

## **Salvatore Carbone, PhD, RDN, MS, FHFSa, FASPEN**

### **ADDRESS**

Department of Kinesiology & Health Sciences  
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### **LANGUAGE**

- Fluent in Italian and English.

### **CURRENT POSITIONS**

*Associate Professor* (with tenure)  
Department of Kinesiology & Health Sciences  
College of Humanities & Sciences  
Virginia Commonwealth University

### **PAST POSITIONS**

August 2019 – June 2024

*Assistant Professor* (tenure track)  
Department of Kinesiology & Health Sciences  
College of Humanities & Sciences  
Virginia Commonwealth University

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 License for the Practice of Dietitian, Italian Board of Allied Health Professionals

2024-present Registered Dietitian Nutritionist (RDN), Commission on Dietetic Registration

### **ACADEMIC APPOINTMENTS**

July 2024-current *Associate Professor (with tenure), Faculty*  
Department of Kinesiology & Health Sciences  
College of Humanities & Sciences  
Virginia Commonwealth University

Aug 2019-June 2024 *Assistant Professor (tenure track), Faculty*  
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 – 2019 Member of the American Diabetes Association
- 2018 – present Member of the Heart Failure Society of America

## **SCIENTIFIC AND SCHOLARLY ACTIVITIES**

### **Invited lectures**

- 1) 2024 *HFpEF, Comorbidities, and Lifestyle Factors: Diet and Exercise.*  
Session: The Heart Failure Team Discusses the Advances in HFpEF: Joint Symposium of the Heart Failure Society of America (HFSA) and the American College of Cardiology (ACC)  
ACC 2024 Conference, Atlanta, GA
- 2) 2024 *Dietary Fatty Acids, Obesity, and Cardiorespiratory Fitness in Heart Failure*  
Public Health Nutrition Guest Lecture for Graduate Students  
Virginia Commonwealth University, Richmond, VA
- 3) 2024 *Weight Loss: Weighing in on Pharmacotherapy*  
Kines-Madness Guest Lecture for Undergraduate Students  
Virginia Commonwealth University, Richmond, VA
- 4) 2024 *Unlocking Conversational Artificial Intelligence (AI): The Power of Large Language Model-Based Chatbots*  
American Society for Parenteral and Enteral Nutrition (ASPEN) 2024 Conference, Tampa, FL
- 5) 2024 *An Update on Non-surgical Therapies for Obesity Focus on Lifestyle and Pharmacotherapy:*  
Sentara Health System Cardiology Grand Rounds, Norfolk, VA
- 6) 2023 *Dietary Fatty Acids, Obesity, and Cardiorespiratory Fitness in*

- Heart Failure*  
Graduate Seminar  
University of Idaho  
Moscow, ID
- 7) 2023      *My (Personal) Professional Story*  
CCTR Undergraduate Fellowship Lecture Series  
Virginia Commonwealth University, Richmond, VA
- 8) 2023      *Fatty Acids: Metabolism, Mechanisms of Action, and  
Biological Effects*  
Understanding the Options: Lipid Injectable Emulsions  
ASPEN Webinar
- 9) 2023      *Diet, Obesity, and Cardiovascular Disease*  
School of Pharmacy – Elective Cardiology course  
Virginia Commonwealth University, Richmond, VA
- 10)2023      *Obesity Paradox, Cardiorespiratory Fitness, and Dietary  
Interventions in Heart Failure*  
Cardiology Grand Rounds  
Virginia Commonwealth University, Richmond, VA
- 11)2022      *The Obesity Paradox in Cardiovascular Diseases:  
Focus on Heart Failure*  
Sentara Health System Cardiology Grand Rounds, Norfolk, VA
- 12)2022      *Obesity Paradox, Cardiorespiratory Fitness, and Dietary  
Interventions in Heart Failure*  
Cardiovascular Medicine Grand Rounds  
University of Nebraska Medical Center  
Omaha, NE
- 13)2022      *Low Hanging Fruits: Nutrition in Preventive Cardio-Oncology*  
Session: Cardiovascular Health For Cancer Survivors:  
Advancing Preventive Cardio-Oncology  
American Heart Association 2022 Scientific Session  
Chicago, IL
- 14)2022      *The Role of Dietitians in GDMT Clinics*  
Session: Multidisciplinary Heart Failure Clinics

- Heart Failure Society of America 26<sup>th</sup> Scientific Meeting  
Washington, DC
- 15)2022      *The 'Goods and the 'Bads': The Role of Dietary Fats in Heart Failure*  
Session: Nutrition and Obesity Management in Heart Failure  
Heart Failure Society of America 26<sup>th</sup> Scientific Meeting  
Washington, DC
- 16)2022      *The Diet Debate: Dietary Interventions to Reduce CVD*  
School of Pharmacy – Elective Cardiology course  
Virginia Commonwealth University, Richmond, VA
- 17)2022      *Which Diet is Best for my Patient with Diabetes?*  
Diabetes and Hypertension Project ECHO Clinic  
Virginia Commonwealth University, Richmond, VA
- 18)2022      *Cardiovascular Journal Club Research Faculty Panel*  
Panel discussion for Graduate students  
Department of Kinesiology & Health Sciences  
Virginia Commonwealth University, Richmond, VA
- 19)2022      *Discovering How Healthy Dietary Fats Can Improve Health in Patients with Heart Failure*  
Wright Center Discovery Dialogues Series  
VCU Wright Center for Clinical and Translational Research  
Virginia Commonwealth University, Richmond, VA
- 20)2022      *Comprehensive Lifestyle Intervention to Improve Heart Failure Outcomes in Patients with Chronic Kidney Disease*  
Heart Failure Grand Rounds  
Virginia Commonwealth University, Richmond, VA
- 21)2021      *Weighing the Risks in Clinical Research*  
Lecture for PhD students  
Department of Health Behavior and Policy  
Virginia Commonwealth University, Richmond, VA
- 22)2021      *Dietary Fats, Cardiac Dysfunction, and Cardiorespiratory Fitness: From Bench to Bedside*  
Session: Role of Diet, Nutrition, and Body Composition in

- Patients with Heart Failure  
Heart Failure Society of America 25<sup>th</sup> Scientific Meeting  
Denver, CO
- 23)2021      *Diet, Obesity, and Cardiovascular Disease*  
School of Pharmacy – Elective Cardiology course  
Virginia Commonwealth University, Richmond, VA
- 24)2021      *The Diet Debate: The Mediterranean Diet*  
2021 Virginia Bariatric Society Conference, Williamsburg, VA
- 25)2021      *SGLT2 Inhibitors and GLP1 Receptor Agonists For  
Cardiovascular Disease Prevention*  
Diabetes and Hypertension Project ECHO Clinic  
Virginia Commonwealth University, Richmond, VA
- 26)2021      *SGLT2 Inhibitors and Cardiovascular Disease Prevention:  
How Sweet it is?*  
APP Cardiology Conference  
Virginia Commonwealth University, Richmond, VA
- 27)2021      *Which Diet is Best for Women to Reduce Cardiometabolic  
Risk?*  
Health of Women Conference  
Virginia Commonwealth University, Richmond, VA
- 28)2021      *Obesity and Heart Failure: is Weight Loss the Answer?*  
Endocrinology, Diabetes and Metabolism Grand Rounds  
Virginia Commonwealth University, Richmond, VA
- 29)2021      *Dietary Interventions to Reduce Cardiometabolic Risk:  
Making the Case for Precision Nutrition*  
Sentara Health System Grand Rounds, Norfolk, VA
- 30)2021      *Molecular Aspects of Structured Dietary Interventions*  
ASPEN 2021 National Conference (Virtual)
- 31)2021      *Dietary Interventions to Reduce Cardiometabolic Risk:  
Making the Case for Precision Nutrition*  
School of Medicine – Lecture for Medical Students  
Eastern Virginia Medical School (EVMS), Norfolk, VA

- 32)2021 *How Sweet it is! SGLT2 inhibition to Improve Heart Failure Outcomes*  
Heart Failure Grand Rounds  
Virginia Commonwealth University, Richmond, VA
- 33)2020 *Dietary Interventions to Reduce Cardiometabolic Risk: Making the Case for Precision Nutrition*  
Cardiology Grand Rounds  
Virginia Commonwealth University, Richmond, VA
- 34)2020 *Diet, Obesity, and Cardiovascular Disease*  
School of Pharmacy – Elective Cardiology course  
Virginia Commonwealth University, Richmond, VA
- 35)2020 *Diet to Prevent and Treat Cardiometabolic Disease*  
Heart Health in Women Symposium  
Virginia Commonwealth University, Richmond, VA  
Virginia Museum of History & Culture, Richmond, VA
- 36)2019 *Diet, Cardiovascular Disease and Heart Failure*  
School of Medicine – Lecture for Students (M1, M2)  
Virginia Commonwealth University, Richmond, VA
- 37)2019 *Diet, Obesity and HFpEF*  
Heart Failure Grand Rounds  
Virginia Commonwealth University, Richmond, VA
- 38)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
- 39)2019 *Diabetes Management for the Cardiologist(s)*  
Cardiology Grand Rounds  
Virginia Commonwealth University, Richmond, VA
- 40)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

