

April 21, 2023

CURRICULUM VITAE

Shane A. Phillips PT, PhD, FAHA
Senior Associate Dean for Clinical Affairs
UIC, College of Applied Health Sciences
Director, KL2 program
UIC Center for Clinical and Translational Sciences
Professor and Associate Head
UIC, Department of Physical Therapy

PERSONAL INFORMATION

NAME: Shane A. Phillips

OFFICE ADDRESS: Department of Physical Therapy
University of Illinois at Chicago
1919 W. Taylor St. (M/C 898)
Office: 746 Lab: 124
Chicago, IL 60612
Telephone: 312-355-0277
shanep@uic.edu

LABORATORY: The Exercise, Research and Technology (EXERT) Vascular Laboratory
<https://exert.ahs.uic.edu/>
Twitter/Facebook: @EXERTlab

EDUCATION

08/1994 - 05/1998	B.S., Marquette University, Milwaukee, WI
08/1998 - 05/2000	MPT., Marquette University, Milwaukee, WI
07/2000 - 05/2004	Ph.D., Physiology, Medical College of Wisconsin, Milwaukee, WI

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

03/2004 - 08/2004	Postdoctoral Fellow, Physiology, Medical College of Wisconsin, Milwaukee, WI (Mentor: Julian Lombard)
08/2004 - 07/2006	Postdoctoral Fellow, Medicine (Cardiovascular), Medical College of Wisconsin, Milwaukee, WI (Mentor: David Gutterman)
07/2005 – 09/2007	Clinical Research Scholars (NIH-K30) Medical College of Wisconsin, Milwaukee, WI
07/2007 – 12/2009	Scholar, Center for Clinical and Translational Science University of Illinois Medical Center, Chicago, IL

FACULTY AND ADMINISTRATIVE APPOINTMENTS:

08/2002 - 12/2002	Visiting Instructor, Department of Physical Therapy Marquette University, Milwaukee, WI.
01/2003 - 05/2003	Adjunct Instructor, Graduate School of Nursing, Marquette University, Milwaukee, WI.

CV-Shane A. Phillips, Ph.D.

05/2004 – 08/2007	Adjunct Clinical Assistant Professor, University of Illinois at Chicago, Department of Physical Therapy; Chicago, IL.
07/2006 – 06/2007	Instructor, Department of Medicine, Division of Cardiovascular Medicine, Medical College of Wisconsin. Milwaukee, WI.
07/2006 – 06/2007	Instructor (secondary), Department of Surgery. Division of Trauma and Critical Care, Medical College of Wisconsin. Milwaukee, WI.
07/2007 – 08/2007	Assistant Professor, Departments of Medicine and Surgery, Medical College of Wisconsin, Milwaukee, WI
08/2007	Adjunct Assistant Professor, Departments of Medicine and Surgery, Medical College of Wisconsin, Milwaukee, WI
08/2007 – 08/2011	Assistant Professor (tenure track; primary), Department of Physical Therapy, University of Illinois, Chicago, IL
12/2007 – 08/2011	Clinical Assistant Professor (secondary), Department of Medicine, Section of Endocrinology, Diabetes, and Metabolism, University of Illinois College of Medicine, Chicago, IL
08/2010 – present	Associate Head, Department of Physical Therapy, University of Illinois at Chicago, Chicago, IL
08/2011 – 08/2015	Clinical Associate Professor, Department of Medicine, Section of Endocrinology, Diabetes, and Metabolism, University of Illinois College of Medicine, Chicago, IL
08/2011 – 08/2015	Associate Professor (tenure), Department of Physical Therapy, University of Illinois at Chicago, Chicago, IL
08/2012 – present	Member, Integrative Physiology Laboratory, College of Applied Health Sciences, University of Illinois at Chicago, Chicago, IL
08/2012 – 07/2013	Interim co-Director of Professional Education (DPT), Department of Physical Therapy, University of Illinois at Chicago
08/2013 – present	Faculty Fellow, Honors College, University of Illinois at Chicago
08/2015 – present	Professor (tenure), Department of Physical Therapy, University of Illinois at Chicago, Chicago, IL
08/2015 – present	Professor (clinical), Department of Medicine, Section of Endocrinology, Diabetes, and Metabolism, University of Illinois College of Medicine, Chicago, IL
03/2015 – 12/2017	Guest Researcher, Department of Physiotherapy, Federal University of Sao Carlos, SP, Brazil
2015	Guest Professor, Faculty of Medicine, University of Osijek, Osijek, Croatia
07/2016 – present	Director, Clinical Rehabilitation and Technology Research Certificate Program

Senior Leadership at the University and College Level

08/2017 – present	Senior Associate Dean of Clinical Affairs, College of Applied Health Sciences, University of Illinois at Chicago, Chicago, IL
09/2020 – present	Director, UIC Center for Clinical and Translational Sciences KL2 Scholars program, University of Illinois at Chicago
08/2022	Associate Director, UIC Diabetes Center, College of Medicine, University of Illinois at Chicago

Administrative Leadership and Program Development

2012 Development of the Departmental strategic plan for Excellence for Physical Therapy Education and Research

- Lead and implemented the expansion in the enrollment of our professional DPT program by 40%
- Expansion and reformatting of the PhD and M.S. in Rehabilitation programs to meet market demands for qualified faculty teaching and research scholars for professional education
- The development of a research focus and faculty recruitment in neuro-rehabilitation, cardiovascular and pulmonary physical therapy, wound care, orthopedic and sports physical therapy
- Oversaw the expansion of education space and resources from 12,170 square feet in 2007 to more than 20,000 square feet in 2014.
- Co-Lead the strategic plan development and implementation for the Department of Physical Therapy (2012, 2015, and 2019).

2014-present Co-Developed and planned the Orthopedic Physical Therapy faculty practice clinic

- Planned, remodeled and designed more than 3500 square feet
- Hired 3 clinical service faculty and residency mentors
- Grew to more than 25,000 clinic visits per year for Orthopedic Physical Therapy
- Oversaw and implemented compliance measures and revenue cycle development for the external billing of physical therapy, occupational therapy, and cardiac rehabilitation services.

2015 Co-Developed the Department of Physical Therapy Post-Professional Orthopedic Residency Certificate Program and Clinical Practice

- Developed PT 594: Educator Practicum
- Developed PT 594: Physical Therapy Residency Mentorship
- Course Description: During Physical Therapy Residency Mentorship, while being mentored and supervised by physical therapists with expertise in a particular practice setting, physical therapy residents apply and develop advanced skills in a specialized clinical environment that fosters learning, inquiry, and critical/creative thinking.
- Residency accreditation achieved in 2015, 3 residents per cohort.
- Educational model with combined DPT to PhD to residency published in: Integrated approaches to physical therapy education: a new comprehensive model from the University of Illinois at Chicago. *Physiother Theory Pract.* 33: 353-360. 2017.

2013 Co-Developed the Department of Physical Therapy Proposal (MOU) for Professional Pipeline to Promote Diversity in Physical Therapy with UIC and Chicago Public Schools

2014 Co-Developed the Department of Physical Therapy new Anatomy course proposal

- PT604 Anatomy of the Central Nervous System, Head and Neck for Physical Therapy

- PT603 Human Gross Anatomy for Physical Therapy
- 2015 Developed the Department of Physical Therapy Certificate in Clinical Rehabilitation and Technology Research
- Mission: The mission of the University of Illinois at Chicago Certificate in *Human Subject Research Training for Health Professionals* is to provide physical therapists, physical therapy students and other health professionals, who have completed their degree or are still students, advanced knowledge and skills needed to actively participate on a human subject research team. This certificate training will produce clinicians who have an advanced understanding of how to contribute to the development of and participate in human subject research projects.
- 2014 External research contracts developed with Revolution Physical Therapy and Weight Loss for research development and clinical outcomes analysis. (\$36,000/year).
- Results and model: *Physiother Theory Pract* 34: 13-21. 2018.
- 2015 External research and faculty contracts develop with React Physical Therapy for clinical outcomes analysis (\$50,000/year).
- 2015 Co-Developed and Implemented the Department of Physical Therapy Program for the UIC Applied Health Sciences cardiac rehabilitation program with the College of Medicine and the University of Illinois Health Sciences System
- Combined Cardiac Rehabilitation program with on-site heart failure physician practice.
 - Developed a billable exercise testing laboratory service for heart and cardiovascular patients
 - Hired 2 FTE faculty exercise physiologist to administer the program and attained accreditation 2018.
 - Model described in: Ozemek C, **Phillips SA**, et al. Enhancing Participation in Cardiac Rehabilitation: A Question of Proximity and Integration of Outpatient Services. *Curr Probl Cardiol* 43: 424-435. 2018.
- 2017 Leadership team for the DPT program CAPTE re-accreditation self-study and evaluation process.
- 10 year accreditation granted by CAPTE
- 2018 Developed a billable and embedded physical therapy practice in bariatric surgery practice
- Oversee the credentialing process for physical therapist enrollment in insurance plans
 - Developed the pro-forma and business planning for the practice proposal
 - Developed the referral stream and performance outcomes
 - Strategic planning for practice growth
- 2017 to present Senior leadership in the development of College of Applied Health Sciences clinical

services infrastructure and planning

- Leadership in college clinical affairs strategic planning development
- Leadership in pro forma and business plan development of clinical services with college and Departmental administration
- Coordinated billing and revenue cycle management for clinical faculty (more than 50 clinical and support personnel) in Physical Therapy, Occupational Therapy, Psychology, Speech Language Pathology, exercise physiology, assistive technologies.
- Oversee a >\$3.8 million annual insurance billable physical therapy and cardiac rehabilitation office based clinical practice
- Oversee the safety and security policy and procedures for COVID-19 and infection mitigation during pandemic emergency
- Leadership responsibilities in the development of UI Health 55th and Pulaski multispecialty clinic with UI physician group and multiple community partners including space design and remodel of rehabilitation floor in collaboration with Chicago area community partners, hiring of personnel, start-up of electronic medical record, business plan development, billing oversight

LICENSURE

Physical Therapist	Previous: State of Wisconsin	Issue Date: 2000
	Current: State of Illinois	Issue Date: 2008

PREVIOUS CLINICAL POSITIONS

1999-2000	Physical Therapist Internship, Columbia Hospital, Milwaukee, WI
2000	Physical Therapist Internship, Columbus Hospital, Chicago, IL
2000-2005	Physical Therapist, St. Michael's Hospital, Milwaukee, WI

AWARDS AND HONORS

Clinical/Research

1997	Howard Hughes Medical Institute Undergraduate Summer Research Award: Marquette University
2001-2004	National Institutes of Health – Institutional Predoctoral Award National Research Service Award. Medical College of Wisconsin
2004-2005	National Institutes of Health – Institutional Postdoctoral Award National Research Service Award. Medical College of Wisconsin
2004	Microcirculatory Society Benjamin Zweifach Student Award
2005	Iowa Physiological Society (IPS): Trainee Award Finalist <ul style="list-style-type: none">• Abstract competition at annual IPS Meeting (4 finalists)
2005	American Heart Association Postdoctoral Fellowship Award
2006	Young Investigator Award- Clinical Science Cardiovascular Section of the American Physiological Society (APS) <ul style="list-style-type: none">• 1 award selected annually by the cardiovascular section of APS for the outstanding clinical research abstract presented at Experimental Biology
2007	Center for Clinical Translational Science Scholars Award University of Illinois Medical Center at Chicago
2008	American College of Sports Medicine Research Endowment Award
2009	Top paper award for clinical science contribution to Hypertension

- 1 award selected for the most significant original paper published in the journal *Hypertension* in 2008
- 2010 Presidential Early Career Award for Scientists and Engineers (PECASE) Nominee
- 2011 Educator of the Year Award, Physical Therapy, College of Applied Health Sciences, UIC
- 2013 Researcher of the Year, College of Applied Health Sciences, UIC
- 2013 Fellow, American Heart Association, Council on Arteriosclerosis, Thrombosis and Vascular Biology
- 2015 UIC Chancellor's Proof of Concept Award Winner
- 2017 Professor of the Year, College of Applied Health Sciences, University of Illinois at Chicago, Chicago, IL
- 2020 UIC Team Research Award with Dr. Irena Levitan, Office of the Vice Chancellor for Research, UIC
- 2020 American Physical Therapy Association, Dorothy Briggs Scientific Inquiry Award

Academic /Scholastic

- 1998 Phi Beta Kappa, Marquette University
- 1998 Alpha Sigma Nu, Marquette University
- 1999 Wisconsin Physical Therapy Association Academic Award
- 2004 MCW/Excellence in Physiology Award – Summa Cum Laude
 - Awarded annually for excellence in research and academics by the Medical College of Wisconsin, Department of Physiology Graduate Program

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

- 04/1999 – present American Physical Therapy Association
Sections of Cardiovascular and Pulmonary Physical Therapy and Acute Care Physical Therapy
- 04/1999 – 08/2007 Wisconsin Physical Therapy Association
- 06/2004 – present American Physiological Society
- 12/2003 – present Microcirculatory Society, Inc.
- 06/2005 – present American Heart Association
- 10/2008 – present Illinois Physical Therapy Association
- 03/2012 – present APTA Section on Research; APTA Cardiovascular and Pulmonary

EDITORIAL BOARDS/INVITED REVIEWER:

Editorial Board Member:

- 01/2007 – present American Journal of Physiology: Heart and Circulatory Physiology
- 01/2010 – present Microcirculation
- 2014 - 2016 Advances in Vascular Medicine
- 2015 Guest Editor, Progresses in Cardiovascular Diseases
- 2016 - present Associate Editor, Brazilian Journal of Physical Therapy
- 2016 - present Review Editor, Frontiers in Physiology, Exercise Physiology
- 2019 - 2022 Guest Editor, Nutrients Journal

Invited Journal Reviewer:

2004 – present	American Journal of Physiology: Heart and Circulatory Physiology; Journal of Applied Physiology, Journal of Vascular Research; European Journal of Clinical Investigation; Journal of the American College of Cardiology; Diabetes; American Journal of Physiology: Regulatory, Integrative, and Comparative Physiology; Obesity; Hypertension; Journal of Nutrition, Metabolism, and Cardiovascular Disease; Metabolism; Journal of Internal Medicine; Applied Physiology, Nutrition, and Metabolism, Frontiers in Physiology; Journal of Physiology; Medicine, Science, and Sports in Exercise; Progress in Cardiovascular Disease: Circulation, Circulation Research, Journal of the American Heart Association
----------------	--

GRANT REVIEW COMMITTEES AND SERVICE

2009 – 2011	Reviewer, American Heart Association, Vascular Biology and Blood Pressure Study Group Review Committee (Regular member).
2011 – present	Reviewer, American Heart Association, Vascular Biology and Blood Pressure Clinical and Translational Review Group (Regular Member)
2011, 2012	Reviewer, NIH/NHLBI Clinical and Integrative Cardiovascular Sciences Study Section (Temporary Member)
2012- present	UIC Campus Research Board; Co-Chair 2018
2013	Board of the Austrian Science Fund, Invited Scientific Reviewer
2013	Vidi Program; Innovation Research Initiative, Netherlands
2015,2019	Ad Hoc study section, NIH/NHLBI Atherosclerosis and Inflammation of the Cardiovascular System Study Section
2016 – 2018	Chair, Scientific Review Committee, AHA Vascular Biology and Blood Pressure Clinical Translational
2017	Member, NASA Human Exploration Research Opportunities, Radiation Cardio Panel
2018	Member, NASA Space Biology, Integrative Physiology Panel
2018, 2019	Reviewer, NIH/NHLBI Clinical and Integrative Cardiovascular Sciences Study Section (Ad Hoc)
2017–present	Member, NASA Space Radiation Cardio Study Section Panel
2020	Standing member, NIH Clinical and Integrative Cardiovascular Sciences Study Section
2021- 2024	Standing member, NIH Clinical and Integrative Cardiovascular and Hematological Sciences Study Section

APPOINTED/ELECTED LEADERSHIP AND COMMITTEE POSITIONS

08/2005 – present	Member, Doctor of Physical Therapy Program Admissions Committee, Department of Physical Therapy, University of Illinois at Chicago
09/2007 – 2010	Faculty Advisory Committee (elected), Department of Physical Therapy, University of Illinois at Chicago
2008	Graduate Education Task Force (appointed), Department of Physical Therapy, University of Illinois at Chicago
2009	Faculty Search Committee (appointed), Department of Physical Therapy, University of Illinois at Chicago, Assistant Professor

2009 – 2017	Graduate Admissions Committee (appointed), M.S. in Rehabilitation Sciences, Department of Physical Therapy, University of Illinois at Chicago
2010	Faculty Search Committee, Department of Physical Therapy, University of Illinois at Chicago, Clinical Assistant Professor, Assistant Professor
08/2010 – present	Associate Head, Department of Physical Therapy, University of Illinois at Chicago
08/2010 – present	Faculty Advisory Committee (appointed), Department of Physical Therapy Committee
2011	Member, Faculty Search Committee, Department of Kinesiology and Nutrition, University of Illinois at Chicago, Assistant Professor
2011 – present	Member, Editorial Board of the Department of Physical Therapy Newsletter (“Moment”), University of Illinois at Chicago
2011 – 2016	Member, PhD (Rehabilitation Track) program academic performance committee, College of Applied Health Sciences, University of Illinois at Chicago
2011 – 2017	Member, Promotion and Tenure Committee, College of Applied Health Sciences, University of Illinois at Chicago
2012- 2013	Member, Committee on the formation of a new PhD in Rehabilitation, UIC College of Applied Health Sciences. *Co-developed University application for the formation a new PhD in Rehabilitation
2012	Chair (appointed), Faculty Search Committee for Assistant Director of Clinical Education, Department of Physical Therapy, University of Illinois at Chicago
2012	Chair (appointed), Faculty Search Committee for Clinical Assistant/Associate Professor, Department of Physical Therapy, University of Illinois at Chicago
2012-2013	Interim Co-Director of Professional Education (appointed), Department of Physical Therapy, University of Illinois at Chicago
2012 – present	Member, Promotion and Tenure Committee (elected), Department of Physical Therapy, University of Illinois at Chicago
2012	Member, Search Committee for Associate Dean for Research, College of Applied Health Sciences, UIC
2014	Chair, Search Committee for Clinical Instructor, Department of Physical Therapy, UIC
2015 – 2016	Chair, Ad hoc Policy and Procedures Review Committee, Department of Physical Therapy, UIC
2015	Chair, Search Committee for Clinical Assistant Professor, Director of Cardiac Rehabilitation, Department of Physical Therapy, UIC
2015, 2019	Chair, Search Committee for Tenure Track Assistant Professor, Department of Physical Therapy, UIC
2016 – present	Chair, Department of Physical Therapy Promotion and Tenure Committee, UIC
2016 – present	Member, committee on PhD in Rehabilitation Sciences Curriculum
2019	Center for Clinical and Translation Sciences, Education and Professional Development Advisory Committee, UIC

2019 – present	Chair, Department of Physical Therapy Tenure Track Faculty Search Committee, UIC
2020-2022	Chair, Department of Physical Therapy, MS in Rehabilitation program 10-year program review and self study.
2021- present	Member, Executive Advisory Board, UI Health 55 th and Pulaski multispecialty clinic initiative (start-up funded by the state of Illinois)

SERVICE

University

2010 – 2013	Member, Research Advisory Council Member, Office of the Vice Chancellor for Research, University of Illinois at Chicago
2011- 2013	Co-Director and organizer of the Department of Physical Therapy hosted career fair, University of Illinois at Chicago
2012 - 2016	Member/Reviewer Campus Research Board, Office of the Vice Chancellor for Research, University of Illinois at Chicago
2016 – 2019	UIC faculty Senate
2016 – present	UIC Vice Chancellor for Research Conflicts of Interest Committee Member

Campus Wide Workshops and Training

2015	Office of the Vice Chancellor for Research (Research and Development Services); <u>Presenter</u> of “Writing for the Reviewer: Strengthening your NIH Mentored K Proposal”
2009-2011	Office of the Vice Chancellor for Research (Research and Development Services); <u>Moderator</u> of “Writing for the Reviewer: Strengthening your NIH Mentored K Proposal”
2009-2012	Center for Clinical and Translational Sciences; Invited panel member of session entitled “Overcoming Research Pitfalls as a New Investigator” for the summer program in CCTS Clinical and Translational Research Methods.
2015	UIC Postdoctoral Association, Invited workshop on, “Basics of Writing and Winning a Winning Early Career Development Grant.”
2016	UIC Future of Science Seminar Series, Invited seminar on, “Introduction to Writing Effective Specific Aims.”

Public Service

2009 – 2011	<u>Volunteer Instructor on the value of Science for Careers in Rehabilitation Sciences and Research</u> , UIC College Prep Health Science Day (program designed to facilitate urban high school students’ interested in the health sciences).
2011	<u>Volunteer and faculty mentor</u> for the Susan G. Komen 3-day walk for the cure
2012	<u>Volunteer Research Mentor</u> , Proviso Math and Science Academy, Maywood, IL. Provided hands on research and scientific mentorship for 2 senior high schools students.
2015-2016	Advisory Board Member to the Chicago Grant Park Conservancy for the outdoor Health Space
2016-2017	American Heart Association Work Site Wellness Task force committee (Chicago Midwest office).

