abbate A. Determinants of Cardiorespiratory Fitness in Heart Failure Across a Wide Range of Ejection Fractions. *Am J Card* 2020. In press.
9. Van Tassell BW, Westman P, Trankle C, Johns S, Kadariya D, Buckley L, **Carbone S**, Abbate A, Moeller FG. Non-Invasive Hemodynamic Monitoring of Cocaine-Induced Changes in Cardiac Output and Systemic Vascular Resistance in Subjects with Chronic Cocaine Use Disorder. *J Cardiovasc Pharmacol* 2019. In press.
10. **Carbone S**, Del Buono MG, Ozemek C, Lavie CJ. Obesity, Risk of Diabetes and Role of Physical Activity, Exercise Training and Cardiorespiratory Fitness. *Prog Cardiovasc Dis* 2019. In press. Corresponding Author. Invited Review.
11. Patel SS, Siddiqui MB, Chadrakumaran A, Faridnia M, Lin F, Hernandez Roman J, **Carbone S**, Lorenzo J, Clinton J, Kirkman D, Wolver S, Celi FS, Bhati C, Siddiqui MS. Efficacy of Office Based Lifestyle Intervention for Weight Loss Liver Transplant Recipients. *Digestive Diseases and Sciences* 2019. In press.
12. Lavie CJ, **Carbone S**, Kachur S, O'Keefe EL, Elagizi A. Effects of Physical Activity, Exercise and Fitness on Obesity Related Morbidity and Mortality. *Curr Sports Med Rep* 2019;18(8):292-298. Invited Review.

13. **Carbone S**, Lavie CJ, Nattel S. Editorial Commentary: Obesity, Body Composition and Atrial Fibrillation. *Trends Cardiovasc Med* 2019. In press. Invited Editorial.
14. Lavie CJ, Ozemek C, **Carbone S**, Kachur S. Sustaining Improvements in Cardiorespiratory Fitness and Muscular Strength in Cardiac Rehabilitation. *Can J Cardiol* 2019. In press. Invited Editorial.
15. Bonaventura A, Vecchié A, **Carbone S**, Montecucco F, Abbate A. Comment on Hypoglycemia and hyperglycemia are risk factors for falls in the hospital population by Berra et al. *Acta Diabetol* 2019. In press. Letter to the Editor.
16. Contaifer D, Buckley LF, Wohlford GW, Kumar NG, Morriss JM, Ranasinghe AD, **Carbone S**, Canada JM, Trankle CR, Abbate A, Van Tassell BW, Wijesinghe DS. Metabolic Modulation Predicts Heart Failure Tests Performance. *PLoS One* 2019;14(6):e0218153.
17. **Carbone S**, Dixon DL. The CANVAS Program: Implications of Canagliflozin on Reducing Cardiovascular Risk in Patients with Type 2 Diabetes Mellitus. *Cardiovasc Diabetol* 2019;18(1):64. Corresponding Author. Review.
18. **Carbone S**, Lavie CJ. An Opposing Point of View on the Obesity Paradox. *Postgrad Med* 2019;131(5):333-334. Invited Letter to the Editor.
19. **Carbone S**, Billingsley HE, Canada JM, Kadariya D, Medina de Chazal H, Rotelli B, Potere N, Paudel B, Markley R, Dixon DL, Trankle CR, Van Tassell BW, Celi FS, Abbate A. Unsaturated Fatty Acids to Improve Cardiorespiratory Fitness in Patients with Obesity and Heart Failure with Preserved Ejection Fraction: Results from the UFA-Preserved Pilot Study. *JACC Basic Transl Sci* 2019;4(4):563-565. Corresponding Author.
20. **Carbone S**, Billingsley HE, Rodriguez-Miguel P, Kirkman DL, Franco RL, Lee DC, Lavie CJ. Lean Mass Abnormalities in Heart Failure: The Role of Sarcopenia, Sarcopenic Obesity and Cachexia. *Current Problems in Cardiology* 2019. In press. Invited Review. Corresponding Author.
21. **Carbone S**, Canada JM, Billingsley HE, Siddiqui MS, Elagizi A, Lavie CJ. Obesity Paradox in Cardiovascular Disease: Where Do We Stand? *Vasc Health Risk Manag* 2019;15:89-100. Invited Review.



