

Salvatore Carbone, PhD, MS, FHFSA

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 – 2019 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)

- 2022 *The Role of Dietitians in GDMT Clinics*
Session: Multidisciplinary Heart Failure Clinics
HFSA 2022 Annual Scientific Meeting
Washington, DC
- 2022 *The 'Goods and the 'Bads': The Role of Dietary Fats in Heart Failure*
Session: Nutrition and Obesity Management in Heart Failure
HFSA 2022 Annual Scientific Meeting
Washington, DC
- 2022 *Which Diet is Best for my Patient with Diabetes?*
Diabetes and Hypertension Project ECHO Clinic
Virginia Commonwealth University, Richmond, VA
- 2022 *Cardiovascular Journal Club Research Faculty Panel*
Panel discussion for Graduate students
Department of Kinesiology & Health Sciences
Virginia Commonwealth University, Richmond, VA
- 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
- 2022 *Comprehensive Lifestyle Intervention to Improve Heart*

- Failure Outcomes in Patients with Chronic Kidney Disease*
Heart Failure Grand Rounds
Virginia Commonwealth University, Richmond, VA
- 2021 *Weighing the Risks in Clinical Research*
Lecture for PhD students
Department of Health Behavior and Policy
Virginia Commonwealth University, Richmond, VA
 - 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
HFSA Annual 25th Scientific Meeting, Denver, CO
 - 2021 *The Diet Debate: The Mediterranean Diet*
2021 Virginia Bariatric Society Conference, Williamsburg, VA
 - 2021 *SGLT2 Inhibitors and GLP1 Receptor Agonists For Cardiovascular Disease Prevention*
Diabetes and Hypertension Project ECHO Clinic
Virginia Commonwealth University, Richmond, VA
 - 2021 *SGLT2 Inhibitors and Cardiovascular Disease Prevention: How Sweet it is?*
APP Cardiology Conference
Virginia Commonwealth University, Richmond, VA
 - 2021 *Which Diet is Best for Women to Reduce Cardiometabolic Risk?*
Health of Women Conference
Virginia Commonwealth University, Richmond, VA
 - 2021 *Obesity and Heart Failure: is Weight Loss the Answer?*
Endocrinology, Diabetes and Metabolism Grand Rounds
Virginia Commonwealth University, Richmond, VA
 - 2021 *Dietary Interventions to Reduce Cardiometabolic Risk: Making the Case for Precision Nutrition*
Sentara Health System Grand Rounds, Norfolk, VA

- 2021 *Molecular Aspects of Structured Dietary Interventions*
ASPEN 2021 National Conference (Virtual)

- 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

- 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*
YMUN faculty development program
Virginia Commonwealth University, Richmond, VA

- 2017 *Obesity, Obesity Paradox and Ongoing Research*
YMUN 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 (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. 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 Institutes 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 Institutes of Health 2014-2017. Active: \$652,839. Principal Investigators: Antonio Abbate, MD, PhD; Benjamin Van Tassel, 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 Institutes 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 Institutes 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: <ul style="list-style-type: none">• 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
- 2021 (Summer) Mentor for American Heart Association Summer Fellowship for Undergraduate Students

Courses Taught

Virginia Commonwealth University:

- **HPEX 345 (901 section):** Nutrition for Health and Disease (Fall 2019)
- **HPEX 345 (901 section):** Nutrition for Health and Disease (Spring 2020)
- **HPEX 345 (901 section):** Nutrition for Health and Disease (Fall 2020)
- **REMS 692:** Independent Study (Spring 2020)
- **HPEX 495:** Clinical Experience II (Spring 2020)
- **HPEX 345 (901 section):** Nutrition for Health and Disease (Spring 2021)
- **REMS 692:** Independent Study (Spring 2021)
- **HPEX 345 (901 section):** Nutrition for Health and Disease (Fall 2021)
- **HPEX 345 (902 section):** Nutrition for Health and Disease (Fall 2021)
- **REMS 692:** Independent Study (Fall 2021)
- **HEMS 797:** Directed Research Study (Fall 2021)
- **HEMS 600 (901 section):** Introduction to Research Design in Health and Movement Sciences (Spring 2022)
- **HPEX 345 (901 section):** Nutrition for Health and Disease (Fall 2022)

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*

	<i>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 & 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 & 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 & 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 & 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, *Minerva Cardioangiologica*

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/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.*

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
2021-2022- Fellow (FHFA), Heart Failure Society of America
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 worldwide
2022 Expertscape, expertise in obesity: Ranked #9 worldwide
2022 Expertscape, expertise in nutrition disorders: Ranked #16 worldwide
2022 Ranked Top 2% of Scientist within their Field by Stanford University

PUBLICATIONS IN JOURNALS

Total publications: 149 (including in press)
Google Scholar citations: 5,666 *Google Scholar H-index: 38*

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. 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 Tassell 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* 2022. In press.

2. Rodriguez-Miguel P, Heefner A, **Carbone S**. Recognizing Risk Factors Associated With Poor Outcomes Among Patients With Covid-19. *Prog Cardiovasc Dis* 2022. Invited Review.
3. 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. In press.
4. 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.
5. 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 to Non-sarcopenic Obesity in Patients with Heart Failure with Reduced Ejection Fraction. *Circ Heart Fail* 2022. In press. Co-corresponding Author.
6. 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.
7. 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.
8. **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.
9. 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. In press. 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).
- 10. 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.
- 11. 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.
- 12. 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.
- 13. 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.
- 14. 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.
- 15. 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
- 16. Kirkman DL, Lee DC, **Carbone S**. Resistance Exercise for Cardiac Rehabilitation. *Prog Cardiovasc Dis* 2022;70:66-72. Invited Review. Corresponding author.

17. 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.
18. 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.
19. 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.
20. **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.
21. 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
22. 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
23. 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* 2021. In press.
24. 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.

25. 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.
26. 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.
27. 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.
28. **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.
29. 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.
30. 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.
31. 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.
32. 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.

33. 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.
34. 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.
35. 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.
36. 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.
37. 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.
38. 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.
39. 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.
40. 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. Invited Review.

