

Gary L. Pierce, PhD, FAHA, FAPS
Professor and Department Executive Officer (DEO)/Chair
Russell B. Day and Florence D. Day Endowed Chair in Liberal Arts & Sciences
Department of Health and Human Physiology
College of Liberal Arts and Sciences
The University of Iowa
Curriculum Vitae as of Jan. 1, 2024

CONTACT INFORMATION

Campus Address: The University Iowa
225 S. Grande Ave, E102A FH, Iowa City, IA 52242
Office: (319) 335-9487
Email: gary-pierce@uiowa.edu

EDUCATION AND PROFESSIONAL HISTORY

Post Graduate Education

2005 - 2009 Postdoctoral Research Fellow, Human Vascular Aging/Physiology
Department of Integrative Physiology, University of Colorado Boulder, Boulder, CO
Mentor: Douglas R. Seals, PhD

Higher Education

2005 **Ph.D., Applied Physiology & Kinesiology** (Concentration: Cardiovascular
Exercise Physiology), University of Florida, Gainesville, FL

1997 **M.S., Clinical Exercise Physiology**, Northeastern University, Boston, MA

1994 **B.S., Biology**, Worcester State University, Worcester, MA

Professional and Academic Positions

2022- present **Chair and Department Executive Officer (DEO)**, Department of Health and
Human Physiology, University of Iowa

2021- present **Professor**, Department of Health and Human Physiology, University of Iowa

2020- present **Professor** (secondary appt), Department of Internal Medicine, Division of
Nephrology and Hypertension, University of Iowa Carver College of Medicine

2015 - 2018 **Director of Departmental Undergraduate Honors in the Major**, Department of
Health and Human Physiology, University of Iowa

2014 - Present **Associate Member**, Environmental Health Sciences Research Center, College of
Public Health, University of Iowa

2012 - Present **Faculty Member**, Fraternal Order of Eagles Diabetes Research Center, Carver
College of Medicine, University of Iowa

2017 - 2021 **Associate Professor (with tenure)**, Department of Health and Human Physiology,
University of Iowa

2011 - 2017 **Assistant Professor**, Department of Health and Human Physiology, University of
Iowa

2011 - 2013 **NIH KL2 Scholar**, Institute for Clinical and Translational Science, University of Iowa

2009 - 2011 **Assistant Professor**, Department of Pediatrics, Georgia Prevention Institute,
College of Medicine, Medical College of Georgia (current name Augusta University)

2005 - 2009 **Postdoctoral Research Associate**, Department of Integrative Physiology,
University of Colorado at Boulder

2003 - 2005 **American Heart Association Predoctoral Research Fellow**, Department of
Applied Physiology and Kinesiology, University of Florida

2002 - 2005 **Adjunct Instructor**, Department of Applied Physiology and Kinesiology, University
of Florida

Summer 2002 **Adjunct Instructor**, Department of Allied Health Sciences, Santa Fe Community

	College
2001 - 2002	Graduate Teaching Assistant , Department of Applied Physiology and Kinesiology, University of Florida
Fall 2000	Adjunct Lab Instructor , Department of Health Sciences, Sargent College of Health Sciences, Boston University
1999 - 2001	Adjunct Instructor , Dept of Exercise Physiology, Lasell College, Newton, MA
1997 - 2001	Supervising Clinical Exercise Physiologist , Exercise Testing Laboratory, Division of Cardiovascular Medicine, Brigham and Women's Hospital, Boston, MA
1995 - 1999	Exercise Physiologist (part-time) , Fitcorp Healthcare Centers, Boston, MA
1996 - 1997	Graduate Teaching Assistant , Department of Health, Recreation and Leisure Studies, Northeastern University

Licensures and Certifications

1997- present	Certified Clinical Exercise Physiologist® , American College of Sports Medicine
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Honors and Awards

2023	Fellow , American Physiological Society (FAPS)
2022- present	Russell B. Day and Florence D. Day Endowed Chair in Liberal Arts & Sciences , College of Liberal Arts & Sciences, University of Iowa
2016	Fellow , American Heart Association (FAHA), Council on Hypertension
2015 - 2019	Strategically Focused Hypertension Research Network Grant , American Heart Association
2013 - 2017	Scientist Development Grant Award , American Heart Association National Center
2015 - 2017	Career Development Research Award , Environmental Health Sciences Research Center, College of Public Health, University of Iowa
2016	Research Leadership Academy (invited) , American Heart Association
2011 - 2013	KL2 Career Development Award, Institute for Clinical and Translational Science , University of Iowa
2009	Environmental and Exercise Physiology Section Beginning Investigator Recognition Award , American Physiological Society
2009	Research Career Enhancement Award , American Physiological Society
2008	Cardiovascular Section Young Investigator Research Recognition Award , American Physiological Society
2006 - 2008	Clinical Research Loan Repayment Program Award , National Institutes of Health
2007	Summer Institute on Aging Research , National Institute on Aging, National Institutes of Health (1 week)
2005 - 2007	NIH T32 Postdoctoral Research Fellowship , Division of Geriatric Medicine, University of Colorado Health Sciences Ctr, Denver
2003 - 2005	Predoctoral Research Fellowship , American Heart Assoc Florida/Puerto Rico Affiliate
2001 - 2002	J. Edmonds Predoctoral Fellowship , College of Health and Human Performance, University of Florida
1992	Beta Beta Beta Biology Honor Society , Chi Iota Chapter, Worcester State University

Memberships

2022 - Present	Association of Chairs of Departments of Physiology (ACDP)
2017 - Present	American College of Sports Medicine (ACSM)
2010 - Present	North American Artery Society (NAA) (Treasurer)
2004 - Present	American Physiological Society (APS)
2003 - Present	American Heart Association (AHA)
1997 - 2012	American College Sports Medicine (ACSM)

TEACHING

Courses Taught at the University of Iowa (*indicates graduate course)

Term	Course#	Title	Final Enrollment
Fall 2023	HHP:6400:0001	*Integrative Physiology Seminar	16
Fall 2023	HHP:6460:0A01	*Advanced Cardiovascular Physiology	9
Fall 2023	HHP:5935	*Clinical Exercise Physiology Internship	1
Spring 2023	HHP:5935	*Clinical Exercise Physiology Internship	2
Spring 2023	HONR:4990	Honors Thesis	1
Spring 2023	HHP:6150:0AAA	*Advanced Clinical Exercise Physiology	7
Fall 2022	HHP:5935	*Clinical Exercise Physiology Internship	1
Fall 2022	HHP:6410:0001	*Advanced Exercise Physiology	9
Fall 2022	HHP:6460:0A01	*Advanced Cardiovascular Physiology	6
Spring 2022	HHP:4150:0002	Clinical Exercise Physiology	33
Spring 2022	HHP:6150:0AAA	*Advanced Clinical Exercise Physiology	5
Spring 2022	HHP:4935:9375	*Clinical Exercise Physiology Internship	2
Fall 2021	HHP:6460:0A01	*Advanced Cardiovascular Physiology	5
Fall 2021	HHP:4460:0A01	Cardiovascular Physiology	15
Fall 2021	HHP:4410:0001	Exercise Physiology	38
Fall 2021	HHP:4935:9375	*Clinical Exercise Physiology Internship	2
Spring 2021	HHP:6150:0AAA	*Advanced Clinical Exercise Physiology	5
Spring 2021	HHP:4150:0002	Clinical Exercise Physiology	20
Spring 2021	HHP:4935:1398	*Clinical Exercise Physiology Internship	3
Fall 2020	HHP:6460:0A01	Advanced Cardiovascular Physiology	10
Fall 2020	HHP:6410:0001	*Advanced Exercise Physiology	7
Fall 2020	HHP:4460:0001	Cardiovascular Physiology	20
Fall 2020	HHP:4935:9375	*Clinical Exercise Physiology Internship	4
Fall 2020	HHP:4410:0001	Exercise Physiology	42
Fall 2020	HHP:6400:0001	*Integrative Physiology Seminar	9

Term	Course#	Title	Final Enrollment
Spring 2020	HHP:6150:0AAA	*Advanced Clinical Exercise Physiology	7
Spring 2020	HHP:4150:0002	Clinical Exercise Physiology	13
Spring 2020	HHP:4935:8042	*Clinical Exercise Physiology Internship	1
Spring 2020	HHP:4900:0001	Honors Research II	7
Fall 2019	HHP:6460:0AAA	*Advanced Cardiovascular Physiology	6
Fall 2019	HHP:6410:0001	*Advanced Exercise Physiology	9
Fall 2019	HHP:4460:0001	Cardiovascular Physiology	27
Fall 2019	HHP:4410:0001	Exercise Physiology	39
Fall 2019	HHP:6400:0001	*Integrative Physiology Seminar	3
Summer 2019	HHP:4935:5690	*Clinical Exercise Physiology Internship	2
Spring 2019	HHP:6150:0AAA	*Advanced Clinical Exercise Physiology	4
Spring 2019	HHP:4150:0002	Clinical Exercise Physiology	24
Spring 2019	HHP:4935:2949	*Clinical Exercise Physiology Internship	5
Spring 2019	HHP:4800:0101	Honors Research I	2
Spring 2019	HHP:4900:0001	Honors Research II	15
Spring 2019	HHP:6400:0001	*Integrative Physiology Seminar	4
Fall 2018	HHP:6460:0AAA	*Advanced Cardiovascular Physiology	5
Fall 2018	HHP:6410:0001	*Advanced Exercise Physiology	3
Fall 2018	HHP:4460:0001	Cardiovascular Physiology	34
Fall 2018	HHP:4935:1910	*Clinical Exercise Physiology Internship	3
Fall 2018	HHP:4410:0001	Exercise Physiology	39
Fall 2018	HHP:4800:0001	Honors Research I	14
Fall 2018	HHP:4900:0001	Honors Research II	3
Fall 2018	HHP:6400:0001	*Integrative Physiology Seminar	8
Summer 2018	HHP:4935:1573	*Clinical Exercise Physiology Internship	1
Spring 2018	HHP:6150:0AAA	*Advanced Clinical Exercise Physiology	8

Term	Course#	Title	Final Enrollment
Spring 2018	HHP:4150:0001	Clinical Exercise Physiology	39
Spring 2018	HHP:6100:0001	*Health and Human Physiology Seminar	13
Spring 2018	HHP:4800:0101	Honors Research I	2
Spring 2018	HHP:4900:0001	Honors Research II	16
Spring 2018	HHP:6400:0001	*Integrative Physiology Seminar	5
Fall 2017	HHP:6410:0001	*Advanced Exercise Physiology	7
Fall 2017	HHP:4935:6146	*Clinical Exercise Physiology Internship	2
Fall 2017	HHP:4410:0001	Exercise Physiology	34
Fall 2017	HHP:6100:0001	*Health and Human Physiology Seminar	12
Fall 2017	HHP:4800:0001	Honors Research I	20
Fall 2017	HHP:4900:0001	Honors Research II	2
Fall 2017	HHP:6400:0001	*Integrative Physiology Seminar	1
Summer 2017	HHP:4935:7097	*Clinical Exercise Physiology Internship	1
Spring 2017	HHP:6150:0AAA	*Advanced Clinical Exercise Physiology	3
Spring 2017	HHP:4150:0001	Clinical Exercise Physiology	6
Spring 2017	HHP:4935:3919	*Clinical Exercise Physiology Internship	1
Spring 2017	HHP:6100:0001	*Health and Human Physiology Seminar	12
Spring 2017	HHP:4800:0101	Honors Research I	1
Spring 2017	HHP:4900:0001	Honors Research II	11
Spring 2017	HHP:6400:0001	*Integrative Physiology Seminar	3
Fall 2016	HHP:6410:0001	*Advanced Exercise Physiology	6
Fall 2016	HHP:4935:2585	*Clinical Exercise Physiology Internship	1
Fall 2016	HHP:4410:0001	Exercise Physiology	40
Fall 2016	HHP:4900:0001	Honors Research II	3
Fall 2016	HHP:6400:0001	*Integrative Physiology Seminar	6
Summer 2016	HHP:4935:2073	*Clinical Exercise Physiology Internship	1

Term	Course#	Title	Final Enrollment
Spring 2016	HHP:6150:0AAA	*Advanced Clinical Exercise Physiology	9
Spring 2016	HHP:4150:0001	Clinical Exercise Physiology	14
Spring 2016	HHP:4935:0035	*Clinical Exercise Physiology Internship	3
Fall 2015	HHP:6410:0001	Advanced Exercise Physiology	9
Fall 2015	HHP:4935:0035	*Clinical Exercise Physiology Internship	3
Fall 2015	HHP:4410:0001	Exercise Physiology	84
Fall 2015	HHP:6400:0001	*Integrative Physiology Seminar	11
Fall 2015	HHP:4500:0035	Undergraduate Independent Study	2
Spring 2015	HHP:6150:0100	*Advanced Clinical Exercise Physiology	5
Spring 2015	HHP:4150:0100	Clinical Exercise Physiology	25
Spring 2015	HHP:4935:0035	*Clinical Exercise Physiology Internship	3
Spring 2015	HHP:6400:0100	*Integrative Physiology Seminar	3
Fall 2014	HHP:6410:0001	*Advanced Exercise Physiology	6
Fall 2014	HHP:4935:0035	*Clinical Exercise Physiology Internship	2
Fall 2014	HHP:4410:0001	Exercise Physiology	82
Fall 2014	HHP:6400:0001	*Integrative Physiology Seminar	12
Summer 2014	027:193:035	Clinical Exercise Physiology Internship	1
Spring 2014	027:250:SCB	*Advanced Clinical Exercise Physiology	8
Spring 2014	027:150:SCA	Clinical Exercise Physiology	15
Spring 2014	027:193:035	*Clinical Exercise Physiology Internship	1
Spring 2014	027:241:001	*Integrative Physiology Seminar	3
Spring 2014	027:195:035	Undergraduate Independent Study	5
Fall 2013	027:240:001	*Advanced Exercise Physiology	5
Fall 2013	027:141:001	Exercise Physiology	96
Fall 2013	027:241:SCA	*Integrative Physiology Seminar	5
Fall 2013	027:195:035	Undergraduate Independent Study	5

Term	Course#	Title	Final Enrollment
Spring 2013	027:250:SCB	*Advanced Clinical Exercise Physiology	9
Spring 2013	027:150:SCA	Clinical Exercise Physiology	30
Fall 2012	027:141:001	Exercise Physiology	120
Fall 2011	027:141:001	Exercise Physiology	119

Additional Courses Taught (Carver College of Medicine)

Term	Course#	Title	Final Enrollment
November 2023	MED:8124:	Mechanisms of Health and Disease 1(MOHD1): delivered 1 didactic lecture (50 min)	160
November 2022	MED:8124:	Mechanisms of Health and Disease 1(MOHD1): delivered 1 didactic lecture (50 min)	160
November 2021	MED:8124:	Mechanisms of Health and Disease 1(MOHD1): delivered 1 didactic lecture (50 min)	160
November 2021	MED:8124:	Mechanisms of Health and Disease 1(MOHD1): delivered 1 didactic lecture (50 min)	160
November 2020	MED:8124:	Mechanisms of Health and Disease 1(MOHD1): delivered 1 didactic lecture (50 min)- virtual	160
November 2019	MED:8124:	Mechanisms of Health and Disease 1(MOHD1): delivered 1 didactic lecture (50 min) and 1 exercise test demo (50 min)	160
November 2018	MED:8124:	Mechanisms of Health and Disease 1(MOHD1): Gave 1 lecture and lead 1 Discussion module	160
November 2017	MED:8124:	Mechanisms of Health and Disease 1(MOHD1): Gave 1 lecture and lead 1 Discussion module	160

Innovations in Teaching (Other Teaching Contributions)

Design and Implementation of New Courses

Jan 2013 - Present

- Created new course HHP:4150 Clinical Exercise Physiology as an upper level elective for undergraduate students in the BS Human Physiology track;
- Created new course HHP:6150 Adv. Clinical Exercise Physiology for the new non-thesis MS graduate program in Clinical Exercise Physiology.

- 2013 - 2016 Established Internship external sites for HHP:4935 Clinical Exercise Physiology Internship:
- 2016: Exercise Testing and EKG Holter Monitoring Lab, Division of Pediatric Cardiology, University of Iowa Hospitals and Clinics (UIHC)
 - 2015: Outpatient Cardiac and Pulmonary Rehabilitation, St' Luke's Hospital at Unity Point, Cedar Rapids, IA
 - 2014: Inpatient Cardiac Rehabilitation and Diagnostic Exercise Testing, Heart and Vascular Center, UIHC, Iowa City, IA
 - 2013: CHAMPS Outpatient Cardiac Rehab, Heart and Vascular Center, UIHC, Iowa City, IA
 - 2013: Outpatient Cardiac Rehabilitation Program, Mercy Hospital, Iowa City
 - 2013: Pulmonary Rehabilitation Program, Division of Rehabilitation Services, UIHC, Iowa City, IA
- 2013 - 2014 Developed Clinical Exercise Physiology Internship agreements with University of Iowa Department of Risk Management, Insurance and Loss Prevention
- Jan - Dec 2012 Faculty Facilitator, 650:270/604 Principles of Scholarly Integrity, Graduate School

Student Mentoring

BS - Directed Individual/Independent Study, Supervisor

- | | |
|------------------|---|
| Sept 2022-2023 | Thenuwara, Samalya; <i>Completed</i> |
| May 2022-2023 | Ernst, Jackson; <i>Completed</i> |
| Jan-May 2020 | Foster, Grace; <i>Completed</i> |
| Jan-May 2020 | Gruber, Kelsey; <i>Completed</i> |
| Jan-May 2020 | Huesner, Jared; <i>Completed</i> |
| Jan-May 2020 | Long, Mikalya; <i>Completed</i> |
| Fall-Spring 2019 | Martin, Ben; <i>Completed</i> |
| Spring 2016 | Lentner, Jacob; <i>Completed</i> |
| Fall 2015 | Adebiyi, Mayowa; <i>Completed</i> |
| Spring 2014 | Klosak, Randy; <i>Completed</i> |
| Spring 2014 | Myers, Janie; <i>Completed</i> |
| Fall 2013 | Myers, Janie; <i>Completed</i> , HHP senior, BS Human Phys |
| Spring 2013 | Delillo, Emily; <i>Completed</i> |
| Spring 2013 | Radolsky, Richard; <i>Completed</i> |
| 2011 - 2012 | Guintier, Mark; <i>Completed</i> , BS Human Phys 2012; PhD student, Univ of S. Carolina |

BS - Research Assistant/Intern, Supervisor (full-time paid)

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|------------|-------------------------------------|
| 2022- 2023 | Bos, Kyle; <i>Completed</i> |
| 2021- 2022 | Guerrero, Mariah; <i>Completed</i> |
| 2018- 2019 | Ward, Ryan; <i>Completed</i> |
| 2017- 2018 | Gremaud, Allene; <i>Completed</i> |
| 2016- 2017 | Fitzsimmons, Adam; <i>Completed</i> |
| 2016- 2019 | O'Deen, Allison; <i>Completed</i> |

2016- 2017 Wooldridge, BS, Nealy; *Completed*
 2015- 2017 Myers, Janie; *Completed*
 2015- 2017 Jensen, Nicholas; *Completed*
 2014- 2015 Dubishar, Kaitlyn; *Completed*
 2014- 2015 Myers, Janie; *Completed*
 2013- 2014 Wehrle, Andrea; *Completed*

BS - Supervised Undergraduate Research, Fellowship Funded, Primary Mentor

May 2022 - Aug 2023 Ernst, Jackson; [Iowa Center for Undergraduate Research (ICRU) Summer Research Fellowship; 2023 APS Horowitz and Horwitz Undergraduate Research Poster Award], *Completed*
 May 2021 - Aug 2021 Gruber, Kelsey; [Iowa Center for Undergraduate Research (ICRU) Summer Research Fellowship]; *Completed*
 May 2020 - Aug 2020 Foster, Grace; ([Iowa Center for Research by Undergraduates (ICRU) Summer Fellowship]; *Completed*
 May 2019 - Aug 2019 Martin, Ben [Iowa Center for Research by Undergraduates (ICRU) Fellowship]; *Completed*
 May 2017 - Aug 2017 Majee, Rumbi (American Physiological Society STRIDE Summer Research Fellowship); *Completed*
 May 2015 - Aug 2015 Rasor, Madalyn (American Physiological Society STRIDE Summer Research Fellowship); *Completed*