22. Bonaventura A, **Carbone S**, Dixon DL, Abbate A, Montecucco F. Pharmacologic Strategies to Reduce Cardiovascular Disease in Type 2 Diabetes: Focus on SGLT-2 Inhibitors and GLP-1 Receptor Agonists. *J Intern Med* 2019;286(1):16-31. Review.
23. Lavie CJ, Ozemek C, **Carbone S**, Katzmarzyk PT, Blair SN. Sedentary Behavior, Exercise and Cardiovascular Health. *Circ Res* 2019;124(5):799-815. Invited Review.
24. Del Buono MG, Arena R, Borlaug BA, **Carbone S**, Canada JM, Kirkman DL, Garten R, Rodriguez-Miguel P, Guazzi M, Lavie CJ, Abbate A. Exercise Intolerance in Patients with Heart Failure. *J Am Coll Cardiol* 2019;73(17):2209-25. Invited Review.
25. van Wezenbeek J, Ravindra K, Canada JM, **Carbone S**, Trankle CR, Kadariya D, Buckley LF, Del Buono MG, Billingsley HE, Viscusi M, Wohlford G, Arena R, Van Tassel BW, Abbate A. C-Reactive Protein and N-Terminal pro-Brain Natriuretic Peptide Levels Correlate with Impaired Cardiorespiratory Fitness in Patients with Heart Failure Across a Wide Range of Ejection Fraction. *Front Cardiovasc Med* 2018;5:178.
26. Buckley LF, Canada JM, **Carbone S**, Trankle CR, Kadariya D, Billingsley HE, Wohlford GF, Kirkman D, Abbate A, Van Tassel BW. Potential Role for Interleukin-1 in the Cardio-Renal Syndrome. *Eur J Heart Fail* 2019;21(3):385-386
27. **Carbone S**, Mauro AG, Prestamburgo A, Halquist MS, Narayan P, Potere N, Mezzaroma E, Van Tassel BW, Abbate A, Toldo S. An Orally Available NLRP3 Inflammasome Inhibitor Prevents Western Diet-Induced Cardiac Dysfunction in the Mouse. *J Cardiovasc Pharmacol* 2018;72(6):303-307.
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### **Abstract presentations**

1. Donini LM, Scavone L, **Carbone S**, Giorgini L, Tempera S. "The criteria of body weight (using BMI) in the diagnosis of anorexia nervosa and accuracy for admission to residential rehabilitation". 6th National Meeting of Italian Society for the Study of Eating Disorder Disease, SISDCA – in Bologna, Italy. November 2011. Poster presentation
2. **Carbone S**, Del Toma E. "Hypothesis of cooperation between public and private system against the pandemic of Obesity". 20th National Meeting Italian Association for Dietetics and Clinical Nutrition, ADI – Florence, Italy. November 2012. **Oral presentation**
3. Capizzi M, Campagna G, Leto G, Zampetti S, Spoletini M, Foffi C, Moretti C, Venditti C, **Carbone S**, Mastantuono M, Vania A, Buzzetti R. "The circumference of the wrist correlates positively with the arterial blood pressure in overweight and obese children and adolescents". 19th National Meeting Italian Association of Clinical Diabetologists, Rome, AMD – Rome, Italy. June 2013. Poster presentation
4. **Carbone S**, Toldo S, Nordio A, Marchetti C, Mezzaroma E, Mauro AG, Regan J, Sonnino C, Salloum FN, Van Tassell BW, Abbate A. "Western Diet Impairs Cardiac Systolic and Diastolic Function in the Mouse". Circulation 2014; 130: A12802. Poster presentation
5. Toldo S, Marchetti C, Hussein AA, **Carbone S**, Regan J, Mauro AG, Nordio A, Sonnino C, Mezzaroma E, Van Tassell BW, Abbate A. "A Mouse Model of Heart Failure with Preserved Ejection Fraction (HFpEF) due to Chronic Infusion of a Low Subpressor Dose of Angiotensin II". Circulation 2014;130: A13407. Poster presentation
6. Abbate A, Van Tassell BW, Christopher S, Abouzaki NA, Sonnino C, Oddi C, **Carbone S**, Melchior RD, Gambill ML, Roberts CS, Kontos MC, Peberdy MA, Toldo S, Vetrovec GW, Biondi-Zoccai G, Dinarello CA. "Alpha-1 Anti-trypsin Inhibits the Acute Inflammatory Response in Patients with ST-Segment Elevation Myocardial Infarction". Circulation 2014; 130: A12908. Poster presentation
7. Marchetti C, Toldo S, Chojnacki J, Mezzaroma E, **Carbone S**, Nordio A, Sonnino C, Federici M, BW Van Tassell, Zhang S, Abbate A. "Pharmacologic Inhibition of the NLRP3 Inflammasome Improves Left Ventricular Dysfunction after Severe Ischemic and Non-Ischemic Injury". Circulation 2014; 130: A13423. Poster presentation