Professional Committees and Symposium Chaired

- 2008 Chair, Featured Topic Symposium on “Exercise, Oxidative Stress, and Endothelial Function” sponsored by the Cardiovascular Section of the American Physiological Society at Experimental Biology 2008.
- 2010 Chair, Symposium on Integration and Mechanisms in Hypertension III at the 2nd International Symposium on Hypertension: Translational Medicine in Hypertension Meeting, Osijek, Croatia (11/18/2010 – 11/21/2010).
- 2012 Member, APTA Academic Council for Physical Therapy Education
- 2012 Nominated, member of the Exercise Physiology Task Force of the Academic Council for Physical Therapy Education
- 2012 Member, Consortium of the Research-Intensive Physical Therapy Programs (RIPPs) Consortium.
- Established to promote academic excellence by strengthening the community of research-intensive physical therapy programs.
- 2012 Member, Education Programming Committee, APTA Combined Sections Meeting, Section on Cardiovascular and Pulmonary Physical Therapy Education
- 2013 Co-Chair, Symposium on Environmental and Exercise Physiology at the Croatian Physiological Society (09/11/2013-09/15/2013).
- 2013 Co-Chair/Moderator, session on Translational Insights in the Regulation of Vascular Resistance in Health and Disease, American Heart Association Scientific Sessions (11/19/2013).
- 2013 Poster Professor, session on Microcirculation and Cerebral, Coronary, and Peripheral Circulation, American Heart Association Scientific Sessions (11/18/2013).
- 2015 Research Society on Alcohol Symposium co-Chair on Binge Drinking in Young Adults: Is it time for an eye opener?
- 2016 Co-Chair and Moderator, Symposium Mitochondrial Redox Signaling and Vascular Function in Health and Disease, American Heart Association Scientific Sessions (11/14/2016).
- 2016 Co-Chair and Moderator, Symposium on Mobile Health Technologies and Chronic Disease Management: Applications in Rehabilitation, American Congress on Rehabilitation Medicine, Chicago, IL (10/31/2017).
- 2017 Co-Chair and presenter, APTA Combined Sections Meeting session on It takes a team! An interdisciplinary approach to fitness, wellness and prevention for children, San Antonio, TX (02/16/2017)
- 2018 Co-Chair, APTA Combined Sections Meeting session on Hospitalizations Hinder Patient’s return to their Prior Level of Function, APTA section on Acute Care Physical Therapy (02/22/2018)
- 2018 Co-Chair, Symposium on From Mice to Men and Back: What have we really learned about the regulation of Coronary Vascular Function in Health and Disease?, Experimental Biology, San Diego, CA (04/21/2018)
- 2019 Platform member, Symposium on Of Molecules, Mice, and Men: PT Faculty-led Basic and Translational Research. Physical Therapy Combined Sections Meeting, Washington, DC (01/06/2019). Presentation on “Growing and Fostering Translational Research that Complements the Academic Missions”
- 2020 Workshop presenter and moderator, Center for Clinical and Translational Sciences Awards (CTSA) Program, Plenary Session on Diversity, Equity and

Inclusion in CTSA, Presentation on “Prioritizing Representation” and “Building Partnerships”, Virtual Meeting (.

RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS

Active-Peer Review

National/Institutional

Source: **NIH/NHLBI R01 HL130513A1**
Title: Improving Blood Pressure and Vascular Risk with Resistance Exercise in African Americans
PI: Shane A. Phillips PT, PhD
Role: PI
Dates: 7/01/16 – 4/30/23 (NCE)
Direct Funds: \$2,330,347

Source: **NIH/NIDDK R01 DK109948**
Title: Strategies and functional outcomes of enhancing in vivo production of soluble RAGE isoforms
PI: Jacob Haus, PhD
Role: consultant/co-I
Dates: 7/01/16 – 6/31/21
Direct Funds: \$2,204,831

Source: **NIH/NHLBI K99/R00 HL14004**
Title: DNA Methylation and Vascular Function in Obesity: Role of Exercise and Weight Loss
PI: Abeer M. Mohamed, MD, PhD
Role: Mentor and co-I
Dates: 01/01/18 – 12/31/22
Direct Funds: \$212,640 K phase; \$962,730 R phase

Source: **NIH/NHLBI T32 HL134634**
Title: Precision Lifestyle Medicine and Translation Research (PREMIER)
Role: Mentorship core faculty
PI: Ben Gerber MD/Jun Ma PhD(Co-PIs)
Dates: 04/01/18-03/31/23
Direct Funds: \$251,106; Year 1

Source: **NIH/NHLBI T32HL139439**
Title: Training Program in Personalized Cardiovascular Medicine (TPIPCVM)
Role: Mentor
PI: Dawood Darbar MD
Dates: 07/01/2018 – 06/30/2023
Direct Funds: \$213,300 Year 1

Source: **NIH/NHLBI R01HL141120**

Title: Microvascular Endothelial Kir Channels in Flow Induced Dilation and Hypertension
Multi PI: Irena Levitan PhD and Shane A. Phillips PT, PhD
Role: co-PI
Dates: 04/01/19 – 3/30/24
Direct Funds: \$1,607,572

Source: **K01 HL148503**
Title: The impact of a resistance training intervention on blood pressure control in older adults with Sarcopenia
PI: Deepika Laddu, PhD
Role: Mentor
Dates: 06/01/19 – 05/31/24
Direct: \$806,733 (Impact: 10)

Source: **NIH R01AG048262**
Title: Fatigability of Limb Muscle in Older Adults: Protective Effects of Exercise
PI: Hunter, Fitts, Sundberg (MPI)
Role: co-I
Dates: 09/01/2020 – 04/30/2021
Direct: \$1,571,669

Source: **NIH 2KL2TR002002**
Title: Institutional Career Development
PI: Shane A. Phillips, PT, PhD
Role: PI
Dates: 09/01/2020 – 04/30/2025
Direct: \$1,444,705

Source: **American Heart Association Cardio-oncology SFRN**
Title: Defining Differences in Endothelial Function and Response to CTx among a Diverse Population of Women with breast cancer.
PI: Melinda Stolley, PhD (Medical College of Wisconsin)
Role: co-PI population project (Site PI)
Dates: 07/1/2021 – 06/30/2025
Direct: \$575,857 (UIC)

Source: **NIH R01 HL161386**
Title: Role of Adiposomes in Diabetes-Associated Endothelial Dysfunction and Restorative Effects of Exercise and Metabolic Surgery
PI: Abeer Mahmoud, MD, PhD
Role: co-I
Dates: 1/1/2022 – 12/31/2026
Direct: \$2,420,224.00

Source: **NIH R01HL158634**

April 21, 2023

Title: Signaling to and from the Vascular/Endothelial Compartment and Progression of HCM Linked to Sarcomere Mutations
PI: Beata Wolska, PhD, Paul Goldspink, PhD, R. John Solaro, PhD (Multi-PI)
Role: co-I
Dates: 4/1/2022 – 3/31/2027
Fund: \$2,424,906

International

Previous International Grants

Source: **Ministry of Science, Education, and Sports (Republic of Croatia)**
PI: Shane A. Phillips PT, PhD (Host Laboratory International Research Training Exchange with Faculty of Medicine in Osijek Croatia)
Title: Project 1: Mechanisms of microvascular reactivity in resistance arteries.
Project 2: Influence of diet and exercise on vascular reactivity and vascular stiffness.
Dates: 06-15-2011 to 12-15-2011
Role: PI
Funds: \$26,000

Source: **Brazilian Scientific Mobility Program- 303524/2014-6**
PI: Audrey Bohrgi-Silva (Federal University of Sao Carlos)
Title: The Peripheral Muscle Oxygenation and Ventilation During Dynamic Exercise High Intensity Players in Football: A randomized trial of the effects of the Respiratory Muscle Training Improves Exercise Tolerance clinical trial.
Dates: 7/1/2014 – 06/30/17 extended to 12/30/18
Role: Visiting Research Professor to Federal University of Sao Carlos, Sao Paulo, Brazil
Total Funds: 518,186.66 BRL ~ \$232,000 USD

Completed Peer Review

Title/Source: **NIH (T32) Institutional National Research Service Award (post doctoral) Mechanisms of Human Arteriolar Dilation**
PI: Allen Cowley Ph.D.
Dates: 8/1/2004-7/1/2005
Role: Postdoctoral Fellow

Source: **American Heart Association: Greater Midwest Affiliate. Post doctoral Fellowship**
Title: Role of Endothelial Cytoskeleton in Flow Mediated Dilation of Human Coronary Arterioles.
Dates: 7/1/2005-6/30/2007
Status: Completed
Funds: \$91,272

Title: **Role of Epoxyeicosatrienoic Acids as EDHF in Human Coronary Arterioles**

Source: VA Merit Review
PI: David Gutterman MD
Role: Co-Investigator (25%)
Dates: 10/01/03-9/30/08
Direct Funds: \$717,000

Title: **Mechanisms of Human Coronary Arteriolar Dilation**
Source: NIH/NHLBI (R01)
PI: David Gutterman MD
Role: Co-Investigator (25%)
Dates: 12/1/05 – 11/30/10
Direct Funds: \$1,250,000

Title: **Role of oxidative stress and apoptosis in endothelial dysfunction in AL amyloidosis and protection using antioxidant (MitoQ) and antiapoptotic (Bax inhibitor peptide) therapy**
Source: Amyloidosis Research Foundation
PI: Raymond Migrino, MD
Role: Co-Investigator
Date: 03/1/2007 – 02/30/2009
Direct Funds: \$30,000

Title: **The Protective Effect of Soy on Vascular Endothelial Health**
Source: Soy Health Research Program Incentive Grant Program
PI: Shane Phillips PT, PhD
Role: Principal Investigator
Date: 03/15/2006 – 03/15/2008
Direct Funds: \$10,000

Source: **American College of Sports Medicine-Research Endowment Award**
Title: Exertional Hypertension and Vascular Dysfunction
PI: Shane Phillips PT, PhD
Dates: 7/1/2008 – 1/30/2010
Direct Funds: \$10,000

Source: **University of Illinois at Chicago Center for Clinical and Translational Science**
Title: Center for Clinical and Translational Science Scholar Award
PI: Shane Phillips PT, PhD
Role: Principal Investigator
Dates: 09/1/2007 – 8/31/2009
Direct Funds: \$50,000

Source: **NIH/NHLBI (RO1 HL095701A2S1)**
Title: Supplement to Promote Diversity in Health Related Research to the Effects of low carbohydrate and low fat diets on endothelium function in human obesity

PI: Shane A. Phillips PT, PhD
Role: PI (mentor to Graduate Assistant Nina Franklin)
Dates: 05/09/11 – 07/30/13 (returned early due to graduation)
Direct Funds: \$77,481

Source: **Massage Therapy Foundation**
PI: Nina Franklin, M.S.
Title: Efficacy of massage therapy in attenuating vascular dysfunction after exertion-induced muscle injury
Dates: 09/01/10 – 4/30/12
Role: Sponsor and co-PI
Funds: \$30,000

Source: **UIC Chancellors Discovery Fund Award**
Title: Role of adipose tissue in mediating cardio-protective effects of alternate day fasting
PI: Shane A. Phillips PT, PhD
Role: Co-Principal Investigator
Dates: 01/04/2010-12/30/2012
Direct Funds: \$58,000

Source: **NIH/NHLBI (K23 HL085614) Mentored-Patient Oriented Research Career Development Award**
Title: Mechanisms of exertional hypertension and vascular dysfunction
PI: Shane A. Phillips PT, PhD
Role: PI
Dates: 08/25/2007 – 6/30/2013 (no cost extension)
Direct Funds: \$596,897

Source: **American Heart Association-Scientific Development Grant**
Title: Alternate day fasting for weight loss and cardio-protection
PI: Krista Varady PhD
Role: Co-Investigator
Dates: 01/01/10 – 12/31/2014
Direct Funds: \$325,000

Source: **UIC College of Nursing Internal Research Support Program**
PI: Mariann Piano RN, PhD
Title: The Effects of Binge Drinking on Endothelin-1 and Vascular Function
Dates: 04/01/2012 to 03/31/2014
Role: Co-PI
Funds: \$10,000

Source: **NIH/NHLBI (RO1 HL095701-03S1)**
Title: Supplement to Promote Diversity in Health Related Research to the Effects of low carbohydrate and low fat diets on endothelium function in human obesity

PI: Shane A. Phillips PT, PhD
Role: PI (mentor to Graduate Assistant Austin Robinson)
Dates: 09/01/12 – 07/30/15
Direct Funds: \$105,537

Source: **International Society of Sports Nutrition**
PI: Austin Robinson (PhD in Rehabilitation Sciences Student)
Title: The Effects of Inorganic Nitrate Supplementation on Macro and Microvasculature Function Following Acute Exercise
Dates: 6-1-2014 – 12-30-2015
Direct Funds: \$10,000

Source: **UIC- Office of Vice Chancellor for Research**
Title: Developing methods and measures to investigate the impact of binge drinking on cardiovascular and cerebrovascular structure and function in young adults
PI: Piano (PI)
Role: Co-I
Dates: 05/01/13 – 12/01/2014
Funds: \$20,000

Source: **UIC Campus Research Board**
PI: Michael Brown PhD
Title: Optimizing Vascular Health in African Americans
Dates: 1/1/2014 – 12/30/2014
Role: Co-I
Direct Funds: \$20,000

Source: **UIC College of Nursing Internal Research Support Program**
PI: Pamela Martyn-Nemeth RN, PhD
Title: Measurement of Insulin Resistance in Adolescents and Young Adults with Type 1 Diabetes
Dates: 05/01/10 to 12/30/15 (extended)
Role: Co-Investigator
Funds: \$10,000

Source: **UIC College of Nursing Internal Research Support Program**
PI: Laurie Quinn RN, PhD
Title: Factors Associated with Exercise Intolerance in Heart Failure
Dates: 04/01/2010 to 03/31/2014 (extended)
Role: Co-Investigator
Funds: \$10,000

Source: **NIH/NIDDK (R01 DK084016)**
Title: Intradialytic protein supplementation and exercise training in dialysis patients
Dates: 09/01/10 – 08/31/15
PI: Ken Wilund PhD

Role: Co-Investigator
Direct Funds: \$1,672,392 (UIC Direct: \$409,105)

Source: **NIH/NIDDK T32 DK080674**
PI: Terry Unterman MD
Title: Diabetes, Nutrition, and Obesity Training Program
Dates: 07/01/10 – 06/30/15
Role: Co-Investigator (Primary Trainer)
Direct Funds: FY 11: \$128,659

Source: **NIH/NHLBI R01 HL095701**
Title: Effects of low carbohydrate and low fat diets on endothelium function in human obesity
PI: Shane A. Phillips PT, PhD
Role: PI
Dates: 08/13/10 – 06/30/16 (no-cost extension)
Direct Funds: \$1,250,000

Source: **UIC Chancellor's Proof of Concept**
PI: Shane A. Phillips PT, PhD
Title: Wearable Continuous Cardiovascular Sensor and Algorithm for Healthcare and Rehabilitation
Role: PI
Dates: 8/01/2015 – 03/31/2017
Direct Funds: \$60,000

Source: **NIH/NHLBI R01 HL070187**
PI: Tohru Fukai MD, PhD
Title: Modulation of Vascular Superoxide Dismutase
Dates: 09/13/13 – 08/31/18
Role: Co-I
Direct Funds: \$1,645,229

Source: **NIH K23 DK094829-01A1**
Title: Gender Disparities and Vascular Function in Chronic Kidney Disease Outcomes
PI: Ricardo (PI)
Role: Co-I
Dates: 01/15/13 – 12/30/18

Source: **NIH/NIAAA R21 AA024535**
Title: Binge Drinking and Cardiovascular Risk in Young Adults
PI: Shane A. Phillips PT, PhD, Mariann Piano, RN, PhD,
Role: PI (Multiple PI)
Dates: 3/01/17– 2/28/20 (NCE)
Direct Funds: \$350,000

Source: **NIH/NHLBI R01 HL073965**
Multi PI: Irena Levitan, PhD, Shane Phillips PT, PhD, David Eddington PhD
Title: Cholesterol Regulation of Endothelial K⁺ Channels
Dates: 04/01/13 – 03/31/20 (NCE)
Role: PI (Multiple PI)
Direct Funds: \$1,028,840.00

INTELLECTUAL PROPERTY AND DISCOVERY

- 10/2011 **Title:** A wearable cardiovascular and physical activity monitor that includes a field adaptive neural network processor, modular extensible functional interface, and open communications framework for healthcare delivery and research platforms (Disclosure to UIC Office of Technology Management; DF050; Provisional Patent)
- 05/2014 **Title:** A non-invasive ePhysiologic monitor with an adaptive regression algorithm for continuous blood pressure measurement from multispectral photo pulse-plethysmography (Disclosure to UIC Office of Technology Management: DH150).
- 09/2019 PCT Patent Application No. PCT/US2018/052144
(based on U.S. Application No. 62/561,802)
Title: Sensor and Methods for Continuous Non-Invasive Blood Pressure Measurement and Cardiovascular Hemodynamics Monitoring in Healthcare, Rehabilitation and Wearable Wellness Monitors
Filing Date: September 21, 2018

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

International

1. **Phillips S.A.** “Exercise, Oxidative Stress and Human Endothelial Function.” at the 5th Croatian Congress of Pharmacology and the 2nd Congress of Croatian Physiological Society Meeting, Osijek, Croatia, (9/19/2007 – 9/23/2007).
2. Gutterman D.D., B.T. Larsen, **S.A. Phillips**, Y.P. Liu. “Endothelial Function and Cardiovascular Risk” Presented at 5th ICCP conference, Beijing, China, (10/9/2009 – 10/12/2009).
3. **Phillips S.A.** Invited symposium speaker on “Microcirculation, Blood Pressure, and Physical Exercise.” at the 2nd International Symposium on Hypertension: Translational Medicine in Hypertension Meeting, Osijek, Croatia (11/18/2010 – 11/21/2010).
4. Clark J.D., C.A. Courtney, M.K. Barrack, **S.A. Phillips**. Presentation on “The relationship between altered nociception and cardiovascular dysfunction following ACL rupture” at the International Federation of Orthopedic Manipulative Physical Therapists. World Congress of Manual/Musculoskeletal Physiotherapy. Quebec City, Canada (9/30/2012 – 10/5/2012).
5. **Phillips S.A.** Invited international speaker on “Vascular Dysfunction and Exercise.” At Congress of Croatian Physiological Society and Regional Physiological Society. Rijeka, Croatia (09/13/2013 – 09/15/2013). *Member International Organizing Board.
6. **Phillips S.A.** Invited speaker on “Acute and Chronic Effects of Physical Exercise on Peripheral Vascular Function.” at XVII International Symposium of Cardiopulmonary Physiotherapy and Intensive Care Physiotherapy. Salvador, Brazil (09/04/2014).

7. **Phillips S.A.** Invited speaker on “Clinical Implications of Diet and Exercise on Microvascular Function.” at XVII International Symposium of Cardiopulmonary Physiotherapy and Intensive Care Physiotherapy. Salvador, Brazil (09/05/2014).
8. **Phillips S.A.** Invited speaker on “Exercise, Diet, and Vasodilator Function in the Microcirculation” at the Total Cardiology Symposium. Calgary, Canada (09/24/2014).
9. **Phillips S.A.** Invited speaker on “Lifestyle Implications and Microvascular Function in Obesity” at Cardiology Grand Rounds, University of Calgary, Calgary, Canada (9/30/2014).
10. **Phillips S.A.** Invited speaker on “Lifestyle Interventions and Hydrogen Peroxide: Implications for Cardiometabolic Disease” at the Department of Pharmacology, Faculty of Medicine, University of Sao Paulo, Ribeirão Preto, SP, Brazil (03/19/2015).
11. **Phillips S.A.** Invited workshop on “Cardiovascular Biomarkers and Risk Measurement Tools for Research and Rehabilitation” at the Department of Physiotherapy, Federal University of Sao Carlos, Sao Carlos, SP, Brazil (3/23/2015-3/25/2015).
12. **Phillips S.A.** Invited lecture on “Cardiovascular Biomarkers and Risk Measurement Tools for Research and Rehabilitation” at the Society of Cardiology in Sao Paulo, Sao Paulo Brazil (07/13/2015).
13. **Phillips S.A.** Invited lecture on “Evaluating Endothelial Function: Applications for Clinical Practice” at the Congress of the Society of Cardiology of Sao Paulo, Sao Paulo, Brazil. (05/27/2016).
14. **Phillips S.A.** Invited lecture on “Cardiac Rehabilitation and Exercise Prescription for Primary and Secondary Prevention” at the Congress of the Society of Cardiology of Sao Paulo, Sao Paulo, Brazil. (05/27/2016).
15. **Phillips S.A.** Invited workshop on “Cardiovascular Biomarkers and Risk Measurement Tools for Research and Rehabilitation” at the Department of Physiotherapy, Federal University of Sao Carlos, Sao Carlos, SP, Brazil (6/1/2016).
16. **Phillips S.A.** Invited speaker on “Exercise Interventions and Peripheral Arterial Function: Implications for Cardiometabolic Disease” XVIII International Symposium of Cardiopulmonary Physiotherapy and Intensive Care Physiotherapy; Congress of Brazilian Cardiovascular Physical Therapy. Belo Horizonte, MG, Brazil. (06/08/2016).
17. **Phillips S.A.** Invited speaker on “Peripheral Vascular Biomarkers in Cardiac Rehabilitation and Practice” XVIII International Symposium of Cardiopulmonary Physiotherapy and Intensive Care Physiotherapy; Congress of Brazilian Cardiovascular Physical Therapy. Belo Horizonte, MG, Brazil. (06/10/2016).
18. **Phillips S.A.** Invited speaker on “Interprofessional Education and Cardiac Rehabilitation Programs.” International symposium on Innovative Experiences in Cardiac Rehabilitation Programs. XVIII International Symposium of Cardiopulmonary Physiotherapy and Intensive Care Physiotherapy; Congress of Brazilian Cardiovascular Physical Therapy. Belo Horizonte, MG, Brazil. (06/10/2016).
19. **Phillips S.A.** Invited lecture on “Endothelial Dysfunction in Health and Disease: Implications for Exercise.” At the Department of Physiology, Federal University of Sao Carlos, Sao Paulo, Brazil. (12/05/2016).
20. **Phillips S.A.** Invited lecture on “Endothelial Dysfunction in Health and Disease: Implications for Exercise.” At the Department of Cardiology, University of Sao Paulo, Ribeiro Preto, Brazil. (12/06/2016).
21. **Phillips S.A.** Invited lecture on “Exercise and Weight Loss Uncovers Novel Vasodilator Mechanisms in Human Microcirculation.” At the Department of Pharmacology, School of Medicine, University of Sao Paulo, Ribeiro Preto, Brazil. (12/09/2016).

