Kathleen (Beehner) Lukaszewicz, PT, PhD

1515 East Lake Bluff Blvd. ~ Shorewood WI 53211
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EDUCATION:

8/2007 – 5/2012	Ph.D. in Physiology, Medical College of Wisconsin, Milwaukee, WI
8/2002 – 5/2004	MPT, Marquette University, Milwaukee, WI
8/1998 – 5/2002	B.A., Marquette University, Milwaukee, WI

RESEARCH EXPERIENCE:

3/2012 – 6/2012	Postdoctoral Fellow, Physiology, Medical College of Wisconsin, Milwaukee, WI (P.I.: Julian Lombard, PhD)
5/2008 – 3/2012	Ph.D. Dissertation Research, Medical College of Wisconsin *Upregulation of cytochrome P450 4A ω-hydroxylase and subsequent overproduction of 20-HETE results in increased superoxide, reduced nitric oxide bioavailability, and impaired vascular relaxation in Dahl salt-sensitive rats.*

FACULTY AND ADMINISTRATIVE APPOINTMENTS:

7/2015 – Present	Assistant director for graduate studies for Clinical and Translational Rehabilitation Health Science (CTRH) graduate program
10/2013 – Present	Program Assessment Leader (PAL) for Clinical and Translational Rehabilitation Health Science (CTRH) graduate program
7/2012 – Present	Clinical Assistant Professor, Department of Physical Therapy, Marquette University, Milwaukee, WI
6/2011 – 5/2012	Adjunct Professor, Department of Human Movement Sciences, University of Wisconsin – Milwaukee, Milwaukee, WI
1/2009 – 5/2011	Adjunct Professor, Department of Natural Sciences and Department of Physical Therapy, Carroll University, Waukesha, WI

PEER-REVIEWED PUBLICATIONS

1. **Lukaszewicz, K**. M., Durand, M. J., Priestley, J. R., Schmidt, J. R., Allen, L. A., Geurts, A. M., and Lombard J.L. Evaluation of Vascular Control Mechanisms Utilizing Video Microscopy of Isolated Resistance Arteries of Rats. *J. Vis. Exp*. 2017 (130), e56133.
2. **Lukaszewicz KM**, Paudyal MP, Falck JR, Lombard JH. Role of Vascular Reactive Oxygen Species in Regulating Cytochrome P450-4A Enzyme Expression in Dahl Salt-Sensitive Rats. *Microcirculation*. 2016 Oct; 23(7): 540-548.
3. **Lukaszewicz, KM**; Falck, JR; Manthati, VL; Lombard JH. Introgression of Brown Norway CYP4A Genes onto the Dahl Salt-Sensitive Background Restores Vascular Function in SS-5^{BN} Consomic Rats. *Clinical Science* (London). 2013 Jun;124(12): 695-700.
4. **Lukaszewicz, KM**; Lombard, JH. The Role of the CYP4A/20-HETE Pathway in Vascular Dysfunction of the Dahl Salt-Sensitive Rat. *Clinical Science* (London). 2013 Mar; 124(5):333-42.

PEER-REVIEWED ABSTRACTS

1. Eble C, Senefeld J, **Lukaszewicz KM**, Limberg J, and Hunter SK. Greater Fatigability of Lower Limb Muscles in People with Type 2 Diabetes: The Contribution of Blood Flow Kinetics. Marquette University Biomedical Sciences Summer Research Program, 2016

2. Senefeld J, **Lukaszewicz KM**, Limberg JK, and Hunter SK. Leg Blood Flow and Fatigability in People with Type 2 Diabetes. *American College of Sports Medicine*. Denver, CO, 2017
3. **Beehner K**, Falck JF, and Lombard J. *20-HETE and Vascular Dysfunction in the Dahl Salt-Sensitive Rat*. High Blood Pressure Research Conference 2011 Scientific Sessions, Orlando, FL, 2011.
4. **Beehner K**, Falck JR, and Lombard J. *The Effect of 20-HETE on the Vascular Dysfunction in the Dahl Salt-Sensitive Rat is a Result of Chronically Suppressed Angiotensin II Levels*. Experimental Biology, Washington DC, 2011.
5. **Beehner K**, Falck JR, and Lombard J. *Introgression of Brown Norway CYP4A Genes onto the Dahl Salt-Sensitive Genetic Background Restores Vascular Relaxation Mechanisms in SS.5^{BN} Consomic Rats*. Presented in the Best of AHA Specialty Sections at Scientific Sessions, Chicago, IL, 2010.
6. **Beehner K**, Falck JR, and Lombard J. *The Effect of a High Salt Diet on Vascular Regulation by 20-HETE*, Experimental Biology, Anaheim, CA, 2010.

PRESENTATIONS/INVITED LECTURES:

2015 Lukaszewicz, KM. *Understanding Pathophysiology for the Provision of Therapy*. Continuing education for Health Care Professionals, Marquette University, Milwaukee, WI.