BS - Undergraduate Honors Research Thesis, Primary Mentor

August 2022-May 2023 Staub, Ryan; *Completed*
 August 2021-May 2022 Gruber, Kelsey; *Completed*
 August 2019 - May 2020 Martin, Ben; *Completed*
 Fall 2017 - Spring 2018 Majee, Rumbi; *Completed*
 Fall 2017 - Spring 2018 Reiersen, Leah; *Completed*
 Spring 2017 - Fall 2017 Rader, Melissa; *Completed*
 August 2015 - May 2016 Rasor, Madalyn [Iowa Center for Research by Undergraduates (ICRU) Fellowship]; *Completed*
 August 2015 - May 2016 Stecklein, Taylor; *Completed*
 August 2013 - May 2015 Younatham, Ramsan; *Completed*
 August 2013 - May 2014 Tank, Ericka; *Completed*

MD – Medical Student Supervised Research, Primary Mentor

May 2019 - August 2019 Ward, Ryan (PreM1 Carver College of Medicine, Medical Student Summer Research Fellowship); *Completed*
 May 2018 - August 2018 Wooldridge, Nealy (M1 Carver College of Medicine, Medical Student Summer Research Fellowship); *Completed*
 May 2016 - Parker, Nicolas (M1 Carver College of Medicine Medical

August 2016	Student Summer Research Fellowship); <i>Completed</i>
May 2015 - August 2015	Tank, Ericka (M1 Carver College of Medicine, Medical Student Summer Research Fellowship); <i>Completed</i>
May 2014 - August 2014	Tank, Ericka (awarded Iowa Center for Research by Undergraduates Fellowship, ICRU); <i>Completed</i>

MS – Non-Thesis Final Exam Committee, Clinical Exercise Physiology, Chair

Dec 2023	Brookhart, Brian, <i>Completed</i>
May 2023	Fathi, Somayeh, <i>Completed</i>
Dec 2022	Snytsheuvel, Ryan; <i>Completed</i>
May 2022	Hocker, Alex; <i>Completed</i>
May 2021	Aramamudhan, Vikraman; <i>Completed</i>
May 2021	Guerrero, Mariah; <i>Completed</i>
May 2021	Lewis, Bailey; <i>Completed</i>
May 2021	Miller, Jack; <i>Completed</i>
May 2021	Nugent, Kayla; <i>Completed</i>
May 2020	Mathre, Erik; <i>Completed</i>
May 2020	Welch, Alexa; <i>Completed</i>
April 2019	Damon, Lucienne; <i>Completed</i>
May 2019	Perla, Anthonie; <i>Completed</i>
May 2019	Petersen, Courtney; <i>Completed</i>
May 2019	Schneider, Kayla; <i>Completed</i>
May 2019	Taylor, Stephen; <i>Completed</i>
May 2017	Crosser, Jordan; <i>Completed</i>
May 2017	O'Deen, Allison; <i>Completed</i>
April 2017	Vernon, Charles; <i>Completed</i>
April 2016	Aldridge, Anna; <i>Completed</i>
April 2016	Micho, Jared; <i>Completed</i>
April 2016	Pavic, Milosch; <i>Completed</i>
April 2016	Reist, Lauren; <i>Completed</i>

MS – Non-Thesis Final Exam Committee, Clinical Exercise Physiology, Member

April 2015	(Greenwalt) Driscoll, Eva; <i>Completed</i>
April 2015	Carano, Anna; <i>Completed</i>
April 2015	Morano, Theresa; <i>Completed</i>
April 2015	Segre, Elena; <i>Completed</i>
April 2014	Dubishar, Kaitlyn; <i>Completed</i>

MS -Clinical Exercise Physiology Internship, Primary Advisor

Jan – May 2023	Brookhart, Brian, <i>Completed</i>
Aug-Dec 2022	Fathi, Somayeh, <i>Completed</i>

Jan- May 2022	Hockner, Alex; <i>Completed</i>
Jan – May 2022	Snytsheugel, Ryan; <i>Completed</i>
Aug – Dec 2021	Aravamudhan, Vikraman; <i>Completed</i>
Jan- May 2021	Guerrero, Mariah; <i>Completed</i>
Jan-May 2021	Lewis, Bailey; <i>Completed</i>
Jan-May 2021	Miller, Jack; <i>Completed</i>
Jan-May 2021	Nugent, Kayla; <i>Completed</i>
Summer 2019	Mathre, Erik; <i>Completed</i>
Jan - May 2019	Welch, Alexa; <i>Completed</i>
Aug 2016 - May 2017	Vernon, Charles; <i>Completed</i>
May 2016 - Aug 2016	O'Deen, Allison; <i>Completed</i>
Jan 2016 - May 2016	Micho, Jared; <i>Completed</i>
Jan 2016 - May 2016	Pavic, Milosch; <i>Completed</i>
Aug 2015 - May 2016	Reist, Lauren; <i>Completed</i>
Aug 2014 - Dec 2015	(Greenwalt) Driscoll, Eva; <i>Completed</i>
Jan 2015 - May 2015	Morano, Theresa; <i>Completed</i>
Jan 2015 - May 2015	Segre, Elena; <i>Completed</i>
Aug 2014 - May 2015	Carano, Anna; <i>Completed</i>
Spring 2014	Dubishar, Kaitlyn; <i>Completed</i>

MS - Master's Thesis Committee, Chair

Fall 2021-Spring 2023	Somers, Emma; <i>Completed</i>
Fall 2019 - Spring 2021	Shatalova, Violetta; <i>Completed</i>
Aug 2017 - May 2019	Nuckols, Virginia; <i>Completed</i>
Aug 2015 - Spring 2017	Schneider, Aaron; <i>Completed</i>
Aug 2014 - May 2016	Ajibewa, Tiwaloluwa; <i>Completed</i>
Fall 2013 - Spring 2015	DuBose, Lyndsey; <i>Completed</i>
Jan 2012 - Summer 2014	Harris, Stephen; <i>Completed</i>
Fall 2012 - Spring 2014	Siefers, Kyle; <i>Completed</i>

MS - Master's Thesis Committee, Member

Fall 2022 - Spring 2023	Halstead, Kristen; <i>Completed</i>
Fall 2019 - Spring 2021	Dziewior, Jaclyn; <i>Completed</i>
Fall 2017 - Spring 2019	Barnard, Christopher; <i>Completed</i>
Fall 2017 - Spring 2018	Hoover, Mike; <i>Completed</i>
Fall 2012 - Spring 2014	Ferrante, Kim; <i>Completed</i>

PhD - Comprehensive Exam, Member

Spring 2023	Schwartz, Kelsey; <i>Completed</i>
Spring 2023	Dziewior, Jaclyn; <i>Completed</i>
Fall 2021	Hanson, Brady; <i>Completed</i>

Fall 2021	Banks, Nile; <i>Completed</i>
Fall 2021	Rogers, Emily; <i>Completed</i>
Fall 2019	Harris, Matthew; <i>Completed</i>
Spring 2016	Hughes, William; <i>Completed</i>
Spring 2015	Francis, Shelby; <i>Completed</i>
Spring 2015	Metcalf, Kristen; <i>Completed</i>
Spring 2015	Santillan, MD, Mark; <i>Completed</i>
Spring 2012	Ebnet, Tom; <i>Failed</i>

PhD - Dissertation Committee, Chair

Aug 2023-present	Somers, Emma; <i>In Process</i>
Aug 2022- present	Davis, Kristen; <i>In Process</i>
Aug 2020- present	Gimblet, Colin; <i>In Process</i>
Aug 2021- May 2023	Khataei, Tahsin, <i>Completed</i> . (Co-chair): <u>Current position</u> : Postdoctoral Research Fellow, Dept of Anesthesiology and Division of Geriatrics, University of Utah
Aug 2019- May 2023	Nuckols, Virginia; <i>Completed</i> . <u>Current position</u> : Postdoctoral Research Fellow, Dept of Kinesiology and Applied Physiology, University of Delaware
Dec 2016 - May 2020	Luehrs, Rachel; <i>Completed</i> . <u>Current position</u> : Assistant Professor, Dept of Exercise Science, North Central College, Naperville, IL
Aug 2015- Dec 2019	Dubose, Lyndsey; <i>Completed</i> . <u>Current position</u> : Assistant Professor, Dept of Medicine, Division of Geriatric Medicine, University of Colorado Anschutz Medical Campus, Denver, CO

PhD - Dissertation Committee, Member

2022-present	Schwartz, Kelsey; <i>In Process</i>
2022-present	Dziewior, Jaclyn; <i>In Process</i>
2021-2023	Hanson, Brady; <i>Completed</i>
2021-2023	Banks, Nile; <i>Completed</i>
2021-2023	Rogers, Emily; <i>Completed</i>
2019 - 2021	Harris, Matthew; <i>Completed</i>
2019 - 2021	Oh, Minsuk; <i>Completed</i>
2016 - 2019	Benzo, Roberto; <i>Completed</i>
2016 - 2018	Metcalf, Kristen; <i>Completed</i>
2016 - 2018	Hughes, William; <i>Completed</i>
2015 - 2017	Francis, Shelby; <i>Completed</i>
2014 - 2016	Santillan, Mark; <i>Completed</i>
2011 - 2012	Rarick, Kevin; <i>Completed</i>

PhD – PhD Postdoctoral Research, Primary Mentor

March 2021-present	Armstrong, Matthew; <i>In Process</i>
April 2020 - Sept 2021	Roy, Stephen; <i>Completed</i> . <u>Current position</u> : Postdoctoral Research Associate, University of Southern Illinois School of Medicine
Oct 2015 - Mar 2020	Holwerda, Seth; <i>Completed</i> . <u>Current position</u> : Assistant Professor, Dept of Anesthesiology, University of Kansas Medical Center
Aug 2013 - Aug 2015	Lane, Abbi; <i>Completed</i> . <u>Current position</u> : Assistant Professor, School of Kinesiology, University of Michigan
Dec 2013 - July 2015	Kalil, Graziela; <i>Completed</i> . <u>Current position</u> : Assistant Professor, Dept of Internal Medicine, University of Maryland

Research Staff Supervision (full-time), Staff Research Associate

April 2015 - Present	Stroud, MSN, RN, Amy; <i>In Process</i>
June 2012 - 2018	Points, PhD, Lauren; <i>Completed</i> ; <u>Current position</u> : Assistant Professor of Biology, Simpson College (IA)

MD- Supervised Research- Medical Resident or MD Fellow, Primary Mentor or Co-Mentor

2018 - 2020	Holland, Marshall (Neurosurgery); <i>Completed</i> . <u>Current position</u> : Assistant Professor of Neurosurgery, Univ of Alabama at Birmingham
2016 - 2017	Betz, Alexandria (OB/Gyn Maternal-Fetal Medicine); <i>Completed</i> . <u>Current</u> : Maternal-Fetal Medicine Physician, Maine Health, Portland, ME
2010 - 2011	DiPietro, Amy (Ped Cardiology); <i>Completed</i> . <u>Current position</u> : Pediatric Cardiologist, St. Christopher's Hospital for Children, Philadelphia

SCHOLARSHIP

Publications

CLAS * System * = Senior Author, Major Contribution, ** = Secondary Contribution, *** = Equal Contribution, **** = Minor Contribution

Refereed Articles

1. * Gimblet CJ, Ernst JW, Bos KD, Stroud AK, Donato AJ, Pierce GL (2023). Effect of acute heparin administration on glycocalyx thickness and endothelial function in healthy younger adults. *J Appl Physiol*. Dec 21 doi: 10.1152/jappphysiol.00767.2023. Online ahead of print.
2. ** Gumusoglu S, Meincke CR, Kiel M, Betz A, Nuckols V, DuBose L, Steidele J, Sweezer E, Santillan D, Stroud AK, Pierce GL, Santillan MK (2023). Low indoleamine 2, 3 dioxygenase (IDO) activity is associated with psycho-obstetric risk. *Pregnancy Hypertens*. Dec 7;35:12-18. doi: 10.1016/j.preghy.2023. 11.008. Online ahead of print
3. ** Spronck B, Terentes-Printzios D, Avolio AP, Boutouyrie P, Guala A, Jerončić A, Laurent S, Barbosa ECD, Baulmann J, Chen CH, Chirinos JA, Daskalopoulou SS, Hughes AD, Mahmud A, Mayer CC, Park JB, Pierce GL, Schutte AE, Urbina EM, Wilkinson IB, Segers P, Sharman JE, Tan I, Vlachopoulos C, Weber T, Bianchini E, Bruno RM; Association for Research into Arterial Structure and Physiology (ARTERY), the European Society of Hypertension Working Group on Large Arteries, European Cooperation in Science and Technology Action Vasc AgeNet, North American Artery Society, ARTERY

LATAM, Pulse of Asia, and Society for Arterial Stiffness—Germany-Austria-Switzerland (DeGAG). 2024 validation of non-invasive arterial pulse wave velocity measurement devices (2023). *Hypertension* Nov 17. doi: 10.1161/HYPERTENSIONAHA.123.21618. Online ahead of print.

4. ** Gimblet CJ, Kruse NT, Geasland K, Michelson J, Sun M, Mandukhail SR, Wendt LH, Eyck PT, Pierce GL, Jalal DI (2023). Effect of resveratrol on endothelial function in patients with CKD and diabetes: A randomized controlled trial. *Clin J Am Soc Nephrol* 2023 Online ahead of print.
5. * Armstrong MK, Nuckols VR, Gimblet CJ, Holwerda SW, DuBose LE, Luehrs RE, Lane AD, Chirinos JA, Voss MW, Pierce GL (2023). Relation of forward and backward traveling pressure waves with subclinical carotid wall remodeling and central pulse pressure. *J Appl Physiol* Aug 31. doi: 10.1152/jappphysiol.00286.2023. Online ahead of print
6. * Gimblet CJ, Armstrong MK, Nuckols VR, DuBose LE, Holwerda SW, Luehrs RE, Lane AD, Voss MW, Pierce GL (2023). Sex-specific associations of reservoir-excess pressure parameters with age and subclinical vascular remodeling. *J Hypertens* 2023; 41(4):624-631.
7. * Holwerda SW, Gangwish ME, Luehrs RE, Nuckols VR, Thyfault JP, Miles JM, Pierce GL (2023). Concomitantly higher resting arterial blood pressure and transduction of sympathetic neural activity in human obesity without hypertension. *J Hypertens* 41(2):326-335.
8. * Armstrong MK, Chirinos JA, Kapuku GK, Pierce GL. Aortic pressure-only wave separation analysis in adolescents: accuracy and associations with left ventricular mass index (2022). *J Hum Hypertens*. Sept 23. On-line ahead of print.
9. **** Vignato JA, Gumusoglu SB, Davis HA, Scroggins SM, Hamilton WS, Brandt DS, Pierce GL, Knosp BA, Santillan DA, Santillan MK (2022). Selective Serotonin Reuptake Inhibitor Use in Pregnancy and Protective Mechanisms in Preeclampsia. *Reprod Sci*. Aug 19. On-line ahead of print.
10. **** Oh M, Jacobs DR, Pettee Gabriel K, Bao W, Pierce GL, Carr LJ, Terry JG, Ding J, Carr JJ, Whitaker, KM (2022). Ten-year change in TV viewing and physical activity are associated with concurrent 10-year changes in pericardial adipose tissue: the CARDIA Study. *J Phys Act Health*. 19(8):531-539.
11. ** Dziejwior JM, Carr L, Pierce GL, Whitaker KM (2022). College students report less physical activity and more sedentary behavior during the COVID-19 pandemic. *J Am Coll Health*. 26:1-9.
12. * Nuckols VR, Stroud AK, Armstrong MK, Brandt DS, Santillan MK, Santillan DA, Pierce GL (2022). Postpartum ambulatory and home blood pressure monitoring in women with history of preeclampsia: diagnostic agreement and detection of masked hypertension. *Pregnancy Hypertens* 29:23-29.
13. ****Oh M, Gabriel KP, Jacobs DR, Bao W, Pierce GL, Carr LJ, Terry JG, Ding J, Carr JJ, Whitaker KM. (2022). Cardiorespiratory fitness in adults aged 18 to 34 years and long-term pericardial adipose tissue (from the CARDIA study). *Amer J Cardiol* 172:130-136.
14. *** DuBose LE, Weng TB, Pierce GL, Wharff C, Reist L, Hamilton C, O'Deen A, Dubishar K, Lane-Cordova A, Voss MW (2022). Association between cardiorespiratory fitness and cerebrovascular reactivity to a breath hold stimulus in older adults: influence of aerobic exercise training. *J Appl Physiol*. 132(6):1468-1479.
15. ****Oh M, Jacobs DR, Gabriel KP, Bao W, Pierce GL, Carr LJ, Ding J, Whitaker KM (2022). Cross-sectional and longitudinal associations of lifestyle behaviors with pericardial adipose tissue: the MESA study. *Med Sci Sports Exer*. 54(6):984-993.
16. **** Kumar R, Sonkar VK, Swamy J, Ahmed A, Sharathkumar AA, Pierce GL, Dayal S (2021). DNase 1 protects from increased potential for thrombin generation and venous thrombosis during aging: cross-sectional study in mice and humans. *J Am Heart Assoc*. 11(2):e021188.

17. * Nuckols, V. R., Stroud, A., Huesner, J., Brandt, D., DuBose, L. E., Santillan, D., Santillan, M. K., Pierce, G. L. (2021). Twenty-four hour blood pressure variability is associated with lower cognitive function in young women with a history of preeclampsia. *Am J Hypertens* 34(12):1291-1299.
18. *** Fiedorowicz, J.G., Dindo, L., Boykin, D. M., Wooldridge, N., Myers, J. L., Ajibewa, T., Stroud, A., Kuwaye, D., Liu, Z., Pierce, G. L. (2021) One-day acceptance and commitment therapy (ACT) workshop improves anxiety but not vascular function of inflammation in adults with moderate to high anxiety levels in a randomized controlled trial. *General Hospital Psychiatry*. Nov-Dec;73:64-70.
19. ** Reho, J. J., Guo, D.-F., Beyer, A., Wegman-Points, L., Pierce, G. L., Rahmouni, K. (2021). Vascular effects of disrupting endothelial mTORC1 (Mechanistic Target of Rapamycin Complex 1) signaling in obesity. *Am J Physiol Reg Integr Comp Physiol*, 321(2), R228-R237.
20. *** Luehrs, R. E., Moreau, K. L., Wamboldt, F., Aloia, M., Weinberger, H., Make, B., Crapo, J. D., Pierce, G. L., Hoth, K. F. (2021). Cognitive Performance is Lower Among Individuals with Overlap Syndrome than with COPD or Obstructive Sleep Apnea Alone: Role of Carotid Artery Stiffness. *Journal of Applied Physiology*, 131(1), 131-141.
21. ** Santillan, M. K., Becker, R., Calhoun, D. A., Cowley, A. W., Grobe, J. L., Kotchen, T. A., Lackland, D. T., Leslie, K. K., Liang, M., Mattson, D. L., Meyers, K. E., Mitsnefes, M. M., Muntner, P. M., Pierce, G. L., Pollock, J. S., Sigmund, C. D., Thomas, S. J., Urbina, E. M., Kidambi, S. (2021). Team Science - American Heart Association's HTN Strategically Focused Research Network Experience. *Hypertension*, 77(6), 1857-1866.
22. ** Luehrs, R. E., Zhang, D., Pierce, G. L., Jacobs, D., Kalhan, R., Whitaker, K. (2021). Cigarette Smoking and Longitudinal Associations with Blood Pressure: The CARDIA Study. *Journal of the American Heart Association*, 10(9), e019566.
23. **** Holwerda, S. W., Carter, J. R., Yang, H., Wang, J., Pierce, G. L., Fadel, P. J. (2021). CORP: Standardizing methodology for assessing spontaneous baroreflex control of muscle sympathetic nerve activity in humans. *American Journal of Physiology. Heart and Circulatory Physiology*, 320(2), H762-H771.
24. *** Dindo, L., Fiedorowicz, J., Boykin, D. M., Wooldridge, N., Myers, J. L., Ajibewa, T., Stroud, A., Kuwaye, D., Liu, Z., Pierce, G. L. (2021). A randomized controlled trial for symptoms of anxiety and depression: Effects of a one-day Acceptance and Commitment Training Workshop. *Annals of Clinical Psychiatry* 33(4):258-269.
25. * Holwerda, S. W., Holland, M. T., Green, A. L., Pearson ACS, Pierce, G. L. (2021). Dissociation between reduced pain and arterial blood pressure following epidural spinal cord stimulation in patients with chronic pain: A retrospective study. *Clinical Autonomic Research*, 31(2), 303-316.
26. * Nuckols, V. R., Holwerda, S. W., Luehrs, R. E., DuBose, L. E., Stroud, A. K., Brandt, D., Betz, A. M., Fiedorowicz, J. G., Scroggins, S. M., Santillan, D. A., Grobe, J. L., Sigmund, C. D., Santillan, M. K., Pierce, G. L. (2020). Beat-to-beat blood pressure variability in the first trimester is associated with the development of preeclampsia in a prospective cohort: relation with aortic stiffness. *Hypertension* 76(6), 1800-1807.
27. * Holwerda, S. W., Kardon, R. H., Hashimoto, R., Full, J. M., Nellis, J. K., DuBose, L. E., Fiedorowicz, J. G., Pierce, G. L. (2020). Aortic stiffness is associated with changes in retinal arteriole flow pulsatility mediated by local vasodilation in healthy young/middle-aged adults. *Journal of Applied Physiology*, 129(1), 84-93.
28. **** Barnard, C. R., Peters, M., Sindler, A. L., Farrell, E. T., Baker, K., Palta, M., Stauss, H. M., Dagle, J. M., Segar, J., Pierce, G. L., Eldridge, M. W., Bates, M. L. (2020). Increased aortic stiffness and elevated blood pressure in response to exercise in adult survivors of prematurity. *Physiol Rep*, 8(12), e14462.

