

Lindsey E. Miller, Ph.D
Lindsey E. Schreiber (maiden name)
Washington State University
Spokane, WA. 99210

Education

- 2012 Doctor of Philosophy
Auburn University, Auburn, AL
Kinesiology, Exercise Physiology
- 2008 Master of Science
Appalachian State University, Boone, NC
Exercise Science, Cardiopulmonary Rehabilitation
- 2006 Bachelor of Science
Northern Arizona University, Flagstaff, AZ
Exercise Science

Professional Experience

- 8/2014 - current** **Clinical Assistant Professor**
Nutrition and Exercise Physiology
Washington State University, Spokane, WA
- 5/2012 - 7/2014** **Postdoctoral Research Associate**
Department of Clinical Pharmacology
Washington State University, Spokane, WA
- 1/2009 - 5/2012** **Graduate Teaching Assistant, Laboratory Research Assistant**
Department of Kinesiology
Auburn University, Auburn, AL
- 8/2008 - 12/2008** **Adjunct Instructor**
Department of Health, Leisure and Exercise Science
Appalachian State University, Boone, NC
- 8/2008 - 12/2008** **Laboratory Technician**
Department of Health, Leisure, and Exercise Science
Appalachian State University, Boone, NC
- 8/2006 - 8/2008** **Graduate Research Assistant**
Department of Health, Leisure, and Exercise Science
Appalachian State University, Boone, NC

Professional Affiliations

American Physiological Society
American Heart Association
The American College of Sports Medicine
Northwest American College of Sports Medicine

Awards and Honors

G. Dennis Wilson Graduate Student Award Scholarship, Auburn University, 2011-2012
Outstanding Graduate Student Award, Auburn University, 2011
Auburn University Travel Grant, 2011
SEACSM Master's Student Research Award, 2009
Graduate Research Travel Award, Appalachian State University 2007 & 2008
Vaughn Christian Graduate Research Grant, Appalachian State University, 2007
Director's Award Tuition Scholarship, Northern Arizona University, 2002-2006

Scholarship

Peer-reviewed Publications:

1. Miller, L.E., McGinnis, G.R., Peters, B.A., Ballmann, C. G., Nanayakkara, G., Amin, R., Quindry, J.C. **Involvement of the delta opioid receptor in exercise induced cardiac preconditioning.** *Exp Physiol.* 100.4:410-421;2015.
2. Medford, H.M., Cox, E.J., Miller, L.E., Marsh, S.A. **Consuming a western diet for two weeks suppresses fetal genes in mouse hearts.** *Am J Physiol Regul Integr Comp Physiol.* 306(8):R519-R526;2014.
3. Quindry, J., Miller, L., McGinnis, G., Kliszczewicz, B., Slivka, D., Dumke, C., Cuddy, J., Ruby, B. **Environmental temperature and exercise-induced blood oxidative stress.** *International Journal of Sport Nutrition and Exercise Metabolism.* 23(2):128-136;2013.
4. Miller, L.E., McGinnis, G.R., Kliszczewicz, B., Slivka, D., Hailes, W., Cuddy, J., Dumke, C., Ruby, B., Quindry, J.C. **Blood oxidative-stress markers during a high-altitude trek.** *International Journal of Sport Nutrition and Exercise Metabolism.* 23(1):65-72;2013.
5. McAnulty, L.S., Miller, L.E., Hosick, P.A., Utter, A., Quindry, J.C., McAnulty, S.R. **Effect of resveratrol and quercetin supplementation on redox status and inflammation after exercise.** *Applied Physiology, Nutrition, and Metabolism.* 38(7)760-765;2013.
6. Quindry J.C., Miller, L., McGinnis, G., Kliszczewicz, B., Irwin, J.M., Landram, M., Urbiztondo, Z., Nanayakkara, G., Amin, R. **Ischemia reperfusion injury, KATP channels, and exercise-induced cardioprotection against apoptosis.** *Journal of Applied Physiology.* 113(3):498-506;2012.
7. Quindry, J.C., Miller, L.E. **Ischemia-reperfusion injury, exercise-induced cardioprotection.** *Encyclopedia of Exercise medicine in health and disease.* 487-492;2012.
8. Miller, L.E., Hosick, P.A., Wrieden, J., Hoyt, E., Quindry, J.C. **Evaluation of arrhythmia scoring systems and exercise-induced cardioprotection.** *Medicine and Science in Sport and Exercise.* 44(3):435-41;2012.
9. Quindry, J., Miller, L., McGinnis, G., Irwin, M., Dumke, C., Magal, M., Triplett, N., McBride, J., Urbiztondo, Z., **Muscle fiber type and blood oxidative stress following eccentric exercise.** *International Journal of Sport Nutrition and Exercise Metabolism.* 21(6):462-70;2011.

10. Quindry, J.C., Schreiber, L.E., Wrieden, J., Peterson, T. **Mitochondrial KATP channel inhibition blunts arrhythmia protection in ischemic exercised hearts.** *American Journal of Physiology-Heart and Circulatory Physiology*. 299(1):H175-83. 2010.
11. Hudson, M., Hosick, P., McCaulley, G., Schreiber, L.E., Wrieden, J., McAnulty, S., Triplett, T., McBride, J., Quindry, J.C. **The effect of resistance exercise on humoral markers of oxidative stress.** *Medicine and Science in Sports and Exercise*. 40:3:542-548. 2008.