41. **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.
42. 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; 7(1):82-90.
43. 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.
44. 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.
45. 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.
46. 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.
47. 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.
48. 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.
49. 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 Cardiol Angiol* 2021;69(4):438-445.
50. Del Buono MG, Trankle CR, Buckley LF, Kadariya D, Canada JM, **Carbone S**, Turlington J, Markley R, Bressi E, Van Tassell BW, Abbate A. Early Changes in NT-

ProBNP Levels Predict New-Onset Heart Failure in Patients with STEMI. *Minerva Cardiol Angiol* 2022;70(1):25-31.

51. Yehya A, **Carbone S**. Managing Type 2 Diabetes Mellitus during COVID-19 Pandemic: The Bittersweet. *Diabetes Metab Res Rev* 2021;37(1):e3360. Corresponding Author.
52. **Carbone S**, Billingsley HE, Canada JM, Bressi E, Rotelli B; Kadariya D, Dixon DL, Markley R, Trankle CR, Cooke R, Rao K, Shah K, Medina de Chazal H, Chiabrando JG, Vecchié A, Dell M, Mihalick V, Bogaev R, Hart L, Van Tassell BW, Arena R, Celi FS, Abbate A. The Effects of Canagliflozin compared to Sitagliptin on Cardiorespiratory Fitness in Type 2 Diabetes Mellitus and Heart Failure with Reduced Ejection Fraction: Results of the CANA-HF Study. *Diabetes Metab Res Rev* 2020;36(8):e3335. Corresponding Author.
53. **Carbone S**, Kirkman DL, Garten RS, Rodriguez-Miguel P, Artero EG, Lee DC, Lavie CJ. Muscular Strength and Cardiovascular Disease: An Updated State-of-the-Art Narrative Review. *J Cardiopulm Rehabil Prev* 2020;40(5):302-309. Corresponding Author. Invited Review.
54. Del Buono MG, Iannaccone G, Scacciavillani R, **Carbone S**, Camilli M, Niccoli G, Borlaug BA, Lavie CJ, Arena RA, Crea F, Abbate A. Heart Failure with Preserved Ejection Fraction Diagnosis and Treatment: An Updated Review of the Evidence. *Prog Cardiovasc Dis* 2020;63(5):570-584. Review.
55. **Carbone S**, O'Keefe JH, Lavie CJ. SGLT2 Inhibition, Visceral Adiposity, Weight and Type 2 Diabetes Mellitus. *Obesity (Silver Spring)* 2020;28(7):1173. Invited Editorial.
56. Allen KE, Billingsley HE, **Carbone S**. Nutrition, Heart Failure and Quality of Life: Beyond Dietary Sodium. *JACC Heart Failure* 2020;8(9):765-769. Corresponding Author. Invited Editorial.
57. Canada JM, Thomas GK, Trankle CR, **Carbone S**, Billingsley H, Van Tassell BW, Evans RK, Garten R, Weiss E, Abbate A. Increased C-reactive Protein Is Associated With the Severity of Thoracic Radiotherapy-Induced Cardiomyopathy. *Cardiooncology* 2020;6:2
58. **Carbone S**, Lavie CJ. Disparate Effects of Obesity on Survival and Hospitalizations in Heart Failure with Preserved Ejection Fraction. *Int J Obes (Lond)* 2020;44(7):1543-1545. Corresponding Author. Invited Editorial.

59. **Carbone S**, Dixon DL. Screening, Identification, and Management of Prediabetes to Reduce Cardiovascular Risk: A Missed Opportunity?. *Diabetes Metab Res Rev* 2020; 36(6):e3316. Commentary.
60. Billingsley HE, Dixon DL, Gipson G, Abbate A, **Carbone S**. Time Restricted Feeding: Old Tools, New Packaging? *Minerva Cardioangiol* 2020;68(6):539-541. Corresponding Author. Invited Editorial.
61. Lavie CJ, Kachur S, O'Keefe E, Elagizi A, **Carbone S**. Response to Letter to the Editor. *Curr Sports Med Rep* 2020;19(2):96-97.
62. Lombardi M, Chiabrando JG, Vescovo GM, Bressi E, Del Buono MG, **Carbone S**, Koenig R, Van Tassell BW, Dixon DL, Abbate A, Biondi-Zoccai G. Efficacy Of Different Dose Of Omega 3 Fatty Acid On Cardiovascular Outcomes: Rationale And Design Of A Network Meta-Analysis. *Minerva Cardioangiol* 2020;68(1):47-50.
63. Canada JM, Trankle CR, **Carbone S**, Buckley LF, Medina de Chazal H, Billingsley HE, Evans RK, Garten R, Van Tassell BW, Kadariya D, Adolfo G Mauro, Toldo S, Mezzaroma E, Arena R, Hundley GW, Grizzard JD, Weiss E, Abbate A. Determinants of Cardiorespiratory Fitness Following Thoracic Radiotherapy in Lung or Breast Cancer Survivors. *Am J Card* 2020;125(6):988-99
64. Abbate A, Trankle CR, Buckley LF, Lipinsky MJ, Appleton D, Kadariya D, Canada JM, **Carbone S**, Roberts CS, Abouzaki NA, Melchior R, Christopher S, Turlington J, Mueller G, Garnett J, Thomas C, Markley R, Wohlford G, Puckett L, Medina de Chazal H, Chiabrando JG, Bressi E, Del Buono MG, Schatz A, Vo C, Dixon DL, Biondi-Zoccai G, Kontos MC, Van Tassell BW. Interleukin-1 blockade Inhibits the Acute Inflammatory Response in Patients with STsegment Elevation Myocardial Infarction. *J Am Heart Assoc* 2020;9(5):e014941. doi: 10.1161/JAHA.119.014941
65. **Carbone S**, Lavie CJ, Elagizi A, Arena R, Ventura H. The Impact of Obesity in Heart Failure. *Heart Fail Clin* 2020;16(1):71-80. Corresponding Author. Invited Review.
66. Kumar N, Contaifer D, Madurantakam P, **Carbone S**, Price E, Van Tassell BW, Brophy D, Wijesinghe D. Dietary bioactive fatty acids as modulators of immune function: Implications on human health. *Nutrients* 2019;11(12):2974. Review.
67. Ozemek C, Tiwari SC, Sabbahi A, **Carbone S**, Lavie CJ. Impact of therapeutic lifestyle changes in resistant hypertension. *Prog Cardiovasc Dis* 2020;63(1):4-9. Invited Review.