29. **** Hoth, K. F., Moreau, K. L., Weinberger, H. D., Holm, K. E., Meschede, K., Crapo, J. D., Make, B. J., Moser, D. J., Kozora, E., Bowler, R. P., Pierce, G. L., Ten Eyck, P., Wamboldt, F. S. (2020). Carotid Artery Stiffness is Associated With Cognitive Performance in Former Smokers With and Without Chronic Obstructive Pulmonary Disease. *Journal of the American Heart Association*, 9(9), e014862.
30. **** Cole, R., Hazeltine, E., Weng, T. B., DuBose, L. E., Schmid, P., Sigurdsson, G., Magnotta, V. A., Pierce, G. L., Voss, M. W. (2020). Cardiorespiratory fitness predicts greater hippocampal volume and rate of episodic associative learning in older adults. *Hippocampus*, 30(2), 143-155.
31. **** Perschbacher, K. J., Deng, G., Sandgren, J., Walsh, L., Santillan, D. A., Devor, E., Pierce, G. L., Fisher, R. A., Santillan, D., Gibson-Corley, K., Sigmund, C. D., Santillan, M. K., Grobe, J. L. (2020). Reduced mRNA Expression of Regulator of G-Protein Signaling-2 (RGS2) in the Placenta is Associated with Preeclampsia and Sufficient to Cause Features of the Disorders in Mice. *Hypertension*, 75(2), 569-579.
32. ** Voss MW, Weng TB, Narayana-Kumanan K, Cole RC, Wharff C, Reist L, DuBose LE, Sigurdsson G, Mills JA, Long JD, Magnotta VA, Pierce GL. (2020). Acute exercise effects predict training change in cognition and connectivity. *Med Sci Sports Exerc*, 52(1):131-140.
33. **** Nair, A. R., Silva, Jr, S. D., Agbor, L. N., Wu, J., Nakagawa, P., Mukohda, M., Lu, K. T., Sandgren, J. A., Pierce, G. L., Santillan, M. K., Grobe, J. L., Sigmund, C. D. (2019). Endothelial PPAR γ (Peroxisome Proliferator-Activated Receptor- γ) Protects From Angiotensin II-Induced Endothelial Dysfunction in Adult Offspring Born From Pregnancies Complicated by Hypertension. *Hypertension (Dallas, Tex. : 1979)*, 74(1), 173-183.
34. * Holwerda, S. W., Luehrs, R. E., Collins, M. T., Wooldridge, N. A., Stroud, A. K., Fadel, P. J., Abboud, F. M., Pierce, G. L. (2019). Elevated muscle sympathetic nerve activity contributes to central artery stiffness in young and middle-age/older adults. *Hypertension*, 73(5), 1025-1035.
35. ** Tong, B., Obosi, O., Schmitz, s., Myers, J., Pierce, G. L., Fiedorowicz, J. G. (2018). Bipolar disorder and related mood states are not associated with endothelial function of small arteries in adults without heart disease. *Gen Hospital Psychiatry*, 51, 36-50.
36. *** Luehrs, R. E., Newell, Jr, J. D., Comellas, A. P., Hoffman, E. A., Warner, K., Croghan, A., DuBose, L. E., Nopoulos, P., Magnotta, V., Arndt, S., #Pierce, G. L., #Hoth, K. F. (2018). CT-Measured Lung Air-Trapping is Associated with Higher Carotid Artery Stiffness in Individuals with Chronic Obstructive Pulmonary Disease. *Journal of applied physiology (Bethesda, Md. : 1985)*. #Co-senior authors.
37. **** Sandgren, J. A., Deng, G., Linggonegoro, D. W., Scroggins, S. M., Perschbacher, K. J., Nair, A. R., Nishimura, T. E., Zhang, S. Y., Agbor, L. N., Wu, J., Keen, H. L., Naber, M. C., Pearson, N. A., Zimmerman, K. A., Weiss, R. M., Bowdler, N. C., Usachev, Y. M., Santillan, D. A., Potthoff, M. J., Pierce, G. L., Gibson-Corley, K. N., Sigmund, C. D., Santillan, M. K., Grobe, J. L. (2018). Arginine vasopressin infusion is sufficient to model clinical features of preeclampsia in mice. *JCI Insight*, 3(19), 99403.
38. * DuBose, L., Boles-Ponto, L., Moser, D. J., Harlynn, E., Reiersen, L., Pierce, G. L. (2018). Elevated aortic stiffness is associated with reduced cerebrovascular reactivity but not global cerebrovascular blood flow among older humans. *Hypertension*, 72(2), 476-482.
39. * Holwerda, S. W., Luehrs, R., Gremaud, A., Wooldridge, N., Stroud, A., Fiedorowicz, J. G., Abboud, F. M., Pierce, G. L. (2018). Relative burst amplitude of muscle sympathetic nerve activity is an indicator of altered sympathetic outflow in chronic anxiety. *Journal of Neurophysiology*, 120(1), 11-22.
40. * Holwerda, S. W., Holland, M., Reddy, C., Pierce, G. L. (2018). Femoral vascular conductance and peroneal muscle sympathetic nerve activity responses to acute epidural spinal cord stimulation in humans. *Experimental Physiology*, 103(6), 905-915.
41. **** Sandgren, J. A., Linggonegoro, D., Zhang, S. Y., Sapouckey, S., Claflin, K. E., Pearson, N. A., Leidinger, M. R., Pierce, G. L., Santillan, M. K., Gibson-Corely, K. N., Sigmund, C. D., Grobe, J. L.

- (2018). Angiotensin AT1A Receptors Expressed in Vasopressin-Producing Cells of the Supraoptic Nucleus Contribute to the Osmotic Control of Vasopressin. *Am J Physiol Regul Integr Comp Physiol.*, 314(6), R770-R780.
42. **** Scroggins, S. M., Santillan, D. A., Lund, J. M., Sandgren, J. A., Krotz, L. K., Hamilton, W. S., Devor, E., Davis, H. A., Pierce, G. L., Gibson-Corley, K. N., Sigmund, C. D., Grobe, J. L., Santillan, M. K. (2018). Elevated Vasopressin in Pregnant Mice Induces T Helper Subset Alterations Consistent with Human Preeclampsia. *Clinical Science*, 132(3), 419-436.
43. * Lane-Cordova, A. D., Kalil, G. Z., Wagner, C. J., Sindler, A. L., Fiedorowicz, J. G., Ajibewa, T., Haynes, W. G., Pierce, G. L. (2018). Hemoglobin A1c and c-reactive protein are independently associated with blunted nocturnal blood pressure dipping in obesity-related prediabetes. *Hypertension Research*, 41(1), 33-38.
44. ** Rossman, M. J., Rachel, k. E., M, M. N., Jessica, S.-P. R., Pierce, G. L., Seals, D. R., Donato, A. J. (2017). Endothelial cell senescence with aging in healthy humans: prevention by habitual exercise and relation to vascular endothelial function. *Am J Physiol Heart Circ Physiol.*, 313(5), H890-H895.
45. *** Casey, D. P., Ueda, K., Wegman-Points, L. J., Pierce, G. L. (2017). Muscle contraction induced arterial shear stress increases endothelial nitric oxide synthase phosphorylation in humans. *Amer J Physiol Heart Circ Physiol*, 313(4), H854-H859.
46. * Pierce, G. L., Kalil, G. Z., Holwerda, S. W., Ajibewa, T., Persons, J., Moser, D. J., Fiedorowicz, J. G. (2017). Anxiety independently contributes to elevated inflammation in obesity. *Obesity*, 25(2), 286-289.
47. * DuBose, L. E., Voss, M. W., Weng, T. B., Kent, J. D., Dubishar, K. M., Lane-Cordova, A., Sigurdsson, G., Schmid, P., Barlow, P., Pierce, G. L. (2017). Carotid β -stiffness index is associated with slower processing speed but not working memory or white matter integrity in healthy middle-aged/older adults. *Journal of Applied Physiology*, 122(4), 868-876.
48. ** Parker-Santos, J. R., Strahler, T. R., Vorwald, V. M., Pierce, G. L., Seals, D. R. (2017). Habitual aerobic exercise does not protect against macro- or microvascular endothelial dysfunction in healthy estrogen-deficient postmenopausal women. *Journal of Applied Physiology*, 122(1), 11-19.
49. * Pierce, G. L., Pajaniappan, M., DiPietro, A., Darracott, K., Gaston, K. (2016). Abnormal central pulsatile hemodynamics in adolescents with obesity: higher aortic forward pressure wave amplitude is independently associated with greater left ventricular mass. *Hypertension*, 68(5), 1200-1207.
50. * Lane-Cordova, A. L., Witmer, J., Dubishar, K. M., DuBose, L. E., Chenard, C., Siefers, K. J., Myers, J. E., Points, L. J., Pierce, G. L. (2016). High trans but not saturated fat beverage causes an acute reduction in postprandial vascular endothelial function and insulin sensitivity but not large elastic artery stiffness in humans. *Vascular Medicine*, 21(5), 429-436.
51. ** Weng, T. B., Pierce, G. L., Darling, W. G., Magnotta, V., Falk, D., Voss, M. W. (2016). The acute effects of aerobic exercise on the functional connectivity of human brain networks. *Brain Plasticity*, 2, 171-190.
52. * Pierce, G. L., Harris, S. A., Seals, D. R., Casey, D. P., Barlow, P., Stauss, H. M. (2016). Estimated aortic stiffness is independently associated with cardiac baroreflex sensitivity in humans: role of aging and habitual endurance exercise. *Journal of Human Hypertension*, 30, 513-520.
53. *** Munter, P., Becker, R. C., Calhoun, D., Chen, D., Cowley, Jr, A. W., Flynn, J. T., Grobe, J. L., Kidambi, S., Kotchen, T. A., Lackland, D. T., Leslie, K. K., Li, Y., Liang, M., Lloyd, A., Mattson, D. L., Mendizabal, B., Mitsnefes, M., Nair, A., Pierce, G. L., Pollock, J. S., Safford, M. M., Santillan, M. K., Sigmund, C. D., Thomas, S. J., Urbina, E. M. (2016). Introduction to the American Heart Association's hypertension strategically focused research network. *Hypertension*, 67, 674-680.

54. * Kalil, G. Z., Recober, A., Hoang-Tienor, A., Bridget Zimmerman, M., Haynes, W. G., Pierce, G. L. (2016). Higher augmentation index is associated with tension-type headache and migraine in middle-aged/older humans with obesity. *Obesity (Silver Spring, Md.)*, *24*, 865-870.
55. ** Weng, T. B., Pierce, G. L., Darling, W. G., Voss, M. W. (2015). Differential effects of acute exercise on distinct aspects of executive function. *Medicine and Science in Sports and Exercise*, *47*, 1460-1469.
56. **** Peña-Silva, R. A., Chalouhi, N., Wegman-Points, L., Ali, M., Mitchell, I., Pierce, G. L., Chu, Y., Ballas, Z. K., Heistad, D., Hasan, D. (2015). Novel role for endogenous hepatocyte growth factor in the pathogenesis of intracranial aneurysms. *Hypertension*, *65*, 587-93.
57. ** Sandgren, J. A., Scroggins, S. M., Santillan, D. A., Devor, E. J., Gibson-Corley, K. N., Pierce, G. L., Sigmund, C. D., Santillan, M. K., Grobe, J. L. (2015). Vasopressin: the missing link for preeclampsia? *American journal of physiology. Regulatory, integrative and comparative physiology*, *309*(9), R1062-4.
58. ** Chu, Y., Wilson, K. M., Gu, H., Wegman-Points, L., Dooley, S., Pierce, G. L., Cheng, G., Pena-Silva, R., Heistad, D. D., Hasan, D. M. (2015). Myeloperoxidase is increased in human cerebral aneurysms and increases formation and rupture of cerebral aneurysms in mice. *Stroke*, *46*(6), 1651-1656.
59. ** Montero, D., Pierce, G. L., Stehouwer, C. D., Padilla, J., Thijssen, D. H. (2015). The impact of age on vascular smooth muscle function in humans. *J Hypertens*, *33*(3), 445-53.
60. ** Bharadwaj, J., Harris, R. A., Parikh, S., Zhu, H., Huang, Y., Kotak, I., Seigler, N., Pierce, G. L., Egan, B. M., Dong, Y. (2014). Epithelial sodium channel inhibition by amiloride on blood pressure and cardiovascular disease risk in young prehypertensives. *Journal of Clinical Hypertension*, *16*, 47-53.
61. **** Linder, J. R., Stauss, H. M., Gindes, H., Pierce, G. L., Von Bergen, N. H., Haynes, W. G., Fiedorowicz, J. G. (2014). Finger volume pulse waveforms facilitate reliable assessment of heart rate variability, but not blood pressure variability or baroreflex function. *BMC Cardiovasc Disorders*, *14*(180), 1-8.
62. ** Walker, A. E., Kaplan, R. E., Pierce, G. L., Nowman, M., Seals, D. R. (2014). Prevention of age-related endothelial dysfunction by habitual aerobic exercise in healthy humans: possible role of nuclear factor κ B. *Clin Sci*, *127*, 645-54.
63. * Pierce, G. L., Casey, D. P., Fiedorowicz, J. G., Seals, D. R., Curry, T. B., Barnes, J. N., Wilson, D., Stauss, H. M. (2013). Aortic pulse wave velocity and reflecting distance estimation from peripheral waveforms in humans: detection of age- and exercise training-related differences. *Am J Physiol Heart Circ Physiol*, *305*, H135-142.
64. ** Chalouhi, N., Points, L., Pierce, G. L., Ballas, Z., Jabbour, P., Hasan, D. (2013). Localized increase of chemokines in the lumen of human cerebral aneurysms. *Stroke*, *44*, 2594-7.
65. ** Devan, A. E., Eskurza, I., Pierce, G. L., Walker, A. E., Kaplon, K. L., Seals, D. R. (2013). Regular aerobic exercise protects against impaired fasting glucose-associated vascular endothelial dysfunction with aging. *Clin Sci*, *124*, 325-331.
66. ** DeVan, A. E., Pierce, G. L., Brooks, F. A., Seals, D. R. (2013). The dependence of FMD% on baseline diameter: a problem solved by allometric scaling. *Clin Sci*, *125*, 16-18.
67. * Pierce, G. L., Zhu, H., Darracott, K., Edet, I., Bhagatwala, J., Huang, Y., Dong, Y. (2013). Arterial stiffness and pulse pressure amplification in overweight/obese African-American adolescents: relation with higher systolic and pulse pressure. *Am J Hypertens*, *26*(1), 20-26.
68. * Pierce, G. L., Jablonski, K. L., Walker, A. E., Seibert, S. M., Black, S. M., Shruti, S., Seals, D. R. (2012). Tetrahydrobiopterin supplementation enhances carotid artery compliance in healthy older men: a pilot study. *Am J Hypertens*, *25*, 1050-1054.

69. **** LaRocca, T. J., Henson, G. D., Thorburn, A., Sindler, A. L., Pierce, G. L., Seals, D. R. (2012). Translational evidence that impaired autophagy contributes to arterial ageing. *J Physiol*, *590*, 3305-3316.
70. ** Christou, D. D., Pierce, G. L., Walker, A. E., Hwang, M. H., Yoo, J. K., Luttrell, M., Meade, T., English, M., Seals, D. R. (2012). Vascular smooth muscle responsiveness to nitric oxide is reduced in healthy adults with increased adiposity. *Am J Physiol Heart Circ Physiol*, *303*, H743-50.
71. ** Jablonski, K. L., Chonchol, M., Pierce, G. L., Walker, A. E., Seals, D. R. (2011). 25-hydroxyvitamin D deficiency is associated with inflammation-linked vascular endothelial dysfunction in middle-aged and older adults. *Hypertension*, *575*, 63-69.
72. * Pierce, G. L., Donato, A. J., LaRocca, T. J., Eskurza, I., Silver, A. E., Seals, D. R. (2011). Habitually exercising older men do not demonstrate age-associated vascular endothelial oxidative stress. *Aging Cell*, *10*, 1032-1037.
73. ** Gano, L. G., Donato, A. J., Pierce, G. L., Hamza, M., Magerko, K. A., Roeca, C., Seals, D. R. (2011). Increased pro-inflammatory and oxidant gene expression in older adults: amelioration with habitual exercise. *Physiol Genomics*, *43*, 895-902.
74. * Pierce, G. L., Eskurza, I., Walker, A. E., Fay, T. N., Seals, D. R. (2011). Sex-specific effects of habitual aerobic exercise on brachial artery flow-mediated dilation in middle-aged and older adults. *Clinical Science*, *120*, 13-23.
75. **** Dong, Y., Stallmann-Jorgensen, I. S., Pollock, N. K., Harris, R. A., Keeton, D., Huang, Y., Li, K., Bassali, R., Guo, D., Petty, K., Thomas, J., Pierce, G. L., White, J., Holick, M., Zhu, H. (2010). A 16-week randomized clinical trial of 2,000 IU daily vitamin D3 supplementation in black adolescents: 25-hydroxyvitamin D, body mass index, and arterial stiffness. *J Clin Endo Metab*, *95*, 4584-4591.
76. *** LaRocca, T. J., Seals, D. R., Pierce, G. L. (2010). Leukocyte telomere length is preserved with ageing in endurance exercise trained adults and related to maximal aerobic capacity. *Mech Ageing Develop*, *131*, 165-167.
77. ** Walker, A. E., Seibert, S. M., Donato, A. J., Pierce, G. L., Seals, D. R. (2010). Peripheral vascular endothelial function is related to white blood cell count and myeloperoxidase among healthy middle-aged and older adults. *Hypertension*, *55*, 363-369.
78. ** Denardo, S. J., Nandyala, R., Freeman, G. L., Pierce, G. L., Nichols, W. W. (2010). Pulse wave analysis of the aortic pressure waveform in severe left ventricular systolic dysfunction. *Circulation. Heart failure*, *3*(1), 149-56.
79. ** Jablonski, K. L., Gates, P. E., Pierce, G. L., Seals, D. R. (2009). Low dietary sodium intake is associated with enhanced vascular endothelial function in middle-aged and older adults with elevated systolic blood pressure. *Therapeutic advances in cardiovascular disease*, *3*(5), 347-56.
80. * Pierce, G. L., Lesniewski, L. A., Lawson, B. R., Beske, S. D., Seals, D. R. (2009). Nuclear factor- κ B activation contributes to vascular endothelial dysfunction via oxidative stress in overweight/obese middle-aged and older humans. *Circulation*, *119*(9), 1284-92.
81. ** Walker, A. E., Eskurza, I., Pierce, G. L., Gates, P. E., Seals, D. R. (2009). Modulation of vascular endothelial function by low-density lipoprotein cholesterol with aging: influence of habitual exercise. *American journal of hypertension*, *22*(3), 250-6.
82. ** Donato, A. J., Eskurza, I., Jablonski, K. L., Gano, L. B., Pierce, G. L., Seals, D. R. (2008). Cytochrome P-450 2C9 signaling does not contribute to age-associated vascular endothelial dysfunction in humans. *Journal of applied physiology (Bethesda, Md. : 1985)*, *105*(4), 1359-63.