- 41)2019 *Diet, Obesity, and Cardiovascular Disease*  
School of Pharmacy – Elective Cardiology course  
Virginia Commonwealth University, Richmond, VA
- 42)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
- 43)2018 *Diet and Nutrition to Improve Physical Performance*  
Department of Physical Therapy – Lecture for Students  
Virginia Commonwealth University, Richmond, VA
- 44)2018 *Obesity and Cardiovascular Disease*  
Department of Kinesiology and Health Sciences – Lecture for  
Students  
Virginia Commonwealth University, Richmond, VA
- 45)2018 *Diet for the Prevention of Cardiovascular and Metabolic  
Disease*  
Department of Kinesiology and Health Sciences – Lecture for  
Students  
Virginia Commonwealth University, Richmond, VA
- 46)2018 *Diet, Cardiovascular Disease and Heart Failure*  
Department of Physical Therapy – Lecture for Students  
Virginia Commonwealth University, Richmond, VA
- 47)2018 *Diabetes Treatment and Cardiovascular Diseases*  
Grab 'n Go Continuing Education for Physicians and  
Pharmacists  
School of Pharmacy  
Virginia Commonwealth University, Richmond, VA
- 48)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

- 49)2018 *The Obesity Paradox in Cardiovascular Diseases: Focus on Heart Failure*  
Cardiology Grand Rounds  
Virginia Commonwealth University, Richmond, VA
- 50)2018 *Heart Failure: Research and Nutrition Implications*  
Dietetic Interns Series  
Virginia Commonwealth University, Richmond, VA
- 51)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
- 52)2018 *Diet, Obesity, and Cardiovascular Disease*  
School of Pharmacy – Elective Cardiology course  
Virginia Commonwealth University, Richmond, VA
- 53)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
- 54)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/>
- 55)2017 *SGLT2 inhibitors for the prevention of cardiovascular events in diabetes*  
Division of General Internal Medicine Grand Rounds  
Virginia Commonwealth University, Richmond, VA
- 56)2017 *The Mediterranean Diet*  
YMUN faculty development program

- Virginia Commonwealth University, Richmond, VA
- 57)2017 *Obesity, Obesity Paradox and Ongoing Research*  
YMUN faculty development program  
Virginia Commonwealth University, Richmond, VA
- 58)2017 *Diet and Cardiovascular Disease*  
Clinical Research Service Unit for Nutrition Month Series  
Virginia Commonwealth University, Richmond, VA
- 59)2017 *Diet, Cardiovascular Disease and Heart Failure*  
School of Pharmacy – Elective Cardiology course  
Virginia Commonwealth University, Richmond, VA
- 60)2017 *Obesity and Heart Failure*  
School of Pharmacy – Elective Cardiology course  
Virginia Commonwealth University, Richmond, VA
- 61)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
- 62)2017 *Obesity, Diet and Cardiorespiratory Fitness in HFpEF*  
Internal Medicine Research Conference  
Virginia Commonwealth University, Richmond, VA
- 63)2016 *The Mediterranean Diet*  
YMUN faculty development program  
Virginia Commonwealth University, Richmond, VA
- 64)2016 *Obesity, Obesity Paradox and Ongoing Research*  
YMUN faculty development program  
Virginia Commonwealth University, Richmond, VA
- 65)2016 *The Mediterranean Diet*  
YMUN faculty development program  
Virginia Commonwealth University, Richmond, VA

- 66)2016 *Obesity, Obesity Paradox and Ongoing Research*  
YMUN faculty development program  
Virginia Commonwealth University, Richmond, VA
- 67)2016 *Heart Failure: Research and Nutrition Implications*  
Dietetic Interns Series  
Virginia Commonwealth University, Richmond, VA
- 68)2015 *Obesity and Heart Failure*  
Heart Failure Conference Lecture Series  
Virginia Commonwealth University, Richmond, VA
- 69)2015 *Impact of Diet on Diabetes and Heart Risk*  
American Diabetes Association meeting  
Virginia Commonwealth University, Richmond, VA
- 70)2015 *Obesity and Heart Failure*  
Cardiology Core Lecture Series for General Cardiology  
Fellows  
Virginia Commonwealth University, Richmond, VA
- 71)2014 *Nutrition in the ICU*  
Coronary ICU Conference Series  
Virginia Commonwealth University, Richmond, VA
- 72)2014 *Obesity and Heart Failure*  
Dietetic Interns Series  
Virginia Commonwealth University, Richmond, VA
- 73)2014 *The Mediterranean Diet*  
School of World Studies,  
International Studies 101  
Virginia Commonwealth University, Richmond, VA
- 74)2013 *Interactive Lunch with the Dietitian*  
Italian Association of Clinical Diabetologists (AMD)  
Rome, Italy

**Grant support** (Active and Completed)

1. Sleep Extension to improve sleep Efficiency and quality of life in heart failure with Preserved ejection fraction: the SLEEP-HF pilot study. Sleep Research Society Foundation, 2023 SRSF Small Research Grant (2023-2024). This pilot study aims to implement sleep extension techniques to improve sleep efficiency and ultimately quality of life in patients with HFpEF. Active: \$4,998. *Role*: **Primary Mentor** (PI: Ahmed I Syed, MBBS, PhD student).
2. Chronic psychosocial stress and cardiovascular dysfunction in cancer survivorship. American Heart Association, Strategically Focused Research Networks (SFRN) (2023-2027). This multicenter study (VCU and Wake Forest) investigates the underlying molecular mechanism through which chronic psychosocial stress may worsen cardiac function in patients with cancer undergoing cancer-related therapies. It also investigates the effect of high-unsaturated fatty acids diet in a nonhuman primate model and the collects detailed dietary and physical activity data in human subjects. Active: \$4,432,614.00. *Role*: **Co-Investigator (Key Personnel)**.
3. Targeting Trimethylamine N-Oxide for Cardiovascular Health in Liver Transplant Recipients. VCU Pauley Heart Center and the Stravitz-Sanyal Institute for Liver Disease & Metabolic Health, Pauley Heart Center Pilot Project (3/1/2023-9/1/2024). This prospective randomized controlled trial investigates the effects of extra-virgin olive oil supplementation on trimethylamine N-Oxide and vascular function in liver transplant recipients. Active: \$50,000 (no salary support). *Role*: **Co-Principal Investigator**.
4. Prehabilitation to mitigate frailty before kidney transplantation. Department of Internal Medicine, VCU. This prospective study investigates the effects of renal rehab to improve frailty in patients before undergoing kidney transplantation. Active: \$30,000 (no salary support). *Role*: **Co-Investigator (Key Personnel)**.
5. Development and evaluation of a theory-driven, wearable, technology-facilitated intervention to promote adherence to home-based cardiac rehabilitation among underserved patients with heart failure: A pilot study. Center for Clinical and Translational Research. Completed: \$49,187 (no salary support). *Role*: **Co-Investigator (Key Personnel)**.
6. Translation of Evidence-Based Diabetes Care into Clinical Practice Across a Large Medical Group. Boehringer Ingelheim, Boehringer Ingelheim-Competitive External Collaborative Award (6/1/22 - 5/31/23). Observational analysis of large medical records to investigate the prescription of cardioprotective medications in patients with type 2 diabetes mellitus. Completed: \$200,813. *Role*: **Co-Investigator (Key Personnel)**.

7. Unsaturated Fatty Acids to Improve Cardiorespiratory Fitness in Patients with Obesity and HFpEF. American Heart Association, Career Development Award 19CDA34660318 2019-2022 (2022-2023 no-cost extension). 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. Completed: \$231,000. *Role*: **Principal Investigator**.
8. 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. Completed. *Role*: **Co-Investigator**.
9. 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**.
10. 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**.
11. 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. Completed: \$330,000 (no salary support). Principal Investigator: Francesco Celi, MD, MHSc. *Role*: **Co-Principal Investigator**.
12. 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. Completed: \$809,347. Principal Investigator: Antonio Abbate, MD, PhD. *Role*: **Co-Principal Investigator**.
13. 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**.