Publications in Review or in Process:

1. Dieter, B.P., Vella, C.A., Johnson, E., Medford, H.M., Miller, L.E., Maricelli, J., Rodgers, B.D., Marsh, S.A. **Exercise-induced Nrf2 response is blunted in the db/db mouse heart and is associated with O-GlcNAc-regulation of Nrf2 activity.** *Diabetes, Obesity, and Metabolism* (in review).
2. Miller, L.E., Medford, H.M., Marsh, S.A. **The involvement of OGT on histone methylation during cardiac hypertrophy.** *American Journal of Physiology Heart and Circulatory Physiology* (in process).
3. Medford, H.M., Miller, L.E., Dieter, B.P., Johnson, E., and Marsh, S. **Knockdown of the 110kDa subunit of OGT dysregulates cardiac remodeling in response to pressure overload.** *American Journal of Physiology Heart and Circulatory Physiology* (in process).
4. Miller, L.E. **The protective effect of methylsulfonylmethane on cardiac inflammation and fibrosis.** *American Journal of Physiology Heart and Circulatory Physiology* (in process).

Professional Presentations:

1. Miller, L.E., McGinnis, G.R., Kliszczewicz, B., Peters, B.A., Ballmann, C., Amin, R., and Quindry, J.C. **Endogenous Opioids and Exercise Induced Cardioprotection.** (EB 2012)
2. Miller, L.E., Quindry, J.C., McGinnis, G.R., Irwin, J.M., Landram, M., Urbiztondo Z.G., Allums, L. **Exercise induced cardioprotection against tissue necrosis.** (SEACSM 2011)
3. Miller, L.E., McGinnis, G.R., Quindry, J.C. **The mitochondrial KATP channel does not mediate exercise preconditioning against long duration ischemia.** (EB 2011)
4. Miller, L.E., McGinnis, G.R., Kliszczewicz, B., Slivka, D., Hailes, W., Cuddy, J., Dumke, C., Ruby, B., and Quindry, J.C. **Blood oxidative stress markers during a short term trek on mount rainer.** (ACSM 2011)
5. Schreiber, L.E., Quindry, J.C., Irwin, M.J., Wrieden, J., Hoyt, E. and Hosick, P. **Mitochondrial KATP channel inhibition blunts arrhythmia protection in ischemic exercised hearts.** (SEACSM 2009)
6. Schreiber, L.E., McAnulty, S.R., McAnulty, L.S., Hosick, P.A., Wrieden, J.L., Hudson, M.B., and Quindry, J.C. **Resveratrol and catechin administration blunts exercise-induced oxidative stress and cytokine IL-8.** (ACSM 2008)

Funding

1. Title: Methylsulfonylmethane mediated protection against cardiac fibrosis. Agency: Bergstrom Nutrition. 8/1/2016 – 9/1/2017. \$16,000. Role: PI
2. Title: Epigenetic regulation of cardiac inflammation and fibrosis. Agency: Internal CON Grant Funding. 1/1/2015 – 12/1/2016. \$6,275. Role: PI

Teaching Experience:

Exercise Physiology

Washington State University, NEP 463

Fall 2014, 2015, 2016

Auburn University, KINE 3680

Spring 2010, Fall 2011

Appalachian State University, ES 3450

Fall 2008

Exercise Testing & Prescription

Washington State University, NEP 476

Spring 2015, 2016, 2017

Clinical Exercise Physiology (Graduate Course)

Washington State University, NEP 585

Spring 2015, 2016, 2017

Professional Preparation

Washington State University, NEP 300

Fall 2015

Strength Training & Conditioning

Washington State University, NEP 320

Fall 2016

Wellness

Auburn University, KINE 1103

Spring 2010 (2 sections lecture), Spring 2012 (2 sections online)

Service, Outreach and Leadership Activities

Department and University Service:

BS NEP Admissions Committee, Chair

BS NEP Curriculum Committee, member

BS NEP Scholarship Committee, member

ESFCOM Faculty Executive Council Committee, member

WSU Spokane Health Sciences Accessibility Committee, member

Invited Reviewer:

Cardiovascular Diabetology

Cellular Physiology & Biochemistry

Medicine and Science in Sport and Exercise

PlosOne

Graduate Committees:

Richard Young

Undergraduate Mentorship:

Ellison Stagaman, Washington State University, 2013

Outreach:

WSU-Spokane Postdoctoral Association Founding Member, 2013

Supporting girls in STEM. Mobius Science Center, Spokane WA. 2012

SEACSM Executive Board Student Representative 2011-2013

Professional Development Activities

Spring Technology Forum- A Look at a Variety of Tools in Use by WSU Faculty. WSU HRS Training, 4/5/2017.

Panapto Training Course, WSU Online Global Campus, 5/17/16

Engaging Students in Active Learning, WSU Online Global Campus, 1/20/16

College Teaching Workshop: From Madness to Methods- Bringing New Methods to the Classroom. WSU Spokane Health Sciences, 11/13/2014