83. *** Casey, D. P., Braith, R. W., Pierce, G. L. (2008). Changes in central artery blood pressure and wave reflection during a cold pressor test in young adults. *European journal of applied physiology*, 103(5), 539-43.
84. * Pierce, G. L., Beske, S. D., Lawson, B. R., Southall, K. L., Benay, F. J., Donato, A. J., Seals, D. R. (2008). Weight loss alone improves conduit and resistance artery endothelial function in young and older overweight/obese adults. *Hypertension*, 52(1), 72-9.
85. * Pierce, G. L., Larocca, T. J. (2008). Reduced vascular tetrahydrobiopterin (BH4) and endothelial function with ageing: is it time for a chronic BH4 supplementation trial in middle-aged and older adults? *The Journal of physiology*, 586(11), 2673-4.
86. * Pierce, G. L., Schofield, R. S., Casey, D. P., Hamlin, S. A., Hill, J. A., Braith, R. W. (2008). Effects of exercise training on forearm and calf vasodilation and proinflammatory markers in recent heart transplant recipients: a pilot study. *Eur J Cardiovasc Prev Rehab*, 15(1), 10-8.
87. * Braith, R. W., Schofield, R. S., Hill, J. A., Casey, D. P., Pierce, G. L. (2008). Exercise training attenuates progressive decline in brachial artery reactivity in heart transplant recipients. *J of Heart Lung Transplant*, 27(1), 52-9.
88. * Pierce, G. L., Schofield, R. S., Nichols, W. W., Hill, J. A., Braith, R. W. (2007). Role of heart failure etiology on arterial wave reflection in heart transplant recipients: relation with C-reactive protein. *Journal of hypertension*, 25(11), 2273-9.
89. *** Casey, D. P., Pierce, G. L., Howe, K. S., Mering, M. C., Braith, R. W. (2007). Effect of resistance training on arterial wave reflection and brachial artery reactivity in normotensive postmenopausal women. *Eur J of App Physiol*, 100(4), 403-8.
90. ** Donato, A. J., Eskurza, I., Silver, A. E., Levy, A. S., Pierce, G. L., Gates, P. E., Seals, D. R. (2007). Direct evidence of endothelial oxidative stress with aging in humans: relation to impaired endothelium-dependent dilation and upregulation of nuclear factor-kappaB. *Circulation Research*, 100(11), 1659-66.
91. *** Schofield, R. S., Pierce, G. L., Nichols, W. W., Klodell, C. T., Aranda, Jr, J. M., Pauly, D. F., Hill, J. A., Braith, R. W. (2007). Arterial-wave reflections are increased in heart failure patients with a left-ventricular assist device. *American Journal of Hypertension*, 20(6), 622-8.
92. ** Haller, M. J., Pierce, G. L., Braith, R. W., Silverstein, J. H. (2006). Serum superoxide dismutase activity and nitric oxide do not correlate with arterial stiffness in children with type 1 diabetes mellitus. *Journal of pediatric endocrinology & metabolism : JPEM*, 19(3), 267-9.
93. ** Braith, R. W., Magyari, P. M., Pierce, G. L., Edwards, D. G., Hill, J. A., White, L. J., Aranda, Jr, J. M. (2005). Effect of resistance exercise on skeletal muscle myopathy in heart transplant recipients. *American Journal of Cardiology*, 95(10), 1192-8.
94. ** Haller, M. J., Samyn, M., Nichols, W. W., Brusko, T., Wasserfall, C., Schwartz, R. F., Atkinson, M., Shuster, J. J., Pierce, G. L., Silverstein, J. H. (2004). Radial artery tonometry demonstrates arterial stiffness in children with type 1 diabetes. *Diabetes Care*, 27(12), 2911-7.
95. **** Edwards, D. G., Schofield, R. S., Lennon, S. L., Pierce, G. L., Nichols, W. W., Braith, R. W. (2004). Effect of exercise training on endothelial function in men with coronary artery disease. *The American journal of cardiology*, 93(5), 617-20.
96. * Pierce, G. L., Seferlis, C., Kirshenbaum, J., Hartley, L. H. (2000). Lack of association of exercise testing with coronary stent closure. *The American journal of cardiology*, 86(11), 1259-61, A6.
97. ** Bader, D. S., McInnis, K. J., Maguire, T. E., Pierce, G. L., Balady, G. J. (2000). Accuracy of a pretest questionnaire in exercise test protocol selection. *The American journal of cardiology*, 85(6), 767-70, A8-9.

98. ** McInnis, K. J., Bader, D. S., Pierce, G. L., Balady, G. J. (1999). Comparison of cardiopulmonary responses in obese women using ramp versus step treadmill protocols. *The American journal of cardiology*, 83(2), 289-91, A7.
99. **** Doern, G. V., Brueggemann, A. B., Pierce, G. (1997). Assessment of the oxacillin disk screening test for determining penicillin resistance in *Streptococcus pneumoniae*. *European journal of clinical microbiology & infectious diseases : official publication of the European Society of Clinical Microbiology*, 16(4), 311-4.
100. **** Doern, G. V., Brueggemann, A. B., Pierce, G., Holley, Jr, H. P., Rauch, A. (1997). Antibiotic resistance among clinical isolates of *Haemophilus influenzae* in the United States in 1994 and 1995 and detection of beta-lactamase-positive strains resistant to amoxicillin-clavulanate: results of a national multicenter surveillance study. *Antimicrobial agents and chemotherapy*, 41(2), 292-7.
101. **** Doern, G. V., Brueggemann, A. B., Pierce, G., Hogan, T., Holley, Jr, H. P., Rauch, A. (1996). Prevalence of antimicrobial resistance among 723 outpatient clinical isolates of *Moraxella catarrhalis* in the United States in 1994 and 1995: results of a 30-center national surveillance study. *Antimicrobial agents and chemotherapy*, 40(12), 2884-6.
102. **** Doern, G. V., Pierce, G., Brueggemann, A. B. (1996). In vitro activity of sanfetrinem (GV104326), a new trinem antimicrobial agent, versus *Streptococcus pneumoniae*, *Haemophilus influenzae*, and *Moraxella catarrhalis*. *Diagnostic microbiology and infectious disease*, 26(1), 39-42.

Invited Reviews (peer-reviewed)

1. * Pierce GL, Coutinho T, DuBose LE, Donato AJ. (2022). Is it good to have a stiff aorta with aging? Causes and consequences. *Physiology* 37(3);154-173.
2. *** Stanhewicz AE, Nuckols VR, Pierce GL (2021). Maternal microvascular dysfunction during preeclamptic pregnancy. *Clin Sci (London)*, 135(9):1083-1101.
3. * Pierce, G. L. (2017). Aortic stiffness in aging and hypertension: prevention and treatment with habitual aerobic exercise. *Current Hypertension Reports*, 19;11:90.
4. * Pierce, G. L. (2017). Recent advances: mechanisms and subclinical consequences of aortic Stiffness. *Hypertension*, 70:848-853.
5. ** Seals, D. R., Walker, A. E., Pierce, G. L., Lesniewski, L. A. (2009). Habitual exercise and vascular ageing. *The Journal of physiology*, 587(Pt 23):5541-5549.

Invited Editorials

1. * Pierce, G. L., Roy, S. J., Gimblet, C. J. (2021). The gut-arterial stiffness axis: Is TMAO a novel target to prevent age-related aortic stiffening? *Hypertension*, 78(2): 512-515.
2. * Pierce, G. L. (2018). Initiating life-long aerobic exercise 4-5 days/week before or near age 50 years: is this the "holy-grail" of preventing age-related central artery stiffness? (14th ed., vol. 596, pp. 2635-2636). *J Physiol*.
3. *** Franklin, S. S., Pierce, G. L. (2014). Cardiorespiratory fitness and the attenuation of age-related rise in blood pressure: an important role for effective primordial prevention. *J Amer Coll Cardiol*, 64(12):1254-56.
4. * Pierce, G. L. (2013). Targeting vascular endothelial insulin resistance in type 2 diabetes mellitus: is protein kinase C β the 'bullseye' for reducing vascular risk in diabetes? *Circulation*, 127:16-18.

5. * Pierce, G. L. (2013). Oral BH₄: novel remedy for age-related skin microvascular dysfunction during hyperthermia or fool's elixir? *J Appl Physiol*, 115:951-3.

Commentary Articles (non-refereed)

1. * Holwerda, S. W., Fadel, P. J., Abboud, F. M., Pierce, G. L. (2019). *Response by Holwerda et al to Letter Regarding Article "Elevated Muscle Sympathetic Nerve Activity Contributes to Central Artery Stiffness in Young and Middle-Age/Older Adults"*. (2nd ed., vol. 74, pp. e33). *Hypertension* (Dallas, Tex.: 1979).
2. * Pierce, G. L., Donato, A. J. (2009). Will standardization of brachial artery shear stimulus make FMD ready for clinical "prime-time"? *Journal of applied physiology* (Bethesda, Md. : 1985), 107(4), 1365; author reply 1366.
3. ** Seals, D. R., Donato, A. J., Pierce, G. L., Walker, A. E. (2007). Commentary on Viewpoint Human experimentation: no accurate, quantitative data? *Journal of applied physiology* (Bethesda, Md.: 1985), 102(3), 1294.

Book Chapter

1. * Pierce GL, Heffernan KS, Davy KP (2022). "Effect of Exercise Training and Weight Loss on Arterial Stiffness and Pulsatile Hemodynamics." Academic Press (1st ed) In: *Arterial Stiffness and Pulsatile Hemodynamics in Health and Disease*. Julio A. Chirinos, PhD (Editor).

Abstracts

1. Armstrong MK, Jain S, Nuckols VR, Gimblet CJ, DuBose LE, Voss MW, Pierce GL. *Central artery pulsatile hemodynamics are associated with cerebral total, periventricular, and deep white matter lesions: role of reservoir-excess pressure components*. *Hypertension* 2023 (poster presentation at 2023 American Heart Association Hypertension Sessions Meeting).
2. * Gimblet CJ, Ernst JW, Holwerda SW, Kardon RH, Hashimoto R, DuBose LE, Fiedorowicz JG, Pierce GL. *Greater 24-hour blood pressure variability is associated with higher retinal microvascular resistance and smaller lumen diameter in healthy normotensive adults*. *Hypertension* 2023 (oral presentation at 2023 American Heart Association Hypertension Sessions Meeting).
3. ** Gimblet CJ, Kruse NT, Geasland K, Mickelson J, Sun M, Rehman S, Wendt LH, Ten-Eyck P, Ernst JW, Pierce GL, Jalal DI. *Resveratrol supplementation improves endothelial function in chronic kidney disease* (presented as a poster presentation at the 2023 Amer Physiology Society Summit Meeting).
4. Nuckols VR, Magnotta V, Hoth KF, Santillan MK, Pierce GL. *Associations between aortic stiffness, cerebral artery resistance and white matter integrity in women with a history of preeclampsia* (presented as a poster presentation at the 2023 Amer Physiology Society Summit Meeting).
5. * Ernst JW, Gimblet CJ, Nuckols VR, Holwerda SW, Stroud AK, DuBose LE, Wooldridge N, Ajibewa T, Fiedorowicz JG, Pierce GL. *Higher levels of vigorous physical activity are associated with enhanced nocturnal blood pressure dipping* (presented as a poster presentation at the 2023 American Physiology Society Summit Meeting).
6. * Nuckols VR, Guerrero M, Stroud AK, Santillan MK, Pierce GL. *Association between postpartum sleep characteristics and twenty-four-hour blood pressure patterns in women with and without a history of preeclampsia*. *Hypertension* 2022 563(Supp 1):P098. (Presented as a poster at 2022 American Heart Association Hypertension Sessions.)
7. * Nuckols VR, Stroud AK, Brandt DS, Santillan DA, Santillan MK, Pierce GL (2022). *Effect of parity on baroreflex sensitivity and blood pressure variability in sequential pregnancies and postpartum*. *FASEB J*. (Presented at 2022 Experimental Biology Meeting as poster presentation.)
8. * Gimblet C, Armstrong MK, Nuckols VR, Stroud AK, Guerrero M, Pierce GL (2022). *Aortic*

- stiffness is negatively associated with microvascular glycoalyx thickness and microvascular perfusion among older adults: role of carotid pressure pulsatility. FASEB J.* (Presented at 2022 Experimental Biology Meeting as oral presentation.)
9. Armstrong MK, Chirinos JA, Kapuku GK, Pierce GL (2022). *Pressure only wave separation pulsatile hemodynamics in adolescents: accuracy and associations with left ventricular mass index. FASEB J.* (Presented at 2022 Experimental Biology Meeting as poster presentation.)
 10. Holwerda SW, Gangwish ME, Luehrs RE, Nuckols VR, Pierce GL (2022). *Obesity-related higher blood pressure is associated with augmented transduction of spontaneous muscle sympathetic nerve activity. FASEB J.* (Presented at 2022 Experimental Biology Meeting as poster presentation.)
 11. **** Jain S, Pipoly MA, Sodoma M, Magnotta V, Pierce GL, Voss MW. *Is brain modularity a biomarker of exercise intervention-related plasticity?* 2021 Neuroscience.
 12. * Nuckols VR, Stroud AK, Gruber K, Ngonyama R, Brandt D, Santillan DA, Santillan MK, Pierce GL (2021). *Increased Sedentary Time Is Associated with Greater Postpartum Blood Pressure In Women With A History Of Preeclampsia. Hypertension, 78(Suppl_1)*, Abstract ?? (Presented as a poster at 2021 American Heart Association Hypertension Sessions.)
 13. ** Myers MC, Santillan MK, Brandt DS, Stroud AK, Vignato JA, Scroggins SM, Virginia Nuckols, Pierce GL, Santillan DA (2021). *Role For Adverse Childhood Experiences and Depression In Preeclampsia. Hypertension, 78(Suppl_1)*, Abstract 30. (Poster presentation at 2021 American Heart Association Hypertension Sessions.)
 14. *** Iwakuma, Y., Holland, M. T., Pierce, G. L., Holwerda, S. W (2021). *Nociceptor-mediated impairment in spontaneous sympathetic baroreflex sensitivity and the potential for improvement via epidural spinal cord stimulation in chronic low back pain.* Clin Auto Sci. 2021 American Autonomic Society Meeting. Accepted/In Press.
 15. * Nuckols, V. R., Stroud, A. K., Brandt, D. S., Santillan, M. K., Santillan, D. A., Catov, J. M., Hubel, C. A., Pierce, G. L. (2020). *Home blood pressure monitoring postpartum detects masked hypertension in women with a history of preeclampsia* (pp. 16606). Circulation 2020.
 16. **** Scroggins, S., Gray, G., Berkey, C., Gandley, R. E., Sutton, E. F., Brandt, D., Santillan, D., Pierce, G. L., Hubel, C. A., Catov, J., Santillan, M. K. (2020). *Preeclampsia-induced T helper-associated cytokine imbalances persist post-partum* (pp. Suppl_1). Hypertension
 17. *** Arthur, G., Pierce, G. L., DuBose, L. E., Lane-Cordova, A. D., Jensen, N., Wehrle, A., Stroud, A., Yiannikouris, F. B. *Sex differences in the association between soluble prorenin receptor and physiological and cardiometabolic risk factors in healthy human varying in age and obesity* (pp. Suppl_1). Hypertension. Accepted/In Press August 1, 2020.
 18. * Holwerda, S. W., Kardon, R., Hashimoto, R., Full, J., Nellis, J., DuBose, L. E., Fiedorowicz, J., Pierce, G. L. (2020). *The relation between aortic stiffness and retinal microvascular flow pulsatility is attenuated by higher vascular resistance in healthy adults* (S1 ed., vol. 34). FASEB J.
 19. * Nuckols, V., Stroud, A. K., Huesner, J. F., Brandt, D. S., DuBose, L. E., Santillan, M. K., Pierce, G. L. (2020). *Reduced Postpartum Cognitive Function in Young Women with a History of Preeclampsia: Association with Blood Pressure Variability* (S1 ed., vol. 34). FASEB J.
 20. * Martin, B. P., Stroud, A., DuBose, L. E., Brandt, D., Santillan, D., Nuckols, V., Grobe, J., Santillan, M. K., Pierce, G. L. (2020). *Microvascular Endothelial Glycoalyx Function in Human Pregnancy and Postpartum in Women with a History of Preeclampsia* (S1 ed., vol. 34). FASEB J.
 16. * Luehrs, R. E., Linkenmeyer, C., Amaza, H., Wong, C., Ward, R. C., Phillips, G., Comellas, A. P., Pierce, G. L., Hoth, K. F. (2019). *Greater Beat-To-Beat Blood Pressure Variability is Associated With Lower Cognitive Performance Independent of Mean Blood Pressure Among Cigarette Smokers* (Suppl 1 ed., vol. 74). Hypertension.
 17. * Nuckols, V., Stroud, A. K., Brandt, D., DuBose, L. E., Santillan, M. K., Santillan, D. A., Pierce, G. L. (2019). *Postpartum Cognitive Function in Young Women With a History of Preeclampsia: Association With Blood Pressure but Not Large Artery Stiffness* (Suppl_1 ed., vol. 74, pp. 149). Hypertension.
 18. * Santillan, M. K., Meincke, C. R., Scroggins, S. M., Betz, A. M., Brandt, D. S., Santillan, D. A., Pierce, G. L. (2019). *Low indolamine 2,3 dioxygenase activity in pregnancy are associated with increased carotid-femoral pulse wave velocity in preeclampsia* (Suppl_1 ed., vol. 74, pp. 030).