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9. Mauro AG, Toldo S, Marchetti C, **Carbone S**, Sonnino C, Nordio A, Van Tassell BW, Salloum FN, Abbate A, Mezzaroma E. "Increased myocardial IL-18 expression during the course of radiation induced cardiomyopathy". Italian Society of Cardiology Annual Session 2014, Rome, Italy. Poster presentation
10. Toldo S, Marchetti C, Mezzaroma E, **Carbone S**, Nordio A, Sonnino C, Mauro AG, Federici M, Van Tassell BW, Abbate A. "Inhibition of the cryopyrin inflammasome improves cardiac remodeling after severe ischemic and non-ischemic injury: a new strategy to prevent Heart Failure". Italian Society of Cardiology Annual Session 2014, Rome, Italy. Poster presentation
11. Mauro AG, Mezzaroma E, Marchetti C, **Carbone S**, Sonnino C, Nordio A, Van Tassell BW, Salloum FN, Abbate A, Toldo S. "Myeloid differentiation factor-88 gene silencing prevents the NLRP3 inflammasome formation in the mouse heart following acute myocardial infarction". Italian Society of Cardiology Annual Session 2014, Rome, Italy. Poster presentation
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13. Van Tassell CW, **Carbone S**, Oddi Erdle C, Abouzaki NA, Melchior RD, Turlington JS, Trankle CR, Christopher S, Thomas CS, Fronk DT, Thurber C, Dinarello CA, Biondi-Zoccai G, Abbate A. Interleukin-1 blockade in acute decompensated systolic heart failure: results of the Anakinra in Decompensated Heart Failure Pilot study. American Heart Association National Meeting (Orlando) 2015. Poster presentation
14. Toldo S, Marchetti C, Mauro AG, Mezzaroma E, **Carbone S**, Zhang S, Salloum F, Van Tassell BW, Abbate A. Inhibition of the NLRP3 Inflammasome Limits the Inflammatory Injury Following Myocardial Ischemia-reperfusion in the Mouse. American Heart Association National Meeting (Orlando) 2015. Poster presentation
15. Regan JA, Mauro GA, **Carbone S**, Marchetti C, Mezzaroma E, Kraskauskas D, Salloum FN, Dinarello CA, Van Tassell BW, Abbate A, Toldo S. Interleukin-18

Blockade Prevents Diastolic Dysfunction in a Mouse Model of Heart Failure with preserved Ejection Fraction. American Heart Association National Meeting (Orlando) 2015. Poster presentation