68. Billingsley HE, Rodriguez-Miguel P, Del Buono MG, Abbate A, Lavie CJ, **Carbone S**. Lifestyle Interventions with a Focus on Nutritional Strategies to Increase Cardiorespiratory Fitness in Chronic Obstructive Pulmonary Disease, Heart Failure, Obesity, Sarcopenia and Frailty. *Nutrients* 2019;11(12):2849. Corresponding Author. Invited Review.
69. Graham G*, **Carbone S***, Wang J, Dixon DL, Jovin IS, Carl DE, Gehr TW, Ghosh S. Impaired delivery of cholesterol effluxed from macrophages to hepatocytes by serum from CKD patients may underlie increased CVD risk. *Kidney International Reports* 2020;5(2):199-210. *Equal contribution.
70. **Carbone S**, Billingsley HE, Lavie CJ. The Effects of Dietary Sugars on CVD and CVD-Related Mortality: Finding the Sweet Spot. *Mayo Clin Proc* 2019;94(12):2375-2377. Corresponding Author. Invited Editorial.
71. van Wezenbeek J, Canada JM, Ravindra K, **Carbone S**, Kadariya D, Trankle CR, Wohlford G, Buckley LF, Del Buono MG, Billingsley HE, Viscusi M, Tchoukina I, Shah K, Arena R, Van Tassell BW, Abbate A. Determinants of Cardiorespiratory Fitness in Heart Failure Across a Wide Range of Ejection Fractions. *Am J Card* 2020;125(1):76-81.
72. Van Tassell BW, Westman P, Trankle C, Johns S, Kadariya D, Buckley L, **Carbone S**, Abbate A, Moeller FG. Noninvasive Hemodynamic Monitoring of Cocaine-Induced Changes in Cardiac Output and Systemic Vascular Resistance in Subjects With Chronic Cocaine Use Disorder. *J Cardiovasc Pharmacol* 2019;74(6):528-534.
73. **Carbone S**, Del Buono MG, Ozemek C, Lavie CJ. Obesity, Risk of Diabetes and Role of Physical Activity, Exercise Training and Cardiorespiratory Fitness. *Prog Cardiovasc Dis* 2019;62(4):327-333. Corresponding Author. Invited Review.
74. Patel SS, Siddiqui MB, Chadrakumaran A, Faridnia M, Lin F, Hernandez Roman J, **Carbone S**, Lorenzo J, Clinton J, Kirkman D, Wolver S, Celi FS, Bhati C, Siddiqui MS. Office-Based Weight Loss Counseling Is Ineffective in Liver Transplant Recipients. *Dig Dis Sci* 2020;65(2):639-646.
75. Lavie CJ, **Carbone S**, Kachur S, O'Keefe EL, Elagizi A. Effects of Physical Activity, Exercise and Fitness on Obesity Related Morbidity and Mortality. *Curr Sports Med Rep* 2019;18(8):292-298. Invited Review.
76. **Carbone S**, Lavie CJ, Nattel S. Editorial Commentary: Obesity, Body Composition and Atrial Fibrillation. *Trends Cardiovasc Med* 2020;30(4):212-214. Invited Editorial.

77. Lavie CJ, Ozemek C, **Carbone S**, Kachur S. Sustaining Improvements in Cardiorespiratory Fitness and Muscular Strength in Cardiac Rehabilitation. *Can J Cardiol* 2019; 35(10):1275-1277. Invited Editorial.
78. Bonaventura A, Vecchié A, **Carbone S**, Montecucco F, Abbate A. Comment on Hypoglycemia and hyperglycemia are risk factors for falls in the hospital population by Berra et al. *Acta Diabetol* 2020;57(1):109-110. Letter to the Editor.
79. Contaifer D, Buckley LF, Wohlford GW, Kumar NG, Morriss JM, Ranasinghe AD, **Carbone S**, Canada JM, Trankle CR, Abbate A, Van Tassell BW, Wijesinghe DS. Metabolic Modulation Predicts Heart Failure Tests Performance. *PLoS One* 2019;14(6):e0218153.
80. **Carbone S**, Dixon DL. The CANVAS Program: Implications of Canagliflozin on Reducing Cardiovascular Risk in Patients with Type 2 Diabetes Mellitus. *Cardiovasc Diabetol* 2019;18(1):64. Corresponding Author. Review.
81. **Carbone S**, Lavie CJ. An Opposing Point of View on the Obesity Paradox. *Postgrad Med* 2019;131(5):333-334. Invited Letter to the Editor.
82. **Carbone S**, Billingsley HE, Canada JM, Kadariya D, Medina de Chazal H, Rotelli B, Potere N, Paudel B, Markley R, Dixon DL, Trankle CR, Van Tassell BW, Celi FS, Abbate A. Unsaturated Fatty Acids to Improve Cardiorespiratory Fitness in Patients with Obesity and Heart Failure with Preserved Ejection Fraction: Results from the UFA-Preserved Pilot Study. *JACC Basic Transl Sci* 2019;4(4):563-565. Corresponding Author.
83. **Carbone S**, Billingsley HE, Rodriguez-Miguel P, Kirkman DL, Franco RL, Lee DC, Lavie CJ. Lean Mass Abnormalities in Heart Failure: The Role of Sarcopenia, Sarcopenic Obesity and Cachexia. *Curr Probl Cardiol* 2019;28:100417. Invited Review. Corresponding Author.
84. **Carbone S**, Canada JM, Billingsley HE, Siddiqui MS, Elagizi A, Lavie CJ. Obesity Paradox in Cardiovascular Disease: Where Do We Stand? *Vasc Health Risk Manag* 2019;15:89-100. Invited Review.
85. Bonaventura A, **Carbone S**, Dixon DL, Abbate A, Montecucco F. Pharmacologic Strategies to Reduce Cardiovascular Disease in Type 2 Diabetes: Focus on SGLT-2 Inhibitors and GLP-1 Receptor Agonists. *J Intern Med* 2019;286(1):16-31. Review.