22. **Phillips S.A.** Invited workshop on “Cardiovascular Risk Biomarkers in Rehabilitation.” At the Department of Rehabilitation Sciences at the Universidade de Nove de Julho, Sao Paulo, Brazil (04/11/2017).
23. **Phillips S.A.** Invited lecture on “Cardiovascular Risk Markers in Rehabilitation.” At the School of Physical Education and Physical Therapy, Federal University of the Amazonas, Manaus, Brazil (06/12/2017).
24. **Phillips S.A.** Invited lecture on “Microvascular Function and Cardiac Rehabilitation: A Canary in the Coal Mine.” At the Department of Physiotherapy, Federal University of Sao Carlos, Sao Carlos, SP Brazil (09/21/2020; Zoom lecture).

National

1. **Phillips S.A.** “Exercise, Oxidative Stress and Endothelial Function in Humans.” at the American College of Sports Medicine: Integrative Physiology of Exercise Meeting, Indianapolis, IN, (9/28/2006-9/31/2006).
2. **Phillips S.A.** “The Effects of Acute Exertion on Human Endothelial Function.” at Experimental Biology, San Diego, CA, (4/9/2008).
3. **Phillips S.A.**, “Obtaining a Mentored Award: An Awardees Perspective.” at the American College of Sports Medicine, Seattle, WA, 2009.
4. **Phillips S.A.** “Submitting an R01 Proposal.” at the NIH National Heart, Lung, and Blood Institute Clinical (K23) Awardees Meeting: Planning for Independence, Washington, DC, 2011.
5. Martino S and **S.A. Phillips**, Invited pre-conference course on “Assessment and treatment of the obese patient across the lifespan: The role of physical therapy” at the Combined Sections meeting of the APTA, San Diego, CA. January 21, 2013.
6. Martino S. and **S.A. Phillips**, Course on “Evidence Based Practice for the Prevention and Treatment of Cardiovascular Disease across the Lifespan” at the American Congress of Rehabilitation Medicine, Dallas, TX, 2015.
7. Martino S. and **S.A. Phillips**, Lecture on “Evidence Based Practice for the Prevention and Treatment of Cardiovascular Disease across the Lifespan” at the Combined Sections meeting of the APTA, Anaheim, CA, 2016.
8. Phillips S.A. Symposium speaker on “Overview of Health Technologies and Management of Non-communicable, Chronic Disease” at the American Congress on Rehabilitation Medicine, Chicago, IL, 2016.

Invited Seminars and Lectures (Local and National)

1. **Phillips S.A.**, “Effect of Temperature and pH on Skeletal Muscle Fatigue in Rat Soleus Muscle” *Howard Hughs Undergraduate Summer Research Training Seminar*, Marquette University-Biology Department, Milwaukee, WI: 1997.
2. **Phillips S.A.**, “Role of Angiotensin Receptors in Peripheral Vascular Function” in the Department of Physiology, Medical College of Wisconsin, Milwaukee, WI; 2001.

3. **Phillips S.A.**, “The Role of the Angiotensin AT₁ receptor in Altered Reactivity of Skeletal Muscle and Cerebral Resistance Arteries” in the Department of Physiology, Medical College of Wisconsin, Milwaukee, WI; 2002.
4. **Phillips S.A.**, “Angiotensin AT₁ Receptor Activation Maintains the Normal Mechanisms of Vascular Relaxation” in the Department of Physiology, Medical College of Wisconsin, Milwaukee, WI; 2003.
5. **Phillips S.A.**, Invited lecture on “The Renin Angiotensin System Maintains the Normal Mechanisms of Vascular Relaxation” in the School of Veterinary Medicine, University of Wisconsin, Madison, WI; 2003.
6. **Phillips S.A.**, Invited lecture on “Vascular Function in Health and Disease” in the Department of Physical Therapy, University of Illinois at Chicago, Chicago, IL; 2003
7. **Phillips S.A.**, Invited lecture on “The Role of the Renin Angiotensin System in Vascular Disease” in the Department of Physical Therapy, University of Illinois at Chicago, Chicago, IL; 2004.
8. **Phillips S.A.**, Invited lecture on “Vascular Consequences of Obesity and Exercise” in the Department of Human Nutrition, University of Illinois at Chicago, Chicago, IL; 2005.
9. **Phillips S.A.**, Invited lecture on “Vascular Consequences of Diet and Exercise: Oxidative Stress and Human Endothelial Function” University of Wisconsin-Milwaukee in the Department of Human Movement Sciences, Milwaukee, WI; 2007.
10. **Phillips S.A.**, “The Effects of Low Carbohydrate and Low Fat Diets on Vascular Endothelial Function” in the Division of Pulmonary Medicine, Medical College of Wisconsin, Milwaukee, WI; 2007.
11. **Phillips S.A.**, “Oxidative Stress and Human Endothelial Function: Implications of Diet and Exercise” in the Division of Geriatrics, Medical College of Wisconsin, VA Medical Center-Milwaukee, WI; 2007.
12. **Phillips S.A.**, “Oxidative Stress and Human Endothelial Function: Implications of Diet and Exercise” in the Division of Cardiovascular Medicine, Medical College of Wisconsin, Milwaukee, WI; 2007.
13. **Phillips, S.A.**, “Exercise and Vascular Health: Is there Ever too much of a Good Thing?” in the College of Medicine, Clinical and Translational Scholars Program, University of Illinois at Chicago, Chicago, IL; 2007.
14. **Phillips S.A.**, Invited panel discussion on “Overcoming Research Pitfalls” in the UIC School of Public Health, Center for Clinical and Translational Sciences Intensive Summer Program in Clinical and Translational Research, Chicago, IL; 2008.
15. **Phillips, S.A.**, “Oxidative Stress and Human Endothelial Function: Implications for Diet and Exercise” in the Department of Community and Physical Medicine (Division of Physical Therapy), Duke University, Durham, NC, 2008.
16. **Phillips, S.A.**, “Exercise, Diet, and Endothelial Function: Is there Ever too Much of a Good Thing?” in the Department of Physical Therapy, University of Illinois at Chicago, Chicago, IL 2008.
17. **Phillips, S.A.**, “Writing for the Reviewer: Strengthening your NIH Mentored K Proposal” in Office of the Vice Chancellor for Research, University of Illinois at Chicago, Chicago, IL, 2008.
18. **Phillips, S.A.**, “Effects of Exercise and Diet on Macro- and Micro- Vascular Function: Mechanisms and Implications.” In the Department of Kinesiology, Cardiovascular Seminar Series, University of Illinois at Urbana-Champaign, Urbana, IL, September 18, 2009.
19. **Phillips, S.A.**, “The Effects of Exercise on Macro- and Micro- Vascular Endothelium” in the College of Medicine, Grand Rounds, Division of Metabolism and Endocrinology, University of Illinois at Chicago, Chicago, IL, 2009.

20. **Phillips, S.A.**, Moderator of the Career Development Session entitled, “Writing for the Reviewer: Strengthening your NIH Mentored K Proposal” in the Office of the Vice Chancellor for Research, University of Illinois at Chicago, Chicago, IL, 2009.
21. **Phillips S.A.**, Wound Healing Seminar Series Lecture entitled, “Exercise and Vascular Endothelium: Role of Reactive Oxygen Species.” In the Center for Wound Healing and Tissue Regeneration, College of Dentistry, University of Illinois at Chicago, Chicago, IL October 15, 2009.
22. **Phillips S.A.**, “Exercise and Diet for Macro- and Micro- Vascular Function: Mechanisms and Implications.” In the Department of Kinesiology and Nutrition Seminar Series, University of Illinois at Chicago, Chicago, IL, October 16, 2009.
23. **Phillips S.A.**, Exercise, “Diet, and Human Endothelial Function: Mechanisms and Implication.” Invited presentation in the Department of Cellular and Integrative Physiology, Indiana University School of Medicine, Indianapolis, IN, March 9, 2010.
24. **Phillips S.A.**, “Exercise, Diet, and Human Endothelial Function: Mechanisms and Implications” in the Department of Pathology Seminar, University of Illinois at Chicago, College of Medicine, Chicago, IL September 18, 2011.
25. **Phillips S.A.** and Corcos D., “Optimizing the Grant Submission and Resubmission Process” in the Department of Physical Therapy, University of Illinois at Chicago, Chicago, IL September 23, 2011.
26. **Phillips S.A.**, Invited lecture on “Impact of Exercise and Diet on Vascular Function: Mechanisms and Implications” in the Department of Physical Therapy. University of Alabama-Birmingham, Birmingham, AL. 2012
27. **Phillips S.A.**, Invited lecture on “Impact of Exercise and Diet on Vascular Function: Mechanisms and Implications” in the Division of Physical Therapy, Department of Physical Medicine and Rehabilitation, Medical School, University of Minnesota, Minneapolis, MN. 2012.
28. **Phillips S.A.**, Invited lecture on “Hydrogen Peroxide and Vasodilator Plasticity in the Microcirculation” AHS College Researcher of the Year Award lecture, University of Illinois at Chicago, Chicago, IL 2013.
29. **Phillips S.A.**, Invited speaker on “The Importance of Physical Activity for Vascular Health” American Heart Association-Global Congress on Exercise, Scientific Sessions, Dallas, TX 2013.
30. **Phillips S.A.**, Invited speaker on “Midlife Adulthood: Interventions to Promote Physical Activity in Overweight and Obese Adults” American Heart Association-Global Congress on Exercise, Scientific Sessions, Dallas, TX 2013.
31. **Phillips S.A.**, Invited speaker on “Exercise and Vascular Endothelial Function” at the American Heart Association Scientific Session, Chicago, IL. 2014.
32. **Phillips S.A.**, Invited speaker on “Exercise, Diet, and Vasodilator Plasticity in the Microcirculation” at Texas A&M University, College Station, TX. 2014.
33. **Phillips S.A.**, Invited speaker on “Basics of Preparing and Writing a Winning Early Career Grant Application” at the University of Illinois at Chicago Post-doctoral Association Seminar, Chicago, 2015.
34. **Phillips, S.A.** Invited workshop speaker on “Basics of Preparing and Writing a Career Development Award: Perspectives, Strategies, and Basic Components.” NIH K12 Neurosurgery Scholars Session, Chicago, IL 2015.
35. **Phillips S.A.**, Invited lecture on “Introduction to Writing Effective Specific Aims.” at the University of Illinois at Chicago Future in Science Seminar, Chicago, 2016.
36. **Phillips S.A.** Invited Health and Rehabilitation Science Graduate Student Seminar Speaker on “Exercise, Diet and the Mechanisms of Vasodilator Function: Translational Mechanisms” for Cardiovascular Disease, Stony Brook University and Medical Center, Stony Brook, NY. 2016.

37. **Phillips S.A.** Invited seminar on “Exercise, Diet, and the Mechanisms of Human Arterial Function” for the Cardiovascular Center, Medical College of Wisconsin, Milwaukee, WI. 2016.
38. **Phillips S.A.** Invited seminar on “Exercise Interventions and Arterial Function Testing in Cardiac Rehabilitation Research and Practice” for the Department of Physical Therapy, Marquette University, Milwaukee, WI. 2016.
39. **Phillips S.A.** Invited seminar on “Exercise and Weight Loss Uncovers Novel Vasodilator Mechanisms in the Microcirculation” for the Department of Bioengineering, University of Texas at Arlington, Arlington, TX. 2016.
40. **Phillips S.A.** Invited speaker on “Effect of Exercise and Shear Stress on Vascular Mitochondria” at Symposium on Mitochondrial Redox Signaling and Vascular Function in Health and Disease, American Heart Association Scientific Session, Chicago, IL. 2016.
41. **Phillips, S.A.** Invited speaker on “Role of H₂O₂ in Exercise Induced Vasodilation in the Human Microcirculation” at the Center for Cardiovascular Research, University of Illinois at Chicago, Chicago, IL 2017.
42. **Phillips, S.A.** Invited speaker on “Exercise and Weight Loss uncovers Novel Mechanisms of Vasodilation in the Human Microcirculation” Department of Medicine, Division of Asthma, Pulmonary and Critical Care, University of Illinois at Chicago, Chicago, IL 2017.
43. **Phillips, S.A.** Invited seminar speaker on “Mechanisms of Vasodilator Plasticity Following Exercise and Elevated Pressure in the Human Microcirculation” Department of Medical Physiology, Texas A and M University, College Station, TX. 2019.
44. **Phillips, S.A.** Invited seminar speaker on “Microvascular Function and Cardiac Rehabilitation: A Canary in the Coal Mine” Division of Physical Therapy, Duke University, Raleigh, NC, 2020
45. **Phillips, S.A.** Invited seminar on “Microvascular Function and Rehabilitation Implications.” UIC Division of Cardiology, T32 program speaker. 2020.
46. **Phillips, S.A.** Invited seminar speaker on “Microvascular Function and Cardiovascular Rehabilitation” College of Health Sciences, University of Texas-El Paso, El Paso, TX. 2022.
47. **Phillips, S.A.** Invited seminar speaker on “Growing and Fostering Physical Therapy Research through Training Programs” DPT program, University of Texas-El Paso, El Paso, TX. 2022.

PEER REVIEWED WORKSHOPS/PRESENTATIONS:

National

1. **Phillips, S.A.** and J.C. Frisbee. “Superoxide Scavengers Restore Impaired Vasodilator Reactivity in Obese Zucker Rats” at Experimental Biology 2004, Washington, D.C., 2004.
2. **Phillips, S.A.** Kulinski J.P., Syed A.Q., Syed A., Pleuss J., Jurva J.W., D.D. Gutterman. “Do Low Fat and Low Carbohydrate Diets Show Similar Improvement in Endothelial Function?” at Experimental Biology 2006, San Francisco, CA, 2006.
3. **Phillips, S.A.** “Chronic Exercise Protects against Macro- and Micro- vascular Endothelial Dysfunction Induced by Acute Hypertension during Exertion” at American Heart Association Scientific Sessions 2007, Orlando, FA, 2007.
4. **Phillips, S.A.** “The Effects of Acute Exertion on Human Endothelial Function” at Experimental Biology 2008, San Diego, CA, 2008.

5. **Phillips, S.A.** “Reduced leptin and resistin and increased adiponectin are associated with improved endothelial function during weight loss with low fat compared to low carbohydrate diets” at Experimental Biology 2010, Anaheim, CA, 2010.
6. **Phillips S.A.** and Vuckovic K. Invited presentation on “Research on Exercise Interventions on Peripheral Vascular Health in Patients with Heart Failure: Methods and Clinical Implications,” at the American Physical Therapy Association meeting, Bar Harbor, MD, 2011.
7. Franklin N.C., M. Ali, M. Goslawski, **S. A. Phillips**. Reduced Brachial Artery Smooth Muscle Function after Acute Exhaustive Resistance Exercise in Obesity. *APTA Combined Sections Meeting* (platform presentation). Chicago, IL. 2012.
8. Szczurek M., J.T. Bian, C. Ranieri, I. Grizelj, A. Cavka, A. Robinson, **S.A. Phillips**. Hypocaloric, but not Isocaloric, Low Fat Diets Improve in Microvascular Nitric Oxide Dependent Vasodilator Responses, American Heart Association Scientific Sessions, Dallas, TX, 2013.

Regional

1. **Phillips S.A.** and J.H. Lombard, Presentation on “Impairment of Hypoxia Induced Dilation of Skeletal Muscle Resistance Arteries in Losartan Treated Rats” at Midwest Physiological Society 2001, University of Wisconsin, Madison, WI.
2. **Phillips, S.A.**, Syed AQ, Syed A, Pleuss J, Jurva JW, DD Gutterman. Oral presentation on “The Acute Effect of Weight Lifting on Vascular Endothelial Function.” at the Iowa Physiological Society Annual Meeting, West Branch, IA. 2005.

TEACHING ACTIVITIES AND PROGRAMMATIC DEVELOPMENT:

Medical School Education

- | | |
|-------------------|--|
| 01/2002 – 05/2004 | Laboratory Instructor, M1 <i>Medical Physiology</i> Course Department of Physiology, Sessions: skeletal muscle physiology, exercise physiology, circulatory control. |
| 05/2005 – present | MCW/Medical Student Summer Research Program (Research Mentor)
Medical Student Honors Thesis Advisor |

Resident and Fellow Education-Medical College of Wisconsin and UIC

- | | |
|-------------|---|
| 2006 – 2009 | Supervisor, Resident and Fellows Clinical Research
During Research Rotation Months in Cardiology, Pediatric Endocrinology, and Surgery <ul style="list-style-type: none">• 1-2 students/month + 3-4 fellows/month• On-going guidance re: research design, IRB, procurement of resources/funding, subject recruitment, data analysis and reporting |
| 2006 - 2007 | Lecturer, “Translational Research Opportunities in Cardiovascular Medicine”
Cardiology Fellowship Program: Core Cardiology Curriculum, Department of Medicine |

- 01/2008 – present Lecturer, Division of Metabolism and Endocrinology
Endocrinology Fellowship Program
Department of Medicine
University of Illinois at Chicago
- 08/2010 – present Faculty Research Mentor, Division of Metabolism and Endocrinology
Fellowship Program
Department of Medicine
University of Illinois at Chicago

Graduate Student Education

- 2006 – 2007 Invited Lecturer, “Regulation of Vascular Health during Exercise and Weight Loss”
MCW; Population Health and Epidemiology Seminar Series. Division of Epidemiology.
- 2009 Invited Panel Member, “Career Development Training and Mentoring Plans”
K30 program, HPA 590: Grant Writing
Institute for Health and Research Policy
University of Illinois at Chicago
- 2009- present Preliminary/Dissertation Examination Committee
PhD program in Kinesiology, Nutrition, and Rehabilitation
Graduate College, University of Illinois at Chicago
- 2009– present Preliminary/Dissertation Defense Examination Committee
PhD program in Nursing, Department of Biobehavioral Sciences, College of Nursing, University of Illinois at Chicago

OTHER TEACHING EXPERIENCE

Marquette University

- 07/2001 – 06/2006 Laboratory instructor, Department of Physical Therapy
Course Title **Physiology of Activity**
Laboratory Teaching:
 - Exercise Testing and Assessment
 - Cardiac Output and Hemodynamic testing
 - Nutrition Analysis and Anthropometric testing
- 07/2001 – 07/2004 Invited Lecturer, Department of Physical Therapy
Course Title: **Physical Agents and Wound Healing.**
Lectures:
 - Growth Factors: Implications for Wound Healing
 - Hyperbaric Oxygen and Vacuum Assisted Closure in Wound Healing
 - Inflammation and the Healing Response
 - Nutrition and Wound Healing

- 05/2001 to 05/2003 Lecturer, Department of Physical Therapy
 Course Title: Human Physiology, Health Career Opportunity Program
 Lectures Taught: Basic concepts for neurological, muscle, lung, kidney, and cardiovascular physiology
- 08/2002 – 08/2002 Lecturer, Course Director
 Course Title: **Pathophysiology in Acute Care and Medicine**
 Lectures: ○ Basic Pharmacology and Implications for Rehabilitation
 ○ Physiological Basis of Trauma and Shock Medicine
 ○ Cardiovascular Disease Pathology
 ○ Disease Pathogenesis affecting Multiple Systems
 ○ Pathology of Arthritis and Rheumatoid Conditions
 ○ Oncology and Immunology: Concepts for Rehabilitation
 ○ Diabetes and Diabetic Complications
- 01/2003 – 05/2003 Lecturer and Course Director; Graduate School of Nursing
 Course Title: **Physiological Concepts for Advanced Nursing Practice**
 Lectures: Advanced topics in each of the following major units:
 Cellular Physiology, Cardiovascular Physiology,
 Respiratory Physiology, Renal Physiology, Endocrine
 Physiology, Gastrointestinal Physiology, Reproductive
 Physiology, Hematology, Immunology, Inflammation and
 Wound Healing
- 08/2003 – 12/2003 Lecturer and Co-course director, Department of Physical Therapy
 Course Title: **Medicine and Surgery: Rehabilitation**
 Lectures: ○ Exercise and Disease Management
 ○ Obesity and Kidney Disease
 ○ Cardiovascular and Pulmonary Disease
 ○ Peripheral Vascular Disease and Diabetes
- 04/2006 Invited Lecture, Department of Physical Therapy
 Course Title: **Pathophysiology**
 Lecture: ○ Physiology of pregnancy and implications for exercise