- Hypertension.
14. ** Kumar, R., Sonkar, V. K., Pierce, G. L., Dayal, S. (2019). *Neutrophil Extracellular Trap Mediated Increased Thrombin Generation in Aging* (Suppl_1 ed., vol. 39, pp. 119). Arteriosclerosis, Thrombosis, and Vascular Biology.
 15. *** DuBose, L. E., Wharff, C., P. S., Muellerleile, M., Sigurdsson, G., Reist, L., Pierce, G. L., Voss, M. W. (2019). *Chronic Aerobic Exercise Training Reduces Cerebrovascular Reactivity to a Breath Hold Stimulus in Middle-aged and Older Adults* (1_Supplement ed., vol. 33). FASEB J.
 16. *** DuBose, L. E., Magnotta, V. A., Moser, D. J., Pierce, G. L., Boles-Ponto, L. L. (2019). *Elevated Aortic Stiffness is Associated with Lower Brain pH and Executive Function Performance in Middle-aged and Older Adults* (1_Supplement ed., vol. 33). FASEB J.
 17. * Holwerda, S. W., Luehrs, R. E., Pierce, G. L. (2019). *Elevated muscle sympathetic nerve activity is independently associated with common carotid artery wall thickness in humans* (1_Supplement ed., vol. 33). FASEB J.
 18. ** Sheng, J., Pierce, G. L., Santillan, M. K. (2019). *Elevations in Endothelin-1 Predate and are Strongly Diagnostic for the Development of Human Preeclampsia* (1_Supplement ed., vol. 33). FASEB J.
 19. * Holwerda, S. W., Holland, M. T., Green, A. L., Collins, M. T., Pearson, A. C., Pierce, G. L. (2019). *Epidural Spinal Cord Stimulation for Neuropathic Pain Reduces Blood Pressure in Patients with Hypertension Independent of Pain Relief: A Retrospective Study* (1st ed., vol. 33, pp. supplement). FASEB J.
 20. ** Yang Zhang, S., Pierce, G. L., Grobe, J. L. (2019). *Increased vasopressin secretion during preeclampsia despite normal plasma osmolality* (1_Supplement ed., vol. 33). FASEB J.
 21. *** Luehrs, R. E., Moreau, K. L., Wamboldt, F., Aloia, M., Weinberger, H., Make, B., Crapo, J. D., Pierce, G. L., Hoth, K. F. (2019). *Individuals with Overlap Syndrome have Lower Cognitive Performance than Individuals with COPD or Obstructive Sleep Apnea Alone: Role of Carotid Artery Stiffness* (1_Supplement ed., vol. 33). FASEB J.
 22. **** Perschbacher, K. J., Pierce, G. L., Grobe, J. L. (2019). *Reduced Placental Regulator of G-Protein Signaling-2 (RGS2) and Preeclampsia* (1_Supplement ed., vol. 33). FASEB J.
 23. ** Chin, K., Pierce, G. L., Santillan, D. A. (2019). *Reduced renal responsiveness to vasopressin during preeclampsia* (1_Supplement ed., vol. 33). FASEB J.
 24. **** Scroggins, S. M., Santillan, D. A., Pierce, G. L., Sigmund, C. D., Grobe, J. L., Santillan, M. K. (2018). *Betamethasone: A Novel Therapeutic Intervention for Preeclampsia* (Suppl_1 ed., vol. 72, pp. 014). Hypertension.
 25. * Holwerda, S. W., Kardon, R. H., Wetherell, J. M., Full, J. M., DuBose, L. E., Points, L. J., Gremaud, A. L., Luehrs, R. E., Tong, B., Nellis, J. K., Stroud, A. K., Fiedorowicz, J. G., Pierce, G. L. (2018). *Association Between Aortic Stiffness And Lower Retinal Microvascular Blood Flow Revealed By Laser Speckle Flowgraphy: Surrogate Measures Of Cerebral Microcirculation In Humans*. Hypertension.
 26. * Luehrs, R. E., Aloia, M., Weinberger, H. D., Make, B., Bowler, R., Crapo, J. D., Wamboldt, F., Hoth, K. F., Pierce, G. L. (2018). *Obstructive Sleep Apnea May Exacerbate Carotid Artery Stiffness in Individuals with Chronic Obstructive Pulmonary Disease* (pp. P133). Hypertension.
 27. **** Deng, G., Sandgren, J. A., Keen, H., Perschbacher, K. J., Zhang, S., Santillan, D. A., Pierce, G. L., Gibson-Corley, K. N., Santillan, M. K., Sigmund, C. D., Grobe, J. L. (2018). *Arginine vasopressin infusion in C57BL/6J mice induces changes in the placenta transcriptome that parallel changes observed in placenta from human preeclampsia*. FASEB J.
 28. * Majee, R. J., Santillan, M. K., Betz, A., DuBose, L. E., O'Deen, A., Holwerda, S. W., Stroud, A. K., Brandt, D. S., Jensen, N., Luehrs, R. E., Santillan, D. A., Grobe, J. L., Sigmund, C. D., Pierce, G. L. (2018). *Arterial stiffness but not physical activity levels and vascular endothelial function are altered in early/mid pregnancy in women who develop preeclampsia*. FASEB J.
 29. * Holwerda, S. W., Holland, M. T., Reddy, C., Pierce, G. L. (2018). *Efferent postganglionic sympathetic nerve activity and conduit artery blood flow responses to epidural spinal cord stimulation in humans*. FASEB J.
 30. * DuBose, L. E., Moser, D. J., Boles-Ponto, L. L., Pierce, G. L. (2018). *Elevated Aortic Stiffness is Associated with Weaker Executive Function in Individuals with Lower Cognitive Reserve via Reductions in Frontal Cerebrovascular Reserve*. FASEB J.
 31. * Luehrs, R. E., Moreau, K. L., Commellas, A. P., Weinberger, H., Make, B., Crapo, J., Bowler,

- R., Wamboldt, F., Hoth, K. F., Pierce, G. L. (2018). *Long-Acting Beta-Agonist Use is Associated with Lower Carotid Artery Stiffness and Greater Carotid Artery Compliance in Individuals with Chronic Obstructive Pulmonary Disease*. FASEB J.
32. **** Perschbacher, K. J., Deng, G., Sandgren, J., Carrillo-Sáenz, L., Santillan, D. A., Devor, E., Pierce, G. L., Santillan, M. K., Fisher, R. A., Gibson-Corley, K., Grobe, J. L. (2018). *Reduced Placental Regulator of G-Protein Signaling-2 (RGS2) and Preeclampsia*. FASEB J.
33. * Holwerda, S. W., Gremaud, A., Luehrs, R. E., Fiedorowicz, J. G., Abboud, F. A., Pierce, G. L. (2018). *Sympathetic neural responses to mental stress and arterial baroreflex control in humans with chronic anxiety*. FASEB J.
34. * Betz, A., Pierce, G. L., Santillan, D. A., Devor, E., Scroggins, S., Brandt, D., Stroud, A. K., Thomas, K., O'Deen, A., Holwerda, S. W., DuBose, L. E., Grobe, J. L., Sigmund, C. D., Santillan, M. (2018). *Plasma endothelin-1, arterial stiffness, and mean arterial pressure in the first trimester are predictive of the diagnosis of preeclampsia* (1 Supplement ed., vol. 218, pp. S79). Amer J Obstet Gyn.
35. * Holwerda, S., Pierce, G. L. (2017). *Effect of chronic anxiety on sympathetic vasoconstrictor and cardiac responsiveness in humans* (5th ed., vol. 27, pp. 301). Clinical Autonomic Research.
36. * Pierce, G., Fiedorowicz, J. (2017). *Effect of Chronic Inflammation Inhibition with Salsalate on Aortic Stiffness or Vascular Endothelial Function in Older Adults: A Randomized Controlled Study*. Artery Research.
37. * Holwerda, S., Luehrs, R. E., Wooldridge, N. A., DuBose, L. E., Fiedorowicz, J. G., Pierce, G. L. (2017). *Elevated Muscle Sympathetic Nerve Activity Is Associated With Higher Aortic And Carotid Stiffness Independent Of Blood Pressure In Women* (vol. 70, pp. A125). Hypertension.
38. Betz, A., Pierce, G. L., Santillan, D. A., Davor, E. J., Scroggins, S. M., Brandt, D. S., Stroud, A. K., Thomas, K., Holwerda, S. W., O'Deen, A. L., DuBose, L. E., Grobe, J. L., Sigmund, C. D., Santillan, M. K. (2017). *First Trimester Elevation in Circulating Endothelin-1 and Arterial Stiffness are Predictive of Late Pregnancy Preeclampsia* (vol. 70, pp. AP270). Hypertension.
39. * Luehrs, R., Kalil, G. Z., Holwerda, S. W., Wooldridge, N. A., Fiedorowicz, J. G., DuBose, L. E., Rader, M. M., Pierce, G. L. (2017). *Higher Circulating Triglycerides are Independently Associated with Greater Short-Term Blood Pressure Variability in Middle-Aged/Older Adults with Obesity* (vol. 70, pp. AP199). Hypertension.
40. **** (2017). K. J. Perschbacher, G. Deng, J. A. Sandgren, L. Carillo-Saenz, D. A. Santillan, E. J. Devor, G. L. Pierce, M. K. Santillan, R. A. Fisher, K. N. Gibson-Corley, & J. L. Grobe (Eds.), *Reduced Placental Regulator of G-Protein Signaling-2 (RGS2) and Preeclampsia* (vol. 70, pp. A144). Hypertension.
41. **** Sandgren, J. A., Gibson-Corley, K. N., Linggonegoro, D. W., Perschbacher, K. J., Zhang, S. Y., Scroggins, S. M., Deng, G., Pearson, N. A., Santillan, D. A., Pierce, G. L., Santillan, M. K., Sigmund, C. D., Grobe, J. L. (2017). *Vasopressin Infusion During Pregnancy in Mice Induces Early Histological Placental Phenotypes of Preeclampsia* (vol. 70, pp. AP256). Hypertension.
42. ** Kardon, R., Starkey, C., Full, J., Ketcham, A., Tong, B., Pierce, G. L., Holwerda, S. W., Fiedorowicz, J. G. (2017). *Human Retinal Vascular Reactivity to Flickering Light and Cold Water Immersion Measured by Laser Speckle Flowgraphy* (8th ed., vol. 58, pp. 3043). Investigative Ophthalmology & Visual Science.
43. ** Peters, M., Hoover, M., Sturgeon, M., Vellookunnel, S., Sindler, A. L., Pierce, G. L., Stauss, H. M., Farrell, E. T., Eldridge, M. W., Bates, M. (2017). *Arterial Pulse Wave Velocity is Increased in Prematurely-Born Adults and Rats Given Neonatal Supplemental Oxygen* (Supplement 1 ed., vol. 31, pp. 1011.23). FASEB J.
44. * DuBose, L. E., Boles-Ponto, L. L., Moser, D. J., Harlynn, E., Pierce, G. L. (2017). *Elevated aortic stiffness is associated with reduced cerebrovascular reactivity but not global cerebral blood flow among middle-aged/older humans* (vol. 31, pp. 842.3). FASEB J.
Experimental Biology meeting oral and poster presentation
45. * Holwerda, S. W., Credeur, D. P., DuBose, L. E., Schwartz, C. E., Fadel, P. J., Pierce, G. L. (2017). *Elevated sympathetic nerve activity mediates increases in large central elastic artery stiffness independent of changes in blood pressure in humans* (vol. 31, pp. 847.10). FASEB J.
Accepted to Experimental Biology meeting for oral and poster presentation
46. **** Perschbacher, K., Sandgren, J. A., Carrillo-Saenz, L., Witcher, P. C., Pearson, N. A., Santillan, D. A., Devor, E. J., Pierce, G. L., Santillan, M. K., Fisher, R. A., Gibson-Corley, K. N.,

- Grobe, J. L. (2017). *Reduced Placental Regulator of G-Protein Signaling-2 (RGS2) and Preeclampsia* (Supplement 1 ed., vol. 31, pp. 692.3). FASEB J.
47. **** Scroggins, S. A., Santillan, D. A., Peterson, J. M., Huber-Keener, K. J., Sandgren, J. A., Perschbacher, K. J., Pearson, N. A., Devor, E. J., Gomendoza, D. T., Pierce, G. L., Grobe, J. L., Santillan, M. A. (2017). *Vasopressin Antagonists Regulate Immune Responses in Preeclampsia* (Supplement 1 ed., vol. 31, pp. 845.4). FASEB J.
48. **** Sandgren, J. A., Linggonegoro, D. W., Pearson, N. A., Perschbacher, K. J., Santillan, D. A., Scroggins, S. M., Gibson-Corley, K. N., Pierce, G. L., Santillan, M. K., Grobe, J. L. (2017). *Vasopressin Induces Discrete Symptoms of Preeclampsia through Receptor- and Gestational Age-Specific Mechanisms* (Supplement 1 ed., vol. 31, pp. 1027.6). FASEB J.
49. * Pierce, G. L., Newell, J., Comellas, A., Hoffman, E. A., Croghan, A., DuBose, L. E., Nopoulos, P., Magnotta, V., Arndt, S., Hoth, K. F. (2016). *Carotid artery stiffness is associated with CT-measured lung air-trapping in COPD patients and controls independent of age, blood pressure and smoking history* (7.9th ed., vol. 16, pp. 64). Artery Research.
50. * DuBose, L. E., Moser, D. J., Stecklein, T., Harlynn, E., Haynes, W. G., Pierce, G. L. (2016). *Higher central and brachial systolic blood pressure is selectively associated with weaker cognitive performance in postmenopausal women but not older men* (PO-25 ed., vol. 16, pp. 96). Artery Research.
- Poster presentation at North American Artery society annual meeting
51. ** Reho, J. J., Guo, D.-F., Olson, A., Wegmen-Points, L., Samuel, I., Nau, P., Smith, J., Pierce, G. L., Rahmouni, K. (2016). *mTORC1 as a Novel Regulator of Vascular Endothelial Function in Obese Mice and Humans* (Supp 1 ed., vol. 68, pp. 080). Hypertension.
52. * Holwerda, S. W., Fiedorowicz, J. G., DuBose, L. E., Stroud, A. K., Ajibewa, T., Persons, J., Wooldridge, N., Myers, J. E., Pierce, G. L. (2016). *Obesity-related reductions in cardiac baroreflex sensitivity and higher 24-hour blood pressure variability are not related to carotid artery and aortic stiffness in young and middle-aged adults*. (Supp 1 ed., vol. 68, pp. A081). Hypertension.
53. **** Linggonegoro, D., Sandgren, J. A., Claflin, K. E., Perschbacher, K. J., Ni, J., Pearson, N. A., Pierce, G. L., Santillan, M. K., Grobe, J. L. (2016). *Physiological significance of angiotensin AT1A receptors in vasopressin-producing cells of the supraoptic nucleus* (Supp 1 ed., vol. 68, pp. 020). Hypertension.
54. ** Santillan, M. K., Scroggins, S. M., Ray, A. T., Witcher, P. C., Sandgren, J., Linggonegoro, D., Pierce, G. L., Santillan, D. A., Grobe, J. L. (2016). *Vasopressin release is enhanced before the development of preeclampsia in humans despite exaggerated suppression of plasma osmolality*. (Supp 1 ed., vol. 68, pp. P322). Hypertension.
55. * DuBose, L. E., Holwerda, S. W., Stroud, A. K., Wooldridge, N., Myers, J. E., Dubishar, K., Pierce, G. L. (2016). *Greater 24 hour blood pressure variability is associated with higher 24 hour systolic blood pressure and glucose independent of age and large elastic artery stiffness in normotensive adults*. (Supp 1 ed., vol. 68, pp. AP105). Hypertension.
56. **** Perschbacher, K., Santillan, D. A., Devor, E., Scroggins, S., Sandgren, J. A., Pierce, G. L., Santillan, M. K., Fisher, R. A., Gibson-Corley, K. N., Grobe, J. L. (2016). *Reduced expression of regulator of G-protein signaling (RGS2) in placenta during preeclampsia*. (Supp 1 ed., vol. 68, pp. P177). Hypertension.
57. **** Sandgren, J. A., Linggonegoro, D., Pearson, N. A., Perschbacher, K. J., Santillan, D. A., Scroggins, S. M., Gibson-Corley, K. N., Pierce, G. L., Santillan, M. K., Grobe, J. L. (2016). *Vasopressin induces discrete symptoms of preeclampsia through receptor- and gestational age-specific mechanisms* (Supp 1 ed., vol. 68, pp. P178). Hypertension.
58. ** Hoth, K. F., Pierce, G. L., Comellas, A., Nopoulos, P., Hoffman, E. A., Magnotta, V., Warner, K., Croghan, A., DuBose, L. E., Harlynn, E., Wamboldt, F., Newell, J. (2016). *COPD-related lung pathophysiology, aortic stiffening and altered brain structure: a magnetic resonance neuroimaging pilot study*. American Thoracic Society.
59. * Rasor, M., Wegman-Points, L., Reho, J. J., Santillan, M., Grobe, J. L., Santillan, D. A., Sindler, A. L., Rahmouni, K., Scroggins, S., Pierce, G. L. (2016). *Acute and chronic biological effects of copeptin on vascular function in mice and humans* (LB614 ed., vol. 30). FASEB J.
60. * Holwerda, S. W., Fiedorowicz, J. G., Kalil, G. Z., Persons, J., Ajibewa, T., Dubishar, K., Stroud, A. M., David, M., Abboud, F. A., Pierce, G. L. (2016). *Higher anxiety is associated with*

- elevated inflammation independent of obesity in humans* (LB763 ed., vol. 30). FASEB J.
61. * DuBose, L. E., Voss, M. W., Weng, T. B., Dubishar, K., Lane-Cordova, A., Sigurdsson, G., Schmid, P., Pierce, G. L. (2016). *Higher cardiorespiratory fitness is associated with lower cerebrovascular reactivity in older adults independent of age and aortic stiffness* (1288.18th ed., vol. 30). FASEB J.
 62. * Sindler, A., Kalil, G. Z., Wagner, C., Lane-Cordova, A., Fiedorowicz, J. G., Haynes, W. G., Pierce, G. L. (2016). *Higher hemoglobin A1C and c-reactive protein but not aortic stiffness are independently associated with blunting of nocturnal systolic blood pressure dipping among middle-aged/older adults with obesity and prediabetes*. (955.1th ed., vol. 30). FASEB J.
 63. ** Reho, J. R., Gao, D., Wegman-Point, L., Pierce, G. L., Rahmouni, K. (2016). *Increased mTORC1 signaling in the vasculature of diet-induced obese mice and obese humans* (1282.9nd ed., vol. 30). FASEB J.
 64. *** Santillan, M. K., Santillan, D. A., Scroggins, S. M., Min, J. Y., Leslie, K. K., Hunter, S. K., Samba, G.K.D., Grobe, J. L., Haynes, W. G., Pierce, G. L. (2015). *Pulse wave velocity and copeptin: Prediction and the possible early etiology of preeclampsia*. Society of Maternal Fetal Medicine meeting.
 65. * DuBose, L. E., Voss, M. W., Weng, T., Dubishar, K., Lane-Cordova, A., Sigurdsson, G., Schmid, P., Pierce, G. L. (2015). *Lower carotid artery compliance and greater carotid β -stiffness index are associated with slower processing speed and reduced working memory performance in older healthy adults* (vol. 132, pp. A18689.). Circulation.
 66. * Lane-Cordova, A., DuBose, L., Dubishar, K., Voss, M., Swift, M., Sigurdsson, G., Schmid, P., Pierce, G. L. (2015). *Resting systolic blood pressure and body mass index but not aortic stiffness independently predict systolic blood pressure response to maximal exercise in healthy adults*. Artery Research.
 67. **** Sandgren, J., Linggonegoro, D., Claflin, K., Pearson, N., Pierce, G. L., Santillan, M. K., Sigmund, C. D., Grobe, J. L. (2015). *Angiotensin AT1A receptors on vasopressin-expressing cells are dispensible for DOCA-salt hypertension* (vol. 66, pp. P060). Hypertension.
 68. * Pierce, G. L., Santillan, D. A., Fleener, D., Scroggins, S., Leslie, K., Hunter, S., Grobe, J. L., Sigmund, C., Haynes, W., Santillan, M. K. (2015). *Elevated circulating copeptin in mid-gestation is associated with increased aortic stiffness and vascular endothelial dysfunction in pregnant women at high risk for preeclampsia*. (vol. 66, pp. A041). Hypertension.
 69. ** Santillan, D., Majors, B., Scroggins, S., Devor, E., Zamba, G., Pierce, G. L., Leslie, K., Grobe, J. L., Sigmund, C. D., Santillan, M. (2015). *Predicting preeclampsia using copeptin in women at low risk of disease*. (vol. 66, pp. P176). Hypertension.
 70. * Scroggins, S., Santillan, D. A., Pearson, N., Sandgren, J., Min, J., Devor, E., Pierce, G. L., Leslie, K., Grobe, J. L., Santillan, M. K. (2015). *Vasopressin infusion in mice during pregnancy results in immune alterations consistent with human preeclampsia* (vol. 66, pp. AP094). Hypertension.
 71. ** Strahler, T. R., Pierce, G. L., Seals, D. R., Santos-Parker, J. R. (2015). *Habitual aerobic exercise does not significantly influence age-related microvascular endothelial dysfunction in healthy estrogen-deficient postmenopausal women* (vol. 29, pp. LB588.). FASEB J.
 72. * Lane-Cordova, A., Witmer, J. R., Dubishar, K., DuBose, L. E., Chenard, C. A., Wehrle, A., Pierce, G. L. (2015). *High trans-fat but not saturated fat beverage causes an acute reduction in vascular endothelial function and insulin sensitivity in humans* (vol. 29, pp. LB587). FASEB J.
 73. * Younatham, R., Siefers, K. J., Wegman-Points, L., Pierce, G. L. (2015). *Sodium salicylate prevents TNF alpha- induced reductions in insulin-stimulated eNOSser1177 phosphorylation but not Akt in human aortic endothelial cells* (vol. 29, pp. 802.5). FASEB J.
 74. * Kalil, G., Haynes, W. G., Zimmerman, M. B., Pierce, G. L. (2015). *Three months of novel triple combination pharmacotherapy reduces weight and blood pressure but not aortic stiffness in obese adults: a randomized, placebo controlled double blind clinical trial*. Circulation.
 75. * Dubose, L. E., Weng, T. B., Dubishar, K., Mani, M., Voss, M. W., Pierce, G. L. (2014). *Higher aortic stiffness and carotid systolic and pulse pressure are selectively associated with lower white matter integrity in the genu and frontal cortex in older healthy adults* (4th ed., vol. 8, pp. 174). Artery Research.
 76. * Kalil, G., Recober, A., Haynes, W. G., Zimmerman, M. B., Pierce, G. L. (2014). *Higher central augmentation pressure/index is associated with tension-type headache but not migraine in*