86. Lavie CJ, Ozemek C, **Carbone S**, Katzmarzyk PT, Blair SN. Sedentary Behavior, Exercise and Cardiovascular Health. *Circ Res* 2019;124(5):799-815. Invited Review.
87. Del Buono MG, Arena R, Borlaug BA, **Carbone S**, Canada JM, Kirkman DL, Garten R, Rodriguez-Miguel P, Guazzi M, Lavie CJ, Abbate A. Exercise Intolerance in Patients with Heart Failure. *J Am Coll Cardiol* 2019;73(17):2209-25. Invited Review.
88. van Wezenbeek J, Ravindra K, Canada JM, **Carbone S**, Trankle CR, Kadariya D, Buckley LF, Del Buono MG, Billingsley HE, Viscusi M, Wohlford G, Arena R, Van Tassel BW, Abbate A. C-Reactive Protein and N-Terminal pro-Brain Natriuretic Peptide Levels Correlate with Impaired Cardiorespiratory Fitness in Patients with Heart Failure Across a Wide Range of Ejection Fraction. *Front Cardiovasc Med* 2018;5:178.
89. Buckley LF, Canada JM, **Carbone S**, Trankle CR, Kadariya D, Billingsley HE, Wohlford GF, Kirkman D, Abbate A, Van Tassel BW. Potential Role for Interleukin-1 in the Cardio-Renal Syndrome. *Eur J Heart Fail* 2019;21(3):385-386
90. **Carbone S**, Mauro AG, Prestamburgo A, Halquist MS, Narayan P, Potere N, Mezzaroma E, Van Tassel BW, Abbate A, Toldo S. An Orally Available NLRP3 Inflammasome Inhibitor Prevents Western Diet-Induced Cardiac Dysfunction in the Mouse. *J Cardiovasc Pharmacol* 2018;72(6):303-307.
91. Siddiqui SM, **Carbone S**, Vincent R, Patel S, Driscoll C, Celi FS, Billingsley HE, Rotelli B, John B, Potere N, Viscusi M, Adiletta V, Sanyal AJ, Luketic VA, Reichman T, Bhati C. Prevalence and Severity of Nonalcoholic Fatty Liver Disease (NAFLD) Among Caregivers of Patients with NAFLD Cirrhosis. *Clin Gastroenterol Hepatol* 2018;17(10):2132-2133.
92. Canada JM, Abbate A, Collen R, Billingsley HE, Buckley LF, **Carbone S**, Trankle CR, Idowy MO, Kadariya D, Van Tassel BW, Sanyal AJ, Siddiqui MS. Relation of Hepatic Fibrosis in Nonalcoholic Fatty Liver Disease to Left Ventricular Diastolic Function and Exercise Tolerance. *Am J Cardiol* 2019;123(3):466-473.
93. Del Buono M, **Carbone S**, Abbate A. Letter Regarding "A Simple, Evidence-Based Approach to Help Guide Diagnosis of Heart Failure With Preserved Ejection Fraction". *Circulation* 2019;139(7):990-991. Letter to the Editor.
94. Lavie CJ, Elagizi A, **Carbone S**. Obesity Paradox Does Not Translate to the Promotion of Obesity! *Journal of Clinical Exercise Physiology* 2019;8(1):30-53. Invited Rebuttal/Editorial (Point/Counterpoint).

95. **Carbone S**, Elagizi A, Lavie CJ. The Obesity Paradox in Cardiovascular Diseases: Current Evidence and Future Perspectives. *Journal of Clinical Exercise Physiology* 2019;8(1);30-53. Invited Review (Point/Counterpoint).
96. Billingsley HE, **Carbone S**, Lavie CJ. Dietary Fats and Chronic Noncommunicable Disease. *Nutrients* 2018 Sep 30;10(10). pii: E1385. doi: 10.3390/nu10101385. Invited Review. Corresponding Author.
97. Lavie CJ, Elagizi A, Kachur S, **Carbone S**, Archer E. Weighing in on Obesity Prevention and Cardiovascular Disease Prognosis. *J Lab Precis Med* 2018;3:85. doi: 10.21037/jlpm.2018.09.02. Invited Editorial.
98. Buckley LF, **Carbone S**, Aldemerdash A, Fatani N, Fanikos J. Novel and Emerging Therapeutics for Primary Prevention of Cardiovascular Disease. *Am J Med* 2019;132(1):16-24. Review.
99. **Carbone S**, Lavie CJ. Disproving the Obesity Paradox-Not. *Eur Heart J* 2018;39(40):3672. Letter to the Editor.
100. **Carbone S**, Dave L Dixon. Selecting Appropriate Weight Loss Pharmacotherapies in Older Adults to Reduce Cardiovascular Risk. *Expert Opin Pharmacother* 2018;19(13):1399-1402. Invited Editorial. Corresponding Author.
101. Ventura H, **Carbone S**, Lavie CJ. Muscling Up to Improve Heart Failure Prognosis. *Eur J Heart Fail* 2018;20(11):1588-1590. Invited Editorial.
102. Van Tassell BW, Trankle C, Canada JM, **Carbone S**, Buckley LF, Kadariya D, Del Buono G, Billingsley H, Wohlford G, Viscusi M, Abouzaki NA, Oddi Erdle C, Dixon DL, Biondi-Zoccai G, Arena R, Abbate A. Interleukin-1 Blockade in Patients With Heart Failure With Preserved Ejection Fraction: Results from the Diastolic Heart Failure Anakinra Response Trial 2 (DHART2). *Circ Heart Fail* 2018;11(8):e005036.
103. Elagizi A, Kachur S, Lavie CJ, **Carbone S**, Pandey A, Ortega F, Milani RV. An Overview and Update on Obesity and the Obesity Paradox in Cardiovascular Diseases. *Prog Cardiovasc Dis* 2018;61(2):142-150. Invited Review.
104. **Carbone S**, Dixon DL, Buckley LF, Abbate A. Glucose-Lowering Therapies for Cardiovascular Risk Reduction in Type 2 Diabetes Mellitus: State-of-the-Art Review. Review. *Mayo Clin Proc* 2018;93(11):1629-1647. Corresponding Author. Press release published on:

https://news.vcu.edu/article/People_with_Type_2_diabetes_now_have_personalized_treatment_options

