

Salvatore Carbone, PhD, MS

ADDRESS

Department of Kinesiology & Health Sciences
1020 West Grace Street
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LANGUAGE

- Fluent in Italian and English.

CURRENT POSITIONS

Assistant Professor (tenure track)
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

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

- 2021 *Dietary Interventions to Reduce Cardiometabolic Risk: Making the Case for Precision Nutrition*
Sentara Health System Grand Rounds
Norfolk, VA
- 2021 *Diet to Prevent and Treat Cardiometabolic Diseases*
School of Medicine – Lecture for Medical Students
Eastern Virginia Medical School (EVMS), Norfolk, VA
- 2021 *How Sweet it is! SGLT2 inhibition to Improve Heart Failure Outcomes*
Heart Failure Grand Rounds
Virginia Commonwealth University, Richmond, VA
- 2020 *Dietary Interventions to Reduce Cardiometabolic Risk: Making the Case for Precision Nutrition*
Cardiology Grand Rounds
Virginia Commonwealth University, Richmond, VA
- 2020 *Diet, Obesity, and Cardiovascular Disease*
School of Pharmacy – Elective Cardiology course
Virginia Commonwealth University, Richmond, VA
- 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

- 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 23rd 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 22nd 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*
YMUN faculty development program
Virginia Commonwealth University, Richmond, VA

- 2016 *Obesity, Obesity Paradox and Ongoing Research*
YMUN faculty development program
Virginia Commonwealth University, Richmond, VA

- 2016 *The Mediterranean Diet*
YMUN faculty development program
Virginia Commonwealth University, Richmond, VA

- 2016 *Obesity, Obesity Paradox and Ongoing Research*
YMUN 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. Completed: \$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 Tassell, 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

2013-present Master of Science in Food Science, Nutrition and Applied Dietetics, Online Program. Sapienza University of Rome (Unitelma).

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.
- 2020 (Summer) Mentor for American Heart Association Summer Fellowship for Undergraduate Students

Courses Thought

Virginia Commonwealth University:

- **HPEX 345:** Nutrition for Health and Disease (Fall 2019, Spring 2020, Fall 2020, Spring 2021)
- **HPEX 495:** Clinical Experience II (Spring 2020)

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, *Diabetology & Metabolic Syndrome; Diseases.*

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-HT _{2A} R: 5HT _{2C} R Balance in Brain Connectivity in Cocaine Dependence (Moeller, PI)
2020-present	Co-Editor, <i>Diabetes/Metabolism: Research & Reviews (DMRR)</i>
2020-present	Peer-Reviewer, <i>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</i>
2020-present	Guest Editor, <i>Nutrients</i> . 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, <i>Frontiers in Clinical Diabetes and Healthcare</i>
2020-present	Editorial Board Member, Topic Editor, <i>Nutrients</i>
2020	Poster Professor, American Heart Association 2020 Scientific Session
2021-present	Peer-Reviewer, <i>JAMA Cardiology, Circulation</i>
2021-present	Associate Editor, <i>Frontiers in Clinical Diabetes and Healthcare</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
2019	Future Leader, Heart Failure Society of America

2021 Highly Cited Author, Mayo Clinic Proceedings 2021
2021 Chair-elect, Energy & Macronutrient Metabolism Research
Interest Section, American Society for Nutrition

PUBLICATIONS IN JOURNALS

Total publications: 121 (including in press)

Google Scholar citations: 2,742

Google Scholar H-index: 27

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

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

1. 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. In press.
2. 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. In press.
3. Van Tassell BW, Wohlford GF, Buckley LF, Kadariya D, Park T, Chiabrando JG, **Carbone S**, Mihalick V, Halquist MS, Pearcy 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. In press.
4. 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. *JAMA* 2021. In press. Corresponding author.
5. 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. In press. *Equal contribution. Corresponding author.
6. Cava E and **Carbone S**. COVID-19 pandemic and alterations of body composition. *Curr Opin Clin Nutr Metab Care* 2021. In press. Invited Review.

7. 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.
8. 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.
9. 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* 2020. In press.
10. 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.
11. 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 Dapansutril Capsules in Subjects with NYHA II-III Systolic Heart Failure. *J Cardiovasc Pharmacol* 2020;77(1):49-60.
12. Elagizi A, **Carbone S**, Lavie CJ, Mehra MR, Ventura HO. Implications of Obesity Across the Heart Failure Continuum. *Prog Cardiovasc Dis* 2020;63(5):561-569 In press. Invited Review.
13. **Carbone S**, Ozemek C, Lavie CJ. Sedentary Behaviors, Physical Inactivity and Cardiovascular Health: We Better Start Moving! *Mayo Clin Proc Innov Qual Outcomes* 2020;4(6):627-629. Invited Editorial.
14. Reding KW, Ghemigian K, **Carbone S**, D'Agostino RB, Jordan J, Meléndez G, Lamar ZS, Klepin HD, Thomas A, Langford D, Vasu S, Hundley WG. The relationship between abdominal fat and change in left ventricular ejection fraction in cancer patients. *Obes Sci Pract* 2020;1-9.

15. Elagizi A, Kachur S, **Carbone S**, Lavie CJ, Blair SN. A Review of Obesity, Physical Activity, and Cardiovascular Disease. *Curr Obes Rep* 2020;9(4):571-581. Invited Review.
16. Kirkman DL, Bohmke N, Billingsley HE, **Carbone S**. Sarcopenic Obesity in Heart Failure with Preserved Ejection Fraction. *Front Endocrinol (Lausanne)* 2020;11:558271. Corresponding author.
17. Lombardi M, Nunes JP, **Carbone S**. Cardiovascular Effects of Heat-not-Burn and Electronic-Vaping-Cigarettes in Smokers. *Minerva Cardioangiol* 2020 ;68(6):545-547. Corresponding Author. Invited Editorial.
18. Lavie CJ, **Carbone S**, Neeland I. Prevention and Treatment of Heart Failure-We Want to Pump You Up. *JACC Cardiovasc Imaging* 2021;14(1):216-218. Invited Editorial.
19. Billingsley HE, Hummel SL, **Carbone S**. The Role of Diet and Nutrition in Heart Failure: A State-of-the-Art Narrative Review. *Prog Cardiovasc Dis* 2020;63(5):538-551. Corresponding Author. Invited Review.
20. Lombardi M, Chiabrando JG, Vescovo GM, Bressi E, Del Buono MG, **Carbone S**, Koenig R, Van Tassell BW, Abbate A, Biondi-Zoccai G, Dixon DL. Impact of Different Doses of Omega-3 Fatty Acids On Cardiovascular Outcomes: A Pairwise And Network Meta-Analysis. *Curr Atheroscler Rep* 2020;22(9):45.
21. Heizer J, **Carbone S**, Billingsley HE, Van Tassell BW, Arena R, Abbate A, Canada JM. Left Ventricular Concentric Remodeling and Impaired Cardiorespiratory Fitness in Patients With Heart Failure And Preserved Ejection Fraction. *Minerva Cardioangiol* 2020. In press.
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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
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

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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 α 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
57. Trankle CR, Canada JM, Kadariya D, Markley R, Medina de Chazal H, **Carbone S**, Buckley LF, Wohlford GF, Fox A, Arena R, Van Tassell BW, Abbate A, Grinnan D. Interleukin-1 Blockade in Patients With Pulmonary Arterial Hypertension and Right Ventricular Failure. *Circulation* 2018;138:A15288. Poster presentation

Chapters in books

- 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. In press.
- 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

- 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 Apr 16. doi: 10.1097/HCR.0000000000000502. **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.
- 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.