2011 Lukaszewicz, KM. *20-HETE and Vascular Dysfunction in the Dahl Salt-Sensitive Rat*, in the department of Physical Therapy, Marquette University, Milwaukee, WI.

2011 Beehner KM, Falck JF, and Lombard J. *20-HETE and Vascular Dysfunction in the Dahl Salt-Sensitive Rat.* High Blood Pressure Research Conference 2011 Scientific Sessions, Orlando, FL.

2010 Beehner KM, Falck JR, and Lombard J**.** *Introgression of Brown Norway CYP4A Genes onto the Dahl Salt-Sensitive Genetic Background Restores Vascular Relaxation Mechanisms in SS.5^{BN} Consomic Rats*. High Blood Pressure Research Conference 2010 Scientific Sessions, Washington DC.

FELLOWSHIPS/AWARDS:

2012 Medical College of Wisconsin Excellence in Physiology Award – Summa Cum Laude
2011 Clinical Science Poster Prize at High Blood Pressure Research Conference 2011 Scientific Sessions, Orlando, FL
2011 High Blood Pressure Research Outstanding Trainee Award
2011 American Heart Association Pre-Doctoral Fellowship - Midwest Affiliate
2011 Microcirculatory Society's Benjamin Zweifach Student Award
2010 Annual High Blood Pressure Research New Investigator Award

INVITED JOURNAL REVIEWER

2011 – Present Hypertension

RESEARCH SUPPORT:

7/2011 – 3/2012 American Heart Association Pre-Doctoral Fellowship - Midwest Affiliate
1/2008 – 6/2011 National Institute of Health Training Grant (T-32)

GRADUATE STUDENT RESEARCH ADVISING

Ph.D. Dissertation Committee

Jonathan Senefeld

CERTIFICATION LICENSURE:

2004 – Present Physical Therapist – State of Wisconsin

2003 – 2004 Physical Therapist – State of Illinois

MEMBERSHIPS:

2016 – present American Physical Therapy Association (APTA)

2010 – 2013 American Heart Association

2010 – 2013 Microcirculatory Society

2010 – 2013 American Physiological Society (APS)

TEACHING ACTIVITIES:

Marquette University

07/2012 – present Clinical Assistant Professor, Department of Physical Therapy

- 08/2012 – present Course director, **Physiology of Activity**
- 08/2012 – 12/2015 Laboratory instructor, **Advanced Exercise Physiology**
- 01/2012 – 05/2017 Course director, **Tests and Measures**
- 01/2012 – 05/2015 Co-course director, **Pathophysiology and Aging**
- 01/2016 – 05/2017 Course director, **Pathophysiology**
- 07/2013 – 05/2016 Co-course director, **Physical Technologies and Electrotherapy**
- 09/2014 – present Invited lecturer (annually), **Applied Physiology**
  Title: Regulation of Microcirculation
- 06/2015 – present Invited lecturer (annually), **Physiology** (HCOP program)
  Title: Exercise Physiology
- 01/2018 – present Course director, **Clinical Pathology and Pathophysiology**
- 06/2017 – present Course director, **Cardiovascular and Pulmonary Physical Therapy**

University of Wisconsin – Milwaukee

06/2011 – 08/2011 Laboratory Instructor, Department of Physical Therapy
Course Title: **Gross Anatomy**

08/2011 – 05/2012 Adjunct Professor, Department of Human Movement Sciences
Course Title: **Anatomical Kinesiology**

Carroll University

01/2010 – 12/2011 Laboratory Instructor, Department of Health and Medicine
Course Title **Human Physiology**
Course Title **Anatomy and Physiology**

01/2011 – 05/2011 Adjunct Professor, Department of Physical Therapy
Course Title **Physical Therapy 401: Clinical Research I**

Medical College of Wisconsin

01/2008 – 05/2010 Laboratory Instructor, Department of Physiology
Course Title: **Medical Physiology**
*Laboratory Sessions: S*keletal muscle physiology, circulatory control.

08/2008 – 05/2009 Tutor for graduate students, Physiology Department

CLINICAL EXPERIENCE:

7/2012 – 10/2014	Marquette Sports Rehabilitation Clinic, Milwaukee, WI
5/2007 – 6/2009	Physical Therapist, Injury Rehabilitation Clinic, Brookfield, WI
6/2005 – 5/2007	Physical Therapist, SPORT Clinic of Greater Milwaukee, Wauwatosa, WI
6/2004 – 6/2005	Physical Therapist, Athletico, LLC, Bannockburn, IL
2004	Physical Therapist Internship, Bellin Sports Medicine, Green Bay, WI
2004	Physical Therapist Internship, St. Luke's Medical Center, Milwaukee, WI
2003	Physical Therapist Internship, Concentra Medical Center, Winston-Salem, NC
2002	Physical Therapist Internship, Zablocki VA Medical Center, Milwaukee, WI