105. **Carbone S**, Elagizi A, Lavie CJ. Obesity and Mortality Risk in Heart Failure: When Adipose Tissue Distribution Matters. *Eur J Heart Fail* 2018;20(9):1278. Invited Editorial.
106. Van Tassell BW, Lipinski MJ, Appleton D; Roberts CS; Kontos MC; Abouzaki N, Melchior R, Mueller G, Garnett J, Canada JM, **Carbone S**, Buckley LF, Wohlford G, Kadariya D, Trankle CR, Oddi Erdle C, Sculthorpe R, Puckett L, DeWilde C, Shah K, Angiolillo D, Vetrovec G, Biondi-Zoccai G, Arena R, Abbate A. Rationale and design of the Virginia Commonwealth University- Anakinra Remodeling Trial-3 (VCU-ART3): A Randomized Placebo-controlled Double-blinded Multicenter Study. *Clinical Cardiology* 2018; 41(8):1004-1008.
107. **Carbone S**, Lavie CJ, Arena R. The Obesity Paradigm and Lifetime Risk of Cardiovascular Disease. *JAMA Cardiol* 2018;3(9):894-895. Corresponding Author. Letter to the Editor.
108. Abouzaki NA, Christopher S, Trankle CR, Van Tassell BW, **Carbone S**, Mauro AG, Buckley LF, Toldo S, Abbate A. Inhibiting the inflammatory injury following myocardial ischemia reperfusion with plasma derived α -1 anti-trypsin: a post-hoc analysis of the VCU- α 1RT study. *J Cardiovasc Pharmacol* 2018;71(6):375-379.
109. Buckley LF, **Carbone S**, Trankley CR, Canada JM, Oddi Erdle C, Regan JA, Viscusi MM, Kadariya D, Billingsley HE, Arena R, Abbate A, Van Tassell BW. Effect of Interleukin-1 Blockade on Left Ventricular Systolic Performance and Work: A Post-Hoc Pooled Analysis of Two Clinical Trials. *J Cardiovasc Pharmacol* 2018; 72(1):68-70.
110. **Carbone S**, Canada JM, Billingsley HE, Kadariya D, Dixon DL, Trankle CR, Buckley LF, Markley R, Vo C, Medina De Chazal H, Christopher S, Buzzetti R, Van Tassell BW, Abbate A. Effects of Empagliflozin on Cardiorespiratory Fitness and Significant Interaction of Loop Diuretics. *Diabetes Obes Metab* 2018;20(8):2014-2018. Corresponding Author.
111. **Carbone S**, Billingsley HE, Abbate A. Associations of fats and carbohydrates with cardiovascular disease and mortality—PURE and simple? *Lancet* 2018;391(10131):1679. Letter to the Editor.

112. Billingsley HE, **Carbone S**. The Antioxidant Potential of the Mediterranean Diet in Patients at High Cardiovascular Risk: An In-depth Review of the PREDIMED. *Nutr Diabetes* 2018;8(1):13. Corresponding Author. Review.
113. Del Buono M, **Carbone S**, Abbate A. Comment on Stiermaier et al. Prevalence and Prognostic Impact of Diabetes in Takotsubo Syndrome: Insights From the International, Multicenter GEIST Registry. *Diabetes Care* 2018;41:1084-1088. *Diabetes Care* 2018;41(7):e121. Letter to the Editor.
114. **Carbone S**, Mauro AG, Toldo S, Abbate A. Diet-Induced Obesity HFpEF Murine Models. *JACC Basic Transl Sci* 2018;3(1):157. Corresponding Author. Letter to the Editor.
115. **Carbone S**, Pandey A, Lavie CJ. Editorial Commentary: Obesity and Heart Failure with Preserved Ejection Fraction: A Single Disease or Two Co-Existing Conditions? *Trends Cardiovasc Med* 2018;28(5):328-329. Invited Editorial.
116. **Carbone S**, Billingsley HE, Abbate A. The Mediterranean Diet to Treat Heart Failure: A Potential Powerful Tool in The Hand of Providers. *JACC Heart Fail* 2018;6(3):264. Corresponding Author. Letter to the Editor.
117. Lavie CJ, **Carbone S**, Agarwal MA. An Obesity Paradox with Myocardial Infarction in the Elderly. Invited Editorial. *Nutrition* 2018;46:122-123.
118. **Carbone S**, Canada JM, Abbate A. Letter Regarding "Evidence Supporting the Existence of a Distinct Obese Phenotype of Heart Failure with Preserved Ejection Fraction". *Circulation* 2018;137:414-415. Letter to the Editor.
119. **Carbone S**, Dixon DL, Abbate A. Treatment of Hypertension to Prevent and Treat Heart Failure in Diabetic Patients Should Include Sodium Glucose Co-Transporter 2 Inhibitors. *JACC Heart Fail* 2018;6(1):85. Letter to the Editor.
120. Buckley LF, Canada JM, Del Buono MG, **Carbone S**, Trankle CR, Billingsley HE, Kadariya D, Arena R, Van Tassell BW, Abbate A. Low NTproBNP Levels in Overweight and Obese Patients Do Not Rule Out a Diagnosis of Heart Failure with Preserved Ejection Fraction. *ESC Heart Fail* 2018 5(2):372-378.
121. Van Tassell BW, Canada JM, **Carbone S**, Trankle CR, Buckley LF, Oddi Erdle C, Abouzaki NA, Dixon DL, Kadariya D, Christopher S; Schatz A, Regan J, Viscusi M, Del Buono M; Melchior R, Mankad P, Lu J, Sculthorpe R, Biondi-Zoccai G, Lesnefsky E, Arena RA, Abbate A. Interleukin-1 Blockade in Recently Decompensated Systolic

Heart Failure: Results from the REcently Decompensated Heart failure Anakinra Response Trial (REDHART). *Circ Heart Fail* 2017;10:e004373.