University of Illinois, Chicago

- 05/2004 – 2015 Instructor and Course Director, Department of Physical Therapy
 Course Title: **Cardiopulmonary Dysfunction**
 Lectures: Cardiac and Pulmonary Physiology and Pathology
 ○ Metabolism and Physiological Responses to Trauma
 ○ Physiological Responses to Exercise
 ○ Pathophysiology of Inactivity
 ○ Cardiac Measures and Basic ECG
 ○ Cardiac Assessment: Heart Sounds and Exercise Testing
 ○ Obesity: Physical Therapy Implications

- Cardiac and Pulmonary Rehabilitation
- Pulmonary Physical Therapy Assessment
- Cardiovascular and Pulmonary Pharmacology
- 09/2006 – present Invited Lecturer, Department of Physical Therapy
 - Course Title:* **Applied Pathophysiology**
 - Lectures:*
 - Exercise Implications and Diabetes
 - Exercise implications during renal, hepatic, and GI disease
- 01/2008 – present Instructor and Director, Department of Physical Therapy
 - Course Title:* **Independent Study in Physical Therapy**
 - Lectures and Instruction:*
 - Laboratory Methods in Vascular Biology, Exercise, and Nutrition
- 02/2008 Guest Instructor, College of Nursing
 - Course Title:* **Laboratory Methods in Nursing**
 - Lectures:*
 - Vascular Biology Methods
- 08/2008 – present Course Director and Instructor
 - Course Title:* **Special Topics in Physical Therapy: Current Concepts in Vascular Biology**
 - Topics:*
 - Vascular Biology Research
- 09/2008 Invited Lecturer, College of Nursing
 - Course Title:* **Stress and Health Outcomes**
 - Lectures:*
 - Exercise Hypertension and Vascular Function
- 03/2009, 03/2011 Invited Lecturer, Department of Kinesiology and Nutrition
 - Course Title:* **Nutrition, Physiological Aspects**
 - Lectures:*
 - Nutrition and Vascular Biology
- 04/2009, 3/2012 Invited Lecturer, Department of Kinesiology and Nutrition
 - Course Title:* **Exercise Biology in Health and Disease**
 - Lectures:*
 - Vascular Injury and Repair
- 09/2009 – present Invited Lecturer, Department of Physical Therapy
 - Course Title:* **Introduction to Physical Therapy**
 - Lectures:*
 - Vital Signs
- 2010, 2012, 2014, 2016 Course Director and Instructor
 - Course Title:* **Advances in Rehabilitation Sciences II**
 - Lectures*
 - Overview of Inflammation: Impact on Injury and Cardiovascular
 - Cardiovascular and Pulmonary Physiology of Rehabilitation
- 01/2015 – 05/2015 HPA 590; Course director and instructor, Center for Clinical and Translational Sciences, School of Public Health, College of Medicine, UIC
 - Course Title:* **Grant Writing for New Investigators**
 - Designed and Directed a practical Grant Writing course for Clinical Research Scholars, Fellows and Junior Faculty

STUDENTS, FACULTY, RESIDENTS AND CLINICAL/RESEARCH FELLOWS MENTORED:

Undergraduate

08/2007 – 09/2009	Elise Kasper, UIC College of Applied Health Sciences, Department of Kinesiology and Nutrition (Class of 2009)
<i>Mentorship Role:</i>	<ul style="list-style-type: none"> • Advanced research and independent study
01/2009 – 05/2010	Tselmeg Ulziibay, UIC College of Applied Health Sciences, Department of Kinesiology and Nutrition (Class of 2009)
<i>Mentorship Role:</i>	<ul style="list-style-type: none"> • Advanced research and independent study
01/2010 – 12/2012	Mary Szcurek, UIC College of Liberal Arts and Sciences, Department of Biological Sciences
<i>Mentorship Role:</i>	<ul style="list-style-type: none"> • Advanced research and independent study • Honors college capstone supervisor • Project Title: The Effects of Saturated Fat and Alcohol Consumption on Flow-Mediated Dilation of the Brachial Artery in Young Adults
01/2011 – 05/2011	Andrew Skoirchet, UIC College of Applied Health Sciences, Department of Kinesiology and Nutrition (Class of 2012)
<i>Mentorship Role:</i>	<ul style="list-style-type: none"> • Advanced undergraduate research and independent study (PT 596: Independent Study) on exercise in chronic kidney disease
01/2011 – 05/2011	Ronny Harag, UIC College of Applied Health Sciences, Department of Kinesiology and Nutrition (Class of 2012)
<i>Mentorship Role:</i>	<ul style="list-style-type: none"> • Advanced undergraduate research and independent study (KN 396: Independent Study in Kinesiology) on protein supplementation and exercise in dialysis patients
01/2011 – 05/2012	Edita Norkeviciute, UIC College of Applied Health Sciences, Department of Kinesiology and Nutrition
<i>Mentorship Role:</i>	<ul style="list-style-type: none"> • Advanced undergraduate research and independent study (KN 396: Independent Study in Kinesiology) on resistance exercise training and vascular function.
01/2011 – 12/2011	Zahra Walji, UIC College of Liberal Arts and Sciences, Department of Biological Sciences
<i>Mentorship Role:</i>	<ul style="list-style-type: none"> • Advanced undergraduate research mentor and independent study (Bios 399: Independent Study in Research) • Project title: Combating Atherosclerosis by Inhibiting the Functionality of Heparan Sulfate Proteoglycans
02/2011 – 2013	Daria Shor, UIC College of Applied Health Sciences, Department of Kinesiology and Nutrition
<i>Mentorship Role:</i>	<ul style="list-style-type: none"> • Advanced undergraduate research mentor and independent study; Capstone project mentor • Project title: Evaluating the amount of change in macronutrient intake as a predictor of subject compliance within a dietary study

10/2011 – present	<ul style="list-style-type: none"> Results presented at the 2012 Kinesiology and Nutrition Symposium (Spring)
<i>Mentorship Role:</i>	Gordon Marsh, UIC College of Liberal Arts and Sciences, Department of Biological Sciences
10/2012 – present	<ul style="list-style-type: none"> Advanced undergraduate research mentor
<i>Mentorship Role:</i>	Kevin Li, UIC College of Applied Health Sciences, Department of Kinesiology and Nutrition
08/2017 to 01/2021	<ul style="list-style-type: none"> Advanced undergraduate research mentor and independent study Chancellors undergraduate research fellowship UIC student research presentation award
Master of Science	
08/2010 – 08/2012	Melissa Goslawski, UIC College of Applied Health Sciences, Department of Physical Therapy (M.S. in Rehabilitation Sciences).
<i>Mentorship Role:</i>	<ul style="list-style-type: none"> Thesis Chair and Mentor Thesis title: Binge Drinking Impairs Endothelial Function in Young Health Subjects
08/2010 – 05/2013	Jeff Clark PT, MBA, UIC College of Applied Health Sciences, Department of Physical Therapy (M.S. in Rehabilitation Sciences)
<i>Mentorship Role:</i>	<ul style="list-style-type: none"> Thesis Chair and Mentor Thesis title (tentative): Osteoarthritis, Inflammation, and the Susceptibility to Impaired Vascular Function
01/2011 – 05/2013	Sarah Schwab, UIC College of Applied Health Sciences, Department of Kinesiology and Nutrition
<i>Mentorship Role:</i>	<ul style="list-style-type: none"> Research Project co-mentor with Dr. Tim Koh Project title (tentative): Macrophage and lymphocyte infiltration in human perivascular fat
01/2011 – 05/2011	Erica Weinandy, UIC College of Applied Health Sciences, Department of Kinesiology and Nutrition (M.S. Nutrition; Class 2012)
<i>Mentorship Role:</i>	<ul style="list-style-type: none"> Advanced research and independent study (PT 596: Independent Study) on protein supplementation in chronic kidney disease
01/2011 – 05/2011	Christine Ranieri, UIC College of Applied Health Sciences, Department of Kinesiology and Nutrition
<i>Mentorship Role:</i>	<ul style="list-style-type: none"> Graduate assistant and independent study on food and diet design for weight loss and vascular health
08/2011 – present	Connie Casale, UIC College of Applied Health Sciences, Department of Physical Therapy, M.S. Rehabilitation Sciences program
<i>Mentorship Role:</i>	<ul style="list-style-type: none"> M.S. Research project supervisor on resistance exercise training in COPD

07/2011 – 04/2012	Austin Robinson, UIC College of Applied Health Sciences, Department of Kinesiology and Nutrition
<i>Mentorship Role:</i>	<ul style="list-style-type: none">• Research project supervisor (KN 496: Special Projects in Kinesiology)• Project title: Efficacy of Massage Therapy on Inflammation after Exhaustive Exercise
01/2013 – 08/2014	Mary Szczureck, UIC College of Applied Health Sciences, Department of Physical Therapy, M.S. Rehabilitation Sciences program
<i>Mentorship Role:</i>	<ul style="list-style-type: none">• Thesis Chair, Mentor, Academic Advisor• Thesis Title: The Effects of Vitamin D on Microvascular Endothelial Function in Obese Adults
08/2013 – 05/2015	Shruti Shinde, UIC College of Applied Health Sciences, Department of Physical Therapy, M.S. Rehabilitation Sciences program
<i>Mentorship Role:</i>	<ul style="list-style-type: none">• Project Supervisor, Mentor, Academic Advisor• Project Title: Exercise and Microvascular Function in Bariatric Patients
08/2013 – 05/2015	Po-an Tsai, UIC College of Applied Health Sciences, Department of Physical Therapy, M.S. Rehabilitation Sciences program
<i>Mentorship Role:</i>	<ul style="list-style-type: none">• Project Supervisor, Mentor and Academic Advisor• Shear stress, endothelial cells, and ecSOD expression
08/2014 – 08/2016	Saleh Y. Alshammari, PT, UIC College of Applied Health Sciences, Department of Physical Therapy, M.S. Rehabilitation Sciences program
	<ul style="list-style-type: none">• Mentor, Academic Advisor, and Thesis Supervisor• Thesis Title: The Effect of Kinetic Dance Training in Brachial Artery Flow-mediated Dilatation after Chronic Stroke
08/2014 – 07/2017	Vanessa Isles, UIC College of Applied Health Sciences, Department of Physical Therapy, M.S. Rehabilitation Sciences program
	<ul style="list-style-type: none">• Mentor and Academic and Research Project Advisor• Project Title: Anthropometric, Cardiometabolic, and Exercise Capacity Measurements among US Adults of Overweight and Obesity – A Focus on the Lower Extremity Function Scale (LEFS)
08/2015 – 08/2019	Crystal Adamos, UIC College of Applied Health Sciences, Department of Physical Therapy, M.S. Rehabilitation Sciences program
	<ul style="list-style-type: none">• Mentor, Academic Advisor, and Thesis Supervisor• Thesis Title: Dyslipidemia and Endothelium
08/2016 – 05/2018	Awani Gokhale, UIC College of Applied Health Sciences, Department of Physical Therapy, M.S. Rehabilitation Sciences program

Mentorship Role	Mentor, Academic Advisor
08/2016 – 05/2018	Project Title: Bariatrics Weight Loss Surgery and Hypertension Medication Status Pedram Ahmadnezhad, UIC College of Applied Health Sciences, Department of Physical Therapy, M.S. Rehabilitation Sciences program
Mentorship Role:	Mentor and Research Project Advisor
08/2017 – 08/2020	Project Title: Effect of Weight Loss Surgery on Blood Pressure in Men and Women Oluwayomi Omosebi, UIC College of Applied Health Sciences, Department of Physical Therapy, M.S. Rehabilitation Sciences program
Mentorship Role:	Mentor and Research Project Advisor
08/2020 – 08/2022	Project Title: Exercise training and Ambulatory Blood Pressure in African American and Caucasian Adults Firas Hudaib, PT, UIC College of Applied Health Sciences, Department of Physical Therapy, M.S. Rehabilitation Sciences program
Mentorship Role:	Mentor and Research Project Advisor
	Project Title: The impact of using intermittent pneumatic compression to prevent popliteal artery endothelial dysfunction during prolonged sitting
Physical Therapy Doctoral Students	
01/2009 – 05/2011	Jessie Pipal, UIC Doctor of Physical Therapy (Class of 2011)
Mentorship Role:	<ul style="list-style-type: none"> • Advanced research project • Research study design and data analysis
09/2009 – 05/2012	Patrick McGinty, UIC Doctor of Physical Therapy (Class of 2012)
Mentorship Role:	<ul style="list-style-type: none"> • Advanced research project and data analysis • Poster presentation at UIC student forum
08/2011 – 05/2013	Mayumi Barack, UIC Doctor of Physical Therapy (Class of 2013)
Mentorship Role:	<ul style="list-style-type: none"> • Advanced research project and data analysis • Independent study (PT 596) on the effects of ACL injury on peripheral vascular function
06/2011 – 05/2015	Edita Norkeviciute, UIC Doctor of Physical Therapy (Class of 2015)
Mentorship Role:	<ul style="list-style-type: none"> • Advanced research and data analysis • Project on the effects of massage on blood flow and vascular function after muscle exertion. • Co-author on 2 abstracts presented at national conferences • Co-author on 2 manuscripts
09/2013 – 05/2015	Lauren Neuvoval, UIC Doctor of Physical Therapy (Class of 2015)

	2015)
Mentorship Role:	<ul style="list-style-type: none"> • Nutrition, research design and vascular analysis • Co- author of 1 manuscript
05/2016 –12/2017	Michael Durrant, UIC Doctor of Physical Therapy (Class of 2018), Certificate in Clinical Rehabilitation Research and Technology
Mentorship Role	<ul style="list-style-type: none"> • Vascular Analysis, Regulatory and Clinical Study Design
05/2016 - 2017	Taylor Trapp, UIC Doctor of Physical Therapy (Class of 2018), Certificate in Clinical Rehabilitation Research and Technology
Mentorship Role	<ul style="list-style-type: none"> • Project on Differential Blood Pressure Responses to Maximum Exercise
Medical Students	
05/2005 – present	Jacquelyn Kulinski (Class of 2008)
<i>Project Title:</i>	The effects of low carbohydrate and low fat diets on endothelial function
<i>Mentorship Roles</i>	Summer student research mentor Honors thesis research candidate
<i>Outcome:</i>	<ul style="list-style-type: none"> • Abstract/Poster Presentation at local Medical Student Research Program • Oral presentation at national medical student scientists meeting (Omaha, Nebraska)
05/2006 – present	Jesse Stringer (Class of 2009)
<i>Project Title:</i>	The protective effect of endurance exercise on vascular endothelial health
<i>Mentorship Roles:</i>	<ul style="list-style-type: none"> • Summer student research mentor
<i>Outcome:</i>	<ul style="list-style-type: none"> • Abstract/Poster presentation at Medical Student Research Program
05/2006 – 09/2006	Sarah Lauck (Class of 2009)
<i>Project Title:</i>	Sustained effects of exercise-induced hypertension on the endothelium
<i>Mentorship Role:</i>	<ul style="list-style-type: none"> • Summer student research mentor
<i>Outcome:</i>	<ul style="list-style-type: none"> • Abstract/Poster presentation at Medical Student Research Program
05/2007 – 09/2007	Krupa Patel (Class of 2010)
<i>Project Title:</i>	Protective Effect of Exercise against Vascular Endothelial Dysfunction Induced by Oral Glucose and High Fat Load
<i>Mentorship Role:</i>	<ul style="list-style-type: none"> • Summer student research mentor
<i>Outcomes</i>	<ul style="list-style-type: none"> • Abstract/Poster Presentation at Medical Student Research Program • Funding: National Heart Lung Blood Institute Training Grant (5 T35 HL72483-25)
05/2007 – 09/2007	Lindsey Rasmussen (Class of 2010)
<i>Project Title:</i>	The Use of Antioxidants to Reduce Tissue Damage from Ischemia-reperfusion Injury in a Swine Model

<i>Mentorship Role:</i>	• Summer student research mentor
<i>Outcomes</i>	<ul style="list-style-type: none"> • Abstract/Poster Presentation at Medical Student Research Program • Funding: National Heart Lung Blood Institute Training Grant (5 T35 HL72483-25)
12/2011 – 08/2012	Rasheed A. Sanyaolu (UIC class of 2015)
<i>Project Title:</i>	The effects of Binge Drinking on Vascular Reactivity and Function
<i>Mentorship Role:</i>	• Summer medical student research project co-mentor with Dr. Mariann Piano (Nursing)
<i>Outcome</i>	• Summer Craig Fellowship award funded by the UIC College of Medicine
01/2021 – present	Carrie Pusec, PhD (UIC Class of 2024)
<i>Project title:</i>	Binge Drinking and Exercise Blood Pressure Responses
<i>Mentorship Role</i>	James Scholar Program Fellowship
Clinical Fellows	
11/2005-6/2007	Stacey Gardiner, MD, Cardiology Fellow
<i>Project Title:</i>	Vascular effects of oral glucose and high fat loading in athletes
<i>Mentorship Role:</i>	• Focused Guidance re: reporting and design for translational research and medicine
03/2006 – 5/2007	Ghufran Babar, MD, Pediatric Endocrinology Fellow
<i>Project Title:</i>	Prevalence of endothelial dysfunction, increased carotid artery intima-media thickness and biomarkers of vascular inflammation in preadolescents with type 1 diabetes mellitus
<i>Mentorship Role:</i>	• Focused guidance in study design and training in translational vascular research technologies
<i>Outcomes:</i>	• IRB submission
09/2006 – present	Jennifer Strande MD, Ph.D., Cardiology Research Fellow
<i>Project Title:</i>	Expression and function of protease-activated receptors in human adipose microcirculation
<i>Mentorship Role:</i>	• Focused guidance in experimental design of human/translational molecular studies
08/2006 – 08/2007	Stephen Lanzarotti, MD, Trauma and Critical Care Fellow
<i>Project Title:</i>	The use of antioxidants to reduce tissue damage in ischemia-reperfusion injury
<i>Mentorship Role:</i>	<ul style="list-style-type: none"> • Focused guidance in study design and molecular/physiological/biochemical testing • Procurement of funding and resources
11/2009 – 05/2010	Siddique Abbasi, MD, Cardiology Fellow UIC
<i>Project Title:</i>	Acute Exercise, Heart Failure. and Endothelium
8/2010 – 07/2012	Avni Vora, MD, Endocrinology, Diabetes, and Metabolism Fellow UIC
<i>Project Title:</i>	Weight loss, lipid metabolism, and endothelial function
Residents	
08/2006 – 05/2007	Aaron Perme, MD, Surgery Resident, Medical College of

Project Title:	Wisconsin The effects of ethyl pyruvate upon splanchnic microvascular reactivity and the inflammatory response in a hemorrhagic shock swine model
Mentorship Role:	<ul style="list-style-type: none"> Guidance and training in molecular and physiological studies on shock and trauma Biochemical analysis and study design
05/2012 – 08/2014	Paulina Cruz, MD, Internal Medicine Resident, Advocate Christ Medical Center
<i>Mentorship Role:</i>	<ul style="list-style-type: none"> Guidance and training in vascular biology during obesity Faculty supervisor and mentor for research rotation requirements in internal medicine

Post doctoral Research Fellows Mentored

2011- 2012	Ivana Grizelj, MD
2011 – 2012	Ana Cavka, MD
2013 – 2014	Nina Franklin, PhD
2014 – 2020	Ibra “Drew” Fancher, PhD
2015 - 2020	Abeer Mahmoud MD, PhD
2018-2019	Andréa Gonçalves da Silva, PT, PhD
2019 - 2022	Chueh-Lung Hwang, PT, PhD
2020 - Present	Georgios Grigoriadis, PhD
2021- Present	Natalia Do Couto, PhD
2021 - Present	Sang Joon Ahn, PhD

PhD Students Mentored

01/2007 – 05/2010	James Schmidt, PhD, Department of Physiology, Medical College of Wisconsin
<i>Mentorship Role:</i>	<ul style="list-style-type: none"> Dissertation Committee Member (external evaluator)
01/2008 – 05/2013	Karen Vuckovic, RN, APN, UIC College of Nursing
<i>Mentorship Role:</i>	<ul style="list-style-type: none"> Applied Health Science Independent Study in Vascular Biology Techniques (PT 595) PhD preliminary exam and dissertation committee (Chair: Mariann Piano)
<i>Project:</i>	Dyspnea in Heart Failure with a Preserved Ejection Fraction (HF-PEF)
<i>Outcomes:</i>	<ul style="list-style-type: none"> Manuscript in preparation
08/2008 – 08/2012	Nina Franklin, MS, UIC College of Applied Health Sciences
<i>Mentorship Role:</i>	<ul style="list-style-type: none"> PhD Advisor and Committee Chair
<i>Project Title:</i>	The Effects of Resistance Exercise Training on Vascular Endothelial Dysfunction in Overweight and Obese, Sedentary Adults
<i>Outcomes:</i>	<ul style="list-style-type: none"> 4 manuscripts published 7 abstract presentations as co-author