14. 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**.
15. 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 Institutes of Health – NIA. R21AG053654-01 – 2016-2018. Completed. Principal Investigator: Fadi Salloum, PhD. *Role*: **Co-Investigator**.
16. 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**.
17. Interleukin-1 blockade in acute myocardial infarction. Summary: Randomized clinical trial enrolling patients with ST-segment elevation acute myocardial infarction treated with anakinra, an 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 Institutes of Health 2014-2017. Active: \$652,839. Principal Investigators: Antonio Abbate, MD, PhD; Benjamin Van Tassell, PharmD. *Role*: **Co-Investigator**.
18. 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, an IL-1 antagonist, or placebo for 12 weeks. Primary endpoint: interval change in aerobic exercise capacity. National Heart Blood Lung Institute, National Institutes of Health 2013-2015. Completed: \$694,433. Principal Investigators: Antonio Abbate, MD, PhD; Benjamin Van Tassell, PharmD. *Role*: **Co-Investigator**.
19. 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, an IL-1 antagonist, or placebo for 12 weeks. Primary endpoint: interval change in aerobic

exercise capacity. National Heart Blood Lung Institute, National Institutes of Health 2014-2016. Completed: \$607,858. Principal Investigators: Antonio Abbate, MD, PhD; Benjamin Van Tassel, PharmD. *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).
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2016	Faculty for the Study Abroad (Italy) for VCU Honor Students Program: "Discover Medicine in Italy" (Director: Antonio Abbate, MD, PhD):
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	<ul style="list-style-type: none"> <li>• Introduction to Translational Research, which included classrooms seminars, assigned reading and laboratory sessions</li> <li>• Introduction to Medical Semiotics, which included classrooms seminar, assigned reading and hands-on experience in the clinical setting.</li> </ul> <p>At the end of the 3-week program, the students developed a Research Proposal that involved a Translational Research Project.</p>
2017	<p>Program Director for the Study Abroad (Italy) for VCU Honor Students Program: "Discover Medicine in Italy":</p> <ul style="list-style-type: none"> <li>• Introduction to Translational Research, which included classrooms seminars, assigned reading and laboratory sessions</li> <li>• Introduction to Medical Semiotics, which included classrooms seminar, assigned reading and hands-on experience in the clinical setting.</li> </ul> <p>At the end of the 3-week program, the students developed a Research Proposal that involved a Translational Research Project.</p>
2017-present	Nutrition Research Rotation, Lead Preceptor for VCU Dietetic Interns.
2017-present	Cardio Nutrition Outpatient Clinic Rotation, Lead Preceptor for VCU Dietetic Interns.
2020 (Summer)	Mentor for American Heart Association Summer Fellowship for Undergraduate Students
2021 (Summer)	Mentor for American Heart Association Summer Fellowship for Undergraduate Students
2022 (Summer)	Mentor for American Heart Association Summer Fellowship for Undergraduate Students
2023 (Summer)	Mentor for American Heart Association Summer Fellowship for Undergraduate Students
2024 (Summer)	Mentor for American Heart Association Summer Fellowship for Undergraduate Students

**Courses Taught**

Virginia Commonwealth University:

1. **HPEX 345 (901 section):** Nutrition for Health and Disease (Fall 2019)
2. **HPEX 345 (901 section):** Nutrition for Health and Disease (Spring 2020)
3. **HPEX 345 (901 section):** Nutrition for Health and Disease (Fall 2020)
4. **REMS 692:** Independent Study (Spring 2020)
5. **HPEX 495:** Clinical Experience II (Spring 2020)
6. **HPEX 345 (901 section):** Nutrition for Health and Disease (Spring 2021)
7. **REMS 692:** Independent Study (Spring 2021)
8. **HPEX 345 (901 section):** Nutrition for Health and Disease (Fall 2021)
9. **HPEX 345 (902 section):** Nutrition for Health and Disease (Fall 2021)
10. **REMS 692:** Independent Study (Fall 2021)
11. **HEMS 797:** Directed Research Study (Fall 2021)
12. **HEMS 600 (901 section):** Introduction to Research Design in Health and Movement Sciences (Spring 2022)
13. **HPEX 345 (901 section):** Nutrition for Health and Disease (Fall 2022)
14. **HEMS 600 (901 section):** Introduction to Research Design in Health and Movement Sciences (Spring 2023)
15. **HPEX 345 (901 section):** Nutrition for Health and Disease (Fall 2023)
16. **HEMS 600 (901 section):** Introduction to Research Design in Health and Movement Sciences (Spring 2024)

**Service to the Community, Department, and the University**

2013-present	Peer-Reviewer, <i>PLoS ONE</i>
2015-present	Peer-Reviewer, <i>BMC Cardiovascular Disorders, Histology and Histopathology, Journal of Human Nutrition &amp; Food Science</i>
2015-present	Editorial Board Member, <i>Immunoendocrinology</i>
2015-2024	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, <i>Metabolism Clinical and Experimental</i>
2017-present	Poster Professor, American Society for Parenteral and Enteral Nutrition (ASPEN), Clinical Nutrition Week 2017
2017-present	Peer-Reviewer, <i>Austin Journal of Nutrition and Metabolism, Journal of Nutrition, Mayo Clinic Proceedings: Innovations, Quality &amp; Outcomes, Motriz, Journal of Physical Education, European Journal of Clinical Investigation, Heart and Circulation, Mayo Clinic Proceedings</i>
2017-present	Editorial Board Member, <i>GSL Journal of Cardiovascular Disease, EC Cardiology</i>

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, <i>Advances in Nutrition, Diabetes/Metabolism Research and Reviews, BMC Nutrition, Journal of the American Heart Association, Diabetes/Metabolism: Research &amp; 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</i>
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, <i>Diabetes/Metabolism: Research &amp; Reviews</i>
2019-present	Peer-Reviewer, <i>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 &amp; Metabolism, International Journal of Obesity.</i>
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>
2019-present	Data Safety and Monitoring Board (DSMB) Member for VCU IRB HM20003329: Phase I Functional magnetic resonance

imaging (fMRI) pharmacodynamic studies of compounds for Opioid Use Disorder and Cocaine Use Disorder (Bjork, PI); and VCU IRB HM15289: 5-HT2AR: 5HT2CR Balance in Brain Connectivity in Cocaine Dependence (Moeller, PI)

2020-present Co-Editor, *Diabetes Diabetes/Metabolism: Research & Reviews (DMRR)*

2020-present Peer-Reviewer, *Journal of the American College of Cardiology, European Heart Journal, Journal of Parenteral and Enteral Nutrition, The American Journal of Clinical Nutrition, Journal of Diabetes Investigation, 'Applied Physiology, Nutrition, and Metabolism', Journal of Clinical Medicine, Vascular Medicine, BMC Geriatrics, Journal of the American Geriatrics Society*

2020-present Guest Editor, *Nutrients*. Special Issue: Role of Nutrition, Physical Activity and Exercise Training on Frailty

2020-present Member of the ASPEN COVID-19 Task Force on Nutrition Research

2020-present Editorial Board Member, *Frontiers in Clinical Diabetes and Healthcare*

2020-present Editorial Board Member, Topic Editor, *Nutrients*

2020 Poster Professor, American Heart Association 2020 Scientific Session

2021-present Peer-Reviewer, *JAMA Cardiology, Circulation, iScience (Cell Press), European Journal of Clinical Nutrition*

2021-present Associate Editor, *Frontiers in Clinical Diabetes and Healthcare*

2021-present Oral Session Chair, American Society for Nutrition 2021 Conference

2021-present Group Leader, Abstract Review Committee, Malnutrition Section, American Society for Parenteral and Enteral Nutrition (ASPEN).

2021-present Grant Reviewer, Career Development Awards, American Heart Association

2021-present Grant Reviewer, Rhoads Foundation Grants, ASPEN

2021-present Director, Nutrition Therapy, Renal Rehab, VCU

2022- Grant Reviewer, Early Career Reviewer (ERC) Program, Nutrition and Metabolism in Health and Disease (NMHD) Study Section, National Institutes of Health

2022-present Peer-Reviewer, *Hypertension, Obesity, The American Journal of Cardiology*.

2022-present Editorial Board, *JACC: Heart Failure*.

2022 Poster Professor, American Heart Association 2022 Scientific Session: Exercise, Physical Activity and Cardiovascular Health in the COVID-19 Era

2023-present Peer-Reviewer, *JACC: CardioOncology*, '*Arteriosclerosis, Thrombosis, and Vascular Biology*', *Journal of Cardiac Failure*.