122. Vaccaro O, Masulli M, Nicolucci A, Bonora E, Del Prato S, Maggioni AP, Rivellese AA, Squatrito S, Giorda CB, Sesti G, Mocarelli P, Lucisano G, Sacco M, Signorini S, Cappellini F, Perriello G, Babini AC, Lapolla A, Gregori G, Giordano C, Corsi L, Buzzetti R, Clemente G, Di Cianni G, Iannarelli R, Cordera R, La Macchia O, Zamboni C, Scaranna C, Boemi M, Iovine C, Lauro D, Leotta S, Dall'Aglio E, Cannarsa E, Tonutti L, Pugliese G, Bossi AC, Anichini R, Dotta F, Di Benedetto A, Citro G, Antenucci D, Ricci L, Giorgino F, Santini C, Gnasso A, De Cosmo S, Zavaroni D, Vedovato M, Consoli A, Calabrese M, di Bartolo P, Fornengo P, Riccardi G; **Thiazolidinediones Or Sulfonylureas Cardiovascular Accidents Intervention Trial (TOSCA.IT) study group (Carbone S)**; under the mandate of the Italian Diabetes Society. Effects on the incidence of cardiovascular events of the addition of pioglitazone versus sulfonylureas in patients with type 2 diabetes inadequately controlled with metformin (TOSCA.IT): a randomised, multicentre trial. *Lancet Diabetes Endocrinol* 2017;5(11):887-897.
123. Toldo S, Austin D, Mauro AG, Mezzaroma E, Van Tassell BW, Marchetti C, **Carbone S**, Mogelsvang S, Gelber C, Abbate A. LRP1 is a therapeutic target in acute myocardial infarction. *JACC Basic Transl Sci* 2017;2(5):561-74.
124. **Carbone S**, Popovic D, Lavie CJ, Arena R. Obesity, Body Composition and Cardiorespiratory Fitness in Heart Failure with Preserved Ejection Fraction. Invited Review. *Future Cardiology* 2017;13(5):451-463. Corresponding Author.
125. **Carbone S**, Canada JM, Buckley LF, Trankle R, Billingsley H, Dixon DL, Mauro AG, Dessie S, Kadariya D, Mezzaroma E, Buzzetti R, Arena R, Van Tassell BW, Toldo S, Abbate A. Dietary Fat, Sugar Consumption and Cardiorespiratory Fitness in Patients with Heart Failure with preserved Ejection Fraction. *JACC Basic Transl Sci* 2017;2(5):513-25. Corresponding Author. The article received a dedicated editorial in the same issue of the Journal (Hummel SL et al. *JACC Basic Transl Sci* 2017;2(5):526-528).
126. Van Tassell BW, Buckley LF, **Carbone S**, Trankle CR, Canada JM, Dixon DL, Abouzaki N, Oddi-Erdle C, Biondi-Zoccai G, Arena R, Abbate A. Interleukin-1 blockade in heart failure with preserved ejection fraction: rationale and design of the Diastolic Heart Failure Anakinra Response Trial 2 (D-HART2). *Clin Cardiol* 2017;40(9):626-632.

127. Canada JM, Trankle CR, Buckley LF, **Carbone S**, Abouzaki NA, Kadariya D, Shah K, Cooke R, Kontos MC, Patel J, Mankad P, Schatz A, Bhatnagar A, Arena R, Van Tassell BW, Abbate A. Severely Impaired Cardiorespiratory Fitness in Patients with Recently Decompensated Systolic Heart Failure. *Am J Card* 2017;120(10):1854-1857.
128. Baker WL, Buckley LF, Kelly MS, Bucheit JD, Parod ED, Brown R, **Carbone S**, Abbate A, Dixon DL. Effects of Sodium-Glucose Cotransporter 2 Inhibitors on 24-Hour Ambulatory Blood Pressure: A Systematic Review and Meta-Analysis. *J Am Heart Assoc* 2017;6(5). pii: e005686. doi: 10.1161/JAHA.117.005686
129. **Carbone S**, Lee PH, Mauro AG, Mezzaroma E, Buzzetti R, Van Tassell BW, Abbate A, Toldo S. Interleukin 18 Mediates Cardiac Dysfunction Induced by Western Diet Independent of Obesity and Hyperglycemia in the Mouse. *Nutr Diabetes* 2017;7(4):e258.
130. **Carbone S**, Lavie CJ, Arena R. Obesity and Heart Failure: Focus on the Obesity Paradox. Review. *Mayo Clin Proc* 2017;92(2):266-279. Corresponding Author. Press release published on: https://news.vcu.edu/article/VCU_research_published_in_Mayo_Clinic_Proceedings_suggests_possible
131. Trankle CR, Canada JM, Buckley LF, **Carbone S**, Dixon DL, Arena R, Van Tassell BW, Abbate A. Impaired myocardial relaxation with exercise determines peak aerobic exercise capacity in heart failure with preserved ejection fraction. *ESC Heart Fail* 2017; 4(3):351-355.
132. **Carbone S**, Canada JM, Buckley LF, Trankle CR, Dixon DL, Buzzetti R, Arena R, Van Tassell BW, Abbate A. Obesity Contributes to Exercise Intolerance in Heart Failure with Preserved Ejection Fraction. *J Am Coll Cardiol* 2016;68(22):2487-2488. Corresponding Author.
133. **Carbone S**, Arena R, Abbate A. Lack of Benefit for Liraglutide in Heart Failure. *JAMA* 2016;316(22):2429. Letter to the Editor.
134. Dixon DL, **Carbone S**, Abbate A. Letter Regarding "Watching Television and Risk of Mortality From Pulmonary Embolism Among Japanese Men and Women". *Circulation* 2016;134:e499-e500. Letter to the Editor.
135. Dixon DL, Trankle CR, Buckley LF, Parod E, **Carbone S**, Van Tassell BW, Abbate A. A Review of PCSK9 Inhibition and Its Effects Beyond LDL-Receptors. *J Clin Lipidol*

2016;10(5):1073-80.