2009	Dana DiPasquale, MS, Department of Kinesiology and Nutrition, University of Illinois at Chicago
<i>Mentorship Role:</i>	• PhD dissertation Committee Member (Chair: Dr. Tim Koh)
2010 – 2013	Surabhi Bhutani, Department of Kinesiology and Nutrition, University of Illinois at Chicago
<i>Mentorship Role:</i>	• PhD dissertation Committee Member (Chair: Dr. Krista Varady)
<i>Project:</i>	• Effects of Weight Loss induced by Alternative Day Fasting and Exercise on Cardiac Risk Factors
2009- 2013	Monica Klempel, Department of Kinesiology and Nutrition, University of Illinois at Chicago
<i>Mentorship Role:</i>	• PhD preliminary exam and dissertation committee member (Chair: Dr. Krista Varady)
<i>Project:</i>	Effects of alternate day fasting, with a low fat versus high fat background diet, on weight loss and coronary heart disease risk reduction in obese adults
08/2010 – 05/2016	Mohammed Ali, MD, Department of Physical Therapy, University of Illinois at Chicago, Rehabilitation Track
<i>Mentorship Role:</i>	• PhD Advisor and Committee Chair
<i>Project:</i>	Vascular Glycobiology and Oxidative Stress and Endothelial Dysfunction, a Potential Therapeutic Target
05/2011 – 10/2013	Joshua Butcher
<i>Mentorship Role:</i>	• PhD committee external evaluator (West Virginia University; Chair: Dr. Jefferson Frisbee)
<i>Project:</i>	Regulation of Vascular Tone in Metabolic Syndrome
06/2011 – 12/2012	Sambit Mohapatra, Department of Physical Therapy, University of Illinois at Chicago
<i>Mentorship Role:</i>	• PhD preliminary exam and dissertation committee
<i>Project:</i>	Role of Altered Vision and Proprioception in Control of Posture
06/2012 – 08/2013	Abbi Lane M.S., Department of Kinesiology and Nutrition, University of Illinois at Chicago
<i>Mentorship Role:</i>	• PhD preliminary exam and dissertation committee (Chair: Dr. Bo Fernhall)
<i>Project:</i>	Acute Inflammation and Arterial Load
08/2012 – 05/2016	Austin Robinson, PhD, Department of Physical Therapy, UIC, Rehabilitation Track
<i>Mentorship Role:</i>	• PhD Advisor and Committee Chair
<i>Project:</i>	• Exercise Training and Microvascular Function in Obesity
06/2013 – 05/2015	Rebecca Kappus, Department of Kinesiology and Nutrition, University of Illinois at Chicago, PhD preliminary exam and dissertation committee
<i>Mentorship Role:</i>	(Chair: Dr. Bo Fernhall)
<i>Project:</i>	• Racial and Aging Effects of Acute Anti-oxidant

	Supplementation
09/2013 – 05/2016	Kristin Hoddy, Department of Kinesiology and Nutrition, University of Illinois at Chicago
Mentorship Role:	<ul style="list-style-type: none"> • PhD preliminary exam and dissertation committee (Chair: Dr. Krista Vardy)
Project:	<ul style="list-style-type: none"> • Alternate Day Fasting and Cardiometabolic Function
06/2013 – 08/2014	Jan Kretzchmar, Department of Kinesiology and Nutrition, University of Illinois at Chicago
Mentorship Role	<ul style="list-style-type: none"> • PhD preliminary exam and dissertation committee (Chair: Michael Brown)
Project:	<ul style="list-style-type: none"> • Race Dependent Effects of Black Cohosh Fractions in Human Umbilical Endothelial Cells
05/2014 – 05/2015	Chenyi Ling, Department of Kinesiology and Nutrition, University of Illinois at Chicago
Mentorship Role	<ul style="list-style-type: none"> • PhD preliminary exam (Chair: Michael Brown)
05/2011 – 09/2015	Ivana Grizelj, Department of Physiology and Immunology, Osijek Medical School, Croatia
Mentorship Role:	<ul style="list-style-type: none"> • PhD dissertation committee (external evaluator)
Project:	<ul style="list-style-type: none"> • Mechanisms of Microvascular Dysfunction in Bariatric Patients
08/2013- 05/2018	Sang Joon Ahn, Department of Bioengineering, University of Illinois at Chicago
Mentorship Role:	<ul style="list-style-type: none"> • PhD preliminary exam and committee member (Chair: Irena Levitan) • Kir channels and flow induced dilation
08/2014 – 12/2019	Ahmad Sabbahi PT, MS. Department of Physical Therapy, UIC, Rehabilitation Track
Mentorship Role:	<ul style="list-style-type: none"> • PhD Advisor and supervisor
Project	Vascular dysfunction following maximum exercise testing in African Americans and Caucasian adults
08/2015 – 05/2022	Richard Severin DPT, Department of Physical Therapy, UIC, PhD in Rehabilitation
Mentorship Role:	<ul style="list-style-type: none"> • PhD Advisor and supervisor
Project:	Inspiratory Muscle Training and Exercise Capacity in Bariatric Patients
09/2015 – 07/2017	Adriana Mazzuco Bonaca PT, Department of Physiotherapy, Federal University of Sao Carlos, Sao Paulo, Brazil
Mentorship Role:	<ul style="list-style-type: none"> • Research Supervisor at UIC; Funded Research Scholarship for 1 year US collaboration
Project:	Project on vascular analysis and exercise training in COPD and obesity
03/2014 - 12/2016	Flavia Caruso PT, PhD, Department of Physiotherapy, Federal University of Sao Carlos, Sao Paulo, Brazil
Project:	<ul style="list-style-type: none"> • Research supervisor for 1 month scholarship at UIC Research mentor on vascular ultrasound for cardiac

05/2017 – 2019	rehabilitation research project Guilherme Areas, MS, PT, Department of Physiotherapy, Federal University of Sao Carlos, Sao Paulo; Professor of Human Physiology at the Federal University of Amazonas, Manaus, Brazil
Mentorship Role:	• Research Supervisor at UIC; Brazilian Funded Research Scholarship for 1 year collaboration the US
Project:	High pressure induced microvascular dysfunction in a transgenic model of HFpEF
08/2018 – present	Saleh Alshammari, PT, MS, Department of Physical Therapy, PhD Program in Rehabilitation Sciences
Mentorship Role:	PhD Supervisor and Advisor
Project:	Cardiovascular Risk Change in Cardiac Rehabilitation
03/2018 – 03/2019	Larissa Delgado Andre, PT, Department of Physiotherapy, Federal University of Sao Carlos
Mentorship Role:	• Research Supervisor at UIC; Brazilian Funded Research Scholarship for 1 year project in the US
Project:	Microvascular dysfunction in heart failure
08/2021 – present	Dakota Greenwalt, SPT, Department of Physical Therapy, PhD program in Rehabilitation Sciences
Mentorship Role:	PhD supervisor and Advisor
Project:	TBD

BIBLIOGRAPHY

A. Theses:

1. **Phillips S.A.** Chronic AT₁ receptor blockade impairs mechanisms of vascular reactivity in skeletal muscle. Ph.D. Dissertation. Medical College of Wisconsin, 2004.

B. Peer-Reviewed Manuscripts:

1. Lombard J.H., F.A. Sylvester, **S.A. Phillips**, J.C. Frisbee. High-salt diet impairs vascular relaxation mechanisms in rat middle cerebral arteries. *Am J Physiol Heart Circ Physiol*. 284: H1124-33. 2002.
2. **Phillips S.A.**, E.B. Olson, B.J. Morgan, and J.H. Lombard. Chronic intermittent hypoxia impairs endothelium-dependent dilation in rat cerebral and skeletal muscle resistance arteries. *Am J Physiol Heart Circ Physiol* 286: H388-93. 2004.
3. **Phillips SA**, Drenjancevic-Peric I, Frisbee JC, Lombard JH. Chronic AT₁ receptor blockade alters the mechanisms mediating responses to hypoxia in rat skeletal muscle resistance arteries. *Am J Physiol Heart Circ Physiol* 287: H545-52. 2004
4. **Phillips S.A.**, F. A. Sylvester, J.C. Frisbee. Oxidant Stress and Constrictor Reactivity impair cerebral artery dilation in obese zucker rats. *Am J Physiol Regul Integr Comp Physiol* 288: R522-R539. 2005.

5. Drenjancevic-Peric I, **S.A. Phillips**, and J.H. Lombard. Restoration of Normal Vascular Relaxation Mechanisms in Cerebral Arteries by Chromosomal Substitution in Consomic SS.13^{BN} rats. *Am J Physiol Heart Circ Physiol* 289: H188-H195. 2005.
6. Hatoum O.A., D.G. Binion, **S.A. Phillips**, C. O’Loughlin, R.A. Komorowski, D. D. Gutterman, M.F. Otterson. Case report: Radiation induced small bowel diaphragmatic “web” formation is associated with acquired microvascular dysfunction. *Gut* 54. 1797-1800. 2005.
7. Basile D.P., D.L. Donohoe, **S.A. Phillips**, J.C. Frisbee. Enhanced skeletal muscle arteriolar reactivity to angiotensin II following recovery from ischemic acute renal failure. *Am J Physiol Regul Integr Comp Physiol* 289. R1770-R1776. 2005.
8. **Phillips S.A.** and J.H. Lombard. AT1 receptor blockade impairs mechanisms mediating hypoxic dilation in middle cerebral arteries. *J Cardiovasc Pharm.* 46. 2005.
9. **Phillips S.A.**, E.B. Olson, B.J. Morgan, and J.H. Lombard. Chronic Intermittent Hypoxia alters vasoconstrictor reactivity and mechanics in skeletal muscle arteries. *J Appl Phys* 100. 1117-1123. 2006.
10. Jurva J.W., **S. A. Phillips**, A.Q. Syed, A.Y. Syed. S. Pitt, A. Weaver, D.D. Gutterman. The Effect of Exertional Hypertension Evoked by Weightlifting on Vascular Endothelial Function. *JACC.* 48. 588-9. 2006.
11. **Phillips S.A.**, O.A. Hatoum, D.D. Gutterman. The Mechanism of Flow-Induced Dilation in Human Adipose Arterioles Involves Hydrogen Peroxide During CAD. *Am J Physiol Heart and Circ Physiol* 292. H93-H100. 2007.
12. **Phillips S.A.** Effects of Low Carbohydrate Diet on Vascular Health: More than just Weight Loss. *Am J Physiol Heart and Circ Physiol* 292: H2037-H2039, 2007.
13. **Phillips, SA**, J.W. Jurva, A.Q. Syed, A Syed, J.P. Kulinski, J. Pleuss, R. Hoffmann , DD Gutterman. Benefit of Low Fat Diet over Low Carbohydrate Diet on Endothelial Health in Obesity. *Hypertension* 51: 376-382. 2008.
14. **Phillips SA.** Obesity, Weight Loss, and Cardiovascular Health: Is Oxidative Capacity the Missing Link? *Am J Hypertens* 21: 1277. 2008.
15. Strande JL and **S.A. Phillips**. Thrombin increases inflammatory cytokine and angiogenic growth factor secretion in human adipose cells *in vitro*. *Journal of Inflammation* 6: 4. 2009.
16. Migrino R.Q., P. Hari, D.D. Gutterman, M. Bright, S. Truran, B. Schlundt, **S.A. Phillips**. Systemic and microvascular oxidative stress induced by light chain amyloidosis. *Int J Cardiol* 145: 67-8. 2010.

17. Varady K.S., S. Bhutani S., E.C. Church, and **S.A. Phillips**. Adipokine responses to acute resistance exercise in trained and untrained men. *Medicine and Science in Sports and Exercise* 42: 456-462. 2010.
18. **Phillips S.A.**, K.R. Pechman, E.C. Leonard, J.L. Friedrich, and D.P. Basile. Increased angiotensin II sensitivity following recovery from acute kidney injury: Role of Oxidant Stress in Peripheral Arteriolar Activity. *Am J Physiol Regul Integr Comp Physiol* 298: R1682-1691. 2010.
19. **Phillips S.A.** Arterial stiffness and type 2 diabetes: dietary modulation after a single meal? *Hypertension Res* 33: 666-7. 2010.
20. Kizhakekuttu T.J., D.D. Gutterman D.D., **S.A. Phillips**, J.W. Jurva, E.I. Arthur, E. Das, M.E. Widlansky. Measuring FMD in the Brachial Artery: How important is QRS-gating? *J Appl Physiol* 109: 959-965. 2010.
21. Schramp L.C., M. Holtcamp, **S.A. Phillips**, T.P. Johnson, J. Hoff. Advanced Practice Nurses Facilitating Clinical Translational Research. *Clin Med and Res* 8: 131-134. 2010.
22. Varady K.A., S. Bhutani S., M. Klempel, **S.A. Phillips**. Improvements in vascular health by a low-fat diet, but not a high-fat diet, are mediated by changes in adipocyte biology. *Nutr J* 10:8. 2011.
23. **Phillips S.A.**, E.K. Das, J. Wang, K. Pritchard, D.D. Gutterman. Resistance and Aerobic Exercise Protect Against Acute Endothelial Impairment Induced by a Single Exposure to Hypertension during Exertion. *J Appl Physiol* 110: 1013-20. 2011.
24. Migrino R.Q., M. Bright, D.D. Gutterman, J. Wang, B. Kalyanaraman, **S.A. Phillips**, Hari P. Human microvascular dysfunction and apoptotic injury induced by AL amyloidosis light chain proteins. *Am J Physiol Heart and Circ Physiol* 301: H2305-12. 2011.
25. Yue L., J.T. Bian, I. Grizelj, A. Cavka, **S.A. Phillips**, A. Makino, T. Mazzone. Macrophage-Derived ApoE Modulates Endothelial Cell Cav-1 Subcellular Distribution to Modulate its Association with eNOS and Regulate NO Production. *Hypertension* 60: 1040-1046. 2012.
26. Vuckovic K.M., M. Piano, and **S.A. Phillips**. Effects of Exercise Training on Peripheral Vascular Endothelial Vasoreactivity in Patients with Heart Failure with Reduced Ejection. *Heart, Lung, Circulation* 22: 328-340. 2013.
27. Goslawski M., JT. Bian, M. Szcurzek, M. Piano, **SA. Phillips**. Binge Drinking Impairs Vascular Function in Young Adults. *J Am Coll Cardiol* 62: 201-207. 2013.
28. Piano M. and **S.A. Phillips**. 20 Things you didn't know about Alcohol. *J. Cardiov Nursing* 28: 220-221. 2013.
29. Lane A.D., Wu P.T., Kistler B., Fitschen P., Tomayko E., Jeong J.H., Chung H.R., Yan H., Ranadive S.M., **Phillips S.**, Fernhall B., Wilund K. Arterial Stiffness an Walk Time in Patients with End Stage Renal Disease. *Kidney Blood Press Res* 37: 142-150. 2013.

30. Klempel M.C., C.M. Kroeger, E. Norkeviciute E., M. Goslawski, **S.A. Phillips**, K.A. Varady. Benefit of Low Fat Diet over High Fat Diet on Vascular Health during Alternate Day Fasting. *Nutr Diabetes*. 27;3: e71. 2013.
31. Bhutani S., M.C. Klempel, C.M. Kroeger C.M. J.F. Trepanowski, **S.A. Phillips**, E. Norkeviciute, K.A. Varady. Alternate Day Fasting With and Without Exercise: Effects on Endothelial Function and Adipokines in Obese Humans. *e-SPEN Journal of Clinical Nutrition and Metabolism* 8: e205-209. 2013.
32. Cavka A, A. Cosic, I Grizelj, A. Koller, B Jelakovic, J.H. Lombard, **S. A. Phillips**, I Drenjancevic. Effects of AT1 Receptor Blockade on Plasma Thromboxane A2 (TXA2) Level and Skin Microcirculation in Young Healthy Women on Low Salt Diet *Kidney Blood Press Res* 37: 432-442. 2013.
33. Grizelj I, A. Cavka, **S.A. Phillips**. Exercise and Vascular Dysfunction. *Periodicum Biologorum* 116: 15-19. 2014.
34. Franklin N.C., M. Ali, A. Robinson, E. Norkeviciute **S.A. Phillips**. Massage Therapy Restores Peripheral Vascular Function following Exertion. *Arch. Phys. Med. Rehabil* 95: 1127-34. 2014.
35. Piano M. and **S.A. Phillips**. Alcoholic Cardiomyopathy: Pathophysiologic Insights. *Cardiovasc Toxicol* 14: 291-308. 2014.
36. Durand M., **S. A. Phillips**, M. Widlansky, M. Otterson, D.D. Gutterman. The Vascular Renin Angiotension System Contributes to Blunted Vasodilation Induced by Transient High Pressure in Human Adipose Microvessels. *Am J Physiol Heart Circ Physiol* 307: H25-H32. 2014.
37. Arena R, L.P. Cahalin, A. Borghi-Silva, **S.A. Phillips**. Improving Functional Capacity in Heart Failure: The Need for a Multifaceted Approach. *Curr Opin Cardiol*. 29: 467-74. 2014.
38. Franklin N.C., M. Ali, M. Goslawski, **S.A. Phillips**. Reduced Vasodilator Function Following Acute Physical Stress in Obese Women. *Front Physiol* 5: 253. 2014.
39. Lane A, R. Kappus, A. Rosenberg, **S.A. Phillips**, J. Woods, R. Motl, T. Baynard, B. Fernhall. Age-Related Ventricular-Vascular Coupling During Acute Inflammation in Humans: Effect of Physical Activity. *Eur J of Prev Cardiol* 22: 904-11. 2015.
40. Bouchard C, L.M. Antunes-Correa, E. A. Ashley, N. Franklin, P.M. Hwang, C. M. Mattsson, C. E. Negrao, **S. A. Phillips**, P. Wang, M. Wheeler. Personalized Preventive Medicine: Genetics and the Response to Regular Exercise in Preventive Interventions. *Prog Cardiovasc Dis* 57: 337-46. 2015.
41. **Phillips S.A.** T. Baynard, K. Vuckovic, L. Cahalin. Defining the System-Contributors to exercise Limitations in Heart Failure. *Heart Failure Clinics* 11:1-16. 2014.

42. Grizelj I, A. Cavka, J.T. Bian, M. Szczurek, A. Robinson, S. Shinde, V. Nguyen, C. Braunschweig, I. Drenjancevic, **S.A. Phillips**. Reduced Dilation to Flow in Visceral Compared to Subcutaneous Adipose Arterioles during Human Obesity. *Microcirculation* 22: 44-53. 2015.
43. Durand M. J., K. Dharmashankar, J. T. Bian, E. Das, M. Vidovich, D. D. Gutterman, **S. A. Phillips**. Acute exertion elicits an H₂O₂- dependent mechanism to maintain microvascular function in exercise trained but not sedentary adults. *Hypertension* 65: 140-5. 2015.
44. Anderson T. and **S.A. Phillips**. Assessment and Prognosis of Peripheral Measures of Arterial Function. *Prog Cardiovasc Dis* 57: 497-509. 2015.
45. **Phillips S.A.**, A.M. Mahamoud, M.B. Brown, J. M. Haus. Exercise interventions and peripheral arterial function: implications for cardio-metabolic disease. *Prog Cardiovasc Dis* 57: 521-34. 2015.
46. Caruso F., **S.A. Phillips**, J.C Bonjorno Jr., R. G. Mendes, V. M. Arakelian, D. Bassi, R. Arena, A. Borghi-Silva. Contrasting Hemodynamic, Ventilatory and Metabolic Responses during Dynamic and Resistance Exercise in CAD Patients: The Implications of Intensity on Safety and Symptoms. *Eur J Phys Rehabil Med* 51: 281-289. 2015.
47. Guazzi M. S.A. Phillips, R. Arena, and C.J. Lavie. Endothelial Dysfunction and Lung Capillary Injury. *Prog Cardiovasc Dis* 57: 454-62. 2015.
48. **Phillips S.A.** and M. Guazzi. The Vasculature in Cardiovascular Diseases: Will the Vasculature Tell Us What the Future Holds? *Prog Cardiovasc Dis* 57: 407-8. 2015.
49. Jeong J.H., P.T. Wu, B.M. Kistler, P.J. Fitschen, A.G. Biruete, **S. A. Phillips**, M.M. Ali, B. Fernhall, K.R. Wilund. The presence and impact of diastolic dysfunction on physical function and body composition in hemodialysis patients. *J Nephrology* 57: 454-62. 2015.
50. Franklin N.C., A. Robinson, J.T. Bian, M. Ali, E. Norkeviciute, K., P. McGinty, **S.A. Phillips**. Circuit Resistance Training Reverses the Reduced Vascular Function after Acute Exertion in Obese Women. *Metab Syndr Relat Disord* 13: 227-34. 2015.
51. Wu P.T., P.J Fitschen, B.M. Kistler, J. H. Jeong, H.R. Chung, M. Aviram, **S.A. Phillips**, B. Fernhall, K.R. Wilund. Effects of Pomegranate Extract Supplementation on Cardiovascular Risk Factors and Physical Function in Hemodialysis Patients. *J Med Food* 18: 941-9. 2015.
52. Mahamoud A. M, M.B. Brown, **S.A. Phillips**, J. M. Haus. Skeletal Muscle Vascular Function: A Counterbalance of Insulin Action. *Microcirculation* 22: 327-47. 2015.
53. Piano M.R., Tiwari S, Nevoral L, **S.A. Phillips**. Phosphatidylethanol Levels Are Elevated and Correlate Strongly with AUDIT Scores in Young Adult Binge Drinkers. *Alcohol and Alcoholism* 50: 519-25. 2015.