- middle-aged/older obese humans* (4th ed., vol. 8, pp. 175-76). Artery Research.
77. * Wegman-Points, L., Lane, A. N., Doerschug, K. C., Delsing, A., Pierce, G. L. (2014). *Impaired microvascular function and increased vascular endothelial cell angiotensin-2 and tie-2 receptor mRNA expression in human sepsis* (vol. 28, pp. LB12181). FASEB J.
78. **** Chalouhi, N., Points, L., Pierce, G. L., Ballas, Z., Jabbour, P., Hasan, D. (2014). *Localized increase of chemokines in the lumen of human cerebral aneurysms* (vol. 45, pp. AWMP32). Stroke.
International Stroke Conference Moderated Poster Abstracts
79. **** Hasan, D. H., Chut, Y., Nauseef, W. M., Pierce, G. L., Cheng, G., Points, L., Pena-Silva, R. A., Heistad, D. D. (2014). *Localized increase of myeloperoxidase in lumen of human cerebral aneurysms* (vol. 45, pp. AWMP35). Stroke.
80. * Tank, E. M., Wegman-Points, L., Pajaniappan, M., Darracott, K., Pierce, G. L. (2014). *Racial differences in circulating csRAGE and alternatively spliced esRAGE in healthy adolescents: Relation with aortic stiffness* (4th ed., vol. 8, pp. 168-69). Artery Research.
81. * Harris, S. A., Stauss, H. M., Seals, D. R., Pierce, G. L. (2014). *Reduced cardiac baroreflex sensitivity is associated with greater aortic stiffness in middle-aged/older humans: Beneficial effect of habitual aerobic exercise* (4th ed., vol. 8, pp. 172). Artery Research.
82. * Siefers, K. J., Wegman-Points, L., Witmer, J., Pierce, G. L. (2014). *Sodium salicylate rescues inflammation-associated decrease in phosphorylated-eNOSser1177 in human aortic endothelial cells through an AMPK-dependent mechanism*. FASEB J.
83. * Weng, T. B., Pierce, G. L., Darling, W. D., Magnotta, V., Voss, M. W. (2014). *The acute effects of exercise on large scale networks of the human aging brain: insights into the protective role of exercise*. Cognitive Neuroscience Meeting.
84. * Tank, E. M., Points, L., Siefers, K. J., Guinter, M., Pajaniappan, M., Darracott, K., Pierce, G. L. (2014). *Lower soluble RAGE and higher aortic stiffness in african-american adolescents: possible protective effect of higher sRAGE in white youth* (vol. 28, pp. 867.10). FASEB J.
85. * Pierce, G. L., Casey, D. P., Fiedorowicz, J. G., Seals, D. R., Curry, T. B., Barnes, J. N., Stauss, H. M. (2013). *Estimation of effective reflecting distance and aortic pulse wave velocity from peripheral blood pressure waveforms in young and older humans*. 16th Annual Iowa Physiological Society Meeting.
86. * Pierce, G. L., Pajaniappan, M., Dipietro, A., Darracott, K. V., Guinter, M., Kapuku, G. (2013). *Higher physical activity is associated with enhanced left ventricular diastolic function and exercise capacity and lower wave reflection in healthy adolescents independent of time in sedentary activities.* (12 supp ed., vol. 127, pp. AP247). Circulation.
87. * Pierce, G. L., Donato, A. J., LaRocca, T. J., Jablonski, K. L., Seals, D. R. (2012). *Endothelium-dependent dilation is inversely related to hematocrit among young and older adults* (vol. 26, pp. 865.13). FASEB J.
88. ** DeVan, A. E., Eskurza, I., Pierce, G. L., Walker, A. E., Jablonski, K. L., Kaplon, R. E., Seals, D. R. (2012). *Impaired fasting blood glucose-related exacerbation of age-associated vascular endothelial dysfunction: protective effect of regular aerobic exercise*. FASEB J.
89. ** Parikh, S. J., Harris, R., Zhu, H., Bhagatwala, J., Guo, D., Huang, Y., Pierce, G. L., Pratt, H., Dong, Y. (2012). *Improvement of subclinical target organ damage by amiloride as monotherapy in young overweight/obese prehypertensives*. American Coll of Phys.
90. **** Bhagatwala, J., Kotak, I., Parikh, S., Pierce, G. L., Zhu, H., Dong, Y. (2012). *Inverse relation between poor vitamin D status and central augmentation index in apparently healthy normotensive African American youth..* GA Coll of Phys Georgia.
91. **** Parikh, S. J., Zhu, H., Bhagatwala, J., Guo, D., Huang, Y., Pierce, G. L., Pratt, H., Dong, Y. (2012). *Peripheral and central blood pressure lowering effects of amiloride as monotherapy in overweight/obese young prehypertensives*. Am J Hypertens.
92. * Pierce, G. L., Casey, D. P., Fiedorowicz, J. G., Seals, D. R., Curry, T. B., Barnes, J. N., Wilson, D. R., Stauss, H. M. (2012). *Validation of aortic pulse wave velocity estimation from brachial artery and finger blood pressure waveforms in humans: Ability to detect age- and exercise training- related differences in effective reflecting distance and aortic pulse wave velocity* (4th ed., vol. 6, pp. 174). Artery Research.
93. ** Walker, A. E., Pierce, G. L., Kaplon, R. E., Russell, M. J., Lesniewski, L. A., Donato, A. J., Seals, D. R. (2011). *Absence of nuclear factor κ B suppression of vascular endothelial function*

- with aging in exercising adults* (vol. 25, pp. 821.6). FASEB J.
94. * Pierce, G. L., DiPietro, A., Pajaniappan, M., Bell, S., Darracott, K., Ortiz, L. A., Kapuku, G. K. (2011). *Augmented aortic forward pressure wave amplitude contributes to increased left ventricular mass in overweight adolescents* (4th ed., vol. 5, pp. 192). Artery Research.
 95. **** Schade, R., Pollock, N. K., Kapuku, G., Pierce, G. L., Misra, S., Bassali, R., Davis, C. L. (2011). *High waist circumference discriminates cardiometabolic risk in obese children*. Madrid: 4th International Conference on Prediabetes and the Metabolic Syndrome.
 96. * Pierce, G. L., Zhu, H., Huang, Y., Stallmann-Jorgensen, I., Guo, D., Edet, I., Darracott, K., Dong, Y. (2011). *Higher brachial and central systolic and pulse pressure in overweight/obese black adolescents: relation with aortic stiffness and wave reflection* (vol. 25, pp. 640.33). FASEB J.
 97. **** Bhagatwala, J., Kotak, I., Parikh, S., Pierce, G. L., Zhu, H., Dong, Y. (2011). *Inverse relation between poor vitamin D status and central augmentation index in apparently healthy normotensive African American youth*. Georgia College of Physicians Georgia Chapter Meeting.
 98. * Pierce, G. L., Jablonski, K. L., Walker, A. E., Seibert, S. M., Black, S. M., Shruti, S., Seals, D. R. (2011). *Reduced tetrahydrobiopterin bioactivity contributes to decreased carotid artery compliance with aging in healthy adults*. Circulation.
 99. ** DeVan, A. E., Pierce, G. L., Walker, A. E., Jablonski, K. L., Seals, D. R. (2011). *Vascular endothelial function and systemic markers of oxidative modification, antioxidants and inflammation in adults without clinical disease* (vol. 25, pp. 818.8). FASEB J.
 100. ** Christou, D. D., Pierce, G. L., Seals, D. R. (2011). *Vascular smooth muscle responsiveness to a nitric oxide donor is impaired in healthy adults with increased adiposity* (vol. 124, pp. A17226). Circulation.
 101. **** Jablonski, K. L., Pierce, G. L., Walker, A. E., Chonchol, M., Seals, D. R. (2010). *25-Hydroxyvitamin D deficiency is associated with vascular endothelial dysfunction in middle-aged and older adults* (vol. 24, pp. 1039.7). FASEB J.
 102. ** Davis, C. L., Pierce, G. L., Kapuku, G., Dong, Y. (2010). *Aortic stiffness, fatness and fitness in overweight school children*. Ann of Behav Med.
 103. * Pierce, G. L., Zhu, H., Huang, Y., Stallmann, I., Guo, D., Kapuku, G., Dong, Y. (2010). *Increased central artery pulse pressure and stiffness in overweight/obese african-american adolescents* (vol. 122, pp. A18774). Circulation.
 104. ** Walker, A. E., Pierce, G. L., Lesniewski, L., Lawson, B. W., Magerko, K., Seals, D. R. (2009). *Absence of inhibitor of nuclear factor κ B kinase-mediated suppression of vascular endothelial function in middle-aged and older adults who exercise* (vol. 23, pp. LB61). FASEB J.
 105. * LaRocca, T. J., Seals, D. R., Walker, A. E., Eskurza, I., Pierce, G. L. (2009). *Extracellular superoxide dismutase activity is reduced with aging in humans: relation to impaired vascular endothelial function and exercise capacity*. (vol. 23, pp. 777.8). FASEB J.
 106. * Pierce, G. L., Donato, A. J., Silver, A. E., Chiang, R., Seals, D. R. (2009). *Habitual aerobic exercise is associated with reduced vascular endothelial cell oxidative stress, NADPH oxidase and NF κ B in middle-aged and older humans*. (vol. 23, pp. 955.18). FASEB J.
 107. ** Eskurza, I., Pierce, G. L., Seals, D. R. (2009). *Habitual exercise protects middle-aged and older men with pre-diabetes from vascular endothelial dysfunction* (vol. 58(supp), pp. 202). Diabetes.
 108. ** Jablonski, K., Gates, P. E., Pierce, G. L., Eskurza, I., Seals, D. R. (2009). *Low dietary sodium intake is associated with enhanced vascular endothelial function in older adults with elevated baseline systolic blood pressure*. (vol. 23, pp. 1017.5).
 109. ** Gano, L. G., Seals, D. R., Roeca, C., Hanza, M., Pierce, G. L., Donato, A. J. (2009). *Reduction in mononuclear cell mRNA expression of pro-inflammatory and pro-oxidant genes with habitual aerobic exercise in older humans*. (vol. 23, pp. 776.8). FASEB J.
 110. ** Donato, A. J., Chiang, R., Pierce, G. L., Lawson, B. R., Seals, D. R. (2009). *Sedentary aging is associated with a senescent endothelial phenotype that is ameliorated by habitual exercise* (vol. 23, pp. 965.15). FASEB J.
 111. * Pierce, G. L., Eskurza, I., Walker, A. E., Fay, T. N., Seals, D. R. (2009). *Sex-specific effects of habitual aerobic exercise on brachial artery flow-mediated dilation in healthy middle-aged and older adults* (vol. 120, pp. S513). Circulation.
 112. * Christou, D. D., Eskurza, I., Silver, A., Beske, S. D., Gates, P. E., Walker, A. E., Connell, M.,

- Seals, D. R., Pierce, G. L. (2009). *The relation between body fatness and vascular endothelial function in healthy adults is dependent on age and sex*. Keystone Symposia.
113. * Pierce, G. L., Beske, S. D., Lawson, B. R., Southall, K. I., Benay, F. J., Donato, A. J., Seals, D. R. (2008). *Energy restricted weight loss improves conduit and resistance artery endothelial function in overweight/obese adults: relation to abdominal visceral fat, nitric oxide bioavailability and age*. (vol. 29, pp. 492). European Heart Journal.
114. * Melo, R., Seals, D. R., Catai, A. M., Pierce, G. L. (2008). *Higher blood pressure variability is associated with impaired vascular endothelial function in healthy middle-aged and older normotensive adults* (5th ed., vol. 22, pp. LB53). FASEB J.
115. ** Jablonski, K. L., Gardner, L., B. L., Pierce, G. L., Eskurza, I., Seals, D. R., Donato, A. J. (2008). *Increased cytochrome P450 2C9 signaling does not contribute to vascular endothelial dysfunction in healthy older adults* (5th ed., vol. 22, pp. 967.1). FASEB J.
116. * LaRocca, T. J., Seals, D. R., Walker, A. E., Hull, A. A., Anderson, J. E., Pierce, G. L. (2008). *Leukocyte telomere length is preserved with age in adults who exercise and is related to vascular endothelial function*. (vol. 118, pp. S1141-S1142). Circulation.
117. * Pierce, G. L., Lesniewski, L., Lawson, B., Beske, S., Seals, D. (2008). *Nuclear factor- κ B-associated inflammation mediates impaired endothelial function in non-diabetic middle-aged and older overweight/obese men* (5th ed., vol. 22, pp. 743.2). FASEB J.
118. *** Eskurza, I., Fay, T. N., Walker, A., Seals, D. R., Pierce, G. L. (2008). *Prediabetes in the absence of the metabolic syndrome is associated with impaired brachial artery flow-mediated dilation in older adults* (5th ed., vol. 22, pp. 1211.8). FASEB J.
119. * Fay, T. N., Seals, D. R., Eskurza, I., LaRocca, T., Bergquist, A., Pierce, G. L. (2008). *Tetrahydrobiopterin-mediated nitric oxide bioavailability contributes to the variability in vascular endothelial function in healthy middle-aged/older sedentary adults* (5th ed., vol. 22, pp. LB52). FASEB J.
120. * Pierce, G. L., Eskurza, I., Anderson, J., Seals, D. R. (2008). *Vascular endothelial function is selectively, positively related to leg/hip body fatness in healthy post-menopausal women* (5th ed., vol. 22, pp. 1211.7). FASEB J.
121. Pierce, G. L., Lesniewski, L. A., Lawson, B. R., Beske, S. D., Seals, D. R. (2008). *Vascular endothelial nuclear factor- κ B contributes to endothelial dysfunction via oxidative stress in middle-aged and older overweight/obese humans*. (vol. 118, pp. S553-S554). Circulation.
122. * Pierce, G. L., Seals, D. R., Eskurza, I., Walker, A. E., Bergquist, A. J., Silver, A., Donato, A. (2007). *Enhanced vascular endothelium-dependent dilation in older men who exercise is associated with markedly lower endothelial oxidative stress* (5th ed., vol. 21, pp. 765.16). FASEB J.
123. * Pierce, G. L., Schofield, R. S., Nichols, W. W., Hill, J. A., Braith, R. W. (2007). *Role of heart failure etiology on arterial wave reflection in heart transplant recipients: relation with circulating c-reactive protein* (2nd ed., vol. 1, pp. 74). Artery Research.

Podcasts

1. Pierce, G. L., Alexander, L., Kregel, K. C. (2013). *Oral sapropterin, aging, and skin blood flow*. Journal of Applied Physiology. <http://japppodbean.com/2013/07/08/oral-sapropterin-aging-and-skin-blood-flow/>.

Inventions and Patents

1. Pierce, Gary L, Holland, Marshall, Holwerda, Seth W. UIRF 2018-039, "Treatment Using Spinal Cord Stimulation".

Grants and Contracts

Funded

Current extramural funding

Jul 2022- Jun 2025

Cognitive function and brain structure early postpartum in women with preeclampsia. AHA969732

Funded by American Heart Association. Award amount: (\$300,000.00)

Percent effort: 20%. **Investigator/s: Gary L Pierce (Principal Investigator).**

Apr 2020- Mar 2025 ***Sympathetic regulation of large artery stiffness in humans with age-related isolated systolic hypertension.*** R01 AG063790-01
Funded by NIH/NIA. Award amount: \$1,719,248. Percent effort: 20%.
Investigator: Gary L Pierce (Principal investigator).

Apr 2022- Mar 2025 ***Mechanisms of Aspirin Therapy in the Prevention and Treatment of Maternal Vascular Dysfunction Following Preeclampsia.*** AHA937990
Funded by the American Heart Association. Award amount: (\$231,000)
Percent effort: 10%. **Investigator/s: Anna Stanhewicz (Principal Investigator). Gary L Pierce (Co-Investigator).**

Dec 2023- Nov 2027 ***Adverse Childhood Experiences, Sleep Disruption, and Mechanistic Links to Vascular Dysfunction in Young Adulthood.*** R01 HL167788
Funded by NIH/NHLBI. Award amount: (\$3,719,390). Percent effort: 10%.
Investigator/s: Nathaniel Jenkins (Principal Investigator). Gary L Pierce (Co-Investigator).

Completed extramural funding

Aug 2017 - Jul 2022 ***Exercise to improve hippocampal connectivity and learning in older adults*** R01 AG055500
Funded by NIH/NIA. Award amount: (\$3,511,184.00) Percent effort: 10%.
Investigator/s: Michelle Voss (Principal Investigator), Gary L Pierce (Co-Investigator).

Jul 2019 - Jun 2022 ***Inorganic Nitrate, Large Artery Stiffness and Cerebral Blood Flow in Aged Humans*** 19TPA34910016
Funded by American Heart Association. Award amount: (\$300,000.00)
Percent effort: 21%. **Investigator/s: Gary L Pierce (Principal Investigator).**

May 2017 - Apr 2022 ***Determinants of altered brain structure and function in smokers with COPD-related lung*** R01 HL134822
Funded by NHLBI. Award amount: (\$3,250,544.00) Percent effort: 10%.
Investigator/s: Gary L Pierce (Co-Investigator), Karin Hoth (Principal Investigator).

Sep 2015 -Sep 2020 ***Peroxide-mediated prothrombotic effects of aging*** 1R01 AG049784-01A
Funded by NIH/NHLBI. Award amount: (\$2,226,000) Percent effort: 5%.
Investigator/s: Sanjana Dayal (Principal Investigator), Gary L Pierce (Co-Investigator).

Jul 2018 - Jun 2020 ***Mechanisms of Early and Late Postpartum Hypertension in Women with Preeclampsia***
Funded by American Heart Association. Award amount: (\$465,681)
Percent effort: 5%. **Investigator/s: Gary L Pierce (Co-Investigator), Mark Santillan (Principal Investigator).**

Jul 2014 - Jun 2019 ***Does anxiety cause vascular dysfunction through inflammation and***

SNS activation? 2 P01 HL014388-41

Funded by NIH/NHLBI. Award amount: (\$2,427,796) Percent effort: 15%. Investigator/s: Francois Abboud (Principal Investigator), Gary L Pierce (Co-Investigator). In Program Project Grant: "Integrative neurobiology of cardiovascular regulation."

Apr 2015 - Mar 2019

Early vascular dysfunction and elevated copeptin in preeclampsia
15SFRN23760002

Funded by American Heart Association NCRP Strategically Focused Hypertension Research Network (SFRN). Award amount: (\$887,488) Percent effort: 25%. Investigator/s Curt Sigmund (Director), **Gary L Pierce (Principal Investigator)**. Clinical Science Project in Program grant: "Novel Neuroendocrine Mechanisms in Preeclampsia: Vasopressin and Copeptin"

Jul 2013 - Jun 2017

Vascular dysfunction in human obesity hypertension: integrative role of sympathetic and renin- angiotensin systems 13SDG143400012

Funded by American Heart Association National Center- Scientist Development Grant. Award amount: (\$308,000) Percent effort: 25%. Investigator/s: **Gary L Pierce (Principal Investigator)**.