136. Van Tassell BW, Abouzaki NA, Oddi Erdle C, **Carbone S**, Trankle CR, Melchior RD, Turlington JS, Thurber CJ, Christopher S, Dixon DL, Fronk DT, Thomas CS, Rose SW, Buckley LF, Dinarello CA, Biondi-Zoccai G, Abbate A. Interleukin-1 Blockade in Acute Decompensated Heart Failure: A Randomized, Double-Blinded, Placebo-Controlled Pilot Study. *J Cardiovasc Pharmacol* 2016;67(6):544-51.
137. Buckley LF, Wijesinghe D, Dixon DL, Trankle CR, **Carbone S**, Canada JM, and Van Tassell BW. The State of Women's Health in 2016 and Future Perspectives. *Ann Public Health Res* 2016;3(2):1041. Invited Review.
138. Toldo S, Marchetti C, Mauro AG, Chojnacki J, Mezzaroma E, **Carbone S**, Zhang S, Van Tassell B, Salloum FN, Abbate A. Inhibition of the NLRP3 inflammasome limits the inflammatory injury following myocardial ischemia-reperfusion in the mouse. *Int J Cardiol* 2016;209:215-20.
139. Canada JM, Fronk DT, Cei LF, **Carbone S**, Erdle CO, Abouzaki NA, Melchior RD, Thomas CS, Christopher S, Turlington JS, Trankle CR, Thurber CJ, Evans RK, Dixon DL, Van Tassell BW, Arena R, Abbate A. Usefulness of C-Reactive Protein Plasma Levels to Predict Exercise Intolerance in Patients With Chronic Systolic Heart Failure. *Am J Cardiol* 2016;117(1):116-20.
140. **Carbone S**, Mauro AG, Mezzaroma E, Kraskauskas D, Marchetti C, Buzzetti R, Van Tassell BW, Abbate A, Toldo S. A high-sugar and high-fat diet impairs cardiac systolic and diastolic function in mice. *Int J Cardiol* 2015;198:66-69. Corresponding Author.
141. **Carbone S**, Buckley L, Trankle C, Canada J, Dixon DL, Van Tassell BW, Buzzetti R, Abbate A. Obesity and Heart Failure: can nutritional status explain the paradoxical relationship? *EC Cardiology* 2015;2(2):94-98. Corresponding Author. Invited Editorial.
142. Regan J, Mauro AG, **Carbone S**, Marchetti C, Gill R, Mezzaroma E, Valle Raleigh J, Salloum FN, Van Tassell BW, Abbate A, Toldo S. A Mouse Model of Heart Failure 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.
143. 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. Effects of Prolastin C (Plasma Derived

Alpha-1 Antitrypsin) on the Acute Inflammatory Response in Patients with ST-segment Elevation Myocardial Infarction (from the VCU-Alpha1-RT Pilot Study). *Am J Cardiol* 2015;115(1):8-12.

144. Van Tassell BW, Valle Raleigh J, Oddi C, **Carbone S**, Canada JM, Abouzaki NA, Biondi-Zoccai G, Arena R and Abbate A. Interleukin-1 Blockade in Recently Decompensated Systolic Heart Failure: Study Design of the Recently Decompensated Heart Failure Anakinra Response Trial (RED-HART). *J Clin Trial Cardiol* 2015;2(2):1-8.
145. Abbate A, Kontos MC, Abouzaki NA, Melchior RD, Thomas C, Van Tassell BW, Oddi C, **Carbone S**, Trankle CR, Roberts CS, Mueller GH, Gambill ML, Christopher S, Markley R, Vetovec GW, Dinarello CA, Biondi-Zoccai G. Comparative Safety of Interleukin-1 Blockade with Anakinra in Patients with ST-Segment Elevation Acute Myocardial Infarction (from the VCU-ART and VCU-ART2 Pilot Studies). *Am J Cardiol* 2015;115(3):288-92.
146. Marchetti C, Toldo S, Chojnacki J, Mezzaroma E, Liu K, Salloum FN, Nordio A, **Carbone S**, Mauro AG, Das A, Zalavadia AA, Halquist MS, Federici M, Van Tassell BW, Zhang S, Abbate A. P Pharmacologic Inhibition of the NLRP3 Inflammasome Preserves Cardiac Function After Ischemic and Nonischemic Injury in the Mouse. *J Cardiovasc Pharmacol* 2015;66(1):1-8.
147. 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.
148. Toldo S, Mezzaroma E, Bressi E, Marchetti C, **Carbone S**, Sonnino C, Van Tassell BW, Abbate A. Interleukin-1 β 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.
149. **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.

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 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
58. Billingsley HE, **Carbone S**, Canada JM, Buckley LF, Trankle CR, Dixon DL, Kadariya D, Dessie S, Van Tassell BW, Abbate A. Changes in Polyunsaturated Fatty Acid Intake are Associated with Changes in Body Composition in Obese Subjects with Heart Failure with preserved Ejection Fraction. *JPEN J Parenter Enteral Nutr* 2018; 42(2):491. Poster Presentation.
59. Billingsley HE, **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. *Curr Dev Nutr* 2018; 2(11):nzy050. Poster Presentation.