54. Cavka A., A. Cosic, I. Jukic, B. Jelakovic, J.H. Lombard, **S.A. Phillips**, V. Seric, I. Mihaljevic, I. Drenjancevic. The Role of Cyclo-oxygenase-1 in High-Salt Diet-Induced Microvascular Dysfunction in Humans. *J Physiol* 593: 5313-24. 2015.
55. Guazzi M., R. Arena, M. Pellegrino, F. Bandera, G. Generati; V. Labate, E. Alfonzetti, M. Halle, R. Haslbauer, **S. A. Phillips**; L. P. Cahalin. Heart Rate Recovery and Exercise Oscillatory Ventilation are Exclusive Exercise Abnormalities in Elderly Diabetics at Risk for Cardiovascular Disease – A Subanalysis of the EURO-EX trial. *Eur J Prev Cardiol* 23: 328-34. 2016.
56. Lane-Cordova A.D., **S.A. Phillips**, Baynard T, Woods JA, Motl RW, Fernhall B. Effects of Aging and Physical Activity on Blood Pressure and Endothelial Function during Acute Inflammation. *Exp Physiol* 101: 962-71. 2016.
57. Cavka A., I. Jukic, M. Ali, M. Goslawski, J.T. Bian, E. Wang, I. Drenjancevic, **S. A. Phillips**. Short-term High Salt Intake Reduces Brachial Artery and Microvascular Function in the Absence of Changes in Blood Pressure *J Hypertens* 34: 676-84. 2016.
58. Robinson A.T. N.C. Franklin, E. Norkeviciute, J.T. Bian, J.C. Babana, M.R. Szczurek, **S.A. Phillips**. Improved Arterial Flow-Mediated Dilation after Exertion involves Hydrogen Peroxide in Overweight and Obese Adults following Aerobic Exercise Training. *J Hypertens* 34: 1309-16. 2016.
59. Arena R., J. Daugherty, S. Bond, C.J. Lavie, **S.A. Phillips**, A. Borghi-Silva. The Combination of Obesity and Hypertension: A Highly Unfavorable Phenotype Requiring Attention. *Curr Opin Cardiol* 31: 394-401. 2016.
60. Caruso FR, J.C. Bonjorno, R. Arena, **S.A. Phillips**, R. Cabiddu, R.G. Mendes, V. M. Arakelian, D. Bassi, A. Borghi-Silva. Hemodynamic, Autonomic, Ventilatory, and Metabolic Alterations after Resistance Training in Patients With Coronary Artery Disease: A Randomized Controlled Trial. *Am J Phys Med Rehabil* 96: 226-235. 2017.
61. Lane-Cordova A.D., S.M Ranadive, R. M. Kappus, M.D. Cook, **S. A. Phillips**, J.A. Woods, K.R. Wilund, T. Baynard, B. Fernhall. Aging, not age-associated inflammation, determines blood pressure and endothelial responses to acute inflammation. *J Hypertens* 34: 2402-2409. 2016.
62. Mahmoud A. M., M.R. Szczurek, B.K. Blackburn, J.T. Mey, Z Chen, A. T. Robinson, J.T. Bian, T.G. Unterman, R.D. Minshall, M.D. Brown1, J.P. Kirwan, **S.A. Phillips**, J.M. Haus. Hyperinsulinemia augments endothelin-1 protein expression and impairs vasodilation of human skeletal muscle arterioles. *Physiol Rep* 4 (16). pii: e12895
63. Sabbahi A., R. Arena, A. Elokda, **S.A. Phillips**. Exercise and Hypertension: Uncovering the Mechanisms of Vascular Control. *Prog Cardiovasc Dis* 59: 226-234. 2016.
64. Hoddy, K., S. Bhutan, **S. A. Phillips**, K. Varady. Effects of different degrees of insulin resistance on endothelial function in obese adults undergoing alternate day fasting. *Nutrition and Healthy Aging* 27: 63-71. 2016.

65. Ahn SJ, I. S. Fancher, J. T. Bian, C.X. Zhang, S. Schwab, R. Gaffin, **S.A. Phillips**, I. Levitan. Inwardly-rectifying K⁺ channels are major contributors to flow-induced vasodilation in resistance arteries. *J Physiol* 595: 2339-2364. 2017.
66. **Phillips S.A.**, S. Martino, R. Arena. Research Opportunities and Challenges in the Era of Healthy Living Medicine: Unlocking the Potential. *Prog Cardiovasc Dis.* 59: 498-505. 2017.
67. Piano M.R., A. Mazzuco, M. Kang, **S.A. Phillips**. Cardiovascular Consequences of Binge Drinking: An Integrative Review with Implications for Advocacy, Policy, and Research. *Alcohol Clin Exp Res* 41: 487-496. 2017.
68. Ozemek, C, **S.A. Phillips**, D. Laddu-Patel, I.S. Fancher, R. Arena, C.J. Lavie. Nonpharmacologic management of hypertension: a multidisciplinary approach. *Curr Opin Cardiol* 32: 381-388. 2017.
69. Robinson AT, I.S. Fancher, V. Sudhahar, J.T. Bian, M. Cook, A.M. Mahmoud, M. Ali, M. Ushio-Fukai, M.D. Brown, T. Fukai, **S.A. Phillips**. Short-term regular aerobic exercise reduces oxidative stress produced by acute high intraluminal pressure in the adipose microvasculature. *Am J Physiol Heart Circ Physiol* 312: H896-H906. 2017.
70. Arena, R, G. Girolami, A. Aruin, A. Keil, J. Sainsbury, **S.A. Phillips**. Integrated approaches to physical therapy education: a new comprehensive model from the University of Illinois at Chicago. *Physiother Theory Pract.* 33: 353-360. 2017.
71. Severin R and **S. A. Phillips**. Respiratory Muscles and Chemoreflex Sensitivity in Heart Failure: A Breath of Fresh Air. *Can J Cardiol.* 33: 433-436. 2017.
72. Piano MR, Mazzuco A, Kang M, **S.A. Phillips**. Binge Drinking Episodes in Young Adults: How Should We Measure Them in a Research Setting? *J Stud Alcohol Drugs.* 78: 502-511. 2017.
73. Archiza B, D.K. Andaku, C.F.R. Caruso, J.C. Bonjorno, C.R. Oliveira, P.A. Ricci, A.C.D. Amaral, S.M. Mattiello, C.A. Libardi, **S.A. Phillips**, R. Arena, A. Borghi-Silva. Effects of inspiratory muscle training in professional women football players: a randomized sham-controlled trial. *J Sports Sci.* 36: 771-780. 2018.
74. Zinkevich N.S., I.S. Fancher IS, D.D. Gutterman, **S.A. Phillips**. Roles of NADPH oxidase and mitochondria in flow-induced vasodilation of human adipose arterioles: ROS-induced ROS release in coronary artery disease. *Microcirculation.* 24. 2017. doi: 10.1111/micc.12380.
75. Mahmoud A.M., M.M. Ali, E.R. Miranda, J.T. Mey, B.K. Blackburn, J.M. Haus, **S.A. Phillips**. Nox2 contributes to hyperinsulinemia-induced redox imbalance and impaired vascular function. *Redox Biol.* 13: 288-300. 2017.
76. **Phillips S.A.**, D.K. Andaku, R.G. Mendes, F.R. Caruso, R. Cabiddu, R.B. Jaenisch, R. Arena, A. Borghi-Silva. Exploring Vascular Function Biomarkers: Implications for Rehabilitation. *Braz J Cardiovasc Surg* 32: 125-135. 2017.

77. Kappus R.M., K. Bunsawat, M.D. Brown, **S.A. Phillips**, J.M. Haus, T. Baynard, B. Fernhall. Effect of oxidative stress on racial differences in vascular function at rest and during hand grip exercise. *J. Hypertens* 35: 2006-2015. 2017.
78. Sabbahi A, R. Arena, J. Woldt, B. Wax, S. Mauk, F. Wolner, **S.A. Phillips**. Improvements in cardiometabolic risk markers, aerobic fitness, and functional performance following a physical therapy weight loss program. *Physiother Theory Pract* 34: 13-21. 2018.
79. Robinson A.T., I.A. Fancher, A.M. Mahmoud, **S.A. Phillips**. Microvascular Vasodilator Plasticity Following Acute Exercise. *Exerc Sport Sci Rev* 46: 48-55. 2018.
80. Bian J.T., M.R. Piano, K.U. Kotlo, A.M. Mahmoud, **S. A. Phillips**. MicroRNA-21 Contributes to Reduced Microvascular Function in Binge Drinking Young Adults. *Alcohol Clin Exp Res* 42: 278-285. 2018.
81. Sabbahi A, R. Arena, L.A. Kaminsky, J. Myers, **S.A. Phillips**. Peak Blood Pressure Responses During Maximum Cardiopulmonary Exercise Testing: Reference Standards From FRIEND (Fitness Registry and the Importance of Exercise: A National Database). *Hypertension* 71: 229-236. 2018.
82. Sudhahar V, M.N. Okur, A. Bagi, J.P. O'Bryan, N. Hay, A. Makino, V.S. Patel, **S.A. Phillips**, Stepp D, Ushio-Fukai M, Fukai T. Akt2 (Protein Kinase B Beta) Stabilizes ATP7A, a Copper Transporter for Extracellular Superoxide Dismutase, in Vascular Smooth Muscle: Novel Mechanism to Limit Endothelial Dysfunction in Type 2 Diabetes Mellitus. *Arterioscler Thromb Vasc Biol* 38: 529-541. 2018.
83. Robinson A.T., A. Mazzuco, A.S. Sabbahi, A. Borghi-Silva, **S.A. Phillips**. The Effect of One Week of a Multi-Ingredient Dietary Pre-Workout Supplement on Resting and Post-Acute Resistance Exercise Vascular Function. *Int J Sport Nutr Exerc Metab.* 27: 1-27. 2018.
84. Fancher I.S., S.J. Ahn, C. Adamos, C. Osborn, M.J. Oh, F. Fang, C.A. Reardon, G.S. Getz, **S.A. Phillips**, I. Levitan. Hypercholesterolemia-Induced Loss of Flow-Induced Vasodilation and Lesion Formation in Apolipoprotein E-Deficient Mice Critically Depend on Inwardly Rectifying K⁺ Channels *J Am Heart Assoc* 7 (5). pii: e007430. doi: 10.1161/JAHA.117.007430. 2018.
85. Hannan M, Steffen A, Quinn L, Collins EG, **Phillips SA**, Bronas UG. The assessment of cognitive function in older adult patients with chronic kidney disease: an integrative review. *J Nephrol* 32: 211-23-. 2018.
86. Martyn-Nemeth P, **Phillips SA**, Mihailescu D, Farabi SS, Park C, Lipton R, Idemudia E, Quinn L. Poor sleep quality is associated with nocturnal glycaemic variability and fear of hypoglycaemia in adults with type 1 diabetes. *J Adv Nurs* 74: 2373-2380. 2018.
87. Piano MR, Burke L, Kang M, **Phillips SA**. Effects of Repeated Binge Drinking on Blood Pressure Levels and Other Cardiovascular Health Metrics in Young Adults: National Health and Nutrition Examination Survey, 2011-2014. *J Am Heart Assoc* 27; 7. 2018 doi: 10.1161/JAHA.118.008733.

88. Farabi SS, Quinn L, **Phillips SA**, Mihailescu D, Park C, Ali M, Martyn-Nemeth P. Endothelial Dysfunction is Related to Glycemic Variability and Quality and Duration of Sleep in Adults With Type 1 Diabetes. *J Cardiovasc Nurs*. 33(4): E21-E25. 2018.
89. Areas GPT, Mazzucco A, Caruso FR, Jaenisch RB, Cabiddu R, **Phillips SA**, Arena R, Borghi-Silva A. Flow-mediated dilation and heart failure: a review with implications to physical rehabilitation. *Heart Fail Rev* 24: 69-80. 2019.
90. Maki KA, Griza DS, **Phillips SA**, Wolska BM, Vidovich MI. Altered hand temperatures following transradial cardiac catheterization: A thermography study. *Cardiovasc Revasc Med*. pii: S1553-8389(18)30323-3. doi: 10.1016/j.carrev.2018.07.024. 2018.
91. Ozemek C, **Phillips SA**, Fernhall B, Williams MA, Stamos TD, Bond S, Claeys H, Laddu DR, Arena R. Enhancing Participation in Cardiac Rehabilitation: A Question of Proximity and Integration of Outpatient Services. *Curr Probl Cardiol* 43: 424-435. 2018.
92. Kang M, **Phillips SA**, Piano MR. Relationship between cardiovascular risk factors and binge drinking among college students in South Korea. *J Ethn Subst Abuse*. 31: 1-14. 2018. doi: 10.1080/15332640.2018.1484311.
93. Oishi JC, Castro CA, Silva KA, Fabricio V, Cárnio EC, **Phillips SA**, Duarte ACGO, Rodrigues GJ. Endothelial Dysfunction and Inflammation Precedes Elevations in Blood Pressure Induced by a High-Fat Diet. *Arq Bras Cardiol* 110: 558-567. 2018.
94. **Phillips SA**, Ali M, Modrich C, Oke S, Elokda A, Laddu D, Bond S. Advances in Health Technology Use and Implementation in the Era of Healthy Living: Implications for Precision Medicine. *Prog Cardiovasc Dis*. 2019 Jan - Feb;62(1):44-49.
95. Severin R, Sabbahi A, Mahmoud AM, Arena R, **Phillips SA**. Precision Medicine in Weight Loss and Healthy Living. *Prog Cardiovasc Dis*. 2019 Jan - Feb;62(1):15-20.
96. Hwang CL, Bishop J, Ching J, Elokda A, da Silva ALG, Laddu D, **Phillips SA**. Precision Measurements to Assess Baseline Status and Efficacy of Healthy Living Medicine. *Prog Cardiovasc Dis*. 2019 Jan - Feb;62(1):55-59.
97. Ali M, Mahmoud AM, Le Master E, Levitan I, **Phillips SA**. Role of Matrix Metalloproteinases and Histone Deacetylase in Oxidative Stress-induced Degradation of the Endothelial Glycocalyx. *Am J Physiol Heart Circ Physiol* 316: H647-H663. 2019.
98. da Silva ALG, Sardeli AV, André LD, Severin R, de Oliveira CR, Hassan C, Borghi-Silva A, **Phillips SA**. Exercise Training Does Improve Cardiorespiratory Fitness in Post-Bariatric Surgery Patients. *Obes Surg* 29: 1416-1419. 2019.
99. Bonjorno Junior JC, Caruso FR, Mendes RG, da Silva TR, Biazon TMPC, Rangel F, **Phillips SA**, Arena R, Borghi-Silva A. Noninvasive Measurements of Hemodynamic, Autonomic and Endothelial

- Function as Predictors of Mortality in Sepsis: A Prospective Cohort Study. *PLoS One* 14(3): e0213239. 2019.
100. Severin R, Wang E, Wielechowski A, **Phillips SA**. Outpatient Physical Therapist Attitudes Toward and Behaviors in Cardiovascular Disease Screening: A National Survey. *Phys Ther* 99: 833-848. 2019.
101. **Phillips SA**, Osborn K, Hwang CL, Sabbahi A, Piano MR. Ethanol Induced Oxidative Stress in the Vasculature: Friend or Foe. *Curr Hypertens Rev.* 2019 Mar 25. doi: 10.2174/1573402115666190325124622.
102. Mahmoud A, Hwang CL, Szczurek M, Bian JT, Ranieri, Guterman DD, and **Phillips SA**. Low-fat Diet designed for Weight Loss but not Weight Maintenance Improves Nitric Oxide-dependent Arterial Vasodilation in Obese Adults. *Nutrients* 14; 11. pii: E1339. 2019.
103. Mulubrhan MF, Salemi JL, **Phillips SA**, Piano MR. Contemporary Appraisal of Sex Differences in Prevalence, Correlates, and Outcomes of Alcoholic Cardiomyopathy. *Alcohol and Alcoholism* 54: 386-395. 2019.
104. Jeong JH, Biruete A, Tomayko EJ, Wu PT, Fitschen P, Chung HR, Ali M, McAuley E, Fernhall B, **Phillips SA**, Wilund KR. Results from the randomized controlled IHOPE trial suggest no effects of oral protein supplementation and exercise training on physical function in hemodialysis patients. *Kidney Int* 96: 777-786. 2019.
105. Sabbahi A, Ozemek C, **Phillips SA**, Arena R, Severin R. Approaches to improving exercise capacity in patients with left ventricular assist devices: an area requiring further investigation. *Expert Rev Med Devices.* 16: 787-798. 2019.
106. Ribeiro JAM, Oliveira SG, Di Thommazo-Luporini L, Monteiro CI, **Phillips SA**, Catai AM, Borghi-Silva A, Russo TL. Energy Cost During the 6-Minute Walk Test and Its Relationship to Real-World Walking After Stroke: A Correlational, Cross-Sectional Pilot Study. *Phys Ther* 16; 99: 1656-1666. 2019.
107. Hwang CL, Piano MR, Thur LA, Peters TA, da Silva ALG, **Phillips SA**. The effects of repeated binge drinking on arterial stiffness and urinary norepinephrine levels in young adults. *J Hypertens.* J Hypertens 38: 111-117. 2020.
108. Mahmoud AM, Szczurek M, Hassan C, Masrur M, Gangemi A, **Phillips SA**. Vitamin D Improves Nitric Oxide-Dependent Vasodilation in Adipose Tissue Arterioles from Bariatric Surgery Patients. *Nutrients.* 11 (10). 2019.
109. Severin R, Sabbahi A, Ozemek C, **Phillips SA**, and Arena R. Approaches to improving exercise capacity in patients with left ventricular assist devices: an area requiring further investigation. *Expert review of medical devices*, 16: 787-798. 2019.

110. Ali MM, **Phillips SA**, Mahmoud AM. HIF1 α /TET1 Pathway Mediates Hypoxia-Induced Adipocytokine Promoter Hypomethylation in Human Adipocytes. *Cells*. 6; 9: 134. 2020. doi: 10.3390/cells9010134.
111. Sabbahi A, Severin R, Ozemek C, **Phillips SA**, Arena R. The role of cardiopulmonary exercise testing and training in patients with pulmonary hypertension: making the case for this assessment and intervention to be considered a standard of care. *Expert Rev Respir Med*. 14:317-327. 2020.
112. Hwang CL, Bian JT, Thur LA, Peters TA, Piano MR, **Phillips SA**. Tetrahydrobiopterin Restores Microvascular Dysfunction in Young Adult Binge Drinkers. *Alcohol Clin Exp Res*. 44: 407-414. 2020.
113. Severin R, Sabbahi A, Albarrati A, **Phillips SA**, Arena S. Blood Pressure Screening by Outpatient Physical Therapists: A Call to Action and Clinical Recommendations. *Phys Ther*. 23; 100: 1008-1019. 2020.
114. Severin, R., Arena, R., Lavie, C., Bond, S., **Phillips SA**. Respiratory Muscle Performance Screening for Infectious Disease Management Following COVID-19: A Highly-Pressurized Situation. *American Medical Journal*. 133: 1025-1032. 2020.
115. Laddu, D.R., Lavie, C.J., **Phillips S.A.**, R. Arena. Physical Activity for Immunity Protection: Inoculating Population with Healthy Living Medicine in Preparation for the Next Pandemic. *Prog Cardiovasc Dis*. 64: 102-104. 2021.
116. Hall G, Laddu DR, **Phillips SA**, Lavie CJ, Arena R. A tale of two pandemics: How will COVID-19 and global trends in physical inactivity and sedentary behavior affect one another? *Prog Cardiovasc Dis*. 64: 108-110. 2021.
117. Hwang CL, Ranieri C, Szczurek MR, Ellythy AM, Elokda A, Mahmoud AM, **Phillips SA**. The Effect of Low-Carbohydrate Diet on Macrovascular and Microvascular Endothelial Function Is Not Affected by the Provision of Caloric Restriction in Women with Obesity: A Randomized Study *Nutrients*. 12: E1649. doi: 10.3390/nu12061649. 2020.
118. Sanches E, Topal B, Proczko M, Stepaniak PS, Severin R, **Phillips SA**, Sabbahi A, Pujol Rafols J, Pouwels S. Endothelial function in obesity and effects of bariatric and metabolic surgery. *Expert Rev Cardiovasc Ther*. 18: 343-353. 2020.
119. Pouwels S, Sanches EE, Cagiltay E, Severin R, **Phillips SA**. Perioperative Exercise Therapy in Bariatric Surgery: Improving Patient Outcomes. *Diabetes Metab Syndr Obes*. 25: 1813-1823. 2020.
120. Caruso FR, Archiza B, Andaku DK, Trimer R, Bonjorno-Junior JC, de Oliveira CR, Libardi CA, **Phillips SA**, Arena R, Mendes RG, Borghi-Silva A. Effects of acute inspiratory loading during treadmill running on cerebral, locomotor and respiratory muscle oxygenation in women soccer players. *Respir Physiol Neurobiol*. 281:103488. 2020.
121. Haloul M, Vinjamuri SJ, Naquiallah D, Mirza MI, Qureshi M, Hassan C, Masrur M, Bianco FM, Frederick P, Cristoforo GP, Gangemi A, Ali MM, **Phillips SA**, Mahmoud AM.

Hyperhomocysteinemia and Low Folate and Vitamin B12 Are Associated with Vascular Dysfunction and Impaired Nitric Oxide Sensitivity in Morbidly Obese Patients. *Nutrients*. 7: 12. pii: E2014. doi: 10.3390/nu12072014.