2023 Moderator, American Society for Parenteral and Enteral Nutrition (ASPEN) Conference, Diversity, Equity and Inclusion in Clinical Nutrition and Research, Las Vegas, NV

2022 Program Committee Member, American Society for Parenteral and Enteral Nutrition (ASPEN) 2023 Conference

2023 Program Committee Member, American Society for Parenteral and Enteral Nutrition (ASPEN) 2024 Conference

2023 Co-Chair, KHS Strategic Goals Committee, Fostering Research Excellence and Innovation

2023 Member, KHS Strategic Goals Committee, Promotion and Tenure Guidelines

2023 Chair, Oral Presentation Session, American Society for Nutrition (ASN) 2023 Conference

2023 Chair and Moderator, Energy & Macronutrient Metabolism Research Interest Section dedicated Session at the ASN 2023 Conference

2024-present Peer-Reviewer, *ESC Heart Failure*

2024-present Grant Reviewer, CEREC (CTSA External Reviewers Exchange Consortium)

2024 Program Committee Member, Heart Failure Society of America (HFSA) 2024 Conference

2024 Abstract Review Committee, American College of Cardiology (ACC) 2024 Conference

### **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

2019 Future Leader, Heart Failure Society of America

2021 Highly Cited Author, Mayo Clinic Proceedings 2021

2021-2022	Chair-elect, Energy & Macronutrient Metabolism Research Interest Section, American Society for Nutrition
2022-2023	Chair, Energy & Macronutrient Metabolism Research Interest Section, American Society for Nutrition
2023-2024	Past Chair, Energy & Macronutrient Metabolism Research Interest Section, American Society for Nutrition
2021-	Planning Committee Member, GOURMET-VA trial (largest randomized controlled trial ever performed with diet and heart failure) (no salary support).
2021-	Fellow (FHFA), Heart Failure Society of America (HFSA)
2022-	Grant Reviewer, Early Career Reviewer (ERC) Program, Nutrition and Metabolism in Health and Disease (NMHD) Study Section, National Institutes of Health
2022	Expertscape, expertise in cardiorespiratory fitness: Ranked #5 <u>worldwide</u>
2022	Expertscape, expertise in obesity: Ranked #9 <u>worldwide</u>
2022	Expertscape, expertise in obesity paradox: Ranked #5 <u>worldwide</u>
2022	Expertscape, expertise in nutrition disorders: Ranked #16 <u>worldwide</u>
2022	Expertscape, expertise in body composition: Ranked #28 <u>worldwide</u>
2022	Ranked Top 2% of Scientist within their Field by Stanford University
2023	Jay N Cohn (JNC) New Investigator Award, HFSA Annual Scientific Meeting
2023-	Fellow (FASPEN), American Society for Parenteral and Enteral Nutrition (ASPEN)
2024-	Grant Reviewer, Clinical Integrative Cardiovascular and Hematological Science (CCHS) Study Section, National Institutes of Health

## **PUBLICATIONS IN JOURNALS**

*Total publications: 175 (including in press)*

*Google Scholar citations: 9,643*

*Google Scholar H-index: 47*

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

Google scholar: <https://scholar.google.com/citations?hl=en&user=BFi5EiMAAAAJ>

1. Kirkman DL, Kidd JM, **Carbone S**, Pontinha VM, Tanriover B, Kumar D, Gupta G. Frailty and Prehabilitation: Navigating the Road to a Successful Kidney Transplant. *J Am Soc Nephrol* 2024. In press.
2. Henson BD, Bale-Neary CA, Mecaskey R, Gbujie O, Zhan M, Rao K, **Carbone S**. SGLT2 Inhibitors, Malnutrition, Cachexia, and Survival in Heart Failure Patients with a History of Anthracycline Treatment. *J Cardiovasc Pharmacol* 2024. In press. Corresponding Author.
3. Simovic T, Matheson C, Cobb K, Heefner A, Thode C, Colon M, Tunon E, Billingsley H, Salmons H, Ahmed SI, **Carbone S**, Breland A, Cobb C, Nana-Sinkam O, Rodriguez-Miguel P. Young Users Of Electronic Cigarettes Exhibit Reduced Cardiorespiratory Fitness. *J Appl Physiol* 2024. In press.
4. Dixon DL, **Carbone S**. Is Metformin Cardioprotective? A New Piece to the Puzzle. *J Cardiovasc Pharmacol* 2024. In press. Invited Editorial.
5. Mirzai S, Persits I, Kazibwe R, Gabani M, Seals A, Singleton MJ, Rikhi R, Chevli P, **Carbone S**, Tang WKW, Herrington D, Yeboah J, Kitzman DW, Shapiro MD. Relationship Between Sarcopenia and the Safety and Efficacy of Intensive Blood Pressure Control: A Secondary Analysis of the SPRINT Trial. *Hypertension* 2024. In press.
6. **Carbone S**, Abbate A. Inflammation and Cardiorespiratory Fitness in HFpEF: A Decade of Progress. *JACC Heart Failure* 2024;12(7):1270-1273. Corresponding Author. Invited Editorial.
7. Mirzai S, **Carbone S**, Batsis JA, Kitzman DW, Shapiro MD. Sarcopenic Obesity and Cardiovascular Disease: An Overlooked but High-Risk Syndrome. *Current Obesity Reports* 2024;13(3):532-544.
8. Lavie CJ, **Carbone S**, Slipczuk L. Physical Activity With or Without Dietary Intervention for the Prevention of Cardiovascular Diseases. *J Sport Health Sci* 2024;13(6):753-755. Invited Editorial.
9. Salahshurian E, Pozehl BJ, Lundgren SW, Bills S, Pandey A, **Carbone S**, Alonso WW. "Working me to life" - Longitudinal Perceptions from Adults with Heart Failure with Preserved Ejection Fraction Enrolled in an Exercise Training Clinical Trial. *Eur J Cardiovasc Nurs* 2024. In press.

10. **Carbone S**, Pozzilli P. Chrononutrition in Cardiometabolic Diseases: Current Evidence and Future Perspectives. *Diabetes Metab Res Rev* 2024;40(2):e3779. Invited Editorial. Corresponding Author.
11. Billingsley HE, Heiston EM, Bellissimo MP, Lavie CJ, **Carbone S**. Nutritional Aspects to Cardiovascular Diseases and Type 2 Diabetes Mellitus. *Curr Cardiol Rep* 2024; 26(3):73-81. Invited Review. Corresponding Author.
12. **Carbone S**, Abbate A. SGLT2 inhibitors in Patients Admitted for Acute Heart Failure: The Earlier the Better. *Am J Card* 2024;214:177-179. Corresponding Author.
13. Moroni F, Corna G, Del Buono MG, Golino M, Talasaz AH, Decotto S, Markley R, Trankle C, Biondi-Zoccai G, **Carbone S**, Agatiello CR, Van Tassell BW, Abbate A. Impact of C-Reactive Protein Levels and Role of Anakinra in Patients with ST-Elevation Myocardial Infarction. *Int J Cardiol* 2023. In press.
14. Alebna PL, Metha A, Yehya A, daSilva-deAbreu A, Lavie CJ, **Carbone S**. Update on Obesity, the Obesity Paradox, and Obesity Management in Heart Failure. *Prog Cardiovasc Dis* 2024;82:34-42. Invited Review. Corresponding Author.
15. Billingsley HE, St-Onge MP, Alonso W, Kirkman DL, Kim Y, **Carbone S**. Time of Eating and Mortality in U.S. Adults with Heart Failure: Analyses of the National Health and Nutrition Examination Survey 2003- 2018. *Nutr Metab Cardiovasc Dis* 2024;34(2):445-454. Co-corresponding Author.
16. Jafree E, Del Buono MG, Canada JM, **Carbone S**, Kron J, Arena R, Van Tassell B, Abbate A, Trankle CR. Interleukin-1 Inhibition for the Prevention and Treatment of Heart Failure. *J Cardiovasc Pharmacol* 2024;83(6):522-530. Invited Review.
17. Ahmed SI, Kenyon J, Billingsley HE, Salmons H, Bohmke NJ, Markley R, Kirkman DL, Abbate A, Kim Y, **Carbone S**. Objectively Measured Nighttime Sleep Efficiency and Quality of Life in Patients with Heart Failure with Preserved Ejection Fraction. *Am J Card* 2023;208:124-125. Corresponding Author.
18. Golino M, Moroni F, **Carbone S**, Corna G, Trankle C, Billingsley HE, Del Buono MG, Talasaz AH, Thomas GK, De Ponti R, Turlington J, Markley R, Arena R, Canada JM, Van Tassell BW, Abbate A. Differential Response to Interleukin-1 Blockade with Anakinra on Cardiorespiratory Fitness in Patients with HFpEF Stratified According to LVEF. *J Am Heart Assoc* 2023;12(18):e031251.