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17. **Carbone S**, Lee PJ, Mauro AG, Regan JA, Kraskauskas D, Buzzetti R, Van Tassell BW, Abbate A, Toldo S. Interleukin-18 mediates left ventricular dysfunction induced by Western diet in the mouse. American Society for Parenteral and Enteral Nutrition (ASPEN) Clinical Nutrition Week Conference (Austin) 2016. Poster presentation. *J Parenter Enteral Nutr* 2016;40:S73
18. Buckley LF, Canada JM, **Carbone S**, Trankle CR, Abbate A, Van Tassell BW, Dessie S. Relationship between Plasma Biomarkers and Response to IL-1 Blockade in Acute Decompensated Heart Failure. Poster presentation. *Journal of Cardiac Failure* 2016;22(8):S29
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20. Buckley LF, Wijesinghe DS, Kidd J, Canada JM, **Carbone S**, Dessie S, Fatani Y, Kadariya D, Trankle CR, Abbate A, Van Tassell BW. Rationale and design of the End-stage renal disease and Heart failure: Anakinra Response Trial (E-HART). Presented at: American College of Clinical Pharmacy Annual Meeting. Poster presentation. October 23, 2016; Hollywood, FL.
21. Trankle CR, **Carbone S**, Canada JM, Buckley LF, Dixon DL, Buzzetti R, Arena R, Van Tassell BW, Abbate A. Obesity Contributes to Exercise Intolerance in Heart Failure with Preserved Ejection Fraction. Poster Presentation. Mid-Atlantic Capital Cardiology Symposium 2016.
22. **Carbone S**, Lee PJ, Mauro AG, Mezzaroma E, Regan JA, Kraskauskas D, Buzzetti R, Van Tassell BW, Abbate A, Toldo S. Interleukin-18 Mediates Left Ventricular Dysfunction Induced by Western Diet Independent of Metabolic Changes in the Mouse. *Circulation* 2016;134 (Suppl 1):A20367-A20367. Poster presentation

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### **Chapters in books**

- 2015 "19 Voci per una Corretta Alimentazione ed un Adeguato Esercizio Fisico" (19 Opinions for a Healthy Diet and Appropriate Physical Activity) by Agrigento S. Book. Chapter 1: "Food and Nutrients: Food Groups



Classification” by **Carbone S.** Preview published on:  
<http://www.masteralimentazione.eu/doc/pubblicazioni/abstract/Estratto.pdf>

2012 “Nutritional risk in elderly: Manual for assessment and management for caregivers” by Donini LM and **Carbone S.** Book. Published online on Sapienza University of Rome, Food Science and Experimental Medicine Department. <http://uniroma1.scialim.it/index.php?pag=359>

### **Acknowledgments, contributions and additional information**

2018 Del Buono MG, Buckley L, Abbate A. Primary and Secondary Diastolic Dysfunction in Heart Failure With Preserved Ejection Fraction. *Am J Cardiol* 2018;122(9):1578-1587. *‘We would like to thank Akshay S Desay, Justin Canada, **Salvatore Carbone**, Benjamin Van Tassell, Ross Arena and Francisco Jose Romeo, for their contribution to the discussion that have inspired this review over the past several months’.*

2017 Toldo S and Abbate A. The NLRP3 inflammasome in acute myocardial infarction. *Nat Rev Cardiol* 2018;15(4):203-214. *‘The authors are grateful to **Salvatore Carbone** (Virginia Commonwealth University, Richmond, USA) for critically reviewing the manuscript’.*

2011 “Italian Federation of Nutritional Societies (Fe.S.I.N.) position statement about ketogenic enteral nutrition (NEC) as a therapy for obesity”. Contribution in collecting and analyzing the data to create the position statement.

2011 "La dieta si fa contando i passi - meno diete più movimento" (Dieting counting step – Less dieting and more physical activity) by Eugenio Del Toma. Book. Second edition, November 2011. Edited by Il Pensiero Scientifico Editore. Contribution in collecting, analyzing and writing data.

2007 ATP Ranked Professional Tennis Player.