122. Hwang CL, Elokda A, Ozemek C, Arena R, **Phillips SA**. More than a matter of the heart: the concept of intravascular multimorbidity in cardiac rehabilitation. *Expert Rev Cardiovasc Ther*. 1:1-6. 2020.
123. Fancher IS, Le Master E, Ahn SJ, Adamos C, Lee JC, Berdyshev E, Dull RO, **Phillips SA**, Levitan I. Impairment of Flow-Sensitive Inwardly Rectifying K(+) Channels via Disruption of Glycocalyx Mediates Obesity-Induced Endothelial Dysfunction. *Arterioscler Thromb Vasc Biol*. 23: 40: e240-e2552020.
124. Varas-Diaz G, Subramaniam S, Delgado L, **Phillips SA**, Bhatt T. Effect of an Exergaming-Based Dance Training Paradigm on Autonomic Nervous System Modulation in Healthy Older Adults: A Randomized Controlled Trial. *J Aging Phys Act*. 22; 29: 1-9.
125. Piano MR, Thur LA, Hwang CL, **Phillips SA**. Effects of Alcohol on the Cardiovascular System in Women. *Alcohol Res*. 30; 40: 12. 2020.
126. Ribeiro JAM, Oliveira AGDS, Thommazo-Luporini LD, Monteiro CI, Ocamoto GN, Catai AM, Borghi-Silva A, **Phillips SA**, Russo TL. Underlying mechanisms of oxygen uptake kinetics in chronic post-stroke individuals: A correlational, cross-sectional pilot study. *PLoS One*. 9;15: e0241872.
127. Laddu DR, Ozemek C, Sabbahi A, Severin R, **Phillips SA**, Arena R. Prioritizing movement to address the frailty phenotype in heart failure. *Prog Cardiovasc Dis*. Jul-Aug 67:26-32.2 2021.
128. Ali MM, Naquiallah D, Qureshi M, Mirza MI, Hassan C, Masrur M, Bianco FM, Frederick P, Cristoforo GP, Gangemi A, **Phillips SA**, Mahmoud AM. DNA methylation profile of genes involved in inflammation and autoimmunity correlates with vascular function in morbidly obese adults. *Epigenetics*. 25:1-17. doi: 10.1080/15592294.2021.1876285. 2021.
129. Arena R, Myers J, Harber M, **Phillips SA**, Severin R, Ozemek C, Peterman JE, Kaminsky LA. The V'E/V'CO₂ Slope During Maximal Treadmill Cardiopulmonary Exercise Testing: REFERENCE STANDARDS FROM FRIEND (FITNESS REGISTRY AND THE IMPORTANCE OF EXERCISE: A NATIONAL DATABASE). *J Cardiopulm Rehabil Prev*. 41: 194-198. 2021.
130. Hwang CL, Chen SH, Chou CH, Grigoriadis G, Liao TC, Fancher IS, Arena R, **Phillips SA**. The physiological benefits of sitting less and moving more: Opportunities for future research. *Prog Cardiovasc Dis*. doi: 10.1016/j.pcad.2020.12.010. 2021.
131. Kabbach EZ, Heubel AD, da Luz Goulart C, Di Lorenzo VAP, **Phillips SA**, Borghi-Silva A, Mendes RG. Association of exercise capacity and endothelial function in patients with severe exacerbations of chronic obstructive pulmonary disease. *Sci Rep*. 11: 461. 2021.

132. Marsico A, Dal Corso S, Farah de Carvalho E, Arakelian V, **Phillips SA**, Stirbulov R, Polonio I, Navarro F, Consolim-Colombo F, Cahalin LP, Malosa Sampaio LM. A more effective alternative to the 6-minute walk test for the assessment of functional capacity in patients with pulmonary hypertension. *Eur J Phys Rehabil Med.* 57: 645-652 2021.
133. Andaku DK, Archiza B, Caruso FR, Trimer R, Amaral AC, Bonjorno JC Jr, de Oliveira CR, **Phillips SA**, Arena R, Borghi-Silva A. Short-term effects of maximal dynamic exercise on flow-mediated dilation in professional female soccer players. *J Sports Med Phys Fitness* 60: 1159-1166. 2021.
134. Sabbahi A, Arena R, Kaminsky LA, Myers J, Fernhall B, Sundeeep C, **Phillips SA**. Characterization of the blood pressure response during cycle ergometer cardiopulmonary exercise testing in black and white men: Data from the Fitness Registry and Importance of Exercise: A National Database (FRIEND). *J Hum Hypertens.* 35: 685-695. 2021.
135. Hannan M, Collins EG, **Phillips SA**, Quinn L, Steffen A, Bronas UG. Cognitive and vascular function in older adults with and without CKD. *Aging Clin Exp Res.* 33: 1885-1894. 2021.
136. Heubel AD, Kabbach EZ, Schaufuser NS, **Phillips SA**, Pires Di Lorenzo VA, Borghi Silva A, Mendes RG. Noninvasive ventilation acutely improves endothelial function in exacerbated COPD patients. *Respir Med.* 181: 106389. 2021.
137. Hahn JA, Murnane PM, Vittinghoff E, Muyindike WR, Emenyonu NI, Fatch R, Chamie G, Haberer JE, Francis JM, Kapiga S, Jacobson K, Myers B, Couture MC, DiClemente RJ, Brown JL, So-Armah K, Sulkowski M, Marcus GM, Woolf-King S, Cook RL, Richards VL, Molina P, Ferguson T, Welsh D, Piano MR, **Phillips SA**, Stewart, S, Afshar M, Page K, McGinnis K, Fiellin DA, Justice AC, Bryant K, Saitz R. Factors associated with phosphatidylethanol (PEth) sensitivity for detecting unhealthy alcohol use: An individual patient data meta-analysis. *Alcohol Clin Exp Res.* 45: 1166-1187. 2021.
138. Sabbahi A, Ellythy A, Hwang CL, **Phillips SA**. Differential responses of resistance arterioles to elevated intraluminal pressure in blacks and whites. *Am J Physiol Heart Circ Physiol* 321: H29-H37. 2021.
139. Hannan M, Collins EG, **Phillips SA**, Quinn L, Steffen AD, Bronas UG. Sedentary Behavior in Older Adults With Preclinical Cognitive Impairment With and Without Chronic Kidney Disease. *J Gerontol Nurs.* 47: 35-42. 2021.
140. Laddu D, Kim H, **Phillips SA**, Jun MA. INERTIA: A pilot study of the impact of progressive resistance training on blood pressure control in older adults with sarcopenia. *Contemp Clin Trials.* 108: 106516. 2021.
141. Hwang CL, Piano MR, **Phillips SA**. The effects of alcohol consumption on flow-mediated dilation in humans: A systematic review. *Physiol Rep* 9: e14872. 2021.
142. Ali MM, Hassan C, Masrur M, Bianco FM, Naquiallah D, Mirza I, Frederick P, Fernandes ET, Giulianotti CP, Gangemi A, **Phillips SA**, Mahmoud AM. Adipose Tissue Hypoxia Correlates with

- Adipokine Hypomethylation and Vascular Dysfunction. *Biomedicines* 18;9. 2021. doi: 10.3390/biomedicines9081034.
143. Laddu DR, Ozemek C, Sabbahi A, Severin R, **Phillips SA**, Arena R. Prioritizing movement to address the frailty phenotype in heart failure. *Prog Cardiovasc Dis.* 67:26-32. 2021.
144. Greenwalt D, **Phillips SA**, Severin R. Physical Activity Promotion in the Home Health Setting: Small Steps Still Count. *Home Healthc Now.* 39: 352-353. 2021.
145. Severin R, Sabbahi A, Arena R, **Phillips SA**. Precision Medicine and Physical Therapy: A Healthy Living Medicine Approach for the Next Century. *Phys Ther.* 2021 Nov 1;. doi: 10.1093/ptj/pzab253.
146. Lefferts EC, Hibner BA, Lefferts WK, Lima NS, Baynard T, Haus JM, Lane-Cordova AD, **Phillips SA**, Fernhall B. Oral vitamin C restores endothelial function during acute inflammation in young and older adults. *Physiol Rep* 9(21):e15104. 2021.
147. Ahn SJ, Le Master E, Lee JC, **Phillips SA**, Levitan I, Fancher IS. Differential effects of obesity on visceral versus subcutaneous adipose arteries: role of shear-activated Kir2.1 and alterations to the glycocalyx. *Am J Physiol Heart Circ Physiol* 322: H156-H166. 2022. doi: 10.1152/ajpheart.00399.2021. Epub 2021 Dec 10.
148. Severin R, Sabbahi A, Arena R, **Phillips SA**. Precision Medicine and Physical Therapy: A Healthy Living Medicine Approach for the Next Century. *Phys Ther* 102(1). 2022. doi: 10.1093/ptj/pzab253.
149. Hwang CL, **Phillips SA**, Tu MH, Piano MR. Time to Promote the Awareness of Unhealthy Alcohol Use Among Women. *J Womens Health (Larchmt).* 31(1):1-3. 2022.
150. Laddu DR, LaMonte MJ, Haring B, Kim H, Cawthon P, Bea JW, Banack H, Cauley JA, Allison MA, Martin LW, LeBoff MS, Stefanick ML, **Phillips SA**, Ma J. Longitudinal physical performance and blood pressure changes in older women: Findings from the women's health initiative. *Arch Gerontol Geriatr.* 98 Jan-Feb:104576. 2022.
151. Ali MM, Naquiallah D, Qureshi M, Mirza MI, Hassan C, Masrur M, Bianco FM, Frederick P, Cristoforo GP, Gangemi A, **Phillips SA**, Mahmoud AM. DNA methylation profile of genes involved in inflammation and autoimmunity correlates with vascular function in morbidly obese adults *Epigenetics* 17: 93-109. 2022.
152. Ahn SJ, Fancher IS, Granados ST, Do Couto NF, Hwang CL, **Phillips SA**, Levitan I. Cholesterol-Induced Suppression of Endothelial Kir Channels Is a Driver of Impairment of Arteriolar Flow-Induced Vasodilation in Humans. *Hypertension.* 79: 126-138. 2022.
153. Arena R, Hall G, Laddu DR, **Phillips SA**, Lavie CJ. A tale of two pandemics revisited: Physical inactivity, sedentary behavior and poor COVID-19 outcomes reside in the same Syndemic City. *Prog Cardiovasc Dis.* 64: 108-110. 2021.

154. Mahmoud AM, Gonçalves da Silva AL, André LD, Hwang CL, Severin R, Sanchez-Johnsen L, Borghi-Silva A, Elokda A, Arena R, **Phillips SA**. Effects of exercise mode on improving cardiovascular function and cardiorespiratory fitness after bariatric surgery: A narrative review. *Am J Phys Med Rehabil*. 2022 Jan 14. doi: 10.1097/PHM.0000000000001946.
155. Hwang CL, Muchira J, Hibner BA, **Phillips SA**, Piano MR. Alcohol Consumption: A New Risk Factor for Arterial Stiffness? *Cardiovasc Toxicol*. 22: 236-245. 2022.
156. Mirza I, Naquiallah D, Mohamed, A, Abdulbaseer U, Hassan C, Masrur M, Ali MM, **Phillips SA**, Mahmoud AM. DNA Hypomethylation as a Potential Link between Excessive Alcohol Intake and Cardiometabolic Dysfunction in Morbidly Obese Adults. *Biomedicines*. 10(8), 1954; <https://doi.org/10.3390/biomedicines10081954>.
157. Shay LA, Schmidt S, Thurston AJ, Campbell JA, Dawson AZ, Egede LE, Ozieh MN, **Phillips SA**, Walker RJ, Williams JS, Tsevat J. Advancing Diversity, Equity, and Inclusion within Clinical and Translational Science Training Programs: A Qualitative Content Analysis of the Training Breakout Session at the National CTSA Program Meeting. *Journal of Clinical and Translational Science*, 1-18. doi:10.1017/cts.2022.442.
158. Ribeiro JAM, Oliveira SG, Ocamoto GN, Thommazo-Luporini LD, Mendes RG, Borghi-Silva A, **Phillips SA**, Billinger SA, Russo TL. Hemispheric lateralization, endothelial function, and arterial compliance in chronic post-stroke individuals: A cross-sectional exploratory study. *Int J Neurosci*. 2022 Sep 5:1-11. doi: 10.1080/00207454.2022.2118597.
159. Padovani C, da Costa Arruda RM, **Phillips SA**, Sampaio LMM. Cardiac autonomic activity, endothelial function and physical fitness in type 2 diabetic patients. *Revista Ciências em Saúde* 12 (3), 53-60. 2022.
160. Severin R, Franz CK, Farr E, Meirelles C, Arena R, **Phillips SA**, Bond S, Ferraro F, Faghy M; HL-PIVOT Network. The effects of COVID-19 on respiratory muscle performance: making the case for respiratory muscle testing and training. *Eur Respir Rev*. 2022 31(166):220006.
161. Campbell JA, Walker RJ, Dawson AZ, Ozieh MN, Schmidt S, Shay LA, Williams JS, Phillips SA, and Egede LE. Feasibility, impact, and priority of key strategies to enhance diverse and inclusive training programs in clinical and translational research: A mixed methods study. *Journal of Clinical and Translational Science* 7: e16, 1–8. 2023.

C. Book Chapters

- 1) Franklin N.D. and **S.A. Phillips**. “The Vascular Endothelium: A Conduit by which Aerobic Exercise Reduced Cardiovascular Disease Risk.” From *Aerobic Exercise: Health Benefits, Types and Common Misconceptions*. Nova Science Publishers. 2013.
- 2) **Phillips S.A.** “Peripheral Arterial Disease.” from *Exercise Management for Chronic Diseases and Disabilities*. American College of Sports Medicine. 4th edition.
- 3) Severin, R; S. Bond, A. Mazzucco; A. Borghi Silva; R. Arena, **S. A. Phillips**. “Obesity and Respiratory Skeletal Muscles” from *Nutrition and Skeletal Muscle*. Elsevier. 2018.

D. Abstracts and Presentations at Conferences.

1. **Phillips S.A.**, and J.H. Lombard. AT₁ Receptor Blockade Impairs Vasodilator Responses In Skeletal Muscle and Cerebral Resistance Arteries. *FASEB J*. 16: 2002.
2. Lombard, J.H., F.A. Sylvester, **S.A. Phillips**, J.C. Frisbee. Thromboxane A₂ (TXA₂) release and impaired G-protein coupling contribute to loss of hypoxic dilation in middle cerebral arteries (MCA) of rats on a high salt (HS) diet. *FASEB J* 16: A78-A79, 2002.
3. Sylvester F.A., **S.A. Phillips**, J.C. Frisbee, J.H. Lombard. AT₁ and AT₂ receptors mediate the restorative effect of Angiotensin II on acetylcholine reactivity in cerebral arteries of rats on high salt diet. *FASEB J* 16: A127-A128, 2002.
4. **Phillips S.A.**, J.C. Frisbee, and J.H. Lombard. Losartan treatment impairs hypoxia induced dilation in skeletal muscle resistance resistance arteries via thromboxane A₂ release. *FASEB J* 17: A511, 2003.
5. **Phillips S.A.**, J.H. Lombard, E.B. Olson, and B.J. Morgan. Chronic intermittent hypoxia impairs endothelium-dependent dilation in cerebral and skeletal muscle resistance arteries. *FASEB J* 17: A949-A950, 2003.
6. **Phillips S.A.**, and J.H. Lombard. Angiotensin (ANG II) AT₁ receptor activation maintains vascular relaxation mechanisms in middle cerebral arteries. *FASEB J* 18: A249. 2004.
7. **Phillips S.A.** and J.C. Frisbee. Superoxide scavengers restore impaired vasodilator reactivity in obese Zucker rats. *FASEB J* 18: A653. 2004.
8. **Phillips S.A.**, J.H. Lombard, E.B. Olson, B.J. Morgan. Chronic intermittent hypoxia attenuates vasoconstrictor reactivity in rat skeletal muscle resistance arteries. *FASEB J* 18: A725. 2004.
9. McEwen S., **S.A. Phillips**, J.H. Lombard. Effect of Angiotensin II (ANG II) AT₁ Receptor Blockade on Responses to Vasodilator Stimuli in the Hamster Cheek Pouch. *FASEB J* S18. 2004.
10. Lombard J.H., M.W. Buelow, K.T. Behm, **S.A. Phillips**, F.A. Sylvester. High diet and angiotensin II AT₁ receptor blockade depress intestinal contractile responses to acetylcholine in normotensive rats. *FASEB J* 19: A570. 2005.
11. Frisbee J.C., **S.A. Phillips**, F.A. Sylvester. Oxidant stress and constrictor reactivity impair cerebral artery dilation in obese Zucker rats. *FASEB J*. 19: A637. 2005.
12. **Phillips S.A.**, L.B. Somberg, M.F. Otterson, G.L. Telford, A.C. Nicolosi, D.D. Gutterman. Effect of coronary artery disease on flow induced dilation in human visceral adipose resistance vessels. *FASEB J* 19: A707. 2005.

13. Hatoum O.A. D.G. Binion, H. Miura, **S.A. Phillips**, D.D. Gutterman. Nitric oxide assessment in control and chronically inflamed inflammatory bowel disease submucosal intestinal microvessels. *FASEB J* 19: A705. 2005.
14. Larsen B.T. M. F. Otterson. H. Miura, **S.A. Phillips**, R.M. Selle, D.D. Gutterman, O.A. Hatoum. Radiation impairs endothelium-dependent dilation of murine intestinal arterioles via reduction of nitric oxide by reactive oxygen species. *FASEB J* 20. A1162. 2006.
15. **Phillips, S.A.**, Kulinski JP, Syed AQ, Syed A, Pleuss J, Jurva JW, DD Gutterman. Do low fat and low carbohydrate diets show similar improvement in endothelial function? *FASEB J.* 20. A1392. 2006.
16. Pleuss J.A. **S.A. Phillips**. R. Hoffmann, A. Y. Syed, A.Q. Syed, D.D. Gutterman. The effect of a low fat diet compared to a low carbohydrate diet on weight loss. *Journal of American Dietetics Association.* 106. A32. 2006.
17. **Phillips S.A.** K. Spurgeon. J.C. Frisbee. D. P. Basile. Elevated vascular oxidant stress contributes to enhanced peripheral vasoconstriction to angiotensin II following recovery from acute renal failure. *American Society of Nephrology.* 2006.
18. Larsen B.T. **S.A. Phillips**, A. H. Bubolz, J. Zielonka, B. Kalyanaraman, D.D. Gutterman. HPLC separation of hydroethidine products: a specific and sensitive method for quantifying microvascular superoxide. *FASEB J* 21. A447. 2007.
19. **Phillips S.A.**, L.B. Somberg, O.A. Hatoum, D.D. Gutterman. Mechanisms of hydrogen peroxide induced vasoconstriction in human adipose resistance arteries. *FASEB J* 21. A491. 2007.
20. **Phillips S.A.**, A.Q.Syed, A.Y. Syed, E.K. Das, J.W. Jurva, and D.D. Gutterman. Resistance and aerobic exercise protects against endothelial dysfunction induced by acute exertion. *FASEB J* 21. 2007.
21. Wittenburg A.L. **S.A. Phillips**, D.D. Gutterman. The role of catalase and endothelium in hydrogen peroxide induced vasodilation of human adipose arterioles. *FASEB J* 21. LB463. 2007.
22. **Phillips S.A.**, D.D. Gutterman, L.B. Somberg. Effect of hemorrhagic shock during trauma on endothelial function in human adipose microcirculation. *Shock* 27. 81. 2007.
23. **Phillips S.A.**, S.A. Mendoza, L.B. Somberg, and D.D. Gutterman. Mechanisms of bradykinin dilation and the modulatory effect of perivascular fat in human adipose microcirculation. *8th World Congress on Microcirculation.* Milwaukee, WI, USA. 2007.
24. **Phillips, S.A.** Exercise, Oxidative Stress and Human Endothelial Function.. *Periodicum Biologorum* 109. 70. 2007. Presented in the Republic of Croatia.