19. Bellissimo M, **Carbone S**, He J, Jordan JH, Ambale-Venkatesh B, Lima JA, LaRose JG, Salloum FN, Bandyopadhyay D, Hundley WG. Higher diet quality relates to better cardiac function in cancer survivors: The Multi-Ethnic Study of Atherosclerosis. *Prog Cardiovasc Dis* 2023;81:10-16.
20. Salmons H, Ahmed SI, Billingsley HE, Markley R, Damonte JI, Del Buono MG, Kirkman DL, Bohmke NJ, Franco RL, Garten R, Makkiya M, Abbate A, **Carbone S**. Skeletal Muscle Quality, Measured via Phase Angle, and Cardiorespiratory Fitness in Patients with Obesity and Heart Failure with Preserved Ejection Fraction. *Nutrition* 2023;116:112163. Corresponding Author.
21. Moroni F, Golino M, **Carbone S**, Trankle C, Del Buono MG, Talasaz A, Arena R, Canada JM, Biondi-Zoccai G, Van Tassell B, Abbate A. Interleukin-1 blockade in Patients with Heart Failure: An On-Treatment and Off-Treatment Cardiorespiratory Fitness Analysis. *ESC Heart Fail* 2023;10(5):3199-3202.
22. Golino M, Moroni F, Del Buono MG, Canada JM, Talasaz AH, Piñel S, Mbualungu J, Vecchiè A, Ho ACJ, Thomas GK, **Carbone S**, Billingsley HE, Turlington J, Markley R, Trankle C, De Ponti R, Van Tassell BW, Abbate A. Change in Eosinophil Count in Patients with Heart Failure Treated with Anakinra. *Cells* 2023;12(8):1129.
23. Ahmed SI, **Carbone S**. Energy Restriction or Improvements in Diet Quality: Identifying the Best Pathway for a Longer and Healthier Life. *Minerva Cardiol Angiol* 2023. In press. Invited Review. Corresponding Author.
24. **Carbone S**, Elagizi A, Lavie CJ. Better Pharmacotherapy in Heart Failure with Reduced Ejection Fraction May Partly Explain the Obesity Paradox. *Eur J Heart Fail* 2023;25(5):711-713. Invited Editorial.
25. Markley R, Del Buono MG, Mihalick V, Pandelidis A, Trankle C, Jordan JH, Decamp K, Winston C, **Carbone S**, Billingsley H, Barron A, Thomas G, Van Tassel B, Hundley WG, Kellman P, Abbate A. Abnormal left ventricular subendocardial perfusion and diastolic function in women with obesity and heart failure and preserved ejection fraction. *Int J Cardiovasc Imaging* 2023;39(4):811-819.
26. **Carbone S**, DaSilva-deAbreu A, Lavie CJ. Weighing in on Weight Loss in Heart Failure with Reduced Ejection Fraction. *Eur J Heart Fail* 2023;25(1):128-130. Invited Editorial.
27. Thomas GK, Del Buono MG, Damonte JI, Moroni F, Mihalick V, Billingsley HE, Vecchiè A, Trankle CR, Talasaz A, **Carbone S**, Markley R, Turlington J, Duncan P,

- Lu J, Arena R, Van Tassel BW, Abbate A, Canada JM. Contribution of Hemoglobin Concentration to Cardiorespiratory Fitness in Black/African-American Patients with Recently Decompensated Heart Failure and Reduced Ejection Fraction. *Minerva Cardiol Angiol* 2023;71(4):456-462.
28. Rodriguez-Miguel P, Heefner A, **Carbone S**. Recognizing Risk Factors Associated with Poor Outcomes Among Patients with Covid-19. *Prog Cardiovasc Dis* 2023;76:3-11. Invited Review.
29. Blanks AM, Pedersen LN, Caslin HL, Mihalick VL, Via J, Canada JM, Van Tassel B, **Carbone S**, Abbate A, Franco RL. LPS Differentially Affects Expression of CD14 and CCR2 in Monocyte Subsets of Post-STEMI Patients with Hyperglycemia. *Diabetes Res Clin Pract* 2022;191:110077.
30. Romeo F, Del Buono MG, Aguilar-Gallardo JS, Lorente-Ros M, Dixon DL, Biondi-Zoccai G, Abbate A, **Carbone S**. Cardiac Remodeling with SGLT2 inhibitors in Heart Failure with Reduced Ejection Fraction: A Systematic Review and Meta-analysis of Randomized Controlled Trials. *Minerva Cardiol Angiol* 2022. In press. Corresponding Author.
31. Billingsley HE, Del Buono MG, Canada JM, Kim Y, Damonte JI, Trankle CR, Halasz G, Mihalick V, Vecchié A, Markley R, Kadariya D, Bressi E, Medina de Chazal H, Chiabrando JG, Mbualungu J, Turlington J, Arena R, Van Tassel BW, Abbate A, **Carbone S**. Sarcopenic Obesity Is Associated With Reduced Cardiorespiratory Fitness Compared With Nonsarcopenic Obesity in Patients With Heart Failure With Reduced Ejection Fraction. *Circ Heart Fail* 2022;15(10):e009518. Co-corresponding Author.
32. Kim Y, Canada JM, Kenyon J, Billingsley HE, Arena R, Lavie CJ, **Carbone S**. Physical Activity, Sedentary Behaviors and All-Cause Mortality in Patients with Heart Failure: Findings from the NHANES 2007-2014. *PLoS One* 2022;17(7):e0271238. Corresponding Author.
33. Bohmke N, Billingsley HE, Kirkman DL, **Carbone S**. Non-pharmacological Strategies in Heart Failure with Preserved Ejection Fraction. *Cardiol Clin* 2022;40(4):491-506. Co-corresponding author. Invited Review.
34. **Carbone S**. Intramuscular and Intermuscular Adipose Tissue in Older Adults: Non-Cardiac Body Composition Depots and the Risk for Heart Failure. *JACC Heart Failure* 2022;10(7):494-497. Corresponding Author. Invited Editorial.

35. Kim Y, Canada JM, Kenyon J, Billingsley HE, Arena R, Lavie CJ, **Carbone S**. Effects of Replacing Sedentary Time with Physical Activity on Mortality Among Patients with Heart Failure: National Health and Nutrition Examination Survey Follow-Up Study. *Mayo Clin Proc* 2022;97(10):1897-1903. Corresponding author.
- **Carbone S**, Lavie CJ, Elagizi A, Arena R, Ventura H. The Impact of Obesity in Heart Failure. *Cardiol Clin* 2022;40(2):209-218. Corresponding Author. Invited Review. originally appeared in *Heart Fail Clin* 2020;16(1):71-80 (not counting for total # of publications due to being a duplicate publication from *Heart Fail Clin* 2020).
36. Mihalick V, Wohlford GW, Talasaz A, Ho Ai-Chen, Kim Francine; Canada JM; **Carbone S**, Kadariya D, Billingsley HE, Trankle CR, Del Buono MG, Moroni F, Abbate A, Arena R, Van Tassell BW. Improvement in Patient Perceptions of Exertion and Dyspnea with Interleukin-1 Blockade in Patients with Recently Decompensated Systolic Heart Failure. *Am J Card* 2022;174:61-67.
37. Billingsley HE, Canada JM, Dixon DL, Kirkman DL, Bohmke N, Rotelli B, Kadariya D, Markley R, Van Tassell BW, Celi FS, Abbate A, **Carbone S**. Midpoint of Energy Intake, Non-fasting Time and Cardiorespiratory Fitness in Heart Failure with Preserved Ejection Fraction and Obesity. *Int J Cardiol* 2022;355:23-27. Corresponding author.
38. Driggin E, Cohen LP, Gallagher D, Karmally W, Maddox T, Hummel SL, **Carbone S**, Maurer M. Nutrition Assessment and Dietary Interventions in Heart Failure: JACC: Review Topic of the Week. *J Am Coll Cardiol* 2022;79(16):1623-1635.
39. Billingsley HE, Dixon DL, Yehya A, **Carbone S**, Abbate A. Sleeve Gastrectomy Reduces BMI and Pill Count in Patients with LVAD. *J Cardiovasc Pharmacol* 2022;79(5):644-645. Invited Editorial.
40. Chen S, Wohlford G, Vecchie' A, **Carbone S**, Yavuz S, Van Tassell BW, Abbate A, Celi FS. Acute effects of liothyronine administration on cardiovascular system and energy metabolism in healthy volunteers. *Front Endocrinol (Lausanne)* 2022;13:843539.
41. Del Buono MG, Damonte JI, Trankle CR, Kadariya D, **Carbone S**, Thomas G, Turlington J, Markley R, Canada JM, Biondi-Zoccai G, Kontos MC, Van Tassell BW, Abbate A. Effect of Interleukin-1 Blockade with Anakinra on Leukocyte Count in Patients With ST-Segment Elevation Acute Myocardial Infarction. *Sci Rep* 2022;12(1):1254