60. Billingsley HE, **Carbone S**, Rotelli B, Kadariya D, Canada JM, Markley R, Abbate A. Increased Monounsaturated Fat Consumption is Associated with Improved Body Composition in Subjects with Obesity and Heart Failure with Preserved Ejection Fraction. *J Clin Transl Sci* 2019; 3(S1):47. Poster Presentation.
61. Billingsley HE, Trankle CR, Ravindra K, Dixon DL, Rao K, Cooke R, Abbate A, **Carbone S**. Effects of Dietary Intervention on Measures of Adiposity in Patients with Obesity and Heart Diseases: Early Experience from a New Multidisciplinary Cardio-Nutrition Clinic. *JPEN J Parenter Enteral Nutr* 2019; 43(3): 445. Poster Presentation.
62. Billingsley HE, **Carbone S**, Canada JM, Buckley LF, Dixon DL, Kadariya D, Wohlford GF, Trankle CR, Van Tassell BW, Abbate A. Omega-3 Red Blood Cell Content is Associated with Fat Mass Index and Leptin in Subjects with Obesity and Heart Failure with Preserved Ejection Fraction. *Curr Dev Nutr* 2019;3(S1):nzz041. Poster Presentation.
63. Billingsley HE, Canada JM, Markley R, Rotelli B, Kadariya D, Potere N, Paudel B, Medina de Chazel H, Trankle CR, Wohlford GF, Dixon DL, Kirkman DL, Van Tassell BW, Celi FS, Abbate A, **Carbone S**. The Role of Free Fatty Acids in Patients with Obesity and Heart Failure with a Preserved Ejection Fraction: A Post- Hoc Analysis of The UFA-preserved Pilot Study. *Circulation* 2020;141:AP436. Poster Presentation.
64. Billingsley HE, Canada JM, Rotelli B, Kadariya D, Medina de Chazel H, Markley R, Van Tassell BW, Abbate A, **Carbone S**. Dietary Supplementation of Extra Virgin Olive Oil in Patients with Heart Failure with Preserved Ejection Fraction is Associated with Increases in Cardiorespiratory Fitness. *J Card Fail* 2020;26 (10):S85. Poster Presentation. This abstract received significant **media coverage**, including: <https://www.medpagetoday.com/meetingcoverage/hfsa/88946>
65. Billingsley HE, Canada JM, Kirkman DL, Bohmke N, Rotelli B, Vecchie A, Markley R, Abbate A, **Carbone S**. Extended Non-Fasting Period And Delayed Last Meal Are Associated With Peak Oxygen Consumption In Heart Failure With Preserved Ejection Fraction. Heart Failure Society of America (HFSA) Annual Scientific Meeting 2021 (Denver, CO). Poster Presentation.
66. Billingsley HE, Canada JM, Kirkman DL, Bohmke N, Rotelli B, Vecchie A, Markley R, Trankle CR, Van Tassell BW, Abbate A, **Carbone S**. Cardiorespiratory Fitness In Patients With Heart Failure With Preserved Ejection Fraction And Obstructive Sleep Apnea. Heart Failure Society of America (HFSA) Annual Scientific Meeting 2021 (Denver, CO). Poster Presentation.

67. Billingsley HE, Dixon DL, Canada JM, Rotelli B, Kadariya D, 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. *Curr Dev Nutr* 2021;5(S2):465. Poster Presentation.
68. Billingsley HE, Dixon DL, Canada JM, Rotelli B, Dell M, Vecchie A, Kadariya D, Markley R, Trankle CR, Medina De Chazal H, Chiabrando GJ, Dickson V, Bressi E, Van Tassell BW, Abbate A, **Carbone S**. Skeletal Muscle Mass Index by Bioelectrical Impedance Analysis is Strongly Associated with Dual Energy X-Ray Absorptiometry in Patients with Heart Failure with Reduced Ejection Fraction and Type 2 Diabetes Mellitus. *JPEN J Parenter Enteral Nutr* 2021;45 (S1):20-23. **Oral Presentation.**
Abstract of Distinction.
69. Billingsley HE, Dixon DL, Canada JM, Rotelli B, Dell M, Vecchie A, Kadariya D, Markley R, Trankle CR, Medina de Chazal H, Chiabrando JG, Dickson V, Bressi E, Van Tassell BW, Abbate A, **Carbone S**. Higher Skeletal Muscle Mass Index is Associated with Better Reported Quality of Life and Lower Fatigue in Patients with Heart Failure with Reduced Ejection Fraction and Type 2 Diabetes Mellitus. *JPEN J Parenter Enteral Nutr* 2021;45(S1):S7-S37. Poster Presentation.
70. Bohmke NJ, Chavez DA, Carper MC, Billingsley HE, Del Buono MG, Markley R, **Carbone S**, Abbate A, Kirkman DL. Immune Cell Mitochondrial Function and Diastolic Function in Patients With Heart Failure With Preserved Ejection Fraction. *Circulation* 2021;144:A13136. Poster Presentation.
71. Del Buono MG, Mihalick V, Damonte JI, Billingsley HE, Vecchie A, Trankle CR, Kadariya D, Wohlford GW, Ho AC, Talasaz A, **Carbone S**, Markley R, Turlington J, Lu J, Federmann E, Arena R, Van Tassell BW, Abbate A, Canada JM. Preserved Cardiac Reserve and Cardiorespiratory Fitness in Patients with De Novo versus Acute on Chronic HFrEF. *Circulation* 2021;144:A11236. Poster Presentation.
72. Salmons H, Ahmed IS, Billingsley HE, Artis L, Marawan A, Thomas GK, Canada J, Dixon DL, Markley R, Damonte J, Del Buono M, Shah KB, Kirkman DL, Van Tassell BW, Abbate A, **Carbone S**. Body Water Characterization with Bioelectrical Impedance Analysis and Cardiorespiratory Fitness in Patients with Heart Failure with Preserved Ejection Fraction. American Society for Enteral and Parenteral Nutrition (ASPEN) 2022. Poster Presentation.
73. Bohmke NJ, Chavez DA, Billingsley HE, Damonte JI, Del Buono MG, Robinson AT, Markley R, **Carbone S**, Abbate A, Kirkman DL. Differences in Immune Cell Mitochondrial Function in Black and White Patients with Heart Failure with Preserved

Ejection Fraction. The American Physiological Society Conference 2022. *FASEB J* 2022 May;36 Suppl 1. doi: 10.1096/fasebj.2022.36.S1.R5200. Poster Presentation.

74. Romeo F, Del Buono MG, Damonte JI, Chiabrando JG, Aguillar-Gallardo JS, Lorente-Ros M, **Carbone S**, Abbate A. Effects of SglT2 Inhibitors On Left Ventricular Mass, Volume And Function In Patients With Heart Failure And Reduced Ejection Fraction: A Systematic Review And Meta-Analysis Of Randomized Studies. *J Am Coll Cardiol* 2022 Mar, 79 (9_Supplement) 341. Poster Presentation.

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>
- 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. https://web.uniroma1.it/dip_dms/scienza-alimentazione

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 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.