25. **Phillips, S.A.** L.B. Somberg, A. Perme, E. K. Das, D.D. Gutterman. Chronic Exercise Protects against Macro- and Micro- vascular Endothelial Dysfunction Induced by Acute Hypertension during Exertion. *Circulation (Suppl)* 116. 229-230. 2007.
26. Migrino R. Q., M. Bright, P. Hari, V. Nguyen-Liu, L. Connors, B. Kalyanraraman, **S.A. Phillips**. Primary Amyloidosis Light Chains Impair Endothelium-Dependent Vasodilation in Human Arterioles. *Circulation (Suppl)* 359. 2007.
27. Das E. K., D.D. Gutterman, **S.A. Phillips**. Exercise Protects against Endothelial Dysfunction during Oral Glucose and High Fat Load. *FASEB J* 22. 2008.
28. **Phillips S.A.**, L. Tussing, J. Henry, C. Braunschweig. Mechanisms of Microvascular Endothelial Dysfunction in Subcutaneous Fat During Human Obesity. *FASEB J*. 2009.
29. Varady K.S., S. Bhutani, E.C. Church, **S.A. Phillips**. Acute effects of weight lifting on plasma adiponectin in trained versus untrained individuals. *FASEB J*. 2009.
30. Varady K.S., S Bhutani, E. C. Church, **S.A. Phillips**. Effect of low-fat versus low-carbohydrate diets on body fat loss and circulating adipokine concentrations in obese humans. 27th Annual Meeting of the Obesity Society. Washington, D.C., October 2009.
31. **Phillips S.A.**, J.T. Bian, E.C. Church, E.K. Das, M. Vidovich, D.D. Gutterman. Hydrogen Peroxide Prevents Impaired Endothelium-dependent Dilation Following Acute Exertion in Chronic Exercising but not in Sedentary Subjects. *Circulation (Suppl 2)*. 120. 2009.
32. **Phillips, S.A.**, Bian J.T., Bhat S., and Varady K.S. Reduced leptin and resistin and increased adiponectin are associated with improved endothelial function during weight loss with low fat compared to low carbohydrate diets. *FASEB J*. 2010.
33. **Phillips, S.A.** The Effects of Diet and Exercise on Microvascular Mechanisms of Vasodilation in Humans. 9th World Congress for Microcirculation. Paris, France. September 28, 2010.
34. **Phillips S.A.** Microcirculation, Blood Pressure, and Physical Exercise. Presented in Osijek (Republic of Croatia). *Kidney Blood Press Res* 33; 429, 2010.
35. Franklin N.C., M. Ali, M. Goslawski, **S. A. Phillips**. Reduced Brachial Artery Smooth Muscle Function after Acute Exhaustive Resistance Exercise in Obesity. *APTA Combined Sections Meeting* (platform presentation). Chicago, IL. 2012.
36. Bian J.T., J Goldufsky, M. Goslawski, N. Franklin, **S.A. Phillips**. Reduced catalase and increased hydrogen peroxide contribute to the protective effect of chronic exercise against microvascular dysfunction induced by acute exertion. *FASEB J*. 2011.
37. Bian J.T., J. Goldufsky, M. Goslawski, N. Franklin, **S.A. Phillips**. Increased endogenous anti-oxidative proteins and endothelial nitric oxide synthase contribute to the protective effect of chronic

exercise against microvascular dysfunction induced by acute exertion. *Arteriosclerosis, Thrombosis and Vascular Biology Scientific Sessions. 2011.*

38. Beyer A.M., **S.A. Phillips**, D.D. Gutterman. Acute Increase in Arterial Pressure Elevates ROS and Converts the Mechanism of FMD in Human Arterioles from NO to H₂O₂. *AHA Council on High Blood Pressure Meeting. 2011.*
39. Goslawski M., J.T. Bian, M. Szcurek, M. Piano, **S.A. Phillips**. Frequent, Episodic Alcohol Consumption Alters Macro-and Micro-Vascular Reactivity in Young Adults. *Circulation (Suppl 2). American Heart Association Scientific Sessions. 2011.*
40. Franklin N.C., Ali M., Goslawski M., **S.A. Phillips**. Impaired Vascular Function after Acute Exhaustive Resistance Exercise in Sedentary Lean and Obese Women. *Special Session for NIH/NHLBI trainees. American Heart Association Scientific Sessions. 2011.*
41. Ali M. and **S.A Phillips**. Novel Inhibition of Monocyte Attachment to Endothelial Cells Involves Hypersulfated Heparan Sulfate *FASEB J.* 2012.
42. Bian J.T., L. Yui, N.C. Franklin, T. Mazzone, **S.A. Phillips**. Exercise training during human obesity protects against impaired microvascular function after acute exertion by enhancing hydrogen peroxide-mediated flow-induced dilation. *FASEB J.* 2012.
43. Grizelj I., A. Cavka, J.T. Bian, I. Drenjancevic, **S.A. Phillips**. Microvascular reactivity in subcutaneous and visceral fat tissue in human obesity. *FASEB J.* 2012.
44. Durand M.J., D.D. Gutterman, **S.A. Phillips**. The Vascular Renin Angiotensin System Contributes to Endothelial Dysfunction Induced by Acute High Pressure in Human Adipose Microvessels. *FASEB J.* 2012.
45. Franklin N.C., M. Ali, E. Norkeviciute, P. McGinty, **S.A. Phillips**. Moderate-Intensity Resistance Training Improves Vascular Function in Obese Women. *American Physiological Society Integrative Physiology of Exercise Meeting. Colorado. 2012.* (press release-declined due to pending publication).
46. Cavka A., Grizelj I., M. Goslawski, I. Drenjancevic, **S.A. Phillips**. Short-term high salt diet reduces brachial FMD in the absence of changes in blood pressure. Presented at the *Artery Society Meeting (Artery 12)*, Vienna, Austria, 2012.
47. Lane A., R. Kappus, K. Bunswat, J. Woods, **S.A. Phillips**, R. Motl, T. Baynard, B. Fernhall. Acute, induced inflammation affects arterial load. Presented at the *Artery Society Meeting (Artery 12)*, Vienna, Austria, 2012.
48. Franklin N.C., Ali, M, McGinty, P, Norkeviciute, E, and **S. A. Phillips**. Resistance Exercise Training Improves Endothelium-Dependent Vasodilation after Acute Exertion in Obese Women. *AHA, Scientific Sessions. 2012.*

49. Franklin N.C., Ali, MM, Norkeviciute, E, Robinson AT, and **S.A. Phillips**. Massage Therapy Improves Systemic Vascular Endothelial Function after Exertion-Induced Muscle Injury. ACSM, Annual Meeting. Indianapolis, IN, 2013.
50. Franklin, N.C., Ali, MM, Norkeviciute, E, Leavitt, MM and **S.A. Phillips**. Massage Therapy Improves Endothelium-Dependent Vascular Function in Inactive Young Adults. International Massage Therapy Research Conference. Boston, MA, 2013.
51. Grizelj I., A. Cavka, J.T. Bian, I. Drenjancevic, **S.A. Phillips**. Role of K-Channels in Microvascular Flow- Induced Dilation of Subcutaneous and Visceral Arterioles in Human Obesity. Experimental Biology Conference, Boston, MA, 2013.
52. Robinson A., M. Szczurek, J.T. Bian, A. Cavka, I. Grizelj, and **S.A. Phillips**. Mitochondrial reactive oxygen species contribute to impaired flow-induced dilation in visceral but not subcutaneous adipose tissue resistance arteries in human obesity. Experimental Biology Conference, Boston, MA, 2013.
53. Bian J.T., M. Szczurek, A. Robinson, **S.A. Phillips**. Impaired vasodilation of human obese visceral resistance arteries is improved by apocynin through production of hydrogen peroxide and activation of SK and IK channels. Experimental Biology Conference, Boston, MA, 2013.
54. Durand M.J., **S.A. Phillips**, D.D. Gutterman. Plasticity in the microvasculature of conditioned weight lifters in response to acute high pressure stress. Experimental Biology Conference, Boston, MA, 2013.
55. Szczurek M., J.T. Bian, C. Ranieri, I. Grizelj, A. Cavka, A. Robinson, **S.A. Phillips**. Hypocaloric, but not Isocaloric, Low Fat Diets Improve in Microvascular Nitric Oxide Dependent Vasodilator Responses, *Circulation (Suppl 2)*. American Heart Association Scientific Sessions, Dallas, TX, 2013.
56. Robinson A., M. Szczurek, J.T. Bian, A. Cavka, I. Grizelj, and **S.A. Phillips**. Aerobic exercise training protects against impaired microvascular function following acute exertion by enhancing hydrogen peroxide-mediated dilation in overweight adults. Experimental Biology Conference. San Diego, CA, 2014.
57. Robinson A. T., E. Norkeviciute, J. Babana, and **S. A. Phillips**. Aerobic Exercise Training Reverses Reduced Endothelial Function after Acute Exertion in Overweight Adults. American College of Sports Medicine. Orlando, FL, 2014.
58. Bunsawat, K., Lan, A., Kappus, R., Ranadive, S., Yan, H., Wee, S.-O., Phillips, S., Baynard, T., Woods, J., & Motl, R. (2014). PO-02 EFFECTS OF ACUTE INDUCED INFLAMMATION ON PRESSURE WAVEFORMS: DOES AGE MATTER? *Artery Research*, 8(4), 166-167.
59. Ahn, S. J., Bian, J. T., Epshtein, Y., Schwab, S., Phillips, S., & Levitan, I. Role of Endothelial Kir in Flow-Induced Vasodilation via NO Production. *The FASEB Journal* 29, 845.813. 2015.

60. Andaku, D. K., Archiza, B., Caruso, F. C., Zangrando, K. T., Lanzotti, H., Amaral, A. C., Bonjorno Jr, J. C., de Oliveira, C. R., Phillips, S. A., & Arena, R. Post-exercise Flow-mediated Dilation is augmented in Highly Trained Female Athletes. *Circulation* 132(suppl_3), A16530-A16530. 2015.
61. Bunsawat, K., Kappus, R. M., Rosenberg, A. J., Shafer, B. M., Wee, S. O., Baynard, T., Brown, M. D., Haus, J. M., Phillips, S. A., & Fernhall, B. Autonomic Function during Exercise in Older Adults: The Influence of Antioxidant Supplementation: *Medicine & Science in Sports & Exercise*, 47(5S), 744. 2015.
62. Kappus, R., Shafer, B., Wee, S. O., Baynard, T., Haus, J., Phillips, S.A., Brown, M., & Fernhall, B. Racial Differences in Macrovascular and Microvascular Function Following Acute Antioxidant Supplementation. *The FASEB Journal* 29, 803.809. 2015.
63. Kappus, R. M., Bunsawat, K., Rosenberg, A. J., Baynard, T., Haus, J. M., Phillips, S., Brown, M. D., & Fernhall, B. (2015). The Effect Of Acute Antioxidant Supplementation On Vascular Dysfunction With Aging. *Medicine & Science in Sports & Exercise* 47(5S), 581.
64. Martyn-Nemeth, P., Quinn, L. T., Mihailescu, D., Ali, M., Norkeviciute, E., & Phillips, S. A. (2015). Poor Sleep Quality Is Associated with Endothelial Dysfunction in Young Adults with Type 1 Diabetes. *Diabetes*. 2015.
65. Rosenberg, A. J., Bunsawat, K., Kappus, R. M., Shafer, B., Wee, S. O., Baynard, T., Brown, M. D., Haus, J. M., Phillips, S. A., & Fernhall, B. Racial Differences In HRV In Response To An Acute Bout Of Forearm Exercise. *Medicine & Science in Sports & Exercise*, 47(5S), 161. 2015.
66. Varadarajan, S., Okur, N., O'Bryan, J., Minshall, R., Phillips, S., Ushio-Fukai, M., & Fukai, T. Novel Protective Mechanism of Cu Transporter ATP7A for Extracellular SOD Against Endothelial Dysfunction in Type2 Diabetes Vascular Complications. *Circulation* 132(suppl_3), A15814-A15814. 2015.
67. Mohamed A, M. Ali, **S. A. Phillips**. The Role of Epigenetic Mechanisms and Matrix Remodeling Enzymes in Oxidative Stress Induced Loss of the Microvascular Endothelial Glycocalyx. *FASEB J* 30. 1276.7. 2016.
68. Ali MM, Mahmoud AM, **Phillips SA**. The Role of Epigenetic Mechanisms and Matrix Remodeling Enzymes in Oxidative Stress Induced Loss of the Microvascular Endothelial Glycocalyx. *FASEB Journal* 30: 1276.7-1276.7. 2016.
69. Bian J-T, Mahmoud AM, Kotlo KU, Piano MR, **Phillips SA**. Increased Expression of Micro RNA-21 Contributes to Reduced Microvascular Function in Young Adult Regular Binge Drinkers. *Circulation*. 134(suppl_1):A15321-A15321. 2016.
70. Fancher IS, Ahn SJ, Bian JT, **Phillips SA**, Levitan I. A Diet High in Fat and Cholesterol Reduces Flow-induced Dilations of Small Visceral Arteries and Involves Kir Channel Impairment. *The FASEB Journal* 30:1b777-1b777. 2016.

71. Bunsawat K, Grigoriadis G, Wee SO, et al. No Evidence of Impaired Functional Sympatholysis in Young Obese Adults. *The FASEB Journal* 31: 836.24-836.24. 2017.
72. Fancher IS, Ahn SJ, Adamos C, et al. Hypercholesterolemia Induces Endothelial Dysfunction Through Impaired Kir2. 1 Channel Activity Upstream of NO Production. *The FASEB Journal* 31:1015.28-1015.28. 2017.
73. Ahn SJ, Fancher IS, Bian Jt, et al. Shear-stress sensitive endothelial K channels play major role in flow-induced vasodilation. *The FASEB Journal*. 31:1007.24-1007.24. 2017.
74. Agnoletto A, Heubel A, Kabbach E, et al. Arterial stiffness, hemodynamic and functional profile at exacerbation and recovery in COPD. *European Respiratory Society*; 2018.
75. Fancher IS, Adamos CS, Ahn SJ, Phillips SA, Levitan I. Endothelial dysfunction can be reversed in obese humans and mice by overexpression of endothelial Kir2. 1 channels. *The FASEB Journal* 32: 1b309-1b309. 2018.
76. Fancher IS, Ahn SJ, Adamos C, Phillips SA, Levitan I. Obesity Induces Endothelial Dysfunction in Arteries of Visceral Adipose Through Impairment of the Inwardly Rectifying K⁺ (Kir2. 1) Channel. *Circulation* 138(Suppl_1): A16458-A16458. 2018.
77. Fancher IS, Chignalia AZ, Isbatan A, Phillips SA, Dull RO, Levitan I. Shear-Induced Kir2. 1 Channel Activation is Mediated Through Interactions with Syndecan-1. *Circulation* 138(Suppl_1): A16551-A16551. 2018.
78. Hwang C-L, Ranieri C, Mahmoud AM, Phillips SA. Low-Carbohydrate Diet Does Not Improve Flow-Mediated Dilation In Obese Adults. *Circulation* 140(Suppl_1): A17096-A17096. 2019.
79. Hwang CL, Bian JT, Thur LA, Peters TA, Piano MR, Phillips SA. Binge but Not Moderate Drinking Impairs Microvascular Flow Induced Dilation Following High Pressure in Young Adults. *The FASEB Journal*. 33 (S1):696.12-696.12. 2019.
80. Back GD, Hwang C-L, Trimer R, Silva ALGd, Phillips S. RELAÇÃO ENTRE O CONSUMO DE ÁLCOOL E A QUALIDADE DO SONO COM O RISCO CARDIOVASCULAR EM JOVENS SAUDÁVEIS. *Seminário de Iniciação Científica* 14. 2019.
81. Fancher I, Phillips S, Levitan I. Comparative Effects of Obesity and Hypercholesterolemia on Endothelial Dysfunction in Arteries of Visceral Adipose Through Impairment of K⁺ Channels. *Arteriosclerosis, Thrombosis, and Vascular Biology* 39 (Suppl 1): A397-A397. 2019.
82. Fancher I, Phillips S, Levitan I. Comparative Effects of Obesity and Hypercholesterolemia on Endothelial Dysfunction in Arteries of Visceral Adipose Through Impairment of K⁺ Channels. *Arteriosclerosis, Thrombosis, and Vascular Biology* 39(Suppl_1): A397-A397. 2019.

83. Ali MM, Naquiallah D, Hassan C, et al. Obesity-associated Hypoxia Contributes to Aberrant Methylation of Genes Implicated in Inflammation and vascular Function. *The FASEB Journal* 34(S1): 1-1. 2020.
84. Bhatt T, Varas G, Subramaniam S, Delgado L, Phillips SA. Effect of Virtual Reality-Based Dance Training Paradigm on Cardiovascular Autonomic Modulation in Older Adults. APTA Annual Meeting; 2020.
85. Fancher I, Le Master E, Ahn SJ, Phillips SA, Levitan I. Endothelial Kir2 Channels are Impaired in Obesity Through Alterations in the Physical Properties of the Glycocalyx. *Arteriosclerosis, Thrombosis, and Vascular Biology* 40 (Suppl_1): A277-A277. 2020.
86. Goulart C, Caruso F, Garcia Araujo A, et al. Impact of Non-Invasive Ventilation Associated with High Intensity Exercise on Endothelial Function in Coexistent COPD+ HF Patients. *American Thoracic Society* A7533-A7533. 2020.
87. Gurovich AN, Brown MB, Phillips SA. From Bench Research to Cardiovascular Patient Management. APTA Annual Meeting 2020.
88. Ali MM, Hassan C, Masrur M, Bianco F, Phillips SA, Mahmoud AM. 245-LB: Aberrant DNA Methylation as a Contributor to Obesity-Associated Vascular Dysfunction. *Diabetes*. 2020;69(Supplement_1)
89. Hwang C-I, Rader MM, Thur LA, et al. Arterial Stiffness in Response to Eight Weeks of Exercise Training in African Americans versus Caucasians. *Circulation* 142(Suppl_3): A13873-A13873. 2020.
90. Ali MM, Hassan C, Masrur M, et al. DNA Methylation of Genes Involved in Inflammation Correlates With Cardiometabolic Function in Morbidly Obese Adults. *Circulation* 142(Suppl_3): A15715-A15715. 2020.
91. Ali M, Mirza I, Hassan C, et al. Alcohol Consumption and Cardiovascular Risk Factors in Morbidly Obese Individuals. *FASEB Journal* 35. 2021.
92. Hidde M, Beyer AM, Beyer KM, et al. Take charge during treatment: A planned exercise protocol to evaluate disparities and cardiovascular outcomes in Black and White patients with breast cancer undergoing treatment. *American Society of Clinical Oncology*; Annual Meeting. 2022.
93. Jackson R, Tawade S, Drab Y, et al. Blood Pressure and Arterial Stiffness after a Maximal Aerobic Exercise in Young Adult Binge Drinkers and Moderate Drinkers. *The FASEB Journal* 36. 2022.
94. Laddu D, LaMonte M, Haring B, et al. Abstract P081: Rethinking The Association Of Physical Performance With Blood Pressure Changes In Older Women: Findings Form The Women’S Health Initiative. *Circulation* 145(Suppl_1): AP081-AP081. 2022.

95. Laddu D, LaMonte M, Haring B, et al. Rethinking The Association Of Physical Performance With Blood Pressure Changes In Older Women: Findings Form The Women'S Health Initiative. 2022:
96. Ahn SJ, Fancher IS, Phillips SA, Levitan I. Endothelial inwardly rectifying potassium channels regulates receptor-mediated vasodilation via PI3K/Akt/eNOS signal pathway. *The FASEB Journal* 36. 2022.
97. G Grigoriadis, SR Sherman, BA Hibner, EC Lefferts, NS Lima, SA Phillips, Fernhall B, T Baynard. High-fit Breast Cancer Survivors Have Greater Cardiac And Pulmonary Function Compared To Low-fit: 45. *Medicine & Science in Sports & Exercise* 54 (9S), 1-2. 2022.
98. CM Pusec, Hibner BA, Drab Y, Piano MR, Phillips SA , CL Hwang, Effect of Repeated Binge Drinking in Mid-Life Adults on Vascular Function. *Circulation* 146 (Suppl_1), A12217. 2022.
99. UG Bronas, N Tintle, A Luong, Y Drab, D Naquiallah, M Borhani, SA Phillips. Sex Differences in Leg Microvascular Arteriolar Function in Patients With Limb Ischemia. *Circulation* 146 (Suppl_1): A15676. 2022.
100. Do Couto, SJ Ahn, I Fancher, SA Phillips, I Levitan. Microvascular Endothelial Kir2. 1 Channels Play Important Role in Flow-Induced Dilation During Hypertension in Humans. *Circulation* 146 (Suppl_1), A15824-A15824.

D. Press and Media Outlet

Article: Goslawski M., JT. Bian, M. Szcurek, M. Piano, **SA. Phillips.** Binge Drinking Impairs Vascular Function in Young Adults. *J Am Coll Cardiol* 62: 201-207. 2013.

1. Cardio Source (American College of Cardiology
 - a. <http://www.cardiosource.org/News-Media/Publications/Cardiology-Magazine/2013/04/Binge-Drinking-Found-to-Impair-Vascular-Function-in-Healthy-Young-Adults.aspx>
2. Los Angeles Times ScienceNow blog (and the Chicago Tribune)
 - a. http://www.cbsnews.com/8301-204_162-57581413/binge-drinking-in-college-may-lead-to-heart-problems-later-in-life
3. U.S. News and World Report
 - a. <http://health.usnews.com/health-news/news/articles/2013/04/23/even-in-young-adults-binge-drinking-may-harm-circulation>
4. CBS.com and Healthday are below:
 - a. <http://www.latimes.com/news/science/sciencenow/la-sci-sn-binge-drinking-heart-disease-20130423,0,1257527.story>
5. U.S. Department of Health and Human Services- health beat
 - a. http://www.upi.com/Health_News/2013/08/15/Young-binge-drinkers-may-be-on-the-road-to-heart-disease/UPI-81141376596930/
6. Medical News Today
 - a. http://www.medicalnewstoday.com/articles/259560.php?utm_medium=referral&utm_source=pulsenews

7. Daily Mail Online

- a. <http://www.dailymail.co.uk/health/article-2314069/Binge-drinking-20s-triggers-beginnings-heart-disease.html>

8. UPI

- a. http://www.upi.com/Health_News/2013/08/15/Young-binge-drinkers-may-be-on-the-road-to-heart-disease/UPI-81141376596930/

Article: Franklin N.C., M. Ali, A. Robinson, E. Norkeviciute **S.A. Phillips.** Massage Therapy Restores Peripheral Vascular Function following Exertion. *Arch. Phys. Med. Rehab* 95: 1127-34. 2014.

1. Health Day

- a. http://www.philly.com/philly/health/topics/HealthDay686922_20140421_Massage_May_Improve_Blood_Flow_While_Easing_Muscle_Soreness_Study.html

2. Zee News

- a. http://zeenews.india.com/news/health/fitness/why-massage-eases-muscle-soreness-post-workouts_27650.html

3. Free Press Journal

- a. <http://freepressjournal.in/embrace-daily-massage-to-improve-your-health/>

4. Science Daily

- a. <http://www.sciencedaily.com/releases/2014/04/140416125434.htm>

5. World Health Net

- a. <http://www.worldhealth.net/news/multiple-benefits-massage/>

University and College

http://www.youtube.com/watch?feature=player_embedded&v=eRkZBIotIwQ

Editorial

Pod Cast @ <http://ajpheart.podbean.com>

Content Expert on American Journal of Physiology article, “Habitual exercise decreases systolic blood pressure during low-intensity resistance exercise in healthy middle-aged and older individuals”