Aug 2013 - Jul 2015

Targeting inflammation to treat cardiovascular aging in humans 1R21 AG043722

Funded by National Institutes of Health/National Institute on Aging. Award amount: (\$415,000) Percent effort: 20%. Investigator/s: **Gary L Pierce (Principal Investigator)**.

Apr 2015 - Mar 2017

Bridging acute and long-term exercise effects on brain function in older adults 1R21 AG048170-01A1

Funded by NIH/NIA. Award amount: (\$415,000) Percent effort: 5%. Investigator/s: Michelle W Voss (Principal Investigator), **Gary L Pierce (Co-Investigator)**.

Intramural grant awards

Sep 2018 -Aug 2019

Static Lung Hyperinflation and Sympathetic Nerve Activity-Associated Large Artery Stiffness in COPD 5P30 ES005605-28 (Thorne)

Funded by Environmental Health Sciences Research Center, College of Public Health. Award amount: (\$39,613) Percent effort: 10%. Investigator/s **Gary Pierce (Principal Investigator)**. Pilot Grant

Apr 2015 - Mar 2017

Large elastic artery stiffening, lung structure and function, and aortic calcium (Research Career Development Award)

Funded by Environmental Research Health Sciences Center, College of Public Health, University of Iowa. Award amount: (\$30,000) Number of Months: 24. Investigator/s: **Gary L Pierce (Principal Investigator)**.

Jan 2015 - Jun 2016

Molecular mechanisms of endothelial dysfunction and aortic stiffness in obesity Pilot grant

Funded by University of Iowa Center for Hypertension Research. Award amount: (\$90,000.00). Investigator/s: **Gary L Pierce (Co-Principal)**, Kamal Rahmouni (Co-Principal).

Jul 2014 - Jun 2015

Microvascular and endothelial responses to inhaled endotoxin:

potential therapeutic effect of parenteral ascorbic acid (Pilot grant)

Funded by Environmental Health Sciences Research Center. Award amount: (\$39,760.00) Number of Months: 12. **Investigator/s Gary L Pierce (Principal Investigator).**

Aug 2012 - Aug
2014

Inflammation inhibition for microvascular and autonomic dysfunction in obese adults with prediabetes (Pilot grant)

Funded by Fraternal Order of Eagles Diabetes Research Center (FOEDRC) University of Iowa, Pilot & Feasibility Research Grant. Award amount: (\$100,000.00) Number of Months: 24. **Investigator/s Gary L Pierce (Principal Investigator).**

Jul 2011 - Jun 2013

Anti-inflammatory therapy to treat vascular aging in humans 5 KL2 RR 24980-5 (KL2 Research Career Development Award)

Funded by University of Iowa Institute for Clinical and Translational Science (ICTS). Award amount: (\$130,968.00) Percent effort: 75%. **Investigator/s: Gary L Pierce (Principal Investigator).**

Jun 2013 - Jun 2014

Sparking the plastic brain: Effects of aerobic exercise on brain function (Pilot grant)

Funded by Biological Sciences Funding Program, University of Iowa Office of the Vice President for Research. Award amount: (\$25,000.00) Number of Months: 12. Investigator/s Michelle W. Voss (Principal Investigator), **Gary L Pierce (Co-Investigator).**

Postdoctoral or predoctoral student fellowships/grants

Jan 2023 - Dec 2024

Determining the effects of glycoacylx integrity on endothelial function (Predoctoral Fellowship).

Funded by American Heart Association. Award amount: \$53,688.00. Investigator/s: Colin Gimblet (Co-Principal), **Gary L Pierce (Co-Principal).**

Jan 2019 - Dec 2020

Static Hyperinflation and Sympathetic Nerve Activity-Associated Large Artery Stiffness in COPD (Predoctoral Fellowship).

Funded by American Heart Association. Award amount: \$53,688.00. Investigator/s Rachel Luehrs (Co-Principal), **Gary L Pierce (Co-Principal).**

Jan 2017 - Dec 2019

Anxiety-mediated impairments in large elastic artery function and the autonomic nervous system (Postdoctoral fellowship) 16POST30980038

Funded by American Heart Association. Award amount: (\$185,142.00) Percent effort: 0. Investigator/s Seth W Holwerda (Co-Principal), **Gary L Pierce (Co-Principal).**

Oct 2015- Dec 2017

Role of sympathetic nerve activity and baroreflex sensitivity on vascular function in humans with moderate/high state anxiety 5T32 HL007121-3

Funded by Interdisciplinary Cardiovascular Research Fellowship, Department of Internal Medicine. Award amount: (\$44,240.00) Percent effort: 100. Investigator/s Seth Holwerda (Investigator), Gary L Pierce (Principal Investigator).

Aug 2013 -Aug 2015

Mechanisms of microvascular dysfunction in a clinical/translational model of human sepsis 5T32 HL007121-37

Funded by Interdisciplinary Pulmonary Research Fellowship. Award amount: (\$40,664.00) Percent effort: 100. Investigator/s Gary L Pierce (Principal Investigator), Abbi Lane-Cordova (Co-Investigator). \$39,264 (salary) + \$1400 (travel), Role: Postdoctoral Mentor

May 2014 -Aug 2014 ***Molecular mechanisms of visceral adipose-stimulated endothelial cell dysfunction and insulin resistance: protective effects of sodium salicylate and laminar shear stress"*** Undergraduate STRIDE Summer Research Fellowship

Funded by American Physiological Society. Award amount: (\$4,300.00) Percent effort: 100. Investigator/s Gary L Pierce (Principal Investigator), Ramsan Younatham (Collaborator). Undergraduate American Physiological Society STRIDE Summer Research Fellowship for Ramsan Younatham

Aug 2012 - Jul 2014 ***Mechanisms of high-fat meal-induced vascular endothelial dysfunction in middle- aged/older humans: modulating role of habitual aerobic exercise. 5T32 HL007121-3***

Funded by Interdisciplinary Cardiovascular Research Fellowship, Department of Internal Medicine. Award amount: (\$40,664.00) Percent effort: 100. Investigator/s Jordan Witmer (Co-Investigator), Gary I Pierce (Principal Investigator). \$39,264 (salary) + \$1400 (travel) Role: Postdoctoral mentor for Jordan Witmer, PhD

May 2013 - Aug 2013 ***Cellular mechanisms of aortic stiffness and vascular endothelial dysfunction in obese adolescents***

Funded by University of Iowa Center for Research for Undergraduates (ICRU). Award amount: (\$2,000.00) Number of Months: 9. Investigator/s Gary L Pierce (Principal Investigator), Ericka Tank (Co-Investigator). Role: Mentor (ICRU) Award for Ms. Ericka Tank (Undergraduate Student in Health & Human Physiology)

May 2013 -Aug 2013 ***Cellular mechanisms of aortic stiffness and vascular endothelial dysfunction in obese adolescents. (Summer Undergraduate Research Fellowship)***

Funded by American Physiological Society. Award amount: (\$4,300.00) Percent effort: 100. **Investigator/s: Gary L Pierce (Principal Investigator)**, Ericka Tank (Co-Investigator). Undergraduate Summer Research Fellowship for Ms. Ericka Tank (Undergraduate Student in HHP),

Jan 2013 - May 2013 ***Effects of salsalate on hyperglycemia induced endothelial cell insulin resistance. (Graduate Research Scholarship)***

Funded by University Iowa Executive Council of Graduate and Professional Students (ECGPS). Award amount: (\$1,000.00). Investigator/s Gary L Pierce (Principal Investigator), Kyle Siefers (Co-Investigator). Role: Mentor for graduate student Kyle Siefers

Travel grants

Jun 2014 - Jun 2014 International Travel Award Travel to present an Invited Seminar at Pulse of Asia International Meeting and attend the International Society of Hypertension Meeting (Athens, Greece)

Funded by Univ of Iowa Stanley Foundation Support Organization. Award amount: (\$700.00).

Oct 2012 - Oct 2012 Travel to present research abstract at ARTERY 12 International Meeting (Vienna, Austria)
Funded by Univ of Iowa Stanley Foundation Support organization. Award amount: (\$600.00).

Extramural Grants Currently Under Review

2023 - 2027 ***Depression, Adverse Childhood Experiences and Vascular Function in Human Preeclampsia***
American Heart Association Strategically Focused Research Network
Percent effort: 20%. (Award amount: \$1,187,807). Investigator: Gary L. Pierce (Principal investigator).

Invited Lectures and Conference Presentations

University/Department - Keynote/Plenary Address

2020 Keynote Invited Lecture, COBRE Center for Cardiovascular Health Annual Symposium, *Central Elastic Artery Stiffness with Aging in Humans: Measurement, Mechanisms and Management*. College of Health Sciences, University of Delaware, Newark, Delaware (February 2020)

University/Department - Grand Rounds

2016 Division of Pediatric Cardiology Grand Rounds, Department of Pediatrics, Cincinnati Children's Hospital Heart Institute, *Elevated Copeptin and Vascular Dysfunction in Early Pregnancy: Novel Biomarkers for Human Preeclampsia?*, Cincinnati, OH

2015 Division of Cardiology Grand Rounds, Department of Medicine, *Habitual aerobic exercise in the prevention of arterial aging: mechanistic insights from translational studies in humans*, University of California at Los Angeles (UCLA), Los Angeles, California

2008 Division of Cardiology Grand Rounds, *Vascular aging in humans: modulating factors and cellular mechanisms*, Department of Medicine, Emory University School of Medicine, Atlanta, Georgia L

University/Department - Invited Lecture

2019 *Arterial Stiffness with Aging in Humans: Measurement, Mechanisms and Management*, University of Oregon, Department of Human Physiology, Eugene, Oregon

2014 *Inflammation inhibition for vascular and autonomic dysfunction in human obesity and prediabetes*, Department of Kinesiology and Nutrition, University of Illinois at Chicago, Chicago, Illinois, United States

2010 Basic Science Seminar, *Arterial aging in humans: translation from basic mechanisms to clinical interventions*, Department of Medicine, Medical College of Georgia, Augusta, Georgia

2010 Departmental Seminar, *Mechanisms of endothelial dysfunction in human aging and obesity: role of NFκB*, Department of Kinesiology, University of Georgia, Athens, Georgia

2008 Departmental seminar, *Vascular aging in humans: modulating effects of*

biological factors and lifestyle behaviors, Department of Rehabilitation and Movement Science, University of Vermont, Burlington, Vermont

- 2006 Vascular Biology Symposium, *Endothelium-dependent dilation in heart transplant recipients: effects of exercise training*, Department of Applied Physiology and Kinesiology, University of Florida, Gainesville, Florida
- 2003 Center for Exercise Science Seminar, *Abnormalities in peripheral vasodilation: the new therapeutic target for patients with heart disease*, Department of Applied Physiology and Kinesiology, University of Florida, Gainesville, Florida
- 2009 School of Sport and Exercise Science Seminar, *Arterial aging in humans: modulating effects of biological factors and lifestyle behaviors*, University of Northern Colorado, Greeley, Colorado

International – Oral Conference Presentation

- 2019 ARTERY 19 International Meeting, *Update on the 2019 North American Artery Meeting*, Artery Society (Europe), Budapest, Hungary (October 2019)
- 2018 ARTERY 18 International Meeting, *Update on the 2018 North American Artery Meeting*, Artery Society (Europe), Guimarães, Portugal

International - Invited Lecture

- 2022 ACSM World Congress on Basic Science of Exercise and Vascular Health; *Endurance Exercise and Arterial Stiffness with Aging and Hypertension: Mechanisms and Clinical Relevance*, 2022 American College of Sports Medicine Annual Meeting, June 2022, San Diego, CA.
- 2021 ACSM World Congress on Basic Science of Exercise in Regenerative Medicine (Virtual Symposium), *Human Arterial Aging: Mechanisms of Prevention and Treatment with Habitual Aerobic Exercise*, American College of Sports Medicine Annual Meeting, May 2021.
- 2020 ARTERY 20 Virtual Conference, *Sympathetic control of arterial stiffness and central hemodynamics*, Artery Society (Europe)
- 2020 ACSM Basic Science World Congress on Exercise in Regenerative Medicine (*meeting cancelled because of COVID19 pandemic), *Human Arterial Aging: Mechanisms of Prevention and Treatment with Habitual Aerobic Exercise*, American College of Sports Medicine, San Francisco, California
- 2018 DeGag Congress on Arterial Stiffness, *Sympathetic Regulation of Arterial Stiffness with Aging*, DeGag-German Artery Stiffness Society, Dresden, Germany
- 2017 7th Annual Meeting, *Sympathetic Regulation of Arterial Stiffness*, North American Artery Society, Chicago, Illinois
- 2014 6th Annual Meeting of Pulse of Asia, *Mechanisms of vascular aging in humans: role of habitual aerobic exercise*, Pulse of Asia, Athens, Greece
- 2013 Symposium Vascular Aging II: Translational Research to Clinical Application, *Targeting inflammation to treat vascular aging in humans*, International Association of Gerontology and Geriatrics (IAGG), 20th IAGG World Congress of Gerontology and Geriatrics, Seoul, South Korea

International – Poster Presentation

- 2017 ARTERY 17 Annual Meeting, *Effect of Chronic Inflammation Inhibition with Salsalate on Aortic Stiffness and Vascular Endothelial Function in Older Adults: A Randomized Controlled Study*, Artery Society, Pisa, Italy. Peer-Reviewed
- 2016 ARTERY 16 Meeting, *Carotid artery stiffness is associated with CT-measured lung air-trapping in COPD patients and controls independent of age, blood pressure and smoking history*, Artery Society-Europe, Copenhagen, Denmark. Peer-Reviewed/Refereed
- 2012 2012 ARTERY 12 International Meeting, *Validation of aortic pulse wave velocity estimation from brachial artery and finger blood pressure waveforms in humans: Ability to detect age- and exercise training- related differences in effective reflecting distance and aortic pulse wave velocity.*, Artery Society, Vienna, Austria. Peer-Reviewed/Refereed
- 2011 2011 ARTERY 11 International Meeting, *Augmented aortic forward pressure wave amplitude contributes to increased left ventricular mass in overweight adolescents*, Paris, France. Peer-Reviewed/Refereed

National – Other Oral presentation

- 2000 2000 ACSM Health/Fitness Instructor™ Certification Exam, *Physical work capacity testing*, American College of Sports Medicine, Boston, Massachusetts
- 1999 1999 ACSM Health/Fitness Instructor™ Certification Exam, *Physical work capacity testing*, American College of Sports Medicine, Boston, Massachusetts
- 1999 1999 ACSM Exercise Specialist™ Certification Exam, *ECG arrhythmia identification and emergency action*, American College of Sports Medicine, Boston, Massachusetts
- 1998 1998 ACSM Exercise Specialist™ Certification Exam, *ECG arrhythmia identification and emergency action*, American College of Sports Medicine, Boston, Massachusetts

National - Invited Lecture

- 2020 Kidney Week 2020- ASN Annual Meeting, *Aging, Arterial Stiffness and Hypertension: in Symposium "Extrarenal Mechanisms of Hypertension"*, American Society of Nephrology, Denver, Colorado
- 2019 Hypertension Scientific Sessions, *Recent Advances in Arterial Stiffness (Co-Chair)*, American Heart Association, New Orleans, Louisiana (September 2019)
- 2016 American Heart Association Scientific Sessions, *Novel Neuroendocrine Mechanisms in Preeclampsia: Vasopressin and Copeptin*, New Orleans, Louisiana
- 2016 North American Artery 6th Annual Meeting, *Habitual aerobic exercise and vascular endothelial function in human age-related prediabetes*, North American Artery Society, Chicago, Illinois, United States
- 2016 American Society of Hypertension Annual Meeting, *Elevated copeptin and vascular dysfunction in early pregnancy: novel biomarkers for human preeclampsia*, New York, New York, United States
- 2015 26th Annual Vascular Biology and Hypertension Meeting, *Elevated Copeptin*

and Vascular Dysfunction in Early Pregnancy: Novel Biomarkers for Human Preeclampsia, University of Alabama at Birmingham, Departments of Medicine and Epidemiology, Birmingham, Alabama

- 2014 North American Artery Society 4th Annual Meeting, *De-stiffening the aorta with habitual aerobic exercise in aging and hypertension: fact or fallacy?* North American Artery Society, Chicago, Illinois, United States
- 2003 2003 American Association of Cardiovascular and Pulmonary Rehabilitation National Meeting, *Exercise prescription in patients with chronic heart failure*, American Association of Cardiovascular and Pulmonary Rehabilitation, Kansas City, Missouri
- 1999 1999 ACSM Health/Fitness Instructor™ Workshop, *ACSM metabolic calculations*, American College of Sports Medicine, Boston, Massachusetts
- 1998 1998 ACSM Health/Fitness Instructor™ Workshop, *ACSM metabolic calculations*, American College of Sports Medicine, Boston, Massachusetts
- 1997 1997 ACSM Health/Fitness Instructor™ Workshop, *ACSM metabolic calculations*, American College of Sports Medicine, Boston, Massachusetts

National – Oral Abstract Presentation

- 2015 2015 American Heart Association Council on Hypertension Meeting, *Elevated circulating copeptin in mid-gestation is associated with increased aortic stiffness and vascular endothelial dysfunction in pregnant women at high risk for preeclampsia*, American Heart Association, Washington DC. Peer-Reviewed/Refereed
- 2015 5th Annual Meeting of North American Artery Society, *Resting systolic blood pressure and body mass index but not aortic stiffness independently predict systolic blood pressure response to maximal exercise in healthy adults*, North American Artery Society, Chicago, Illinois. Peer-Reviewed/Refereed
Presenters/Authors: Lane, Abbi (postdoc), Pierce, Gary L
- 2014 2014 Experimental Biology National Meeting, *Lower soluble RAGE and higher aortic stiffness in african-american adolescents: possible protective effect of higher sRAGE in white youth*, American Physiological Society, Cardiovascular Section, San Diego, California, United States Peer-Reviewed/Refereed
Presenters/Authors: Pierce, Gary. Student Presenters/Authors: Tank, Ericka
- 2009 2009 American Heart Association Scientific Sessions, *Sex-specific effects of habitual aerobic exercise on brachial artery flow-mediated dilation in healthy middle-aged and older adults*, American Heart Association, Orlando, Florida Peer-Reviewed/Refereed
- 2009 American Heart Association Scientific Sessions International Meeting, *2009 Nuclear factor kappaB activation contributes to vascular endothelial dysfunction via reductions in vascular oxidative stress in overweight/obese middle-aged and older humans*, American Heart Association, New Orleans, Louisiana. Peer-Reviewed/Refereed
- 2009 Experimental Biology International Meeting, *Habitual aerobic exercise is associated with reduced vascular endothelial cell oxidative stress, NADPH oxidase and NF- κ B in middle-aged and older humans*, FASEB, New Orleans, Louisiana. Peer-Reviewed/Refereed

- 2008 2008 Experimental Biology International Meeting, *Nuclear factor-kappaB-associated inflammation mediates impaired endothelial function in non-diabetic middle-aged and older overweight/obese men*, FASEB J, San Diego, California. Peer-Reviewed/Refereed
- 2004 2004 American College Sports Medicine National Meeting, *Reproducibility of forearm and calf blood flow to reactive hyperemia in young, healthy subjects*, American College of Sports Medicine, Indianapolis, Indiana. Peer-Reviewed/Refereed
- 2001 2001 American College Sports Medicine Meeting, *Lower exercise oxygen uptake during cycle ergometry in cardiac transplantation patients*, American College of Sports Medicine, Baltimore, Maryland. Peer-Reviewed/Refereed
- 1999 1999 American College Sports Medicine National Meeting, *Absolute peak oxygen uptake is a better indicator of improved exercise capacity in cardiac transplant patients*, American College of Sports Medicine, Seattle, Washington. Peer-Reviewed/Refereed