42. Kirkman DL, Lee DC, **Carbone S**. Resistance Exercise for Cardiac Rehabilitation. *Prog Cardiovasc Dis* 2022;70:66-72. Invited Review. Corresponding author.
43. Canada JM, Weiss E, Grizzard JD, Trankle CR, Rezai Gharai L, Buckley LF, **Carbone S**, Kadariya D, Ricco A, Jordan JH, Evans RK, Garten RS, Van Tassell BW, Hundley WG, Abbate A. Influence of Extracellular Volume Fraction on Peak Exercise Oxygen Pulse Following Thoracic Radiotherapy. *CardioOncology* 2022;8(1):1.
44. Lavie CJ **Carbone S**, Neeland IJ. Taking the Obesity Paradox to New Heights in Cerebral Atherosclerosis. *J Stroke Cerebrovasc Dis* 2022;31(4):106325. Invited Editorial.
45. Patel KV, Segar MW, Lavie CJ, Kondamudi N, Neeland IJ, Almandoz JP, Martin CK, **Carbone S**, Butler J, Powell-Wiley TM, Pandey A. Diabetes Status Modifies the Association Between Different Measures of Obesity and Heart Failure Risk Among Older Adults: A Pooled Analysis of Community-Based NHLBI Cohorts. *Circulation* 2022;145(4):268-278.
46. **Carbone S**, daSilvia-deAbreu A, Lavie CJ. The SGLT2 Inhibitor Dapagliflozin Improves Prognosis in Systolic Heart Failure Independent of the Obesity Paradox. *Eur J Heart Fail* 2021;23(10):1673-1676. Invited Editorial.
47. Del Buono MG, Montone RA, Camilli M, **Carbone S**, Narula J, Lavie CJ, Niccoli G, Crea F. Coronary Microvascular Dysfunction across the Spectrum of Cardiovascular Diseases: JACC State-of-the-Art Review. *J Am Coll Cardiol* 2021;78(13):1352-1371
48. Del Buono MG, Mihalick V, Damonte JI, Billingsley HE, Vecchiè A, Trankle CR, Kadariya D, Wohlford G, Ho Ai-Chen, Talasaz A, **Carbone S**, Markley R, Turlington J, Lu J, Federmann E, Arena R, Van Tassell BW, Abbate A, Canada JM. Preservation Of Cardiac Reserve And Cardiorespiratory Fitness In Patients With Acute *De Novo* Versus Acute On Chronic Heart Failure With Reduced Ejection Fraction. *Am J Cardiol* 2021;158:74-80
49. Arena R, Bond S, Romero Calvo I, Lebowicz L, Ozemek C, Severin R, Laddu D, Faghy MA, Lavie CJ, **Carbone S**, on behalf of the HL-PIVOT Network. Shelter from the cytokine storm: Healthy living is a vital preventative strategy in the COVID-19 era. *Prog Cardiovasc Dis* 2022;73:56-60.
50. Thomas G, Canada JM, Weiss E, Trankle CR, **Carbone S**, Garten R, Evans R, Van Tassell BW, Abbate A. Diastolic dysfunction contributes to impaired cardiorespiratory

fitness in patients with lung cancer and reduced lung function following chest radiation. *Lung* 2021;199(4):403-407.

51. Dixon DL, Billingsley HE, Canada JM, Trankle CR, Kadariya D, Cooke R, Hart L, Van Tassell B, Abbate A, **Carbone S**. Effect of Canagliflozin Compared to Sitagliptin on Serum Lipids in Patients with Type 2 Diabetes Mellitus and Heart Failure with Reduced Ejection Fraction. *J Cardiovasc Pharmacol* 2021;78(3):407-410.
52. Canada JM, Park TS, Ravindra K, Chiabrando JG, Del Buono MG, van Wezenbeek J, Trankle CR, Kadariya D, Keen L, **Carbone S**, Billingsley HE, Wohlford G, Arena R, Van Tassell B, Abbate A. Comparison of Cardiorespiratory Fitness in Black or African American Versus Caucasian Patients with Heart Failure. *J Cardiopulm Rehabil Prev* 2022;42(1):39-44.
53. Billingsley HE, Dixon DL, Canada JM, Kirkman D, Rotelli B, Kadariya D, Bohmke N, Markley R, Van Tassell BW, Celi FS, Abbate A, **Carbone S**. Time of Eating and Cardiorespiratory Fitness in Patients with Heart Failure with Preserved Ejection Fraction and Obesity. *Nutr Metab Cardiovasc Dis* 2021;31(8):2471-2473. Corresponding author.
54. **Carbone S**,\* Kim Youngdeok,\* Kachur K, Billingsley HE, Kenyon J, De Schutter A, Milani R, Lavie CJ. Peak Oxygen Consumption Achieved at the End of Cardiac Rehabilitation Predicts Long-Term Survival in Patients with Coronary Heart Disease. \* Equal contribution. *Eur Heart J Qual Care Clin Outcomes* 2022;8(3):361-367.
55. Cava E, Pichard C, Neri B, Carbonelli MG, Riso S, **Carbone S**. Obesity pandemic during COVID-19 outbreak: Narrative review and future considerations. *Clin Nutr* 2021;40(4):1637-1643.
56. Lefferts EC, Bakker EA, **Carbone S**, Lavie CJ, Lee DC. Associations of total and aerobic steps with the prevalence and incidence of frailty in older adults with hypertension. *Prog Cardiovasc Dis* 2021;67:18-25.
57. Van Tassell BW, Wohlford GF, Buckley LF, Kadariya D, Park T, Chiabrando JG, **Carbone S**, Mihalick V, Halquist MS, Percy A, Austin D, Gelber C, Abbate A. A phase 1 clinical trial of SP16, a first-in-class anti-inflammatory LRP1 agonist, in healthy volunteers. *PLoS One* 2021;16(5):e0247357.
58. Marawan A, Thomas GK, Canada JM, Billingsley HE, Dixon DL, Van Tassell BW, Kadariya D, Markley R, Rotelli B, Shah KB, Kang L, Celi FS, Abbate A, **Carbone S**. Edema Index Predicts Cardiorespiratory Fitness in Patients with Heart Failure with

Reduced Ejection Fraction and Type 2 Diabetes Mellitus. *J Am Heart Assoc* 2021;10(8):e018631. Corresponding author.

59. Lombardi M\*, **Carbone S\***, Del Buono MG, Chiabrando JG, Vescovo GM, Camilli M, Montone RA, Vergallo R, Abbate A, Biondi-Zoccai G, Dixon DL, Crea F. Omega-3 Fatty Acids Supplementation and Risk of Atrial Fibrillation: An Updated Meta-analysis of Randomized Controlled Trials. *Eur Heart J Cardiovasc Pharmacother* 2021;7(4):e69-e70. \*Equal contribution. Corresponding author.
60. Cava E and **Carbone S.** COVID-19 pandemic and alterations of body composition. *Curr Opin Clin Nutr Metab Care* 2021;24(3):229-235. Invited Review.
61. Kirkman DL, **Carbone S**, Canada JM, Trankle C, Kadariya D, Buckley L, Billingsley H, Kidd JM, Van Tassell BW, Abbate A. The Chronic Kidney Disease Phenotype of HFpEF: Unique Cardiac Characteristics. *Am J Cardiol* 2020;S0002-9149(20)31339-4.
62. Mauro AG, Bonaventura A, Vecchie' A, Mezzaroma E, **Carbone S**, Narayan P, Potere N, Cannata' A, Paolini JF, Bussani R, Montecucco F, Sinagra G, Van Tassell BW, Abbate A, Toldo S. The role of NLRP3 inflammasome in pericarditis: potential for therapeutic approaches. *JACC Basic Transl Sci* 2021;6(2):137-150.
63. Kirkman D, Bohmke N, **Carbone S**, Garten RS, Rodriguez-Miguel P, Franco RL, Kidd J, Abbate A. Exercise Intolerance in Kidney Diseases: Physiological Contributors and Therapeutic Strategies. *Am J Physiol Renal Physiol* 2021;320(2):F161-F173.
64. Mechanick JI, **Carbone S**, Dickerson RN, Hernandez BJD, Hurt RT, Irving SY, Li DY, McCarthy MS, Mogensen KM, Ochoa Gautier JB, Patel JJ, Prewitt TE, Rosenthal M, Warren M, Winkler MF, McKeever L. Clinical Nutrition Research and the COVID-19 Pandemic: A Scoping Review of the ASPEN COVID-19 Nutrition Taskforce. *JPEN J Parenter Enteral Nutr* 2021;45(1):13-31.
65. Wohlford GF, Van Tassell BW, Billingsley HE, Kadariya D, Canada JM, **Carbone S**, Mihalick V, Bonaventura A, Vecchié A, Chiabrando JG, Bressi E, Thomas G, Ho A, Marawan AA, Dell M, Trankle CR, Turlington J, Markley R, Abbate A. A Phase IB, Randomized, Double-Blinded, Dose Escalation, Single Center, Repeat-Dose Safety and Pharmacodynamics Study of Orally Administered Dapansutrole Capsules in Subjects with NYHA II-III Systolic Heart Failure. *J Cardiovasc Pharmacol* 2020;77(1):49-60.

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with Preserved Ejection Fraction due to Chronic Infusion of a Low Subpressor Dose of Angiotensin II. *Am J Physiol Heart Circ Physiol* 2015;309(5):H771-8.

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173. O'Brien L, Mezzaroma E, Van Tassell BW, Marchetti C, **Carbone S**, Abbate A, and Toldo S. Interleukin-18 as a therapeutic target in acute myocardial infarction and heart failure. *Mol Med* 2014;20(1):221-9. Review.
174. Toldo S, Mezzaroma E, Bressi E, Marchetti C, **Carbone S**, Sonnino C, Van Tassell BW, Abbate A. Interleukin-1 $\beta$  blockade improves left ventricular systolic/diastolic function and restores contractility reserve in severe ischemic cardiomyopathy in the mouse. *J Cardiovasc Pharmacol* 2014;64(1):1-6.
175. **Carbone S**, Shah KB, Van Tassell BW, Canada JM, Evans RK, Regan JA, Buzzetti R, and Abbate A. Obesity and Diastolic Heart Failure: Is Inflammation the Link? *Transl Med* 2013;3:e124. doi:10.4172/2161-1025.1000e124. Invited Editorial.