National - Symposium

- 2021 2021 American College of Sports Medicine (ACSM) Annual Scientific Meeting. *Human Arterial Aging: Mechanisms of Prevention and Treatment with Habitual Aerobic Exercise*, Invited Lecture, Basic Science World Congress on Exercise in Regenerative Medicine (Virtual Symposium).
- 2015 2015 Experimental Biology Meeting, *Vascular Endothelial Cell Insulin Resistance: The New Target for Reducing Vascular Risk in Diabetes?*, American Physiological Society Cardiovascular Section, Boston, Massachusetts. Peer-Reviewed/Refereed
- 2013 2013 Experimental Biology Meeting, *The Aging Cardiovascular System: Structural Remodeling in Health and Disease, Featured Topics Symposium* American Physiological Society Cardiovascular Section, American Physiological Society, Boston, Massachusetts. Peer-Reviewed/Refereed

National – Poster as first author presenter. *note- senior author posters are listed under abstract section

- 2013 2013 American Heart Association Epidemiology and Prevention/Physical Activity, Nutrition and Metabolism Scientific Sessions, *Higher physical activity is associated with enhanced left ventricular diastolic function and exercise capacity and lower wave reflection in healthy adolescents independent of time in sedentary activities*, American Heart Association, New Orleans, Louisiana Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary L
- 2013 2013 American Heart Association Epidemiology and Prevention/Physical Activity, Nutrition and Metabolism Scientific Sessions, *Higher physical activity is associated with enhanced left ventricular diastolic function and exercise capacity and lower wave reflection in healthy adolescents independent of time in sedentary activities*, American Heart Association, New Orleans, Louisiana, United States Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary L
- 2012 2012 Experimental Biology Meeting, *Endothelium-dependent dilation is inversely related to hematocrit among young and older adults*, San Diego, California Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary L
- 2012 2012 Experimental Biology National Meeting, *Endothelium-dependent dilation is inversely related to hematocrit among young and older adults*, American

- Physiological Society, San Diego, California, United States Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary L
- 2011 2011 Experimental Biology International Meeting,, *Higher brachial and central systolic and pulse pressure in overweight/obese black adolescents: relation with aortic stiffness and wave reflection*, FASEB, Washington, DC Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary I
- 2011 2011 American Heart Association Joint Conference-Nutrition, Physical Activity and Metabolism/Cardiovascular Disease Prevention Epidemiology Meeting, *Reduced tetrahydrobiopterin bioactivity contributes to decreased carotid artery compliance with aging in healthy adults,*, American Heart Association, Atlanta, Georgia Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary L
- 2010 American Heart Association Scientific Sessions, *2010 Higher central artery stiffness and pulse pressure in overweight/obese African-American adolescents*, Chicago, Illinois Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary L
- 2009 2009 Experimental Biology International Meeting, *Habitual aerobic exercise is associated with reduced vascular endothelial cell oxidative stress, NADPH oxidase and NF- κ B in middle-aged and older humans*, FASEB, New Orleans, Louisiana Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary L
- 2008 2008 Experimental Biology International Meeting, *Nuclear factor kappa B-associated inflammation mediates impaired endothelial function in*, San Diego, California Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary L
- 2008 2008 Experimental Biology Meeting, *Vascular endothelial function is selectively, positively related to leg/hip body fatness in healthy postmenopausal women*, FASEB, San Diego, California Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary L
- 2007 2007 American College Sports Medicine National Meeting, *Arterial wave reflection properties are associated with c-reactive protein and exercise capacity in heart transplant recipients*, American College of Sports Medicine, New Orleans, Louisiana Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary L
- 2007 2007 Experimental Biology Meeting, *Enhanced vascular endothelium-dependent dilation in older men who exercise is associated with markedly lower endothelial oxidative stress*, Washington DC, District of Columbia Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary L
- 2006 2006 American Heart Association Scientific Sessions, *Effect of aging and habitual endurance exercise on vascular endothelial NF kappa B protein expression and dilation in humans*, American Heart Association, Chicago, Illinois Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary L
- 2006 2006 American College Sports Medicine Meeting, *Acute effects of cold pressor test on central arterial pressure wave reflection in young, healthy adults*, Denver, Colorado Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary L
- 2005 2005 American Heart Association Scientific Sessions, *Exercise training improves vasodilation of limb resistance vasculature and attenuates inflammation and asymmetric dimethylarginine in heart transplant recipients*, American Heart Association, Dallas, Texas Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary L
- 2005 2005 American College Sports Medicine Meeting, *Nine months of resistance training does not increase arterial stiffness in postmenopausal women*, Nashville, Tennessee Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary I
- 2004 2004 American Heart Association Scientific Sessions, *Cardiac transplantation does not improve central arterial stiffness in patients with severe heart failure*, American Heart Association, New Orleans, Louisiana Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary L
- 1999 1999 American College of Cardiology Meeting, *Cardiovascular responses to*

dobutamine and exercise stress testing in patients taking beta-adrenergic blocking agents, American College of Cardiology, New Orleans, Louisiana
Peer-Reviewed/Refereed Presenters/Authors: Pierce, Gary L

Regional - Invited Lecture

- 2013 17th Annual Meeting of Iowa Physiological Society, *Targeting inflammation to treat arterial aging: translational physiology*, Iowa Physiological Society, Des Moines, Iowa, United States
- 2012 2012 Midwest Chapter of the American College of Sports Medicine (MWACSM), *Habitual aerobic exercise in the prevention and treatment of vascular aging*, American College of Sports Medicine, Oregon, Ohio, United States
- 2006 2006 Rocky Mountain Chapter of American College Sports Medicine Meeting, *Acute and chronic cardiovascular effects of exercise in heart transplant recipients*, Rocky Mountain Chapter of American College Sports Medicine, Estes Park, Colorado
- 1998 1998 New England Chapter of American College Sports Medicine Meeting, *Clinical exercise testing in cardiac transplantation patients*, New England Chapter of American College Sports Medicine, Providence, Rhode Island

Regional – Oral Abstract Presentation

- 1997 1997 New England Chapter of American College Sports Medicine Regional Meeting, *Comparison of ramp vs. graded exercise testing protocols in obese women*, New England Chapter of American College Sports Medicine, Providence, Rhode Island L
- 2010 2010 Southern Translational and Education Research Conference, *Lower vascular oxidative stress and higher endothelium-dependent dilation in middle-aged and older endurance exercise trained men: relation with extracellular superoxide dismutase activity*, University of Georgia

Regional – Poster Abstract Presentation

- 2012 16th Annual Meeting of Iowa Physiological Society, *Estimation of effective reflecting distance and aortic pulse wave velocity from peripheral blood pressure waveforms in young and older humans*, Iowa Physiological Society, Des Moines, Iowa, United States Peer-Reviewed/Refereed

University of Iowa - Invited Lectures

- 2018 Frontiers in Obesity, Diabetes and Metabolism, *Arterial Stiffness in Aging and Chronic Disease in Humans: Measurement, Mechanisms and Management*, University of Iowa Obesity Research and Education Initiative and Fraternal Order of Eagles Diabetes Research Center
- 2017 The Human Toxicology Program/Iowa Superfund Basic Research Program, *Arterial Stiffness and Lung Air-Trapping in Chronic Obstructive Lung Disease (COPD)*, Environmental Health Sciences Research Center, College of Public Health, University of Iowa, Iowa
- 2015 Department of Pharmacology Seminar, *Habitual aerobic exercise in the prevention of arterial aging: translational mechanistic insights from human and animal models*, Department of Pharmacology, Carver College of Medicine, University of Iowa, Iowa City, Iowa
- 2014 The Environmental Health Sciences Research Center, The Human Toxicology

Program Seminar, *Inhaled endotoxin, vascular endothelial dysfunction and cardiovascular disease risk in humans: potential therapeutic role of vitamin C*”, University of Iowa College of Public Health, Iowa City, Iowa, United States

- 2014 Diabetes and Obesity Seminar Series, *Sodium salicylates for the prevention of endothelial cell dysfunction in obesity and diabetes: novel role of AMP kinase?*, Fraternal Order of Eagles Diabetes Research Center, University of Iowa, Iowa City, Iowa, United States
- 2013 Diabetes and Obesity Seminar Series, *Inflammation inhibition for vascular and autonomic dysfunction in obese prediabetic humans*, Fraternal Order of Eagles Diabetes Research Center, University of Iowa, Iowa City, Iowa, United States

Other Internal University Invited Lectures

- 2009 Center for Exercise Science Seminar, *Arterial aging in humans: biological factors and cellular mechanisms*, Department of Applied Physiology and Kinesiology, University of Florida, Gainesville, Florida Presenters/Authors: Pierce, Gary L
- 2009 Vascular Biology Center Seminar, *Vascular aging in humans: biological factors and cellular mechanisms*, Vascular Biology Center, School of Medicine, Medical College of Georgia, Augusta, Georgia
- 2009 Georgia Prevention Institute Seminar, *Arterial endothelial dysfunction in human aging and obesity: role of oxidative stress and inflammation*, School of Medicine, Medical College of Georgia, Augusta, Georgia

SERVICE

Profession

- 2024-pres Editorial Board, *American Journal of Physiology-Heart Circulatory Physiology*
- 2023-pres Association for Chairs of Departments of Physiology (ACDP), Councilor (elected)
- 2023 Big Ten Academic Alliance Kinesiology Department Chairs Meeting (2-day), Program Chair, Big Ten Headquarters and Conference Center, Rosemont, IL
- 2023 External reviewer for promotion to Associate Professor with tenure of faculty at the University of Texas at Arlington, Reviewer, Promotion and Tenure
- 2023 External reviewer for promotion to Professor of faculty at the University of Missouri, Reviewer, Promotion and Tenure
- 2022 External reviewer for promotion to Associate Professor with tenure of faculty at the University of Delaware, Reviewer, Promotion and Tenure
- 2022- 2023 Editorial Board, *Journal of Applied Physiology*
- 2021 External reviewer for promotion to Professor of Medicine with tenure of dossier of faculty at Medical College of Wisconsin, Reviewer, Promotion and Tenure
- 2021 External reviewer for promotion to Associate Professor with tenure of faculty at University of North Carolina at Chapel Hill, Reviewer, Promotion and Tenure
- 2015 - pres Editorial Board, *Clinical Science*
- 2019 - 2022 American Physiological Society, Conference Committee, Member
- 2021 North American Artery Society, 10th Annual Meeting Program Committee- Virtual Program, Co-Chair
- 2021 Ad Hoc volunteer (12 manuscript reviews as of Sept 1), Reviewer, Publications
- 2020 Ad Hoc volunteer (20 manuscript reviews), Reviewer, Publications
- 2020 National Institutes of Health, Cardiovascular and Respiratory Sciences (CVRS-J) R15 study section, Reviewer, Grant Proposals (May, Sept)

2020 North American Artery Society, 10th Annual Meeting Program Committee (*cancelled because of COVID-19 pandemic), Co-Chair

2020 National Institutes of Health, Cardiovascular and Respiratory Sciences (CVRS-J) R15 study section, Reviewer, Grant Proposals

2019 Ad Hoc volunteer (17 manuscript reviews), Reviewer, Publications

2019 External reviewer for promotion to Clinical Associate Professor (non-tenure track) of dossier of faculty at University of Illinois at Chicago, Reviewer, Promotion and Tenure

2019- pres North American Artery Society, Treasurer

2019 North American Artery Society, 9th Annual Meeting Program Committee, Co-Chair

2016 - 2019 American Physiological Society, Awards Committee, Cardiovascular Section, Member

2019 Fraternal Order of Eagles Diabetes Research Center, University of Iowa, Poster Judge

2018 Ad Hoc volunteer (13 manuscript reviews), Reviewer, Publications

2018 External reviewer for promotion to Associate Professor with tenure of dossier of faculty at University of Missouri, Reviewer, Promotion and Tenure

2018 American College Sports Medicine, 2018 ACSM Integrative Physiology of Exercise Meeting, Scientific Program Committee, Member

2018 External reviewer for promotion and tenure dossier of faculty at Michigan Technological University (R2 University), Reviewer, Promotion and Tenure

2018 External reviewer for promotion to Associate Professor with tenure dossier of faculty at University of Delaware, Reviewer, Promotion and Tenure

2018 North American Artery Society, Program Committee, Co-Chair

2017 - pres Review Editor, *Experimental Physiology*

2017 Ad Hoc volunteer (23 manuscript reviews), Reviewer, Publications

2017 North American Artery Society, 7th Annual Meeting Program Committee, Co-Chair

2016 Ad Hoc volunteer (13 manuscript reviews), Reviewer, Publications

2016 Artery Society, Artery 16 Meeting- Poster Session Co-Chair, Co-Chair

2016 North American Artery Society, Program Committee, 6th Annual Scientific Meeting, Co-Chair

2016 University of Utah Center on Aging, Pilot grant external reviewer, Reviewer, Grant Proposals

2015 Ad Hoc Volunteer (23 manuscript reviews), Reviewer, Publications

2012 - 2015 American Physiological Society, Nominating Committee, Cardiovascular Section, Member

2010 - 2015 *Clinical Science*, Advisory Panel, Member

2015 North American Artery Society, Program Committee- 5th Annual Scientific Meeting, Co-Chair

2015 National Institutes of Health, Atherosclerosis Inflammation Cardiovascular Sciences (AICS) study section, Reviewer, Grant Proposals

2014 - 2015 American College Sports Medicine, Certified Clinical Exercise Specialist subcommittee, Committee on Certification and Registry Boards (CCRB), Member

2014 Ad Hoc Volunteer (22 manuscript reviews), Reviewer, Publications

2014 North American Artery Society, Program Committee, 4th Annual Scientific Meeting, Co-Chair

2014 American Heart Association, Behavioral Science-Clinical 2 Committee, Reviewer, Grant Proposals

2013 Ad Hoc Volunteer (22 manuscript reviews), Reviewer, Publications

2013 University of Delaware, INBRE Career Development Grant external reviewer, Reviewer, Grant Proposals

2013 North American Artery Society, Program Committee, 3rd Annual Scientific Meeting, Co-Chair

2012 Ad Hoc Volunteer (22 manuscript reviews), Reviewer, Publications

1997 - 2009 American College Sports Medicine, Member

2000 - 2001 New England Chapter of American College of Sports Medicine, State Representative (MA)

Department

2021-22	Annual Faculty review (2 nd year tenure track) committee for Erin Talbert, PhD, Member
2021-22	Annual Faculty review (1st Year tenure-track) committee for Nathaniel Jenkins, PhD, Chair
2021	Promotion to Professor of Instruction committee for Dan Matheson JD committee, Member
2021	Promotion to Associate Professor of Instruction committee for Bri Swope MA, Chair
2020 - pres	HHP Social Media Committee, Member
2018 - pres	Director of Graduate Studies, Dept of Health and Human Physiology, Director
2014 - pres	HHP Carl V. Gisolfi Seminar Series committee, Chair
2020	Annual Faculty review (1st Year tenure-track) committee for Anna Stanhewicz, PhD, Chair
2020	Annual Faculty review (2nd Year tenure-track) committee for Kara Whitaker, PhD, Member
2020	Annual Faculty review (2nd Year tenure-track) committee for Thorsten Rudroff, PhD, Member
2020	Annual faculty review (4th year tenure-track) committee for Melissa Bates, PhD, Chair
2020	Post-tenure 5 Year Review Committee for Prof Ben Hunnicutt, PhD, Member
2019	Department Consulting Group P&T committee Prof. Vitor Lira, Chair
2019	Promotion and Tenure Committee for Prof Vitor Lira, Dept of Health and Human Physiology, Chair
2019	Annual Faculty Review (1st Year) for Assistant Professor Thorsten Rudroff, Chair
2019	Annual faculty review (3rd year) for Assistant Professor Melissa Bates, Chair
2018 - 2019	Tenure track faculty search in Human Physiology, Dept of Health & Human Physiology, Chair
2019	Annual Faculty Review (3rd Year reappointment) for Assistant Professor Qian Xiao, Member
2019	Annual Faculty Review (5th Year) for Assistant Professor Vitor Lira, Chair
2017 - 2018	Annual Faculty Review (3rd year reappointment) for Melissa Bates, Assistant Professor, Chair
2017 - 2018	Annual Faculty Review (5th Year) for Assoc Professor Harald Stauss, Associate Professor, Chair
2017 - 2018	Annual Faculty Review for Shawn Flanagan, Associate Faculty of Instruction, Chair
2017 - 2018	Annual Faculty Review for Vitor Lira, Assistant Professor, Member
2018	Promotion and Tenure Committee for Darren Casey, PhD, Dept of Physical Therapy and Rehabilitation Sciences, Carver College of Medicine, Member, Darren Casey, PhD
2017 - 2018	Search Committee for Tenure-Track Faculty Position in Sensorimotor Neuroscience, Chair, Health and Human Physiology
2016 - 2018	Departmental Undergraduate Honors program, Director
2016 - 2017	Search Committee for Tenure-Track Faculty Position in Exercise Science, Chair
2015 - 2016	HHP Senior Lecturer Promotion committee for Shawn Flanagan, Member
2013 - 2014	Lecturer annual reviewer for Chris Schwartz, PhD, Reviewer
2013 - 2014	Lecturer annual reviewer for Shawn Flanagan, PhD, Reviewer
2013 - 2014	Search Committee for Tenure-track faculty position in Behavioral Nutrition, Department of Health and Human Physiology (#63166), Member
2013 - 2014	Search Committee for Tenure-track faculty position in Translational Physiology, Department of Health and Human Physiology (#63143), Member
2013 - 2014	Search Committee for Tenure-track faculty position in Clinical Exercise Physiology, Department of Health and Human Physiology (#63166), Chair
2012 - 2013	Chair, Louis E. Alley Annual Memorial Lecture Committee, Department of Health & Human Physiology
2012 - 2013	Lecturer annual reviewer for Shawn Flanagan, Reviewer
2012 - 2013	Search committee for Tenure-track faculty position in Nutrition, Department of Health and Human Physiology (#61302), Member
2011 - 2012	Lecturer annual reviewer for Dr. Clay Peterson, Reviewer

2011 - 2012 Lecturer annual reviewer for Dr. Shawn Flanagan, Reviewer
 2011 - 2012 Lois E. Alley Memorial Lecture Committee, Member
 2011 - 2012 Search committee for Tenure-track faculty position in Department of Health and Human Physiology and UI Obesity Initiative (#60075), Member

College (College of Liberal Arts and Sciences, CLAS)

2023 CLAS Department Consulting Group, Department Executive Officer of the Department of Communications Sciences and Disorders, Chair
 2022- pres CLAS Dean's Department Executive Officer Advisory Board, Science DEO, Member
 2022- pres CLAS Science Department Executive Officer Committee, Chair
 2013 Human Studies Animal Welfare Workgroup for 650:270/604 Principles of Scholarly Integrity course, Graduate College, Member

University

2022-present Health Science Academic Building Planning HHP Stakeholder Committee, Chair
 2022-present Health Science Academic Building Core Planning Committee, University of Iowa, Member
 2021 Recreational Services, Division of Student Life external program review, Internal focus group member
 2021 - 2026 Presidential Committee on Athletics, University of Iowa, Member, 5-year term
 2020 - 2023 Faculty Senate (CLAS Group III) University of Iowa, Member
 2019 - pres Clinical Research Unit Advisory Committee, Institute for Clinical and Translational Science, University of Iowa Carver College of Medicine, Member
 2018 - 2021 Recreational Services Charter Committee, University of Iowa, Member
 2015 Advocacy for Biomedical Research and Preeclampsia Research on Capitol Hill- Wash DC, Attendee, Sponsored by University of Iowa Office of the Vice President for Research

Community

2017 U Iowa Environmental Health Sciences Research Center/Institute for Clinical and Translational Science, Science Cafe, Invited Lecture
 2018-23 Club West Board Member, Iowa City West High School Athletics Booster Club
 2019-23 Iowa City Community School District, Athletic Booster Club, Iowa City West rep

Professional Development Activities

2023 Crucial Conversations® for Mastering Dialogue Training Workshop (2-day), University of Iowa
 2023 Summer Institute for Equity in the Academic Experience, Aspen Institute (3-day), University of Iowa
 2021-22 Training/Development Program, 2021 Leadership Workshop and Pre-Workshop Sessions, American Kinesiology Association
 2021-22 BUILD: Beyond the Numbers- Foundations for Diversity, Equity and Inclusion course