### **Manuscript under review or in preparation**

1. Billingsley HE, **Carbone S**, Hummel S. Dietary Interventions in Heart Failure with Preserved Ejection Fraction: A Scoping Review. Invited Review. *JACC: Advances*. Under review.
2. Lumish HS, Kim E, **Carbone S**, Miles CH, Reilly MP. Sex differences in and mediators of the relationship between body composition and cardiac structure and function. *Eur Heart J Cardiovasc Imaging*. Under review.
3. Driggin E, Nalbandian A, Lumish H, Maurer MS, Gallagher D, **Carbone S**. The Assessment of Body Composition in Heart Failure: State of the Field and Future Directions. Targeted Journal: *JACC: Heart Failure*. Under preparation.

### **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
  8. Toldo S, Mezzaroma E, Van Tassell BW, Mezzaroma E, **Carbone S**, Mauro AG, Salloum FN, Abbate A. "Disruption of Myeloid Differentiation Factor-88 Signaling Prevents the Formation of the Nlrp3 Inflammasome in the Heart in Acute Myocardial Infarction in the Mouse". *Circulation* 2014; 130: A18918. Poster presentation
  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
  12. Mauro AG, Mezzaroma E, Marchetti C, **Carbone S**, Sonnino C, Nordio A, Van Tassell BW, Salloum FN, Abbate A, Toldo S. "The NLRP3 inflammasome formation in the heart depends on NLRP3 triggering combined with priming". Italian Society of

Cardiology Annual Session 2014, Rome, Italy. Poster presentation

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
16. **Carbone S**, Mauro AG, Mezzaroma E, Kraskauskas D, Buzzetti R, Van Tassell BW, Abbate A, Toldo S. Western diet leads to the formation of the inflammasome in cardiac endothelial cells 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:S74
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
19. Lee PJ, Toldo S, Mauro AG, Regan JA, Kraskauskas D, Van Tassell BW, Abbate A, **Carbone S**. Interleukin 18 attenuates myocardial dysfunction in a model of obesity induced by Western diet. Poster presentation. *Canadian Journal of Cardiology* 2016;32(10):S143

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
23. Mauro AG, Mezzaroma E, Torrado JF, **Carbone S**, Van Tassell BW, Abbate A, Toldo S. A Novel Nlrp3 Inflammasome Inhibitor Prevents Acute Pericarditis in an Experimental Mouse Model. *Circulation* 2016;134 (Suppl 1):A15152-A15152. Poster presentation
24. **Carbone S**, Mauro AG, Mezzaroma E, Kraskauskas D, Ezouah P, Buckley LF, Buzzetti R, Van Tassell BW, Abbate A, Toldo S. NLRP3 Inflammasome Inhibitor Prevents Cardiac Dysfunction Induced by Western Diet in the Mouse. *Circulation* 2016;134 (Suppl 1):A20195-A20195. Poster presentation
25. **Carbone S**, Canada JM, Buckley LF, Trankle CR, Billingsley H, Dessie S, Kadariya D, Abouzaki NA, Christopher S, Thurber C, Dixon D, Buzzetti R, Van Tassell BW, Abbate A. Monounsaturated Fat Consumption is Associated with Cardiorespiratory Fitness in Patients with Heart Failure with Preserved Ejection Fraction. (ASPEN) Clinical Nutrition Week Conference (Orlando, FL) 2017. **Oral presentation**
26. **Carbone S**, Canada JM, Buckley LF, Trankle CR, Billingsley H, Dessie S, Kadariya D, Abouzaki NA, Thurber C, Dixon D, Buzzetti R, Van Tassell BW, Abbate A. Sugar Consumption Predicts Cardiorespiratory Fitness in Patients with Heart Failure with Preserved Ejection Fraction. (ASPEN) Clinical Nutrition Week Conference (Orlando, FL) 2017. Poster presentation
27. **Carbone S**, Mauro AG, Mezzaroma E, Kraskauskas D, Ezouah P, Van Tassell BW, Abbate A, Toldo S. Effects of High-saturated Fat Diet or High-sugar diet on Cardiac Function and Glucose Metabolism in The Mouse. (ASPEN) Clinical Nutrition Week

Conference (Orlando, FL) 2017. Poster presentation

28. **Carbone S**, Mauro AG, Mezzaroma E, Kraskauskas D, Ezouah P, Van Tassell BW, Abbate A, Toldo S. Effects of High-sugar diet on Cardiac Function and Glucose Metabolism in The Mouse. (ASPEN) Clinical Nutrition Week Conference (Orlando, FL) 2017. Poster presentation
29. **Carbone S**, Canada JM, Buckley LF, Trankle CR, Billingsley HE, Dixon DL, Mauro AM, Dessie S, Kadariya D, Mezzaroma E, Buzzetti R, Arena R, Van Tassell BW, Toldo S, Abbate A. Dietary Fat Consumption and Cardiorespiratory Fitness in Patients with Heart Failure with preserved Ejection Fraction. Association for Clinical and Translational Science (ACTS) National Conference (Washington DC), 2017. Poster presentation
30. Billingsley HE, **Carbone S**, Canada JM, Buckley LF, Dixon DL, Kadariya D, Dessie S, Van Tassell BW, Abbate A, Siddiqui M. Dietary Polyunsaturated Fatty Acid Consumption is Associated with Improved Body Composition in Nonalcoholic Steatohepatitis Patients. Association for Clinical and Translational Science (ACTS) National Conference (Washington DC), 2017. Poster presentation
31. Mauro AG, Mezzaroma E, Torrado J, **Carbone S**, Van Tassell BW, Abbate A, Toldo S. A novel NLRP3 inflammasome inhibitor prevents acute pericarditis in an experimental mouse model. Association for Clinical and Translational Science (ACTS) National Conference (Washington DC), 2017. Poster presentation
32. Mauro AG, Mezzaroma E, Torrado J, **Carbone S**, Van Tassell BW, Abbate A, Toldo S. Interleukin-1 $\alpha$  blockade reduce acute myocardial ischemic injury in the mouse. Association for Clinical and Translational Science (ACTS) National Conference (Washington DC), 2017. Poster presentation
33. Canada JM, Billingsley HE, Buckley LF, **Carbone S**, Kadariya D, Van Tassell BW, Abbate A, Siddiqui M. Cardiac Abnormalities Drive Exercise Intolerance in Patients with Non-Alcoholic Fatty Liver Disease. Association for Clinical and Translational Science (ACTS) National Conference (Washington DC), 2017. **Oral presentation (JMC)**
34. Buckley LF, Canada JM, **Carbone S**, Trankle CR, Viscusi MM, Regan J, Dixon DL, Abouzaki NA, Christopher S, Billingsley HE, Kadariya D, Arena R, Abbate A, Van Tassell BW. Ventriculo-arterial coupling and left ventricular mechanical work in systolic and diastolic heart failure. Association for Clinical and Translational Science (ACTS) National Conference (Washington DC), 2017. Poster presentation



35. **Carbone S**, Van Tassell BW, Abbate A, Canada JM, Buckley LF, Johns S, Kadariya D, Moelle FG. Dose dependent nature of cocaine infusions on cardiovascular hemodynamics. Association for Clinical and Translational Science (ACTS) National Conference (Washington DC), 2017. Poster presentation
36. Van Tassell BW, Canada JM, **Carbone S**, Trankle CR, Buckley LF, Oddi Erdle C, Abouzaki NA, Dixon DL, Kadariya D, Christopher S, Billingsley HE, Regan J, Bhatnagar A, Lesnefsky E, Abbate A. Interleukin-1 blockade in recently decompensated systolic heart failure: the recently decompensated heart failure anakinra response trial (REDHART). *Eur J Heart Fail* 2017;19 Suppl:368. **Oral presentation (BWVT)**
37. Wolver S, Konjeti VR, **Carbone S**, Abbate A, Puri P. Successful Weight Loss with Low Carbohydrate Ketogenic Diet (LCKD) Significantly Reduced Visceral Fat and Increased Fat Free Mass in Obese. *Gastroenterology* 2017;152(5) Suppl1:S831. Poster presentation
38. Dixon DL, Trankle CR, Buckley LF, **Carbone S**, Abbate A. Management of Obesity in Patients with Diastolic Dysfunction. Publication date. *J Am Coll Cardiol* 2017;11(69):2106. Poster presentation
39. Buckley LF, **Carbone S**, Trankle C, Christopher S, Regan J, Viscusi MM, Dixon DL, Abouzaki NA, Kadariya D, Arena R, Abbate A, Van Tassell BW. Arterial Elastance Drives Ventilatory Inefficiency in Systolic Heart Failure. *J Am Coll Cardiol* 2017;11(69):746. Poster presentation
40. Buckley LF, **Carbone S**, Trankle CR, Canada JM, Oddi Erdle C, Regan J, Viscusi MM, Kadariya D, Billingsley HE, Arena R, Abbate A, Van Tassell BW. Interleukin-1 Blockade Improves Left Ventricular Contractility in Acute Heart Failure without Increasing Myocardial Work. Acute Cardiac Unloading Symposium, ESC Premeeting. Poster presentation with Research Merit Scholarship (LFB)
41. Van Tassell BW, Canada JM, Buckley LF, **Carbone S**, Trankle CR, Del Buono M, Dixon DL, Kadariya D, Billingsley HE, Park TS, Vo C, Dessie S, Arena R, Abbate A. Interleukin-1 Blockade in Heart Failure with Preserved Ejection Fraction: The Diastolic Heart Failure Anakinra Response Trial-2 (D-HART2). American Heart Association Scientific Session 2017. Anaheim, CA. *Circulation* 2017;136 (Suppl 1):A17709-A17709. Poster presentation
42. Hongliang HE, Carl D, Gipson G, **Carbone S**, Dixon DL, Jovin I, Ghosh S. Impaired

Delivery of Cholesterol Effluxed From Macrophages to Hepatocytes by Serum Patients With Coronary Artery Diseases (CAD): A Novel and Measurable Risk Factor. American Heart Association Scientific Session 2017. Anaheim, CA. *Circulation* 2017;136 (Suppl 1):A15356-A15356. Poster presentation

43. Carl D, Gipson G, **Carbone S**, Dixon DL, Jovin I, Ghosh S Impaired delivery of cholesterol to hepatocytes by serum from CKD patients: Implications for the associated CVD risk. American Society of Nephrology (ASN) Kidney Week 2017 Annual Meeting. New Orleans, LA. Poster presentation.
44. Narayan P, **Carbone S**, Mauro AG, Mezzaroma E, Kraskauskas D, Adams WP, Kundur P, Ravindra K, Van Tassell BW, Abbate A, Toldo S. Interleukin-18 Binding Protein Improves Cardiac Function in a Mouse Model of Western-diet Induced Cardiomyopathy. American Heart Association Scientific Session 2017. Anaheim, CA. *Circulation* 2017;136 (Suppl 1):A18804-A18804 Poster presentation
45. **Carbone S**, Canada JM, Buckley LF, Trankle CR, Del Buono M, Dixon DL, Kadariya D, Billingsley HE, Park TS, Vo C, Dessie S, Buzzetti R, Arena R, Van Tassell BW, Abbate A. BMI is an Independent Determinant of Exercise Intolerance in Obese Patients with Heart Failure with Preserved Ejection Fraction. The Obesity Society (TOS) Annual Meeting 2017. Washington DC. Poster presentation
46. Billingsley H, **Carbone S**, Canada JM, Buckley LF, Trankle CR, Dixon DL, Kadariya D, Dessie S, Van Tassell BW, Abbate A. Serum Monounsaturated Fatty Acids are associated with lower Fat Mass in Obese Subjects with Heart Failure with Preserved Ejection Fraction. Nutrition 2018. American Society for Nutrition Annual Meeting Boston. Poster presentation
47. Buckley LF, **Carbone S**, Trankle CR, Canada JM, Viscusi MM, Regan J, Kadariya D, Billingsley HE, Arena R, Abbate A, Van Tassell BW. Interleukin-1 Blockade Improves Left Ventricular Performance in Decompensated Heart Failure Without Increasing Myocardial Work. *J Am Coll Cardiol* 2018; 71(11):A872. Poster presentation
48. Trankle CR, Canada JM, **Carbone S**, Buckley LF, Del Buono MG, Christopher S, Kadariya D, Chau V, Abouzaki NA, Arena R, Van Tassell BW, Abbate A. Interleukin-1 Blockade Reduces Nt-Probnp Serum Levels In Patients With Stable Heart Failure With Preserved Ejection Fraction. *J Am Coll Cardiol* 2018; 71(11):A869. Poster presentation
49. Van Tassell BW, Wohlford G, Kim F, Canada JM, **Carbone S**, Kadariya D, Billingsley HE, Trankle CR, Buckley LF, Dixon DL, Viscusi MM, Del Buono MG, Medina

- H, Arena R, Abbate A. Interleukin-1 Blockade Reduces Patient Perceptions of Exertion and Dyspnea Among Patients With Recently Decompensated Systolic Heart Failure: A Subgroup Analysis Of The Redhart Trial. *J Am Coll Cardiol* 2018; 71(11):A968. Poster presentation
50. Van Tassell BW, Viscusi MM, Del Buono MG, Canada JM, **Carbone S**, Trankle CR, Buckley LF, Lesnefsky E, Arena R, Abbate A. Anakinra Improves Exercise Peak Aerobic Capacity In Patients With Recently Decompensated Systolic Heart Failure. *Vascular Pharmacology* 2018;103–105:47. Poster presentation
51. Mauro AG, **Carbone S**, Regan JA, Narayan P, Mezzaroma E, Ghosh SS, Abbate A, Toldo S. Interleukin-18 Mediates Cardiac Diastolic Dysfunction in a Mouse Model of Heart Failure With Preserved Ejection Fraction Induced by Infusion of Angiotensin II. *Circulation* 2018;138:A11488. **Rapid Fire Oral Presentation (AGM)**
52. van Wezenbeek J, Canada JM, **Carbone S**, Kadariya D, Buckley LF, Trankle CR, Ravindra K, Del Buono M, Billingsley HE, Viscusi M, Arena R, Markley R, Van Tassell BW, Abbate A. Clinical Determinants of Cardiorespiratory Fitness in Patients With Heart Failure Across a Wide Range of Ejection Fraction. *Circulation* 2018;138:A11749. Poster presentation
53. van Wezenbeek J, Canada JM, **Carbone S**, Kadariya D, Buckley LF, Trankle CR, Ravindra K, Del Buono M, Billingsley HE, Viscusi M, Arena R, Van Tassell BW, Markley R, Abbate A. Complementary Predictive Roles of C-Reactive Protein and N-Terminal Pro-Brain Natriuretic Peptide Levels for Cardiorespiratory Fitness in Patients With Heart Failure Across a Wide Range of Ejection Fraction. *Circulation* 2018;138:A11752. Poster presentation
54. Buckley LF, Canada JM, **Carbone S**, Trankle CR, Billingsley HE, Abbate A, Van Tassell BW. Interleukin-1 is a Critical Mediator of Systemic Inflammation in Patients With Heart Failure and Chronic Kidney Disease: A Post-Hoc Substudy of the Recently Decompensated Heart Failure - Anakinra Remodeling Trial. *Circulation* 2018;138:A13404. Poster presentation
55. Canada JM, Abbate A, Collen R, Billingsley HE, Buckley LF, **Carbone S**, Trankle CR, Michael I, Kadariya D, Medina de Chazal H, Van Tassell BW, Sanyal AJ, Siddiqui MS. Diastolic Dysfunction and Exercise Intolerance Are Linked to Severity of Hepatic Fibrosis in Nonalcoholic Fatty Liver Disease. *Circulation* 2018;138:A14124. Poster presentation

56. Kadariya D, Canada JM, van Wezenbeek J, **Carbone S**, Trankle CR, Buckley LF, Medina de Chazal H, Wohlford G, Billingsley HE, Viscusi M, Del Buono M, Ravindra K, Markley R, Arena R, Van Tassel BW, Abbate A. Oxygen Consumption Recovery Delay After Maximal Exercise Predicts Heart Failure Hospitalization. *Circulation* 2018;138:A14365. Poster presentation
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### **Book Chapters**

- 2020 Malattie cardiovascolari: approccio clinico e scientifico (Cardiovascular Diseases: Clinical and Scientific Approaches). Book. Chapter: Metabolic Syndrome: Diagnosis, Prognosis and Treatment. **Carbone S**, Carbone MP, Abbate A. ISBN-10: 8855320661. ISBN-13: 9788855320665.
- 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**. ISBN: 9788896646465. Preview published on:  
<http://www.masteralimentazione.eu/doc/pubblicazioni/abstract/Estratto.pdf>
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### **Acknowledgments, contributions, and additional information**

- 2022 Yehya A. Challenges of the LGBT Community in Health Care: Focus on Heart Failure. *J Card Fail* 2022;28(3):499-502. *The author thanks Dr **Salvatore Carbone** and Dr Tracey Henry for critically reviewing the manuscript.*
- 2020 Kadariya D, Canada JM, Del Buono MG, van Wezenbeek J, Tchoukina I, Arena R, Van Tassell B, Abbate A. *J Cardiopulm Rehabil Prev* 2020 Nov;40(6):434-437. **Salvatore Carbone, PhD**, Cory R. Trankle, MD, Hayley Billingsley, RD, and Roshanak Markley, MD (VCU Pauley Heart Center, Virginia Commonwealth University, Richmond, Virginia); George Wohlford, PharmD (VCU Pauley Heart Center and Department of Pharmacotherapy and Outcome Sciences, Virginia Commonwealth



*University, Richmond, Virginia); and Leo Buckley, PharmD (School of Pharmacy, Brigham and Women's Hospital, Boston, Massachusetts), contributed to the data collection for the study.*

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- 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.